

The image features a dark background with several blue wireframe structures that resemble architectural models or scaffolding. A bright yellow light beam enters from the right, illuminating the structures and creating a strong contrast. The overall aesthetic is futuristic and technical.

VOLUME
16

DE Deutsch
EN English

XAL

AULIX lighting

návrhy osvětlení a prodej svítidel
inteligentní systémy, vypínače

SVĚTELNÉ STUDIO

U Náměstí 708 (vchod z náměstí)
252 41 Dolní Břežany (Praha západ)

Telefon: +420 241 402 565

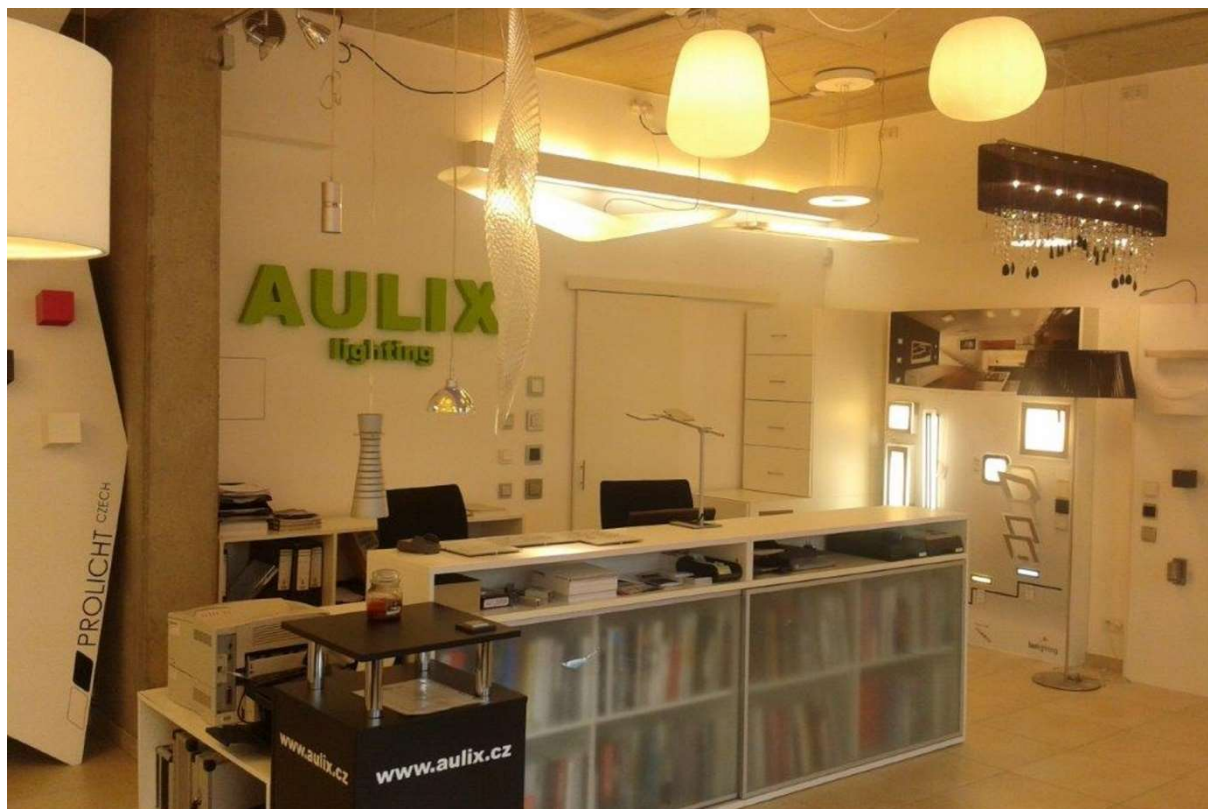
Mobil.: +420 702 053 063

Mobil.: +420 702 165 124

E-mail: info@aulix.cz

Web: www.aulix.cz

E-shop: <http://obchod.aulix.cz>



CONTENT

	CHAPTER	PAGE
01	Einbaustrahler / Downlights Recessed spotlights / Downlights	20
02	Einbauleuchten / Wallwasher Recessed luminaires / Wallwasher	126
03	Anbau- / Pendelstrahler Surface mounted and suspended spotlights	196
04	Anbau- / Pendelleuchten Surface mounted and suspended luminaires	224
05	Modulare Profilleuchtensysteme Modular profile lighting systems	336
06	Stehleuchten Free standing luminaires	484
07	Wandanbau- / Wandeinbauleuchten Wall mounted / recessed wall luminaires	500
08	Strahler und Stromschienen Track lights and tracks	534
09	Außen- und Bodeneinbauleuchten Outdoor and recessed floor luminaires	590
10	Technische Informationen Technical specifications	656
11	Index	674

PRODUCT INDEX

A		D		I	
	PAGE		PAGE		PAGE
ARGO	88	DIS SURFACE	212	INDO	632
ARGO TRACK	562	DIS TRACK	558	INDY	632
ASMO	96	DISC-O SURFACE	244	INVISIBLE ASYMMETRIC MINI	54
ASMO READ	530	DISC-O SUSPENDED	248	INVISIBLE ASYMMETRIC MIDI	56
AURO FOCUS	92	DOC	610	INVISIBLE ASYMMETRIC MAXI	58
AURO ROUND / SQUARE	94	DOT ROUND SUSPENDED	272	INVISIBLE RETRO MINI	76
		DOT SQUARE SUSPENDED	272	INVISIBLE RETRO MIDI	78
				INVISIBLE RETRO MAXI	80
				INVISIBLE ROUND	150
				INVISIBLE ROUND MINI	70
				INVISIBLE ROUND MIDI	72
				INVISIBLE ROUND MAXI	74
				INVISIBLE SQUARE	154
				INVISIBLE SQUARE MINI	60
				INVISIBLE SQUARE MIDI	64
				INVISIBLE SQUARE MAXI	66
B		E		J	
	PAGE		PAGE		PAGE
BO 55 BASIC	538	EDGE 60 SYSTEM	394	JANE CEILING SYSTEM	468
BO 55 BASIC SURFACE	210			JANE RECESSED SYSTEM	466
BO 55 BASIC CEILING	210			JANE WALL SYSTEM	467
BO 70 BASIC	542				
BO 70 FOCUS	546				
BO GOBO	552				
BO IRIS	552				
BO SHUTTER	548				
BOOST	120				
BUBBLE	156				
BUBBLE MINI	82				
BUBBLE MIDI	84				
BUBBLE MAXI	86				
C		F		K	
	PAGE		PAGE		PAGE
CANYON 60 / 100	172	FILO 120	650	KARO MINI	46
CANYON 60 DOT	174	FILO 160	652	KARO MIDI	48
CANYON 60 SYSTEM	383	FLOW SURFACE	268	KARO MAXI	50
CANYON 100 SYSTEM	419	FLOW SUSPENDED	270	KARO FRAME MINI	46
CANYON FRAME 80 / 120	176	FRAME 55 / 80 / 120	184	KARO FRAME MIDI	48
CANYON FRAME 80 SYSTEM	391	FRAME 55 SYSTEM	367	KARO FRAME MAXI	50
CANYON FRAME 120 SYSTEM	425	FRAME 80 CURVE	410	KARO TOP	204
CANYON TRACK 50	574	FRAME 80 IP65	624	KIS	118
CIRO CEILING	252	FRAME 80 SYSTEM	390	KIS SURFACE	214
CIRO SUSPENDED	254	FRAME 120 IP65	624	KIS TRACK	560
COMBO ROUND	140	FRAME 120 SYSTEM	424		
COMBO SQUARE	146	FRAME WALLWASHER	192		
CORD	218				
CORNER	504				
CORNER 65 SYSTEM	448				
CORNER MINI	502				
CUBU 120	524				
CUBU 150	524				
CUBU CEILING	618				
CUBU WALL	618				
G		H		L	
	PAGE		PAGE		PAGE
GEAR 3 SUSPENDED	332	HELIOS FREE STANDING	490	LECU 65	644
GRID SURFACE	208	HELIOS SUSPENDED	330	LECU 110	646
GRID-IN	108	HEX-O CEILING	316	LECU CEILING	623
		HEX-O SUSPENDED	322	LECU WALL	623
				LETU 65	640
				LETU 110	642
				LETU CEILING	623
				LETU WALL	623
				LIN	514
				LINEA SYSTEM	454
				LINO	512
				LITO 60 SUSPENDED	276
				LUN	520

M

	PAGE
MARA	526
MENO RETRO	170
MENO ROUND	136
MENO SQUARE	144
MENO TRIANGLE	168
METRIC SUSPENDED	308
MINIMAL 40 / 60 / 100	180
MINIMAL 40 SYSTEM	364
MINIMAL 60 CURVE	408
MINIMAL 60 SYSTEM	380
MINIMAL 100 SYSTEM	416
MINIMAL WALLWASHER	188
MINO 20 IP54	626
MINO 40 SURFACE	278
MINO 40 SUSPENDED	282
MINO 40 SYSTEM	368
MINO 60 CEILING	400
MINO 60 CIRCLE CEILING	286
MINO 60 CIRCLE SUSPENDED	288
MINO 60 CURVE	408
MINO 60 IP65	628
MINO 60 SURFACE	278
MINO 60 SUSPENDED	282
MINO 60 SYSTEM	398
MINO 100 IP65	628
MINO 100 SURFACE	278
MINO 100 SUSPENDED	282
MINO 100 SYSTEM	426
MINO X	194
MINO X SYSTEM	474
MINYON TRACK 50	580
MIRA ROUND	110
MIRA SQUARE	112
MOVE IT 25 SYSTEM	336
MOVE IT 25 UP SYSTEM	338
MOVE IT 45 ROUND	98
MOVE IT 45 SQUARE	102
MOVE IT 45 SYSTEM	350
MOVE IT 45 UP SYSTEM	350
MOVE IT 85 ROUND	100
MOVE IT 85 SQUARE	104

P

	PAGE
PERO	614
PERO WALL	612
PLANE SOFT SUSPENDED	312
PLANE SUSPENDED	310

S

	PAGE
SASSO TOP CEILING	198
SASSO TOP SUSPENDED	202
SASSO+ ASYMMETRIC	44
SASSO+ MINI FLUSH	24
SASSO+ MINI OFFSET	28
SASSO+ MIDI FLUSH	30
SASSO+ MIDI OFFSET	32
SASSO+ MIDI WLS OFFSET	36
SASSO+ MAXI FLUSH	38
SASSO+ MAXI OFFSET	40
SENIC FLUSH	160
SENIC JUT-OUT	162
SOL	520
SOLIS	612
SONIC FREE STANDING	496
ABSORBER	
SONIC FREE STANDING	494
SOUNDCAP	
SONIC SUSPENDED	264
SONO FLEX	132
SONO FLEX IP54	600
SONO FLEX TRIMLESS	128
SONO FLEX TRIMLESS IP54	598
SONO LOOP SURFACE	230
SONO LOOP SURFACE IP54	594
SONO LOOP SUSPENDED	232
SONO SURFACE	226
SONO SURFACE IP54	592
SONO SUSPENDED	228
STILA	634
STILO 60 SUSPENDED	401
STILO RAIL 60 SYSTEM	582
STRAIGHT	570
STRAIGHT WALLWASHER	572
STREAMCUT BOLLARD	602
STREAMCUT SURFACE	604
STREAMCUT WALL	606
STRETTA	508
STRETTA MINI	506
STUDIO	566

T

	PAGE
TASK CEILING	302
TASK FREE STANDING	486
TASK SUSPENDED	306
TIMO 80 FREE	554
TRAPEZ	164
TRIANGLE SURFACE	326
TRIANGLE SUSPENDED	328
TUBO	518
TUBO 100 / 150 SURFACE	298
TUBO 100 / 150 SUSPENDED	300
TUBO 100 SYSTEM	442
TUBO 150 SYSTEM	444
TULA	220

U

	PAGE
UFO CEILING	292
UFO SUSPENDED	294

V

	PAGE
VELA RECESSED	148
VELA RETRO CEILING	258
VELA RETRO SUSPENDED	260
VELA ROUND CEILING	236
VELA ROUND SUSPENDED	240

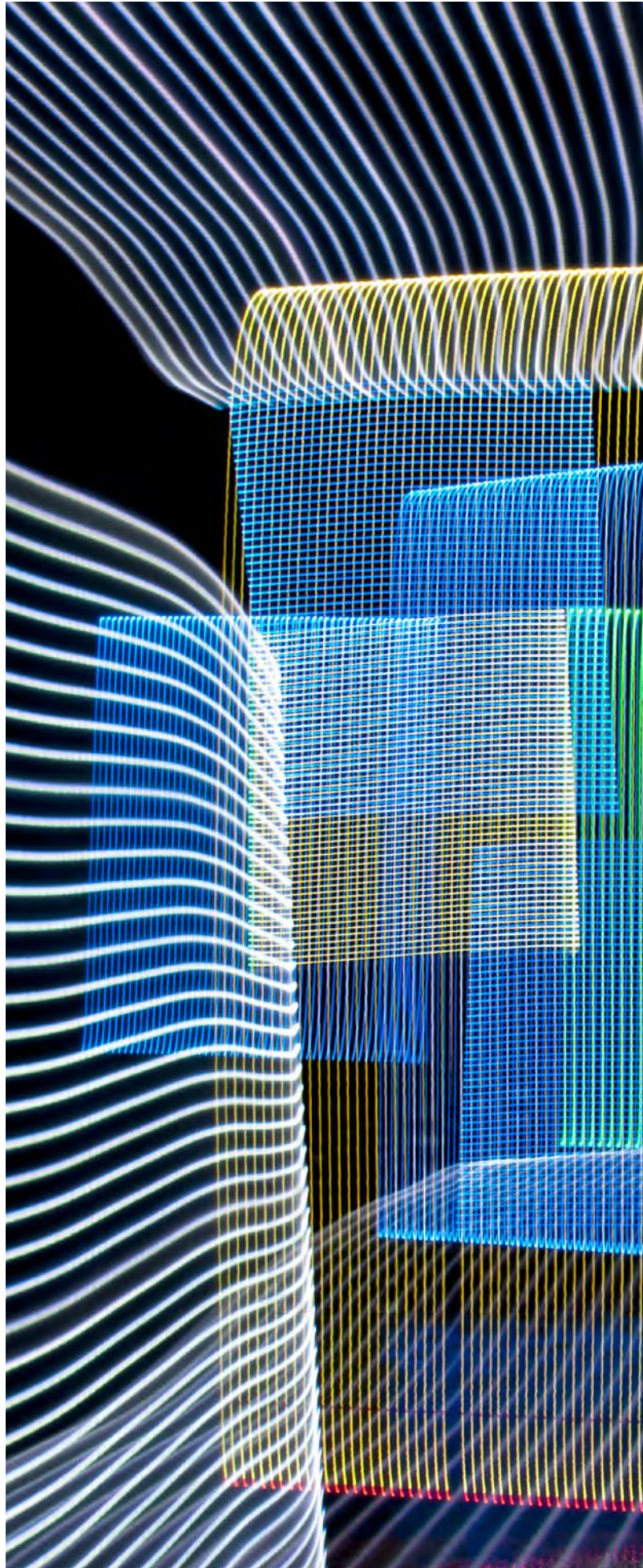
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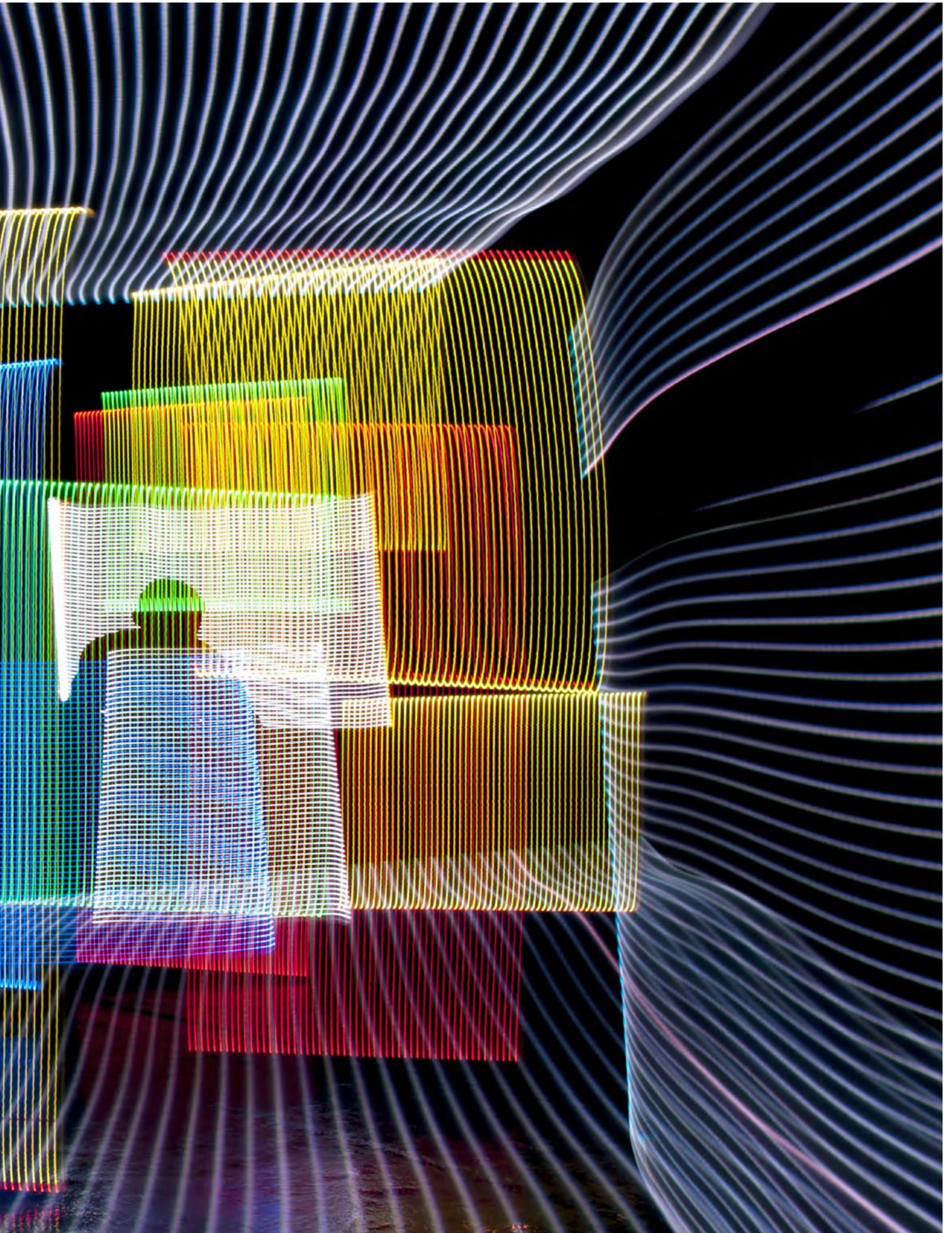
	PAGE
WALL MINI	116
WISE	638

SEE THE LIGHT

DE Unsere Leidenschaft gilt der Faszination Licht. Dieses Medium in all seiner Vielfältigkeit, seine optimale Abstimmung auf die Bedürfnisse der Anwender und die kontinuierliche Erweiterung des technisch Machbaren stehen bei XAL seit mehr als fünfundzwanzig Jahren im Mittelpunkt. Die Quintessenz dessen sind ästhetisch und funktionell hervorragende Lichtlösungen, die sich in unterschiedlichste Lebenssituationen perfekt integrieren. Für die hohen Anforderungen unserer Kunden und Partner bieten wir die notwendige Prozessqualität, Flexibilität und Internationalität, um jenseits kurzlebiger Trends nachhaltige Konzepte zu realisieren. Organisatorische Effizienz, F&E-Kapazitäten, die ihresgleichen suchen, und eine außerordentliche In-House-Fertigungstiefe ermöglichen es, maßgeschneiderte Lösungen und individuelle Produkte zu kreieren. Überzeugen Sie sich selbst. See the light.

EN Fascination with light is our passion. This medium in all its diversity, optimally tuning it to the needs of the users and continually expanding what is technically feasible, this has been the focus of XAL for over twenty-five years. Lighting solutions that stand out aesthetically and functionally and integrate themselves perfectly into diverse life situations are the quintessential result. For the high demands of our customers and partners, we offer the necessary process quality, flexibility and international scope to realise lasting concepts that go beyond short-lived trends. Organisational efficiency, unparalleled R&D capacities and exceptional in-house manufacturing depth allow us to create custom solutions and individual products. Take a look for yourself. See the light.





FEEL THE LIGHT

DE Licht ist ein Erlebnis. Licht hat enorme Wirkung auf Räume, Objekte und Situationen. Licht schafft einzigartige Atmosphäre. Ob für gewerbliche oder private Objekte - Leuchten von XAL machen architektonische Exzellenz komplett. Die perfekte Verbindung von zukunftsweisender Lichttechnologie, hoher Funktionalität und außergewöhnlicher Ästhetik zeichnen uns aus. Das bestätigen hochkarätige Fachjürs weltweit und würdigen unsere anmutenden Produkte mit internationalen Designpreisen. Darüber hinaus glauben wir an die Relevanz persönlicher Kontakte. Deshalb sind wir überall dort, wo unsere Kunden und Partner sind. Auf fünf Kontinenten vertrauen Architekten und Lichtplaner auf unsere Kompetenz und erleben unsere Leidenschaft. Feel the light.

EN Light is an experience. Light has enormous impact on spaces, objects and situations. Light creates unique atmospheres. Whether for commercial or private structures, luminaires from XAL put the finishing touch on architectural excellence. We realise the perfect combination of innovative lighting technology, high functionality and exceptional aesthetics. This has been confirmed by juries of experts around the world, who have graced our products with international design awards. We also believe in the importance of personal contact and strive to be everywhere our customers and partners are. Architects and light planners on five continents rely on our competence and experience our passion. Feel the light.





EXPERIENCE IN LED

DE XAL ist LED-Pionier. Wir entwickeln seit 1989 hochwertige Lichtlösungen und waren einer der Ersten, die sich intensiv mit der zukunftsweisenden LED-Technologie auseinandergesetzt haben. Seit 2003 bieten wir State-of-the-Art-LED-Leuchten, haben außergewöhnliche LED-Projekte umgesetzt und wurden mit internationalen Designpreisen ausgezeichnet. Wir treiben die Technologie aktiv voran, um noch bessere, energieeffizientere und hochwertigere Produkte für unsere Kunden zu schaffen. Perfektion in Funktion, Qualität und Design.

EN XAL is an LED pioneer. We have developed high-quality lighting solutions since 1989, and we were among the first to have dealt intensively with innovative LED technology. Since 2003, we have offered state-of-the-art LED luminaires, implemented exceptional LED projects and been recognised with international design awards. We actively advance the technology in order to create more energy-efficient and higher-quality products for our customers. Perfection in function, quality and design.

DE XAL erhält ersten Designpreis für LED-Leuchten: die SQUADRO LED Serie wurde mit dem Roeder Award für state-of-the-art Lichttechnologie ausgezeichnet.

EN XAL receives its first design award for LED luminaires: The SQUADRO LED series was recognised with the Roeder Award for state-of-the-art lighting technology.

DE Erstes umfassendes LED-Einzelprojekt: Die STILA-Technologie verwandelt den Büroturm der Grupa Lotos in eine weit sichtbare Lichtskulptur und macht das Headquarters zum Symbol für die polnische Wirtschaftsdynamik.

EN First comprehensive LED project: STILA technology transforms the office tower of Grupa Lotos into a light sculpture visible from afar and makes the headquarters a symbol of Polish economic vibrancy.



05

07

2003

04

06

08



DE Erster Strahler mit Hochleistungs-LEDs. LEDA ist wahlweise in Weiß, Blau, Grün oder Gelb für effektvolle Innen- und Außenbeleuchtung erhältlich.

EN First spot with high-power LEDs. LEDA is available in white, blue, green or yellow for effective interior and exterior lighting.

DE Das erste Bluetooth-Steuerschnittstelle: Mit blueXAL können erstmals LED-Leuchten mittels PDA oder Handy angesteuert werden.

EN The first Bluetooth control interface: With blueXAL, LED luminaires can now be controlled for the first time via PDA or mobile phone.

DE Mit der VELA LED Leuchte bringt XAL ein besonders flaches Design auf den Markt, das die Möglichkeit bietet, kardanische Strahler werkzeuglos zu integrieren.

EN With the VELA LED luminaires, XAL brings an especially flat design to the market, offering the capability for tool-free integration of gimbal-mounted spots.

DE Erste SMD Bestückungsline für Kleinserien und Prototypen. Durch die In-house Bestückung der Platinen mit LEDs kann XAL die hohe Qualität sicherstellen und auf Kundenwünsche individuell eingehen.

EN The in-house manufacturing is expanded with SMD placement machines. The mounting of LEDs to the circuit boards is performed by XAL.

DE Design Plus Award für Stromschienenstrahler TIMO und Innovationspreis für die Vitrinenbeleuchtungsserie NANO.

EN Design Plus Award for track-mounted spot TIMO and innovation award for the display case lighting series NANO.

DE Eröffnung des XAL Competence Centers, dem einzigartigen LED-Forschungs- und Entwicklungslabor am Headquarters Graz.

EN Opening of the XAL Competence Center, the unique LED research and development laboratory at the headquarters.

DE Die innovative App XAL Lighting Control bietet einfache und vollständige Steuerung des Beleuchtungs- und Jalousiesystems über iPhone/iPad.

EN The innovative app XAL Lighting Control offers a simple and easy way to control lighting and shutter systems via iPhone/iPad.

DE Der renommierte iF Design Award für außergewöhnliches Produktdesign geht an sieben XAL Leuchten.

EN The renowned iF Design Award for exceptional product design goes to seven XAL luminaires.

DESIGN PLUS



ASMO READ
AURO DROP
BULLET
CIRO CEILING
DOC
HELIOS FLOOR
HELIOS SUSPENDED

09

11

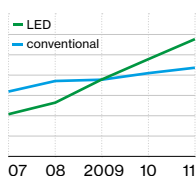
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reddot design award
winner 2011



reddot design award
winner 2013

CIRO CEILING
AURO DROP
BULLET



HELIOS SUSPENDED
CIRO CEILING
DOT SUSPENDED



TASK
STREAMCUT
TRAPEZ

DE Der Umsatz mit LED-Leuchten übersteigt erstmalig den Umsatz mit herkömmlichen Leuchtmitteln. Die edle Pendelleuchte CORD erhält den Design Competition Preis der Interior 2010.

EN The sales of LED luminaires exceed the sales of luminaires for conventional light sources for the first time. The refined suspended luminaire CORD receives the Design Competition award from Interior 2010.

DE Red Dot Award für TRIANGLE für herausragendes Produktdesign in Verbindung mit zukunftsweisender Lichttechnologie.

EN Red Dot Award for TRIANGLE for outstanding product design in connection with innovative lighting technology.

DE Drei Red Dot Design Awards und drei Good Design Awards unterstreichen die hohe Designorientierung von XAL-Leuchten.

EN Three Red Dot Design Awards and three Good Design Awards highlight the high design focus of XAL luminaires.

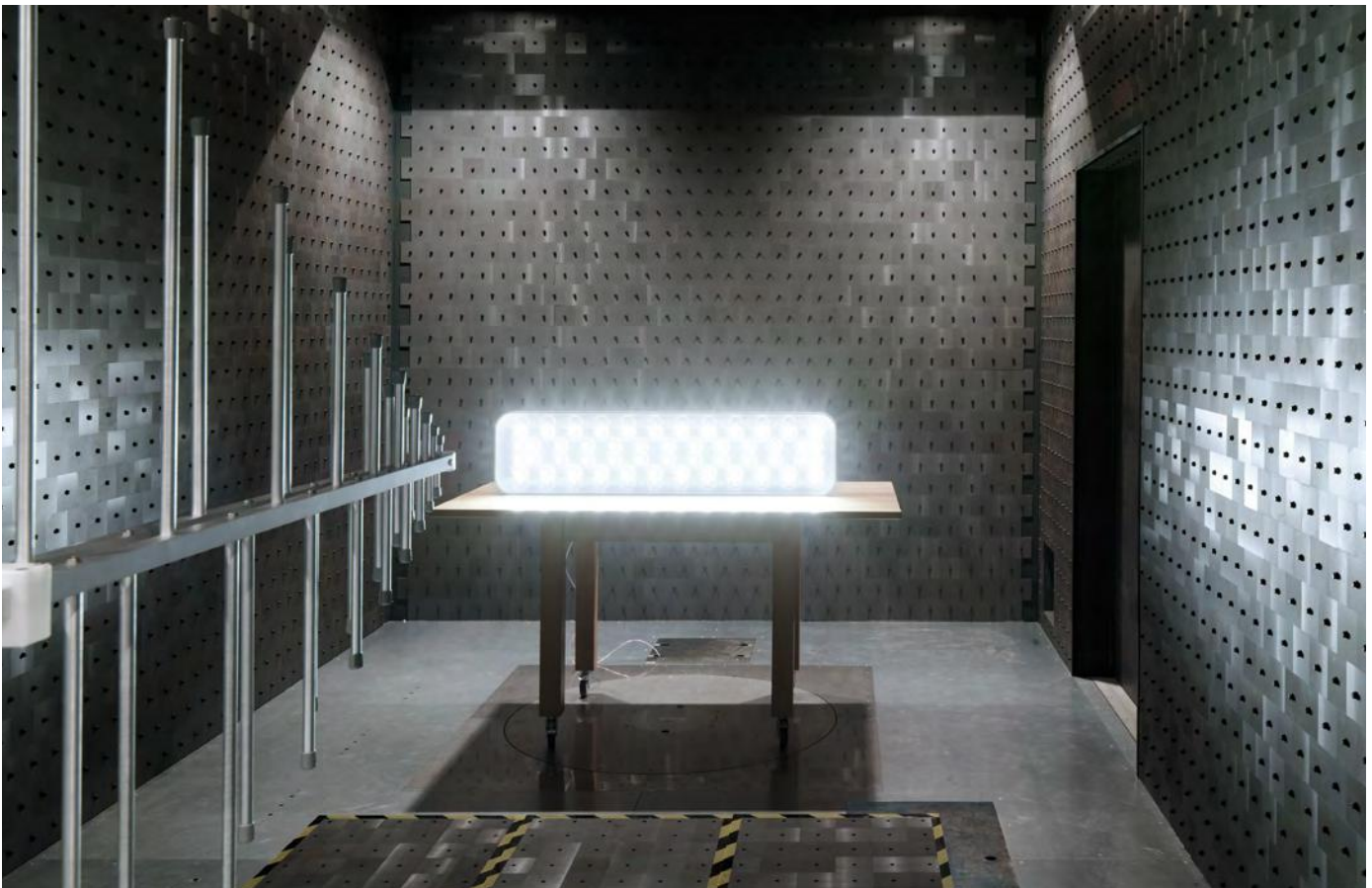
DE iF-Design Award für drei XAL-Leuchten: TASK, STREAMCUT, TRAPEZ

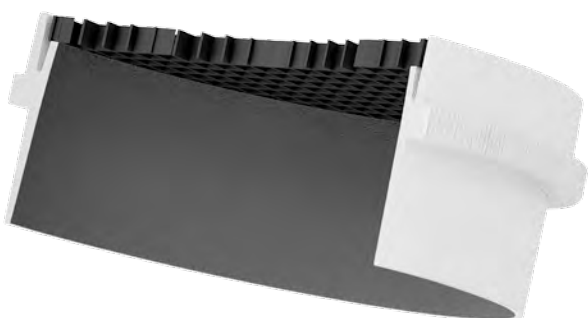
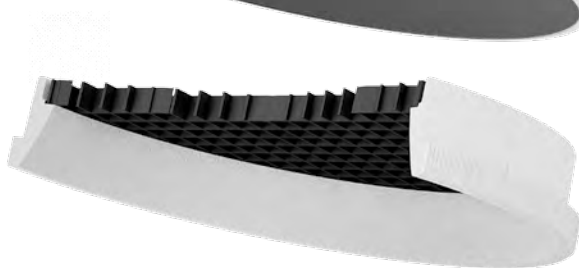
EN iF Design Award for three XAL luminaires: TASK, STREAMCUT, TRAPEZ.

TECHNOLOGY AND QUALITY

DE LED ist nicht gleich LED. XAL wählt die LEDs nach strengsten Kriterien und stimmt die relevanten Parameter (Binning, Farbwiedergabe, Bestromung und Temperatur) bestmöglich aufeinander ab. Wir unterteilen das Standard-Binning in weitere Unterkategorien und eliminieren Helligkeits- und Farbunterschiede, die bei anderen Herstellern noch im Toleranzbereich liegen. Für Bereiche, in denen höchste Farbwiedergabe gefordert ist, bietet XAL LEDs mit einem revolutionären RA-Wert (Farbwiedergabeindex) > 90%. Ein ausgereiftes Thermo- und Bestromungsmanagement ermöglicht eine Betriebstemperatur unserer LEDs zwischen 53°C und 85°C. Das Ergebnis: Hohe Homogenität über die gesamte Nutzungsdauer.

EN All LEDs are not the same. XAL selects LEDs according to the strictest criteria and optimally coordinates the relevant parameters (binning, colour rendering, current feed and temperature). We divide the standard binning into further sub-categories and eliminate brightness and colour differences that remain within the tolerance range for other manufacturers. For areas in which the best possible colour rendering is called for, XAL offers LEDs with a revolutionary RA value (colour rendering index) > 90%. Advanced thermal and current feed management enable an operating temperature for our LEDs between 53°C and 85°C. The result: high homogeneity over the entire useful life.



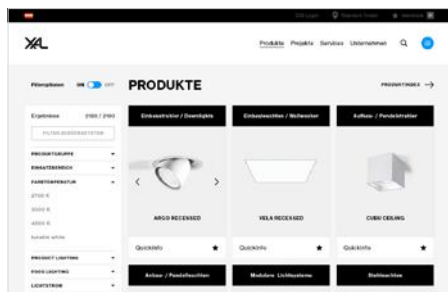


DE Mit unserem Qualitätsmanagementsystem und den Ressourcen unserer Lichtlabore stellen wir sicher, dass nur Leuchten höchster technischer Qualität und höchster Verarbeitungsqualität produziert und ausgeliefert werden. Unsere hohe Fertigungstiefe erlaubt uns die Kontrolle jedes einzelnen Fertigungsschritts: von der mechanischen Fertigung, über die elektronische Produktion einschließlich unserer hochmodernen SMD Bestückungsanlage, integrieren wir alle relevanten Produktionsschritte im Haus. Beste Testanlagen wie die EMV-Kammer, Goniophotometer, Klimaschrank, Spritzbogen oder Salzsprühkammer prüfen jede Leuchte auf Herz und Nieren. Das Ergebnis: Hervorragende Qualität aus einer Hand.

EN With our quality management system and the resources of our light labs, we ensure that only luminaires of the highest technical quality and the highest processing quality are produced and delivered. Our high manufacturing depth allows us to control every single production step. From the mechanical manufacturing to electronic production, including our ultra-modern SMD placement system, we integrate all relevant production steps in-house. Top-of-the-line testing systems such as EMC chambers, goniophotometers, climatic cabinets, arc spray and salt spray chambers comprehensively test every luminaire. The result: outstanding quality from a single source.

MORE XAL SERVICES

Online Catalogue



DE Ob bei Ihren Kunden oder direkt in Projektbesprechungen – unsere Online Kataloge bieten Ihnen ortsunabhängig und jederzeit Zugriff auf die umfassende Produktpalette. Mit Hilfe der Suchfunktion haben Sie die gewünschten Produktdaten schnell und einfach zur Hand. www.xal.com/products

EN Our online catalogues provide location-independent anytime access to our full product range, whether at your customers' offices or during project meetings. The search function gives you quick and easy access to all of the product data you need. www.xal.com/products

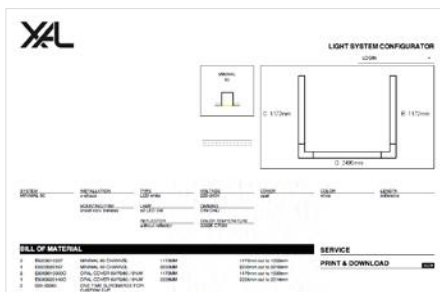
RELUX & DIALux



DE Wir bieten Ihnen die photometrischen Leuchtendaten für die Verwendung in den Beleuchtungsprogrammen RELUX oder DIALux im LDT bzw. IES Format als Download auf www.xal.com/relux_dialux.

EN We offer photometric data in LDT and IES format for use in RELUX and DIALux lighting programs. Downloads are available at www.xal.com/relux_dialux.

Online Configurator



DE Sie sind in der Planung und möchten umgehend sehen, wie Ihre Ideen technisch umsetzbar sind? Der praktische XAL Online-Konfigurator unterstützt Sie dabei und liefert auf einen Klick die Bestellliste inklusive der Spezifikationen. Erfahren Sie mehr unter www.xal.com/configurator.

EN Are you in the planning process and would like to see immediately whether your ideas are technically feasible? The practical XAL online configurator supports you and supplies an order list, including specifications, at the press of a button. Learn more at www.xal.com/configurator.

pCon Planner



DE Mit geringem Zeitaufwand können vollständige 3D-Planungen erstellt werden. Die Detaildaten zu den Leuchten werden kostenlos auf der Online Plattform pCon.catalog bereitgestellt und lassen sich einfach in die Planung importieren. Das Ergebnis beinhaltet großartiges Bildmaterial, 360° Panoramen und Videos.

EN Complete 3D planning can be created quickly. The detailed data on the luminaires are offered free of charge on the online platform pCon.catalog and can be imported into plans with ease. The result includes magnificent image materials, 360° panoramas and videos.

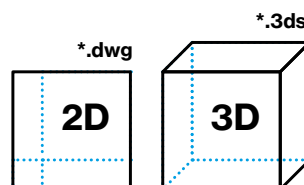
After Sales Services



DE XAL ist auch nach erfolgter Bestellung für Sie da. Wir bieten Ihnen fachkompetente Beratung bei der Installation der Leuchten oder im Bereich der Netzanalyse-Messung. „Get in touch“ mit dem XAL After Sales Team: Montag bis Freitag telefonisch von 7:00 bis 20:00 unter +43.316.3170.9400 oder jederzeit via service@xal.com.

EN XAL is there for you even after your order is filled. We offer professional advice for installation and for grid analysis measurement. Reach the XAL after sales team by phone Monday through Friday from 7:00 am to 8:00 pm at +43.316.3170.9400 or any time at service@xal.com.

2D / 3D / photometric



DE Um Ihre Lichtplanung noch einfacher zu machen, finden Sie die 2D- und 3D-Daten unserer Produkte zur Verwendung in Ihren CAD-Programmen auf www.xal.com/services zum Download.

EN To make planning your lighting project even easier, we make 2D and 3D data for our products available for use with your CAD programs. Downloads are available at www.xal.com/services.

Catalogues & Brochures



DE Suchen Sie zielgerichtet nach Leuchten für Shop, Büro, Außen oder andere Anwendungen? Unsere Spezialkataloge bieten Ihnen die passenden Lösungen auf einen Blick. Blättern Sie darin online oder bestellen Sie die hochwertigen Druckversionen. XAL inspiriert.

EN Are you looking for specific luminaires for your shop, office, outdoor space or another purpose? Our special catalogues provide information about the right solutions at a glance. Page through them online or order a high-quality printed copy. XAL inspires.

Light Magazine



DE Möchten Sie mehr über unsere innovativen Lichtlösungen und das Unternehmen erfahren? Im Kundenmagazin XAL Light finden Sie unsere schönsten Projekte ergänzt durch wertvolle Tipps und internationale Trends zu Licht, Architektur und Interieur. Tauchen Sie ein in die Designwelt von XAL.

EN Would you like to learn more about our innovative lighting solutions and our company? Our XAL Light customer magazine showcases our most beautiful projects and includes valuable tips and information about international trends in lighting, architecture and interior design. Dive into the XAL design world.

Mounting Videos



DE Auch bei der Montage von komplexen Lichtsystemen lassen wir Sie nicht allein. Mit unseren Erklärvideos greifen wir Ihnen unter die Arme und erklären Ihnen den Einbau Schritt für Schritt für eine effiziente und sorglose Montage.

EN We're there for you even when it comes to installing complex lighting systems. Our how-to videos take you by the hand and explain installation step by step for efficient and worry-free installation.

Showrooms



DE Erleben Sie unsere Leuchten hautnah. Lassen Sie sich inspirieren, nutzen Sie die Beratungskompetenz unserer Mitarbeiter und finden Sie genau die Lichtlösung, die all Ihren Ansprüchen gerecht wird. Egal ob in New York, Amsterdam, Paris, Berlin, Zürich, London, Graz oder bei zahlreichen Partnern weltweit.

EN Experience our luminaires up close. Let yourself be inspired, take advantage of our expert advisers expertise and find the right solution that meets all of your needs. Whether in New York, Amsterdam, Paris, Berlin, Zurich, London or Graz or by visiting one of a number of partners located worldwide.

Education



DE Lernen von den Besten. XAL veranstaltet regelmäßig Fachvorträge mit namhaften Architekten wie Sauerbruch Hutton, Tony Fretton oder Dominique Perrault im Headquarter Graz. Nutzen Sie diese einzigartige Gelegenheit zu inspirierenden Gesprächen für Ihre persönliche Weiterentwicklung.

EN Learn from the best. XAL regularly hosts expert talks with renowned architects such as Sauerbruch Hutton, Tony Fretton and Dominique Perrault at the Graz headquarters. Use these unique opportunities for inspiring conversations that will spur your personal development.

Events



DE Profitieren Sie vom internationalen Branchenaustausch. Regelmäßig laden wir Architekten, Lichtdesigner und Kunden in das Headquarter nach Graz ein. Beim Get-Together der Extraklasse geben wir tiefen Einblick in unser Verständnis von Licht und Technologie und bieten ein stimmungsvolles Rahmenprogramm. So haben Sie XAL noch nicht erlebt.

EN Profit from an international exchange of ideas. We regularly invite architects, light designers and customers to our headquarters in Graz. At these high-calibre gatherings, we offer deep insights into our understanding of light and technology alongside a stimulating side programme. You haven't experienced XAL like this yet.



Unsere Garantie Our Guarantee

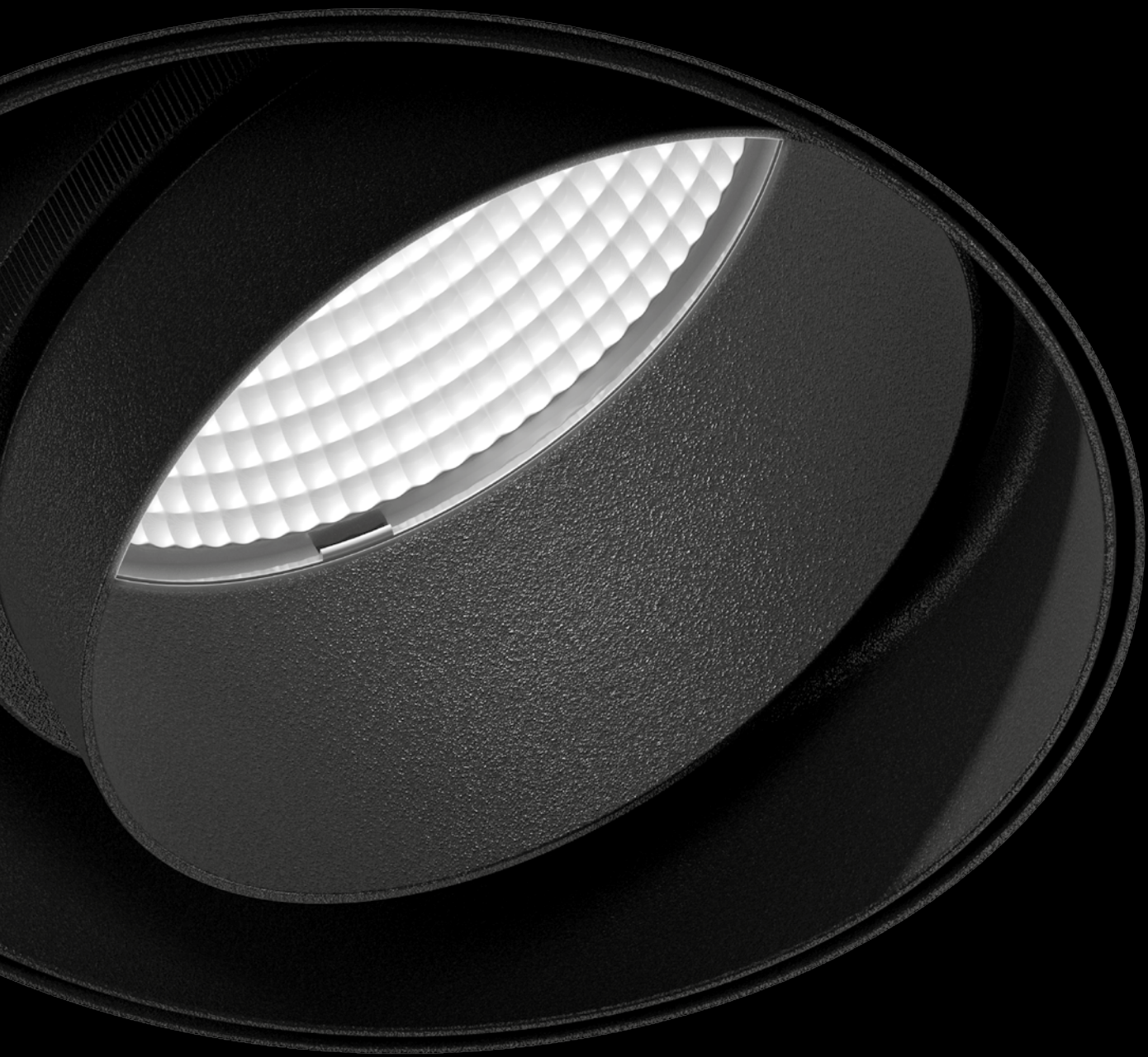
DE XAL Leuchten werden gefertigt, um höchste Ansprüche zu erfüllen. Modernste Produktions- und Testprozesse sowie nachhaltige Technologien garantieren eine lange Produktlebensdauer ohne Wartung. Heute, morgen und in fünf Jahren.

Wir laden Sie ein, unsere 5-Jahres-Garantie unter unseren Garantie-Konditionen in der jeweils gültigen Fassung, abrufbar unter www.xal.com/garantie, in Anspruch zu nehmen. Registrieren Sie sich auf unserer Website und genießen Sie die Sicherheit Ihrer langlebigen XAL-Lichtlösungen.

EN XAL luminaires are manufactured to meet the highest demands. State-of-the-art production and testing processes as well as sustainable technologies guarantee a long product life without maintenance. Today, tomorrow and five years from now.

We invite you to avail yourself of our 5-years guarantee, based on our guarantee conditions in the relevant version, which can be viewed at www.xal.com/guarantee. Register at our and enjoy the reliability of your long-lasting XAL lighting solutions.

01



EINBAUSTRAHLER / DOWNLIGHTS RECESSED SPOTLIGHTS / DOWNLIGHTS



**SASSO+
MINI FLUSH**
→ 24



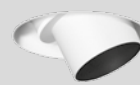
**SASSO+
MINI OFFSET**
→ 28



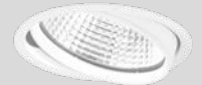
**SASSO+
MIDI FLUSH**
→ 30



**SASSO+
MIDI OFFSET**
→ 32



**SASSO+ MIDI
WLS OFFSET**
→ 36



**SASSO+
MAXI FLUSH**
→ 38



**SASSO+
MAXI OFFSET**
→ 40



**SASSO+
ASYMMETRIC**
→ 44



**KARO MINI /
KARO FRAME
MINI**
→ 46



**KARO MIDI /
KARO FRAME
MIDI**
→ 48



**KARO MAXI /
KARO FRAME
MAXI**
→ 50



**INVISIBLE
ASYMMETRIC**
→ 54



**INVISIBLE
SQUARE**
→ 60



**INVISIBLE
ROUND**
→ 70



**INVISIBLE
RETRO**
→ 76



BUBBLE
→ 82



ARGO
→ 88



AURO FOCUS
→ 92



**AURO ROUND /
SQUARE**
→ 94



ASMO
→ 96



**MOVE IT 45
ROUND**
→ 98



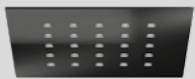
**MOVE IT 85
ROUND**
→ 100



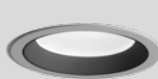
**MOVE IT 45
SQUARE**
→ 102



**MOVE IT 85
SQUARE**
→ 104



GRID-IN
→ 108



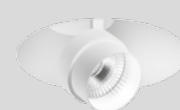
MIRA ROUND
→ 110



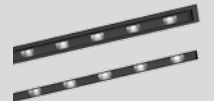
MIRA SQUARE
→ 112



WALL MINI
→ 116



KIS
→ 118



BOOST
→ 120

SASSO+ INSET OVERVIEW

SASSO+ MINI FLUSH page 24

SASSO+ MINI OFFSET page 28

SASSO+ MIDI FLUSH page 30

Mounting Housing

SASSO+ TRIMLESS

ceiling thickness 12/15/25mm



SASSO+ WITH TRIM ROUND

ceiling thickness 2-25mm



SASSO+ WITH TRIM SQUARE

ceiling thickness 2-25mm



INVISIBLE ASYMETRIC

page 54



INVISIBLE SQUARE 1 lamp

page 60



INVISIBLE SQUARE 2 lamps

page 60



INVISIBLE ROUND 1 lamp

page 70



INVISIBLE ROUND 2 lamps

page 70



INVISIBLE RETRO 1 lamp

page 76



INVISIBLE RETRO 2 lamps

page 76



BUBBLE

page 82



Quickinfo

SYSTEM POWER
LUMINOUS EFFICACY
COLOUR TEMPERATURE
COLOUR RENDERING INDEX

8 W, 16 W
up to 69 lm/W
2700 K, 3000 K, CWD
CRI > 90

8 W, 16 W
up to 69 lm/W
2700 K, 3000 K, CWD
CRI > 90

13 W, 18 W CWD, 27 W
up to 77 lm/W
2700 K, 3000 K, 4000 K, CWD
CRI > 90

BEAM ANGLE

8°, 26°, 37°

6°, 26°, 37°

17°, 24°, 36°

DIMENSIONS

ø80 mm / H 83 mm

ø80 mm / H 97 mm

ø98 mm / H 106 mm

ESTIMATED LED LIFETIME

L80 / 50.000 h

L80 / 50.000 h

L80 / 50.000 h

SASSO+ MIDI OFFSET
page 32

SASSO MIDI WLS OFFSET
page 36

SASSO+ MAXI FLUSH
page 38

SASSO+ MAXI OFFSET
page 40



13W, 18W CWD, 27W
up to 77lm/W
2700K, 3000K, 4000K, CWD
CRI > 90

15W, 30W
up to 44lm/W
2700K, 3000K, 4000K
CRI > 90

28W, 42W, 44W
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90

28W, 42W, 44W
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90

17°, 24°, 36°

17°, 24°, 30°

14°, 25°, 41°

14°, 25°, 41°

ø98mm / H 120mm

ø98mm / H 120mm

ø144mm / H 144mm

ø144mm / H 170mm

L80 / 50.000h

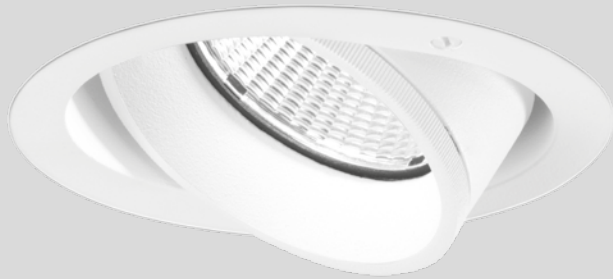
L80 / 50.000h

L80 / 50.000h

L80 / 50.000h

SASSO+ MINI FLUSH

xal.com/sasso-mini-flush



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44
optional concrete install. housing

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 6°, 26°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3-Step MacAdam; available in the light colours 2700K and 3000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

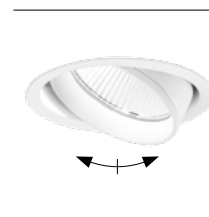
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Order options

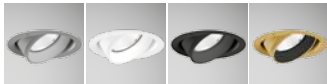
IP RATING	
IP 20	0
IP 44	8

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM / phase-cut*	1
DIM DALI	3

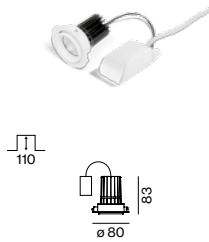
* phase-cut DIM only for 16 W

MATERIAL COLOUR	
silver-grey	6
white	7
black	8
gold	9



REFLECTOR	
medium 26°	M
flood 37°	F

LED LENS	
super spot 6° (only 8 W non DIM)	V



SASSO+ MINI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700K	510lm	0 4 8 - 2 3 1 0 :: 1
8 W CWD	3000K	550lm	0 4 8 - 2 3 1 0 0 3
16 W	1800-3000K	880lm	0 4 8 - 2 3 1 2 ::
	3000K	940lm	

Light distribution for 16 W, 3000 K

super spot 6°			LOR 86%			medium 27°			LOR 81%			flood 37°			LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68	1	1744	ø 0,68	1	1744	ø 0,68	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35	2	436	ø 1,35	2	436	ø 1,35	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03	3	194	ø 2,03	3	194	ø 2,03	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71	4	109	ø 2,71	4	109	ø 2,71	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38	5	70	ø 3,38	5	70	ø 3,38	5	70	ø 3,38

Mounting accessories

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 2 1 3 2 7

MOUNTING RING WITH TRIM ROUND

for intermediate ceilings 2-25 mm

COLOUR		ORDER CODE
silver-grey		0 5 2 - 1 9 2 2 3 2 6
white		0 5 2 - 1 9 2 2 3 2 7
black		0 5 2 - 1 9 2 2 3 2 8
gold		0 5 2 - 1 9 2 2 3 2 9

MOUNTING RING WITH TRIM SQUARE

for intermediate ceilings 2-25 mm

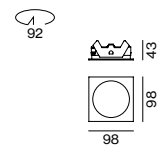
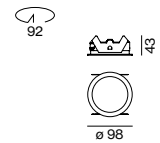
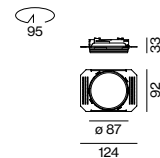
COLOUR		ORDER CODE
white		0 5 2 - 1 9 4 2 3 1 7
black		0 5 2 - 1 9 4 2 3 1 8

CONCRETE MOUNTING HOUSING

for 8 W

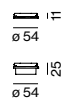
TYPE	L-W-H (mm)	ORDER CODE
exposed concrete ceilings	229-227-160	0 6 0 - 0 0 0 8 0
primed concrete ceilings*	ø240-400-130	0 5 2 - 1 9 1 4 3 2 0

*order mounting set/ring separately



Order options

MATERIAL COLOUR	
silver-grey	6
white	7
black	8
gold	9



Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1
linear prismatic lens	0 4 8 - 2 0 9 2 3 1
snoot	0 4 8 - 2 0 9 1 1 1
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1

use only 1 optical accessory

Inspiration

Private Residence
Zurich, Switzerland

SOLUTION
SASSO+ MINI FLUSH

ARCHITECT
Think Architecture AG
Zurich, Switzerland





SASSO+ MINI OFFSET

xal.com/sasso-mini-offset



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 6°, 26°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; zurückversetzte Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasenan- bzw. abschnitt oder DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; offset lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3-Step MacAdam; available in the light colours 2700 K and 3000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Order options

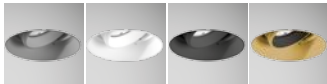
IP RATING	
IP 20	0
IP 44	8

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM / phase-cut*	1
DIM DALI	3

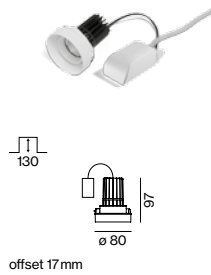
* phase-cut DIM only for 16 W

MATERIAL COLOUR	
silver-grey	6
white	7
black	8
gold	9



REFLECTOR	
medium 26°	M
flood 37°	F

LED LENS	
super spot 6° (only 8 W non DIM)	V



SASSO+ MINI OFFSET



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	510 lm	0 4 8 - 2 3 2 0 :: 1
8 W CWD	3000 K	550 lm	0 4 8 - 2 3 2 0 0 3
16 W	1800-3000 K	880 lm	0 4 8 - 2 3 2 2 ::
	2700 K	940 lm	
	3000 K	940 lm	

Light distribution for 16 W, 3000 K

super spot 6°			LOR 86%			medium 26°			LOR 81%			flood 37°			LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2530	ø 0,48	1	1776	ø 0,68	1	1776	ø 0,68	1	1776	ø 0,68	1	1776	ø 0,68
2	5801	ø 0,21	2	632	ø 0,95	2	444	ø 1,35	2	444	ø 1,35	2	444	ø 1,35	2	444	ø 1,35
3	2578	ø 0,31	3	281	ø 1,43	3	197	ø 2,03	3	197	ø 2,03	3	197	ø 2,03	3	197	ø 2,03
4	1450	ø 0,42	4	158	ø 1,91	4	111	ø 2,71	4	111	ø 2,71	4	111	ø 2,71	4	111	ø 2,71
5	928	ø 0,52	5	101	ø 2,38	5	71	ø 3,38	5	71	ø 3,38	5	71	ø 3,38	5	71	ø 3,38

Mounting accessories

MOUNTING SET OFFSET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 3 1 3 2 7

MOUNTING RING OFFSET WITH TRIM ROUND

for intermediate ceilings 2-25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 3 2 3 2 7
black		0 5 2 - 1 9 3 2 3 2 8
gold		0 5 2 - 1 9 3 2 3 2 9

MOUNTING RING OFFSET WITH TRIM SQUARE

for intermediate ceilings 2-25 mm

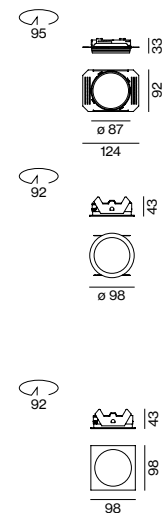
COLOUR		ORDER CODE
white		0 5 2 - 1 9 5 2 3 1 7

CONCRETE MOUNTING HOUSING

for 8 W

TYPE	Ø-W-H (mm)	ORDER CODE
primed concrete ceilings*	240-400-130	0 5 2 - 1 9 1 4 3 2 0

*order mounting set/ring separately



Order options

MATERIAL COLOUR	
silver-grey	6
white	7
black	8
gold	9



Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1
linear prismatic lens	0 4 8 - 2 0 9 2 3 1
snoot	0 4 8 - 2 0 9 1 1 1
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1

use only 1 optical accessory

SASSO+ MIDI FLUSH

xal.com/sasso-midi-flush



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44
optional concrete install. housing

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

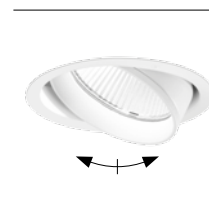
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Order options

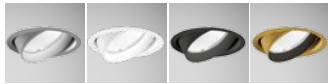
IP RATING	◇
IP 20	0
IP 44	8

COLOUR TEMPERATURE	●●
2700 K	4
3000 K	5
4000 K (only 21 W / 27 W)	6

CONTROL	◇
non DIM / phase-cut*	1
DIM DALI	3

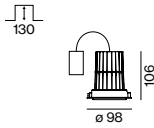
*phase-cut DIM only for 13 W / 27 W

MATERIAL COLOUR	☑
silver-grey	6
white	7
black	8
gold	9



REFLECTOR	▲
spot 17°	S
medium 24°	M
flood 36°	F

LED LENS	▲
spot 12°	S
medium 24°	M



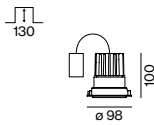
SASSO+ MIDI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990 lm	0 4 8 - 2 4 1 0
	3000 K	1000 lm	
18 W CWD	2000-3000 K		0 4 8 - 2 4 1 1 0 3
27 W	2700 K	1690 lm	◇ 4 8 - 2 4 1 2
	3000 K	1700 lm	
	4000 K	2000 lm	

Light distribution for 27 W, 4000 K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø 0,31	1	9480	ø 0,42	1	5557	ø 0,65
2	3660	ø 0,61	2	2370	ø 0,84	2	1389	ø 1,30
3	1627	ø 0,92	3	1053	ø 1,26	3	617	ø 1,95
4	915	ø 1,22	4	593	ø 1,69	4	347	ø 2,60
5	586	ø 1,53	5	379	ø 2,11	5	222	ø 3,25



SASSO+ MIDI LENS FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	1200 lm	0 4 8 - 7 4 1 0
	3000 K	1300 lm	
21 W	2700 K	1500 lm	0 4 8 - 7 4 1 1
	3000 K	1600 lm	
	4000 K	1700 lm	

Mounting accessories

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

COLOUR	ORDER CODE
white	0 5 2 - 1 9 2 1 4 4 7

MOUNTING RING WITH TRIM ROUND

for intermediate ceilings 2-25 mm

COLOUR	ORDER CODE
silver-grey	0 5 2 - 1 9 2 2 4 4 6
white	0 5 2 - 1 9 2 2 4 4 7
black	0 5 2 - 1 9 2 2 4 4 8
gold	0 5 2 - 1 9 2 2 4 4 9

MOUNTING RING WITH TRIM SQUARE

for intermediate ceilings 2-25 mm

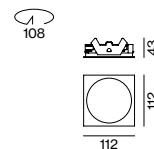
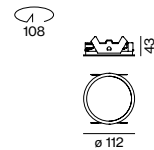
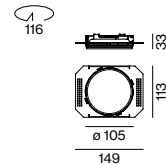
COLOUR	ORDER CODE
white	0 5 2 - 1 9 4 2 4 1 7
black	0 5 2 - 1 9 4 2 4 1 8

CONCRETE MOUNTING HOUSING

for 13 W and 18 W

TYPE	L-W-H (mm)	ORDER CODE
exposed concrete ceilings	229-227-160	0 5 2 - 1 9 1 3 4 1 0
primed concrete ceilings*	ø 240-400-130	0 5 2 - 1 9 1 4 4 2 0

*order mounting set/ring separately



Optical accessories

See page 124 for optical accessories

SASSO+ MIDI OFFSET

xal.com/sasso-midi-offset



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44

LED

COB LED module
up to 77lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; zurückversetzte Leuchtenebene; werkzeuglose Montageset im Gehäuse durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; offset lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Order options

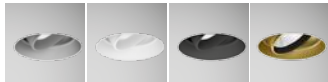
IP RATING	
IP 20	0
IP 44	8

COLOUR TEMPERATURE	
2700 K	4
3000 K	5
4000 K (only 21 W / 27 W)	6

CONTROL	
non DIM / phase-cut*	1
DIM DALI	3

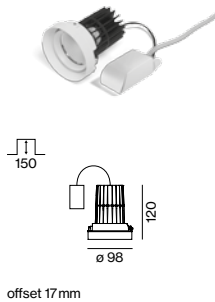
*phase-cut DIM only for 13 W / 27 W

MATERIAL COLOUR	
silver-grey	6
white	7
black	8
gold	9



REFLECTOR	
spot 17°	S
medium 24°	M
flood 36°	F

LED LENS	
spot 12°	S
medium 24°	M



offset 17 mm

SASSO+ MIDI OFFSET



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990 lm	0 4 8 - 2 4 2 0
18 W CWD	3000 K	1000 lm	0 4 8 - 2 4 2 1 0 3
27 W	2700 K	1690 lm	4 8 - 2 4 2 2
	3000 K	1700 lm	
	4000 K	2000 lm	

Light distribution for 27 W, 4000 K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø 0,31	1	9480	ø 0,42	1	5557	ø 0,65
2	3660	ø 0,61	2	2370	ø 0,84	2	1389	ø 1,30
3	1627	ø 0,92	3	1053	ø 1,26	3	617	ø 1,95
4	915	ø 1,22	4	593	ø 1,69	4	347	ø 2,60
5	586	ø 1,53	5	379	ø 2,11	5	222	ø 3,25



offset 17 mm

SASSO+ MIDI LENS OFFSET



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	1200 lm	0 4 8 - 7 4 2 0
21 W	3000 K	1300 lm	0 4 8 - 7 4 2 1
	2700 K	1500 lm	
	3000 K	1600 lm	
	4000 K	1700 lm	

Mounting accessories

MOUNTING SET OFFSET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

COLOUR	ORDER CODE
white	0 5 2 - 1 9 3 1 4 4 7

MOUNTING RING OFFSET WITH TRIM ROUND

for intermediate ceilings 2-25 mm

COLOUR	ORDER CODE
white	0 5 2 - 1 9 3 2 4 4 7
black	0 5 2 - 1 9 3 2 4 4 8
gold	0 5 2 - 1 9 3 2 4 4 9

MOUNTING RING OFFSET WITH TRIM SQUARE

for intermediate ceilings 2-25 mm

COLOUR	ORDER CODE
white	0 5 2 - 1 9 5 2 4 1 7

CONCRETE MOUNTING HOUSING

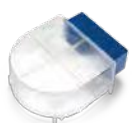
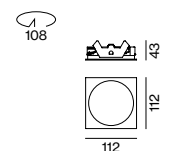
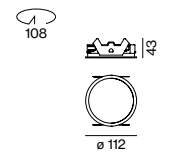
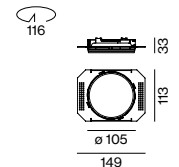
for 13 W and 18 W

TYPE	L-W-H (mm)	ORDER CODE
primed concrete ceilings*	ø 240-400-130	0 5 2 - 1 9 1 4 4 2 0

*order mounting set/ring separately

Optical accessories

See page 124 for optical accessories



Inspiration

Health Resort
Germany

SOLUTION
SASSO+ MIDI OFFSET

ARCHITECT
ingenhoven architects gmbh
Düsseldorf, Germany

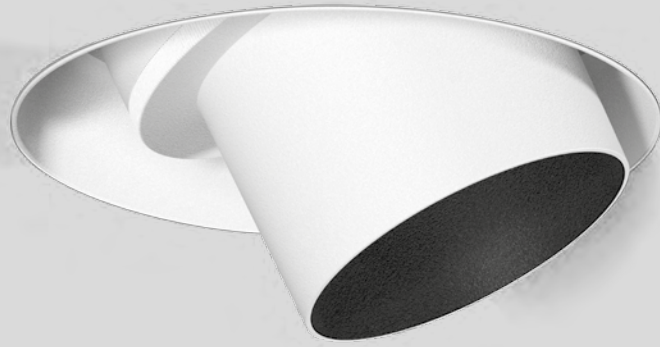
LIGHTING DESIGN
Tropp Lighting Design
Weilheim, Germany





SASSO+ MIDI WLS OFFSET

xal.com/sasso-midi-offset



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 44 lm/W
2700K, 3000K, 4000K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 17°, 24°, 30°

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminium-druckguss; zurückversetzte Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; offset lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; installation possible in different housings; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

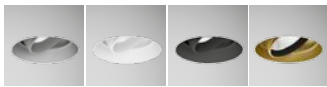
Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5
4000 K (only 30 W)	6

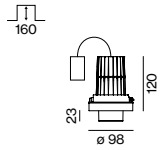
CONTROL	
non DIM / phase-cut*	1
DIM DALI	3

* phase-cut DIM only for 15 W

MATERIAL COLOUR	
silver-grey	6
white	7
black	8
gold	9



REFLECTOR	
spot 17°	S
medium 24°	M
flood 30°	F



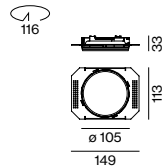
SASSO+ MIDI WLS OFFSET



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15 W	2700 K	620 lm	0 4 8 - 2 4 3 0
	3000 K	660 lm	
30 W	2700 K	990 lm	0 4 8 - 2 4 3 2
	3000 K	1100 lm	
	4000 K	1300 lm	

Light distribution for 30 W, 4000 K

spot 17°			medium 24°			flood 30°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	8267	ø 0,31	1	5127	ø 0,42	1	2632	ø 0,54
2	2067	ø 0,61	2	1282	ø 0,84	2	658	ø 1,08
3	919	ø 0,92	3	570	ø 1,26	3	292	ø 1,62
4	517	ø 1,22	4	320	ø 1,69	4	165	ø 2,16
5	331	ø 1,53	5	205	ø 2,11	5	105	ø 2,70

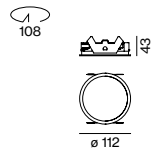


Mounting accessories

MOUNTING SET OFFSET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

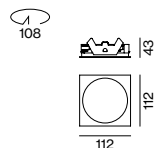
COLOUR	ORDER CODE
white	0 5 2 - 1 9 3 1 4 4 7



MOUNTING RING OFFSET WITH TRIM ROUND

for intermediate ceilings 2-25 mm

COLOUR	ORDER CODE
white	0 5 2 - 1 9 3 2 4 4 7
black	0 5 2 - 1 9 3 2 4 4 8
gold	0 5 2 - 1 9 3 2 4 4 9



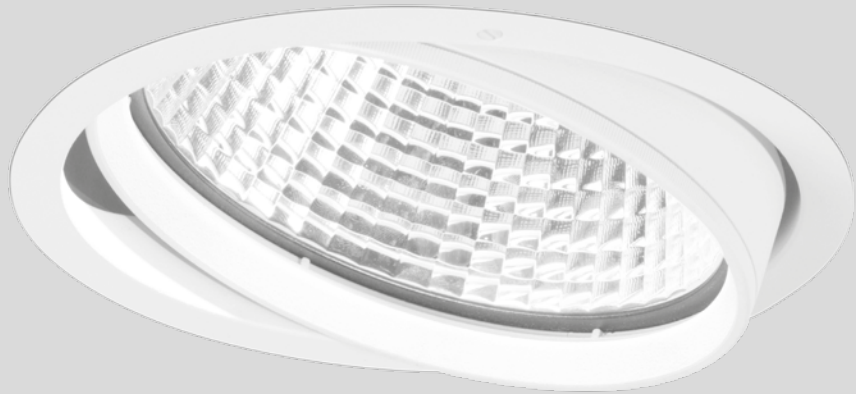
MOUNTING RING OFFSET WITH TRIM SQUARE

for intermediate ceilings 2-25 mm

COLOUR	ORDER CODE
white	0 5 2 - 1 9 5 2 4 1 7

SASSO+ MAXI FLUSH

xal.com/sasso-maxi-flush



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20
optional concrete install. housing

LED

COB LED module
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface silver-grey, white or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

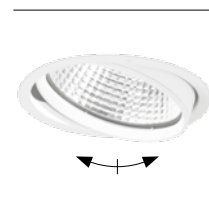
Features



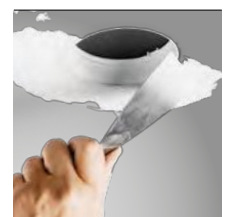
exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Order options

COLOUR RENDERING INDEX +	
CRI > 80	2
CRI > 90	5

COLOUR TEMPERATURE ::	
3000K	5
4000K	6

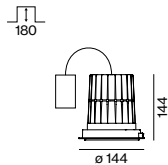
SPECIAL COLOUR ::	
vogue CRI > 90	S
gallery CRI 98	K
gourmet	M
fresh meat & fish	F
pastry	C
brilliant white CRI > 90	W

CONTROL ◆	
non DIM	1
DIM DALI	3

MATERIAL COLOUR ■	
silver-grey	6
white	7
black	8



REFLECTOR ▲	
spot 14°	S
medium 25°	M
flood 41°	F



SASSO+ MAXI FLUSH



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	3000 lm	0 4 8 - 2 + 1 0 ◆◆◆▲
	4000 K	3100 lm	
28 W	special colour		0 4 8 - 2 2 1 0 ◆◆◆▲
45 W	3000 K	3900 lm	0 4 8 - 2 + 1 1 ◆◆◆▲
	4000 K	4100 lm	
44 W	special colour		0 4 8 - 2 2 1 1 ◆◆◆▲

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42 W	3000 K	4200 lm	0 4 8 - 3 + 1 1 ◆◆◆▲
	4000 K	4300 lm	
42 W	vogue	2700 lm	0 4 8 - 3 2 1 1 S ◆◆◆▲

luminous flux at CRI 80

Light distribution for 45 W, CRI > 80, 4000 K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø 0,24	1	16558	ø 0,44	1	7307	ø 0,74	1	1827	ø 1,48	1	457	ø 2,96	1	292	ø 3,70
2	9108	ø 0,48	2	4139	ø 0,87	2	812	ø 2,22	2	457	ø 2,96	2	292	ø 3,70	2	1827	ø 1,48
3	4048	ø 0,73	3	1840	ø 1,31	3	812	ø 2,22	3	457	ø 2,96	3	292	ø 3,70	3	1827	ø 1,48
4	2277	ø 0,97	4	1035	ø 1,74	4	457	ø 2,96	4	292	ø 3,70	4	1827	ø 1,48	4	9108	ø 0,48
5	1457	ø 1,21	5	662	ø 2,18	5	457	ø 2,96	5	292	ø 3,70	5	1827	ø 1,48	5	4048	ø 0,73

Mounting accessories

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 2 1 6 2 7

MOUNTING RING WITH TRIM ROUND

for intermediate ceilings 2-25 mm

COLOUR		ORDER CODE
silver-grey		0 5 2 - 1 9 2 2 6 2 6
white		0 5 2 - 1 9 2 2 6 2 7
black		0 5 2 - 1 9 2 2 6 2 8

MOUNTING RING WITH TRIM SQUARE

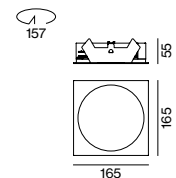
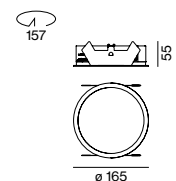
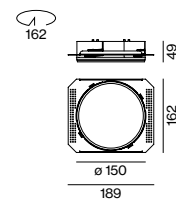
for intermediate ceilings 2-25 mm

COLOUR		ORDER CODE
silver-grey		0 5 2 - 1 9 4 2 6 1 6
white		0 5 2 - 1 9 4 2 6 1 7
black		0 5 2 - 1 9 4 2 6 1 8

CONCRETE MOUNTING HOUSING

for 28 W

TYPE	L-W-H (mm)	ORDER CODE
exposed concrete ceilings	295-295-210	0 6 0 - 0 0 1 5 0
primed concrete ceilings	ø 310-210	0 5 2 - 1 9 1 6 6 1 0



Order options

MATERIAL COLOUR ■	
white	7
black	8



Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 2 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 2 9 2 3 1 ■
snoot	0 4 8 - 2 2 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 2 9 1 2 1 ■

use only 1 optical accessory

SASSO+ MAXI OFFSET

xal.com/sasso-maxi-offset



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20
optional concrete install. housing

LED

COB LED module
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; zurückversetzte Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; Optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; farbneutrale Reflexion durch absolute Interferenzfarbfreiheit; für brillante Objektinszenierung; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; offset lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Order options

COLOUR RENDERING INDEX +	
CRI > 80	2
CRI > 90	5

COLOUR TEMPERATURE ::	
3000K	5
4000K	6

SPECIAL COLOUR ::	
vogue CRI > 90	S
gallery CRI 98	K
gourmet	M
fresh meat & fish	F
pastry	C
brilliant white CRI > 90	W

CONTROL ◆	
non DIM	1
DIM DALI	3

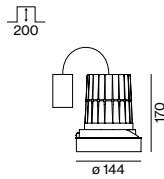
MATERIAL COLOUR ■	
white	7
black	8



REFLECTOR ▲	
spot 14°	S
medium 25°	M
flood 41°	F

Order options

MATERIAL COLOUR ■	
white	7
black	8



offset 29 mm

SASSO+ MAXI OFFSET



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	3000 lm	0 4 8 - 2 + 2 0 ◆◆◆▲
	4000 K	3100 lm	
28 W	special colour		0 4 8 - 2 2 2 0 ◆◆◆▲
45 W	3000 K	3800 lm	0 4 8 - 2 + 2 1 ◆◆◆▲
	4000 K	4000 lm	
44 W	special colour		0 4 8 - 2 2 2 1 ◆◆◆▲

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42 W	3000 K	4200 lm	0 4 8 - 3 + 2 1 ◆◆◆▲
	4000 K	4300 lm	
42 W	vogue	2700 lm	0 4 8 - 3 2 2 1 S ◆◆◆▲

luminous flux at CRI 80

Light distribution for 45 W, CRI > 80, 4000 K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	35953	ø 0,24	1	16344	ø 0,44	1	7210	ø 0,74	1	1803	ø 1,48	1	801	ø 2,22	1	451	ø 2,96
2	8988	ø 0,48	2	4086	ø 0,87	2	1816	ø 1,31	2	451	ø 2,96	2	288	ø 3,70	2	1803	ø 1,48
3	3995	ø 0,73	3	1816	ø 1,31	3	801	ø 2,22	3	288	ø 3,70	3	1803	ø 1,48	3	801	ø 2,22
4	2247	ø 0,97	4	1022	ø 1,74	4	451	ø 2,96	4	1803	ø 1,48	4	801	ø 2,22	4	288	ø 3,70
5	1438	ø 1,21	5	654	ø 2,18	5	288	ø 3,70	5	1803	ø 1,48	5	801	ø 2,22	5	288	ø 3,70

Mounting accessories

MOUNTING SET OFFSET TRIMLESS

for installation in plasterboard ceilings 12/15/25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 3 1 6 2 7

MOUNTING RING OFFSET WITH TRIM ROUND

for intermediate ceilings 2–25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 3 2 6 2 7
black		0 5 2 - 1 9 3 2 6 2 8

MOUNTING RING OFFSET WITH TRIM SQUARE

for intermediate ceilings 2–25 mm

COLOUR		ORDER CODE
white		0 5 2 - 1 9 5 2 6 1 7

CONCRETE MOUNTING HOUSING

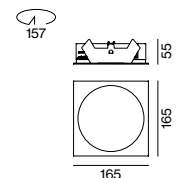
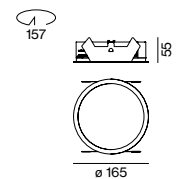
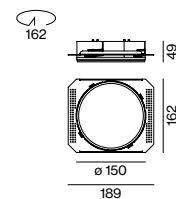
for 28 W

TYPE	Ø-H (mm)	ORDER CODE
primed concrete ceilings	310·210	0 5 2 - 1 9 1 6 6 1 0

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 2 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 2 9 2 3 1 ■
snoot	0 4 8 - 2 2 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 2 9 1 2 1 ■

use only 1 optical accessory



Inspiration

Fashion Store Leffers
Oldenburg, Germany

SOLUTION
SASSO+ MIDI OFFSET

ARCHITECT
Blocher Blocher Partners
Stuttgart, Germany

LIGHTING DESIGN
VEDDER.LICHTMANAGEMENT
Munich, Germany





SASSO+ ASYMMETRIC

xal.com/sasso-asymmetric



Quickinfo

GENERAL

recessed
IP20

LED

COB LED module
up to 76 lm/W
2700K, 3000K, 4000K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

asymmetric illumination

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss mit asymmetrischer Abstrahlcharakteristik; mittels Montagefeder werkzeuglos montierbar; Oberfläche weiß, schwarz oder gold pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; Schutzart IP20; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium with asymmetric radiation characteristic; spring mounting without tools; surface white, black or gold powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; protection class IP20; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Order options

COLOUR TEMPERATURE ◆◆

2700 K	4
3000 K	5
4000 K (only 27 W)	6

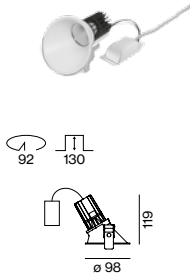
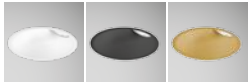
CONTROL ◆

non DIM / phase-cut*	1
DIM DALI	3

*phase-cut DIM only for 16 W / 27 W

MATERIAL COLOUR ■

white	7
black	8
gold	9

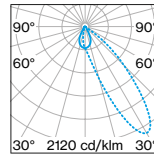


SASSO+ MIDI ASYMMETRIC

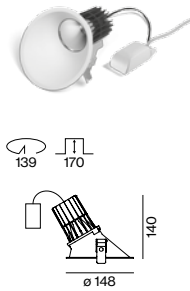


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	500 lm	0 4 8 - 2 4 0 0 ◆◆ 1 ■ M
	3000 K	530 lm	
16 W	2700 K	850 lm	0 4 8 - 2 4 0 2 ◆◆ ■ M
	3000 K	910 lm	

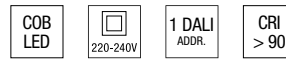
Light distribution



Asymmetric
direct
LOR 79 %

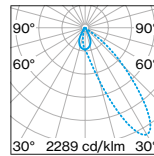


SASSO+ MAXI ASYMMETRIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	980 lm	0 4 8 - 2 5 0 0 ◆◆ ■ M
	3000 K	990 lm	
27 W	2700 K	1600 lm	0 4 8 - 2 5 0 2 ◆◆ ■ M
	3000 K	1700 lm	
	4000 K	1900 lm	

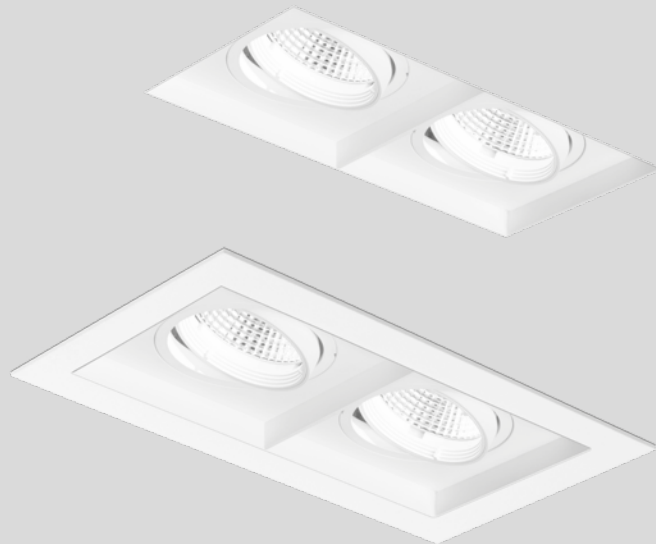
Light distribution



Asymmetric
direct
LOR 85 %

KARO MINI

xal.com/karo-mini



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20
optional concrete install. housing

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Ein- bzw. zweiflammiges Einbaugehäuse, optional mit umlaufendem Rand; Einsatz: rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Single or double lamp recessed housing, optionally with trim; insert: round spotlight element in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white, black or gold powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K and 3000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

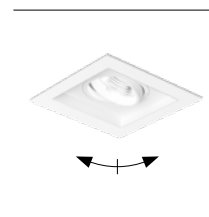
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Order options

COLOUR TEMPERATURE	☐☐
2700K	4
3000K	5

CONTROL	▾▾
non DIM / phase-cut*	1
DIM DALI	3

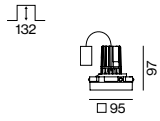
*phase-cut DIM only for 16W

MATERIAL COLOUR	☑
white	7
black	8
gold	9



REFLECTOR	▲
medium 27°	M
flood 37°	F

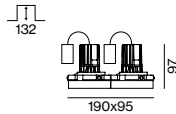
LED LENS	▲
super spot 6° (only 8W non DIM)	V



KARO MINI 1 LAMP



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700K	510lm	0 4 8 - 4 3 1 0 ☐☐ 1 ▲▲
8 W CWD	3000K	550lm	0 4 8 - 4 3 1 0 0 3 ▲▲
16 W	2700K	880lm	0 4 8 - 4 3 1 2 ☐☐ ▽ ▽ ▲▲
	3000K	940lm	



KARO MINI 2 LAMPS



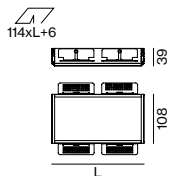
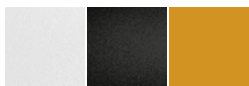
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2x8 W	2700K	1020lm	0 4 8 - 4 3 2 0 ☐☐ 1 ▲▲
2x8 W CWD	3000K	1100lm	0 4 8 - 4 3 2 0 0 3 ▲▲
2x16 W	2700K	1760lm	0 4 8 - 4 3 2 2 ☐☐ ▽ ▽ ▲▲
	3000K	1880lm	

Light distribution for 16W, 3000K

super spot 6°			LOR 86%			medium 27°			LOR 81%			flood 37°			LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68	1	1744	ø 0,68	1	1744	ø 0,68	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35	2	436	ø 1,35	2	436	ø 1,35	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03	3	194	ø 2,03	3	194	ø 2,03	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71	4	109	ø 2,71	4	109	ø 2,71	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38	5	70	ø 3,38	5	70	ø 3,38	5	70	ø 3,38

Order options

MATERIAL COLOUR	☑
white	7
black	8
gold	9

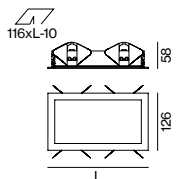


Mounting accessories

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	108-108-39	0 4 8 - 4 0 9 1 1 1 6
2 lamps	203-108-39	0 4 8 - 4 0 9 2 1 1 6



MOUNTING SET WITH TRIM

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	126-126-58	0 4 8 - 4 0 9 1 2 1 6
2 lamps	221-126-58	0 4 8 - 4 0 9 2 2 1 6

Order options

TYPE	▮
exposed concrete trimless	1
exposed concrete with trim	2
primed concrete trimless	3
primed concrete with trim	4



CONCRETE MOUNTING HOUSING

for 11W

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	400-240-160	0 4 8 - 4 0 9 6 ▮ 2 0
2 lamps	395-335-190	0 4 8 - 4 0 9 7 ▮ 2 0

*order mounting set with trim separately

Order options

MATERIAL COLOUR	☑
silver-grey	6
white	7
black	8
gold	9



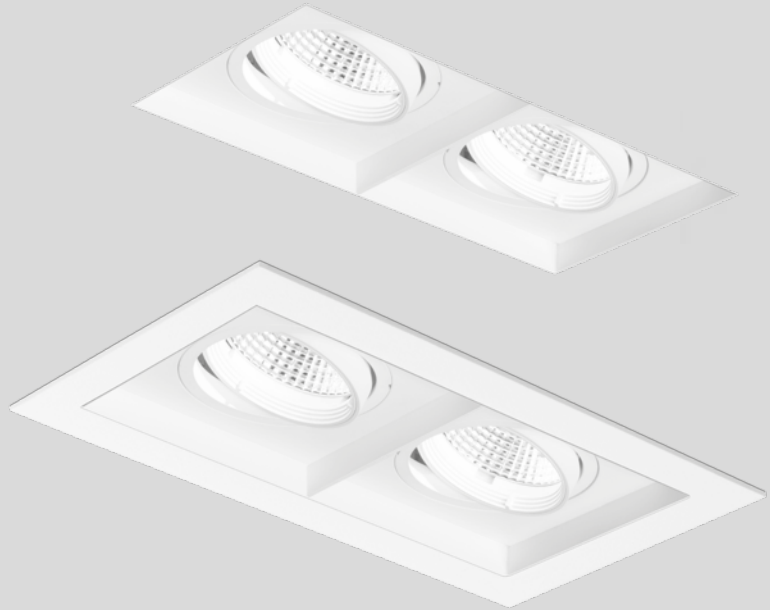
Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1 6
linear prismatic lens	0 4 8 - 2 0 9 2 3 1 6
snoot	0 4 8 - 2 0 9 1 1 1 6
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1 6

use only 1 optical accessory

KARO MIDI

xal.com/karo-midi



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20
optional concrete install. housing

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Ein- bzw. zweiflammiges Einbaugehäuse, optional mit umlaufendem Rand; Einsatz: rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, schwarz oder gold pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Single or double lamp recessed housing, optionally with trim; insert: round spotlight element in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white, black or gold powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

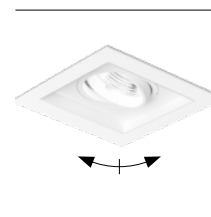
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

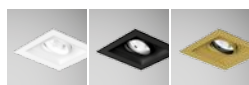
Order options

COLOUR TEMPERATURE	☐☐
2700 K	4
3000 K	5
4000 K (only 27 W)	6

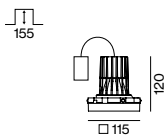
CONTROL	◆
non DIM / phase-cut*	1
DIM DALI	3

*phase-cut DIM only for 13 W / 27 W

MATERIAL COLOUR	☑
white	7
black	8
gold	9



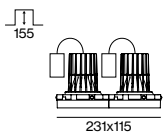
REFLECTOR	▲
spot 17°	S
medium 24°	M
flood 36°	F



KARO MIDI 1 LAMP



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990lm	0 4 8 - 4 4 1 0 ☐☐▲
18 W CWD	3000 K	1000lm	0 4 8 - 4 4 1 1 0 3 ▲
27 W	2700 K	1700lm	0 4 8 - 4 4 1 2 ☐☐▲
	3000 K	1700lm	
	4000 K	2000lm	



KARO MIDI 2 LAMPS



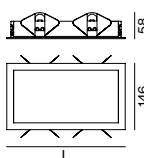
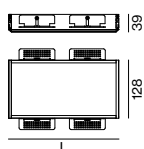
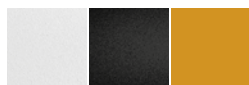
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2x13 W	2700 K	1980lm	0 4 8 - 4 4 2 0 ☐☐▲
2x18 W CWD	3000 K	2000lm	0 4 8 - 4 4 2 1 0 3 ▲
2x27 W	2700 K	3400lm	0 4 8 - 4 4 2 2 ☐☐▲
	3000 K	3400lm	
	4000 K	4000lm	

Light distribution for 27W, 4000K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø 0,31	1	9480	ø 0,42	1	5557	ø 0,65
2	3660	ø 0,61	2	2370	ø 0,84	2	1389	ø 1,30
3	1627	ø 0,92	3	1053	ø 1,26	3	617	ø 1,95
4	915	ø 1,22	4	593	ø 1,69	4	347	ø 2,60
5	586	ø 1,53	5	379	ø 2,11	5	222	ø 3,25

Order options

MATERIAL COLOUR	☑
white	7
black	8
gold	9



Mounting accessories

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	128-128-39	0 4 8 - 4 1 9 1 1 1 6
2 lamps	243-128-39	0 4 8 - 4 1 9 2 1 1 6

MOUNTING SET WITH TRIM

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	146-146-58	0 4 8 - 4 1 9 1 2 1 1
2 lamps	261-146-58	0 4 8 - 4 1 9 2 2 1 1

CONCRETE MOUNTING HOUSING

for 19 W

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	400-240-160	0 4 8 - 4 1 9 6 1 2 0
2 lamps	395-335-190	0 4 8 - 4 1 9 7 1 2 0

*order mounting set with trim separately

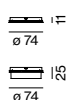
Order options

TYPE	∩
exposed concrete trimless	1
exposed concrete with trim	2
primed concrete trimless	3
primed concrete with trim	4



Order options

MATERIAL COLOUR	☑
silver-grey	6
white	7
black	8
gold	9



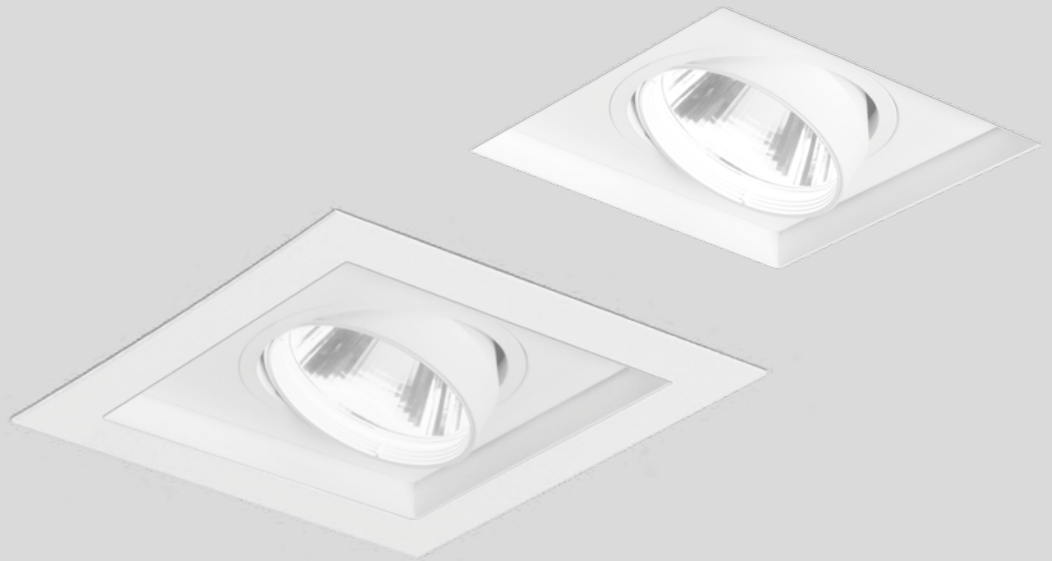
Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1 1
linear prismatic lens	0 4 8 - 2 1 9 2 3 1 1
snoot	0 4 8 - 2 1 9 1 1 1 1
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1 1

use only 1 optical accessory

KARO MAXI

xal.com/karo-maxi



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 111lm/W
3000 K, 4000 K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Ein- bzw. zweiflammiges Einbaugehäuse, optional mit umlaufendem Rand; Einsatz: rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Single or double lamp recessed housing, optionally with trim; insert: round spotlight element in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

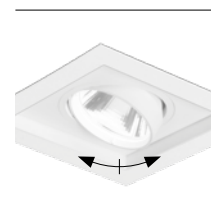
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Order options

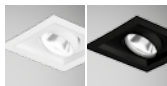
COLOUR RENDERING INDEX +	
CRI > 80	2
CRI > 90	5

COLOUR TEMPERATURE ::	
3000K	5
4000K	6

SPECIAL COLOUR ::	
vogue CRI > 90	S
gallery CRI 98	K
gourmet	M
fresh meat & fish	F
pastry	C
brilliant white CRI > 90	W

CONTROL ◆	
non DIM	1
DIM DALI	3

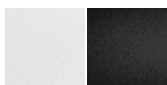
MATERIAL COLOUR ■	
white	7
black	8



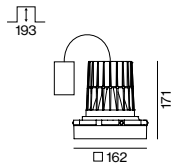
REFLECTOR ▲	
spot 14°	S
medium 25°	M
flood 41°	F

Order options

MATERIAL COLOUR ■	
white	7
black	8



KARO MAXI 1 LAMP



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	3000 lm	0 4 8 - 4 + 1 0 ◆◆■▲
	4000 K	3100 lm	
28 W	special colour		0 4 8 - 4 2 1 0 ◆◆■▲
45 W	3000 K	3900 lm	0 4 8 - 4 + 1 1 ◆◆■▲
	4000 K	4100 lm	
44 W	special colour		0 4 8 - 4 2 1 1 ◆◆■▲

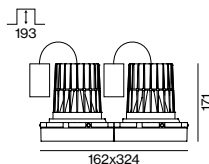
HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42 W	3000 K	4200 lm	0 4 8 - 5 + 1 1 ◆◆■▲
	4000 K	4300 lm	
42 W	vogue	2700 lm	0 4 8 - 5 2 1 1 S ◆◆■▲

luminous flux at CRI 80



KARO MAXI 2 LAMPS



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2x28 W	3000 K	6000 lm	0 4 8 - 4 + 2 0 ◆◆■▲
	4000 K	6300 lm	
2x28 W	special colour		0 4 8 - 4 2 2 0 ◆◆■▲
2x45 W	3000 K	7800 lm	0 4 8 - 4 + 2 1 ◆◆■▲
	4000 K	8200 lm	
2x44 W	special colour		0 4 8 - 4 2 2 1 ◆◆■▲

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2x42 W	3000 K	8400 lm	0 4 8 - 5 + 2 1 ◆◆■▲
	4000 K	8600 lm	
2x42 W	vogue	5400 lm	0 4 8 - 5 2 2 1 S ◆◆■▲

luminous flux at CRI 80

Light distribution for 45 W, CRI > 80, 4000 K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø 0,24	1	16558	ø 0,44	1	7307	ø 0,74	1	1827	ø 1,48	1	457	ø 2,96	1	292	ø 3,70
2	9108	ø 0,48	2	4139	ø 0,87	2	1827	ø 1,48	2	457	ø 2,96	2	116	ø 5,92	2	73	ø 7,40
3	4048	ø 0,73	3	1840	ø 1,31	3	812	ø 2,22	3	227	ø 4,44	3	45	ø 8,88	3	23	ø 11,10
4	2277	ø 0,97	4	1035	ø 1,74	4	457	ø 2,96	4	116	ø 5,92	4	29	ø 11,84	4	12	ø 14,80
5	1457	ø 1,21	5	662	ø 2,18	5	292	ø 3,70	5	116	ø 5,92	5	73	ø 11,84	5	23	ø 17,75

Mounting accessories

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	175-175-51	0 4 8 - 4 2 9 1 1 1 6
2 lamps	337-175-51	0 4 8 - 4 2 9 2 1 1 6

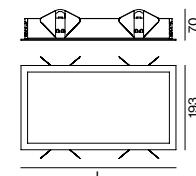
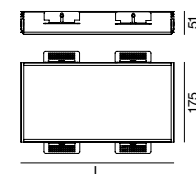
MOUNTING SET WITH TRIM

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	193-193-70	0 4 8 - 4 2 9 1 2 1 6
2 lamps	355-193-70	0 4 8 - 4 2 9 2 2 1 6

Optical accessories

See page 124 for optical accessories



Inspiration

Fashion Outlet
Oelde, Germany

SOLUTION
KARO MAXI
MINIMAL 100
TIMO 80 FREE

ARCHITECT
drewes+strenge architekten bda
Bielefeld, Germany

LIGHTING DESIGN
drewes+strenge architekten bda
Bielefeld, Germany





INVISIBLE ASYMMETRIC MINI

xal.com/invisible-asymmetric



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

asymmetric illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur mit asymmetrischer Abstrahlcharakteristik; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour with asymmetric radiation characteristic; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



exchangeable light engine



patented ball catch system

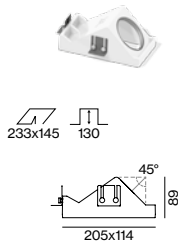


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE ASYMMETRIC MINI HOUSING

MOUNTING HOUSING MINI TRIMLESS

for installation in plasterboard ceilings 10-25 mm

TYPE

1 lamp

ORDER CODE

060 - 02407

Order options

IP RATING

IP20 0
IP44 8

COLOUR TEMPERATURE

2700K 4
3000K 5

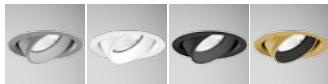
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

*phase-cut DIM only for 16W

MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9



REFLECTOR

medium 27° M
flood 37° F

LED LENS

super spot 6° (only 8W non DIM) V



INSET SASSO+ MINI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W	2700K	510lm	048 - 2310 1 1 1 1
	3000K	550lm	
8W CWD	1800-3000K		048 - 231003 1 1 1 1
16W	2700K	880lm	048 - 2312 1 1 1 1
	3000K	940lm	

Light distribution for 16W, 3000K

super spot 6° LOR 86%			medium 27° LOR 81%			flood 37° LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

ORDER CODE

048 - 209131 1 1
048 - 209231 1 1
048 - 209111 1 1
048 - 209121 1 1

use only 1 optical accessory



INVISIBLE ASYMMETRIC MIDI

xal.com/invisible-asymmetric



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

asymmetric illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur mit asymmetrischer Abstrahlcharakteristik; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour with asymmetric radiation characteristic; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



exchangeable light engine



patented ball catch system

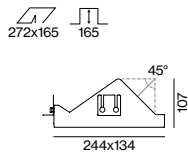


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE ASYMMETRIC MIDI HOUSING

MOUNTING HOUSING MIDI TRIMLESS

for installation in plasterboard ceilings 10-25 mm

TYPE

1 lamp

ORDER CODE

060 - 02417

Order options

IP RATING

IP 20 0

IP 44 8

COLOUR TEMPERATURE

2700 K 4

3000 K 5

4000 K (only 27 W) 6

CONTROL

non DIM / phase-cut* 1

DIM DALI 3

* phase-cut DIM only for 13 W / 27 W

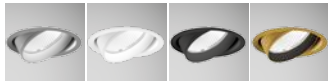
MATERIAL COLOUR

silver-grey 6

white 7

black 8

gold 9

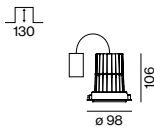


REFLECTOR

spot 17° S

medium 24° M

flood 36° F



INSET SASSO+ MIDI FLUSH



SYSTEM POWER

13 W

18 W CWD

27 W

COLOUR TEMP.

2700 K

3000 K

2000-3000 K

2700 K

3000 K

4000 K

LUMINOUS FLUX

990 lm

1000 lm

1690 lm

1700 lm

2000 lm

ORDER CODE

048 - 2410

048 - 241103

048 - 2412

Light distribution for 27 W, 4000 K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø 0,31	1	9480	ø 0,42	1	5557	ø 0,65
2	3660	ø 0,61	2	2370	ø 0,84	2	1389	ø 1,30
3	1627	ø 0,92	3	1053	ø 1,26	3	617	ø 1,95
4	915	ø 1,22	4	593	ø 1,69	4	347	ø 2,60
5	586	ø 1,53	5	379	ø 2,11	5	222	ø 3,25

Optical accessories

TYPE

honeycomb louver

linear prismatic lens

snoot

snoot with honeycomb louver

use only 1 optical accessory

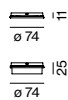
ORDER CODE

048 - 219131

048 - 219231

048 - 219111

048 - 219121



INVISIBLE ASYMMETRIC MAXI

xal.com/invisible-asymmetric



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

COB LED module
up to 111lm/W
3000 K, 4000 K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

asymmetric illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur mit asymmetrischer Abstrahlcharakteristik; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour with asymmetric radiation characteristic; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; protection class IP20; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system

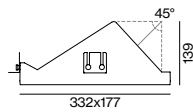
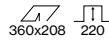


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE ASYMMETRIC MAXI HOUSING

MOUNTING HOUSING MAXI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

0 6 0 - 0 2 4 2 7

Order options

COLOUR RENDERING INDEX +

CRI > 80 2
CRI > 90 5

COLOUR TEMPERATURE

3000K 5
4000K 6

SPECIAL COLOUR

vogue	CRI > 90	S
gallery	CRI 98	K
gourmet		M
fresh meat & fish		F
pastry		C
brilliant white	CRI > 90	W

CONTROL

non DIM 1
DIM DALI 3

MATERIAL COLOUR

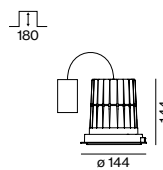
silver-grey* 6
white 7
black 8

*not for optical accessories



REFLECTOR

spot 14° S
medium 25° M
flood 41° F



INSET SASSO+ MAXI FLUSH



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	3000 lm	0 4 8 - 2 + 1 0
	4000 K	3100 lm	
28 W	special colour		0 4 8 - 2 2 1 0
45 W	3000 K	3900 lm	0 4 8 - 2 + 1 1
	4000 K	4100 lm	
44 W	special colour		0 4 8 - 2 2 1 1

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42 W	3000 K	4200 lm	0 4 8 - 3 + 1 1
	4000 K	4300 lm	
42 W	vogue	2700 lm	0 4 8 - 3 2 1 1 S

luminous flux at CRI 80

Light distribution for 45 W, CRI > 80, 4000 K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø 0,24	1	16558	ø 0,44	1	7307	ø 0,74	1	7307	ø 0,74	1	7307	ø 0,74	1	7307	ø 0,74
2	9108	ø 0,48	2	4139	ø 0,87	2	1827	ø 1,48	2	1827	ø 1,48	2	1827	ø 1,48	2	1827	ø 1,48
3	4048	ø 0,73	3	1840	ø 1,31	3	812	ø 2,22	3	812	ø 2,22	3	812	ø 2,22	3	812	ø 2,22
4	2277	ø 0,97	4	1035	ø 1,74	4	457	ø 2,96	4	457	ø 2,96	4	457	ø 2,96	4	457	ø 2,96
5	1457	ø 1,21	5	662	ø 2,18	5	292	ø 3,70	5	292	ø 3,70	5	292	ø 3,70	5	292	ø 3,70

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

ORDER CODE

0 4 8 - 2 2 9 1 3 1
0 4 8 - 2 2 9 2 3 1
0 4 8 - 2 2 9 1 1 1
0 4 8 - 2 2 9 1 2 1

use only 1 optical accessory

INVISIBLE SQUARE MINI

xal.com/invisible-square



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 6°, 26°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80 % des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasenan- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

INVISIBLE SQUARE

[page 154](#)



Features



exchangeable light engine



patented ball catch system

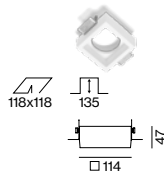


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE SQUARE MINI HOUSING

1 LAMP MOUNTING HOUSING MINI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060-02017

2 LAMPS MOUNTING HOUSING MINI TRIMLESS

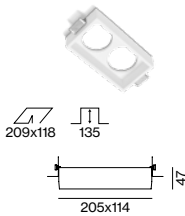
for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060-02027



Order options

IP RATING

IP 20 0
IP 44 8

COLOUR TEMPERATURE

2700 K 4
3000 K 5

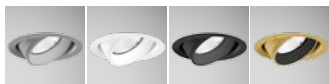
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

* phase-cut DIM only for 16 W

MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9

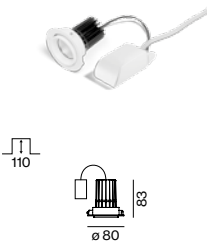


REFLECTOR

medium 27° M
flood 37° F

LED LENS

super spot 6° (only 8 W non DIM) V



INSET SASSO+ MINI FLUSH



SYSTEM POWER

8 W

8 W CWD

16 W

COLOUR TEMP.

2700 K

3000 K

1800-3000 K

2700 K

3000 K

LUMINOUS FLUX

510 lm

550 lm

880 lm

940 lm

ORDER CODE

048-23101

048-231003

048-2312

Light distribution for 16 W, 3000 K

super spot 6° LOR 86%			medium 27° LOR 81%			flood 37° LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38

Optical accessories

TYPE

honeycomb louver

linear prismatic lens

snoot

snoot with honeycomb louver

use only 1 optical accessory

ORDER CODE

048-209131

048-209231

048-209111

048-209121



Inspiration

Private Residence
Palma de Mallorca, Spain

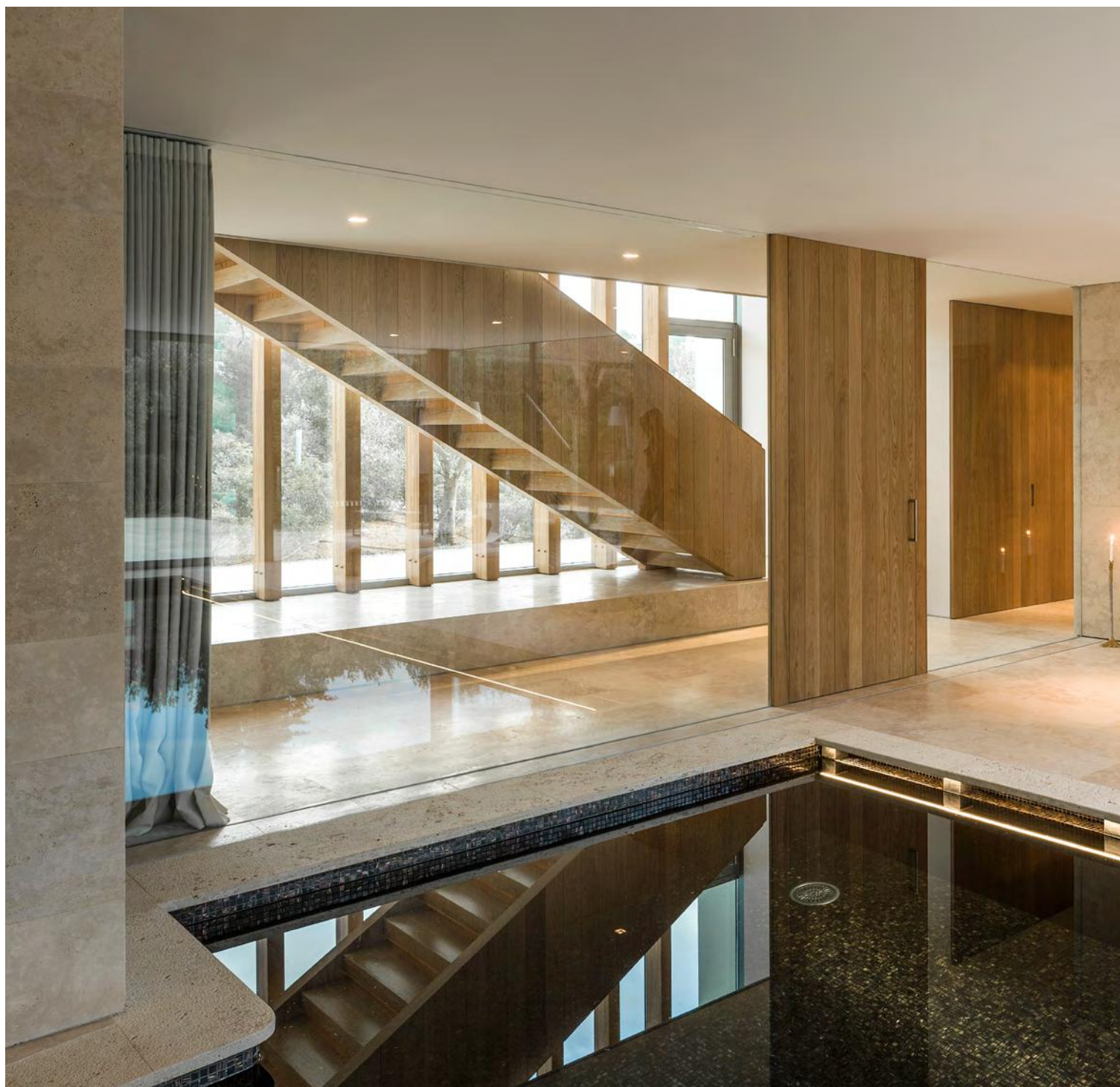
SOLUTION
INVISIBLE SQUARE MINI

ARCHITECT

Rambla 9
Palma de Mallorca, Spain

LIGHTING DESIGN

D-Mix
Palma de Mallorca, Spain





INVISIBLE SQUARE MIDI

xal.com/invisible-square



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

INVISIBLE SQUARE

[page 154](#)



Features



exchangeable light engine



patented ball catch system

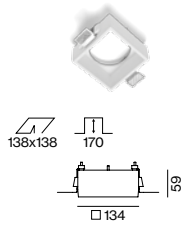


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE SQUARE MIDI HOUSING

1 LAMP MOUNTING HOUSING MIDI TRIMLESS

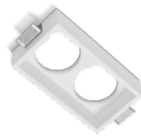
for installation in plasterboard ceilings 10-25 mm

TYPE

1 lamp

ORDER CODE

060 - 02317



2 LAMPS MOUNTING HOUSING MIDI TRIMLESS

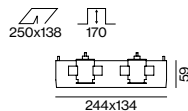
for installation in plasterboard ceilings 10-25 mm

TYPE

2 lamps

ORDER CODE

060 - 02327



Order options

IP RATING

IP20 0
IP44 8

COLOUR TEMPERATURE

2700K 4
3000K 5
4000K (only 27W) 6

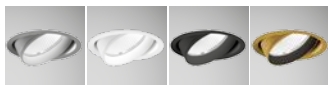
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

*phase-cut DIM only for 13W / 27W

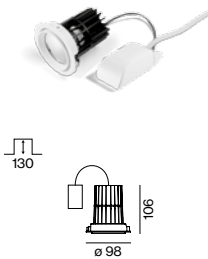
MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9



REFLECTOR

spot 17° S
medium 24° M
flood 36° F



INSET SASSO+ MIDI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13W	2700K	990lm	048 - 2410
	3000K	1000lm	
18W CWD	2000-3000K		048 - 241103
27W	2700K	1690lm	048 - 2412
	3000K	1700lm	
	4000K	2000lm	

Light distribution for 27W, 4000K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø0,31	1	9480	ø0,42	1	5557	ø0,65
2	3660	ø0,61	2	2370	ø0,84	2	1389	ø1,30
3	1627	ø0,92	3	1053	ø1,26	3	617	ø1,95
4	915	ø1,22	4	593	ø1,69	4	347	ø2,60
5	586	ø1,53	5	379	ø2,11	5	222	ø3,25

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver
use only 1 optical accessory

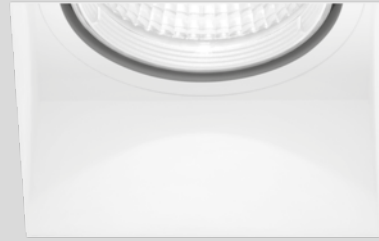
ORDER CODE

048 - 219131
048 - 219231
048 - 219111
048 - 219121



INVISIBLE SQUARE MAXI

xal.com/invisible-square



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

COB LED module
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

INVISIBLE SQUARE

[page 154](#)



Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur; geeignet für Deckenstärken von 10-25mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour; suitable for ceiling thickness of 10-25mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; protection class IP20; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system

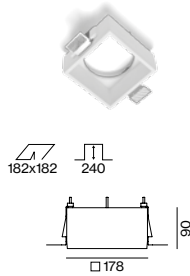


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE SQUARE MAXI HOUSING

1 LAMP MOUNTING HOUSING MAXI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060-02117

2 LAMPS MOUNTING HOUSING MAXI TRIMLESS

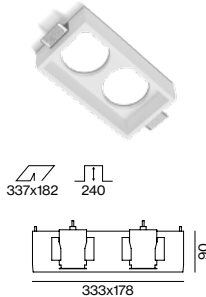
for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060-02127



Order options

COLOUR RENDERING INDEX +

CRI > 80 2
CRI > 90 5

COLOUR TEMPERATURE ::

3000K 5
4000K 6

SPECIAL COLOUR ::

vogue	CRI > 90	S
gallery	CRI 98	K
gourmet		M
fresh meat & fish		F
pastry		C
brilliant white	CRI > 90	W

CONTROL >

non DIM 1
DIM DALI 3

MATERIAL COLOUR >

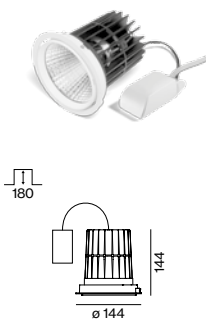
silver-grey* 6
white 7
black 8

*not for optical accessories



REFLECTOR >

spot 14° S
medium 25° M
flood 41° F



INSET SASSO+ MAXI FLUSH



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W	3000K	3000 lm	048-2+10 >>>>
	4000K	3100 lm	
28W	special colour		048-2210 >>>>
45W	3000K	3900 lm	048-2+11 >>>>
	4000K	4100 lm	
44W	special colour		048-2211 >>>>

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K	4200 lm	048-3+11 >>>>
	4000K	4300 lm	
42W		2700 lm	048-3211S >>>>

luminous flux at CRI 80

Light distribution for 45W, CRI > 80, 4000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø0,24	1	16558	ø0,44	1	7307	ø0,74
2	9108	ø0,48	2	4139	ø0,87	2	1827	ø1,48
3	4048	ø0,73	3	1840	ø1,31	3	812	ø2,22
4	2277	ø0,97	4	1035	ø1,74	4	457	ø2,96
5	1457	ø1,21	5	662	ø2,18	5	292	ø3,70

Optical accessories

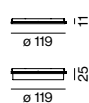
TYPE

honeycomb louvre
linear prismatic lens
snoot
snoot with honeycomb louvre

ORDER CODE

048-229131 >
048-229231 >
048-229111 >
048-229121 >

use only 1 optical accessory



Inspiration

Doctor's Practice, Dr. Chaker
Geldern, Germany

SOLUTION
INVISIBLE SQUARE MAXI

ARCHITECT
Göke Praxiskonzepte
Düsseldorf, Germany

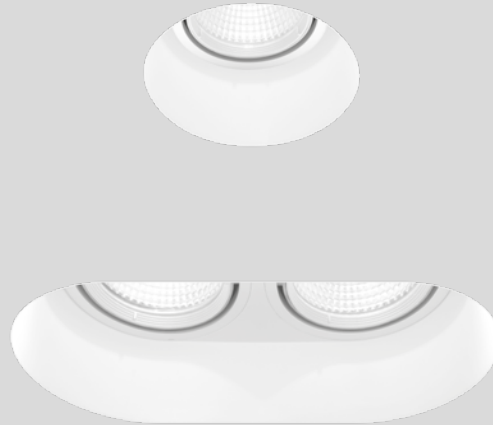
LIGHTING DESIGN
Göke Praxiskonzepte
Düsseldorf, Germany





INVISIBLE ROUND MINI

xal.com/invisible-round



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 6°, 26°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; runde Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80 % des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; round inner contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

INVISIBLE ROUND

[page 150](#)



Features



exchangeable light engine



patented ball catch system

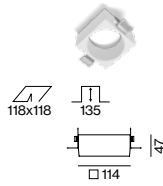


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE ROUND MINI HOUSING

1 LAMP MOUNTING HOUSING MINI TRIMLESS

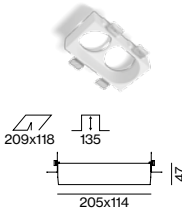
for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060-02617



2 LAMPS MOUNTING HOUSING MINI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060-02627

Order options

IP RATING

IP 20 0
IP 44 8

COLOUR TEMPERATURE

2700K 4
3000K 5

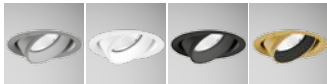
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

*phase-cut DIM only for 16 W

MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9

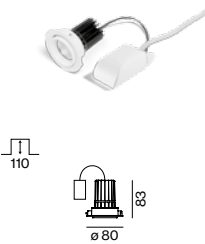


REFLECTOR

medium 27° M
flood 37° F

LED LENS

super spot 6° (only 8W non DIM) V



INSET SASSO+ MINI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700K	510 lm	048-2310::1▲
	3000K	550 lm	
8 W CWD	1800-3000K		048-231003▲
16 W	2700K	880 lm	48-2312::2▲
	3000K	940 lm	

Light distribution for 16 W, 3000 K

super spot 6° LOR 86%			medium 27° LOR 81%			flood 37° LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

ORDER CODE

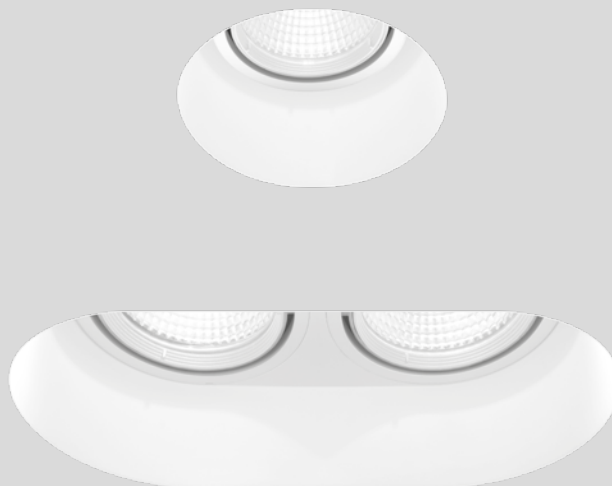
048-209131▲
048-209231▲
048-209111▲
048-209121▲

use only 1 optical accessory



INVISIBLE ROUND MIDI

xal.com/invisible-round



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; runde Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; round inner contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable;

INVISIBLE ROUND

[page 150](#)



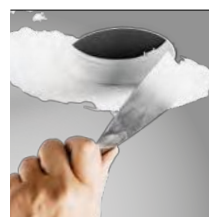
Features



exchangeable light engine



patented ball catch system

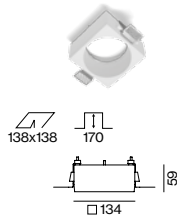


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE ROUND MIDI HOUSING

1 LAMP MOUNTING HOUSING MIDI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060 - 02517



2 LAMPS MOUNTING HOUSING MIDI TRIMLESS

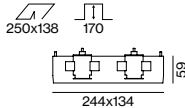
for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060 - 02527



Order options

IP RATING

IP 20 0
IP 44 8

COLOUR TEMPERATURE

2700 K 4
3000 K 5
4000 K (only 27 W) 6

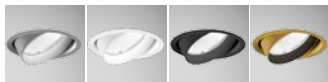
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

* phase-cut DIM only for 13 W / 27 W

MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9

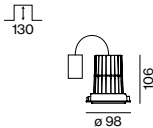


REFLECTOR

spot 17° S
medium 24° M
flood 36° F



INSET SASSO+ MIDI FLUSH



SYSTEM POWER

13 W

18 W CWD

27 W

COLOUR TEMP.

2700 K

3000 K

2000-3000 K

2700 K

3000 K

4000 K

LUMINOUS FLUX

990 lm

1000 lm

1690 lm

1700 lm

2000 lm

ORDER CODE

048 - 2410

048 - 241103

048 - 2412

Light distribution for 27 W, 4000 K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø 0,31	1	9480	ø 0,42	1	5557	ø 0,65
2	3660	ø 0,61	2	2370	ø 0,84	2	1389	ø 1,30
3	1627	ø 0,92	3	1053	ø 1,26	3	617	ø 1,95
4	915	ø 1,22	4	593	ø 1,69	4	347	ø 2,60
5	586	ø 1,53	5	379	ø 2,11	5	222	ø 3,25

Optical accessories

TYPE

honeycomb louver

linear prismatic lens

snoot

snoot with honeycomb louver

use only 1 optical accessory

ORDER CODE

048 - 219131

048 - 219231

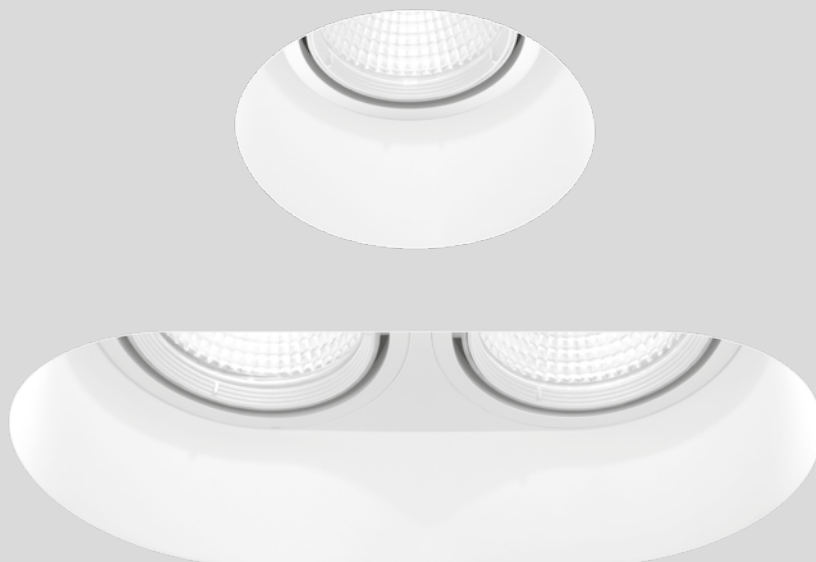
048 - 219111

048 - 219121



INVISIBLE ROUND MAXI

xal.com/invisible-round



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

COB LED module
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; runde Innenkontur; geeignet für Deckenstärken von 10-25mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; round inner contour; suitable for ceiling thickness of 10-25mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; protection class IP20; PC II; optional DALI dimmable

INVISIBLE ROUND

[page 150](#)



Features



exchangeable light engine



patented ball catch system

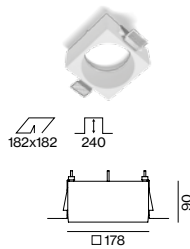


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE ROUND MAXI HOUSING

1 LAMP MOUNTING HOUSING MAXI TRIMLESS

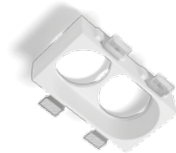
for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060 - 02717



2 LAMPS MOUNTING HOUSING MAXI TRIMLESS

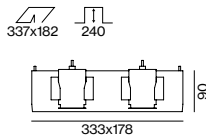
for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060 - 02727



Order options

COLOUR RENDERING INDEX +

CRI > 80 2
CRI > 90 5

COLOUR TEMPERATURE ::

3000K 5
4000K 6

SPECIAL COLOUR ::

vogue CRI > 90 S
gallery CRI 98 K
gourmet M
fresh meat & fish F
pastry C
brilliant white CRI > 90 W

CONTROL <

non DIM 1
DIM DALI 3

MATERIAL COLOUR >

silver-grey* 6
white 7
black 8

*not for optical accessories



REFLECTOR >

spot 14° S
medium 25° M
flood 41° F

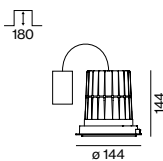


INSET SASSO+ MAXI FLUSH



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W	3000K	3000 lm	048 - 2 + 1 0 :: > < >
	4000K	3100 lm	
28W	special colour		048 - 2 2 1 0 :: > < >
45W	3000K	3900 lm	048 - 2 + 1 1 :: > < >
	4000K	4100 lm	
44W	special colour		048 - 2 2 1 1 :: > < >



HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K	4200 lm	048 - 3 + 1 1 :: > < >
	4000K	4300 lm	
42W		2700 lm	048 - 3 2 1 1 S > < >

luminous flux at CRI 80

Light distribution for 44 W, CRI > 80, 4000 K

spot 14° LOR 84%			medium 25° LOR 85%			flood 41° LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø0,24	1	16558	ø0,44	1	7307	ø0,74
2	9108	ø0,48	2	4139	ø0,87	2	1827	ø1,48
3	4048	ø0,73	3	1840	ø1,31	3	812	ø2,22
4	2277	ø0,97	4	1035	ø1,74	4	457	ø2,96
5	1457	ø1,21	5	662	ø2,18	5	292	ø3,70

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

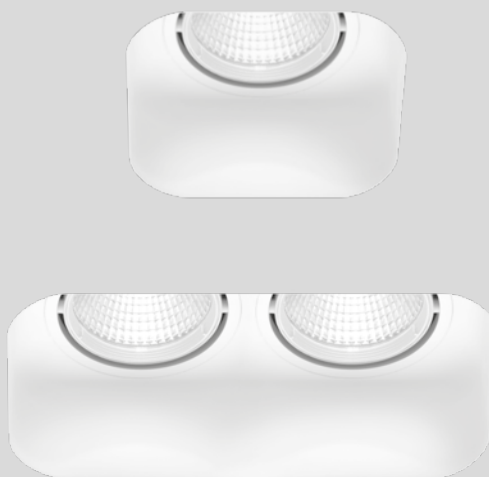
ORDER CODE

048 - 2 2 9 1 3 1 >
048 - 2 2 9 2 3 1 >
048 - 2 2 9 1 1 1 >
048 - 2 2 9 1 2 1 >

use only 1 optical accessory

INVISIBLE RETRO MINI

xal.com/invisible-retro



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 6°, 26°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß oder schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasenan- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K and 3000K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

INVISIBLE ROUND

[page 150](#)



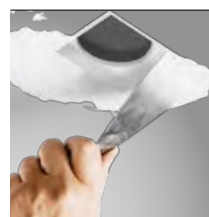
Features



exchangeable light engine



patented ball catch system

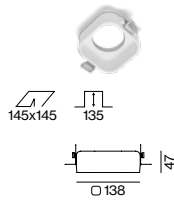


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE RETRO MINI HOUSING

1 LAMP MOUNTING HOUSING MINI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060-00717

2 LAMPS MOUNTING HOUSING MINI TRIMLESS

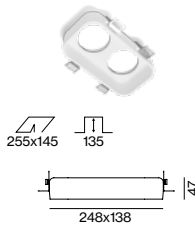
for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060-00727



Order options

IP RATING

IP20 0
IP44 8

COLOUR TEMPERATURE

2700K 4
3000K 5

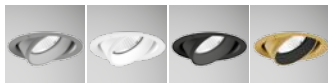
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

*phase-cut DIM only for 16 W

MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9

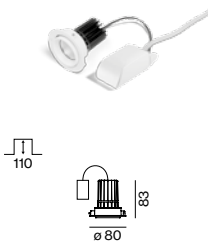


REFLECTOR

medium 27° M
flood 37° F

LED LENS

super spot 6° (only 8 W non DIM) V



INSET SASSO+ MINI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700K 3000K	510 lm 550 lm	048-2310::1▲
8 W CWD	1800-3000K		048-231003▲
16 W	2700K 3000K	880 lm 940 lm	048-2312::1▲

Light distribution for 16 W, 3000 K

super spot 6° LOR 86%			medium 27° LOR 81%			flood 37° LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

ORDER CODE

048-209131▲
048-209231▲
048-209111▲
048-209121▲

use only 1 optical accessory



INVISIBLE RETRO MIDI

xal.com/invisible-retro



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

INVISIBLE ROUND

[page 150](#)



Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



exchangeable light engine



patented ball catch system

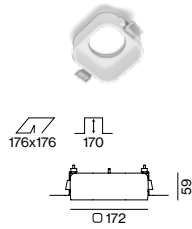


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE RETRO MIDI HOUSING

1 LAMP MOUNTING HOUSING MIDI TRIMLESS

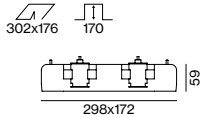
for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060 - 01617



2 LAMPS MOUNTING HOUSING MIDI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060 - 01627

Order options

IP RATING

IP 20	0
IP 44	8

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K (only 27 W)	6

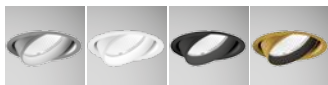
CONTROL

non DIM / phase-cut*	1
DIM DALI	3

* phase-cut DIM only for 13 W / 27 W

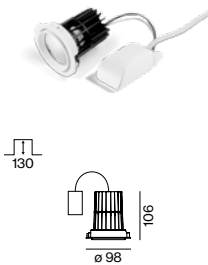
MATERIAL COLOUR

silver-grey	6
white	7
black	8
gold	9



REFLECTOR

spot 17°	S
medium 24°	M
flood 36°	F



INSET SASSO+ MIDI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990 lm	048 - 2410
	3000 K	1000 lm	
18 W CWD	2000-3000 K		048 - 241103
27 W	2700 K	1690 lm	048 - 2412
	3000 K	1700 lm	
	4000 K	2000 lm	

Light distribution for 27 W, 4000 K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø 0,31	1	9480	ø 0,42	1	5557	ø 0,65
2	3660	ø 0,61	2	2370	ø 0,84	2	1389	ø 1,30
3	1627	ø 0,92	3	1053	ø 1,26	3	617	ø 1,95
4	915	ø 1,22	4	593	ø 1,69	4	347	ø 2,60
5	586	ø 1,53	5	379	ø 2,11	5	222	ø 3,25

Optical accessories

TYPE

honeycomb louver	
linear prismatic lens	
snoot	
snoot with honeycomb louver	

ORDER CODE

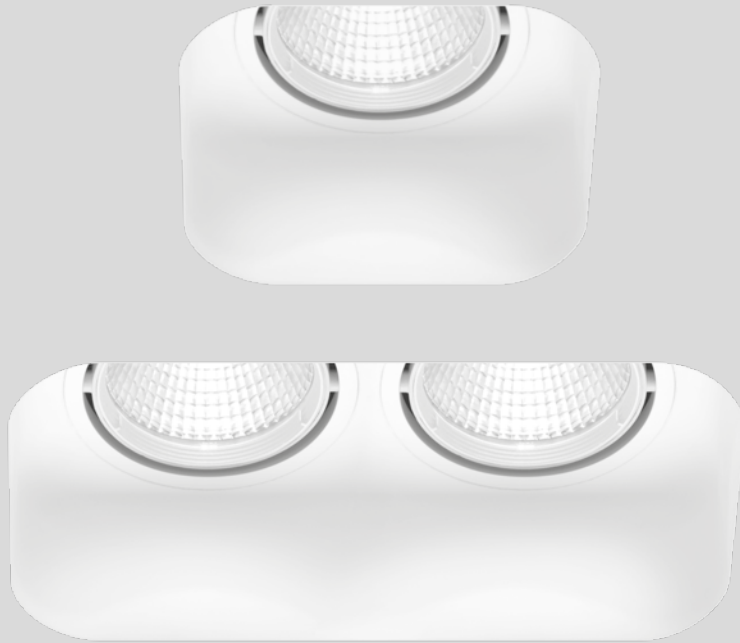
048 - 219131	
048 - 219231	
048 - 219111	
048 - 219121	

use only 1 optical accessory



INVISIBLE RETRO MAXI

xal.com/invisible-retro



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

COB LED module
up to 111lm/W
3000 K, 4000 K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

INVISIBLE ROUND

[page 150](#)



Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnapsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; protection class IP20; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system

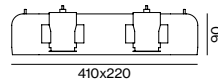
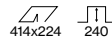
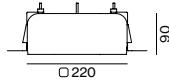
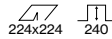


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



INVISIBLE RETRO MAXI HOUSING

1 LAMP MOUNTING HOUSING MAXI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060 - 01417

2 LAMPS MOUNTING HOUSING MAXI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

2 lamps

ORDER CODE

060 - 01427

Order options

COLOUR RENDERING INDEX +

CRI > 80 2
CRI > 90 5

COLOUR TEMPERATURE ::

3000K 5
4000K 6

SPECIAL COLOUR ::

vogue	CRI > 90	S
gallery	CRI 98	K
gourmet		M
fresh meat & fish		F
pastry		C
brilliant white	CRI > 90	W

CONTROL >

non DIM 1
DIM DALI 3

MATERIAL COLOUR >

silver-grey* 6
white 7
black 8

*not for optical accessories



REFLECTOR >

spot 14° S
medium 25° M
flood 41° F



INSET SASSO+ MAXI FLUSH



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W	3000K	3000 lm	048 - 2 + 1 0 >>>>
	4000K	3100 lm	
28W	special colour		048 - 2 2 1 0 >>>>
45W	3000K	3900 lm	048 - 2 + 1 1 >>>>
	4000K	4100 lm	
44W	special colour		048 - 2 2 1 1 >>>>

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K	4200 lm	048 - 3 + 1 1 >>>>
	4000K	4300 lm	
42W		2700 lm	048 - 3 2 1 1 S >>>>

luminous flux at CRI 80

Light distribution for 45W, CRI > 80, 4000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø0,24	1	16558	ø0,44	1	7307	ø0,74
2	9108	ø0,48	2	4139	ø0,87	2	1827	ø1,48
3	4048	ø0,73	3	1840	ø1,31	3	812	ø2,22
4	2277	ø0,97	4	1035	ø1,74	4	457	ø2,96
5	1457	ø1,21	5	662	ø2,18	5	292	ø3,70

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

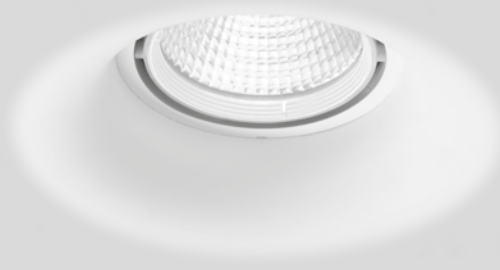
ORDER CODE

048 - 2 2 9 1 3 1 >>>>
048 - 2 2 9 2 3 1 >>>>
048 - 2 2 9 1 1 1 >>>>
048 - 2 2 9 1 2 1 >>>>

use only 1 optical accessory

BUBBLE MINI

xal.com/bubble



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 69lm/W
2700K, 3000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 6°, 26°, 37°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasenan- bzw. abschnitt oder DALI-dimmbar

EN Hyperbolic shaped installation housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

BUBBLE

page 156



Features



exchangeable light engine



patented ball catch system

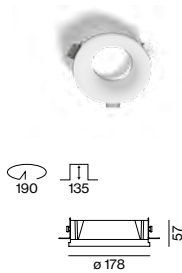


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



BUBBLE MINI HOUSING

MOUNTING HOUSING MINI TRIMLESS

for installation in plasterboard ceilings 10-25 mm

TYPE

1 lamp

ORDER CODE

0 6 0 - 0 2 8 1 7

Order options

IP RATING

IP 20 0
IP 44 8

COLOUR TEMPERATURE

2700 K 4
3000 K 5

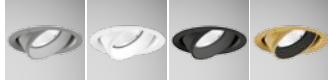
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

* phase-cut DIM only for 16 W

MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9

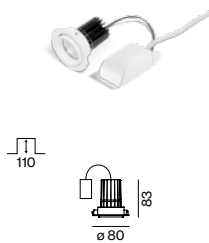


REFLECTOR

medium 27° M
flood 37° F

LED LENS

super spot 6° (only 8 W non DIM) V



INSET SASSO+ MINI FLUSH



SYSTEM POWER

8 W

8 W CWD

16 W

COLOUR TEMP.

2700 K

3000 K

1800-3000 K

2700 K

3000 K

LUMINOUS FLUX

510 lm

550 lm

880 lm

940 lm

ORDER CODE

0 4 8 - 2 3 1 0 :: 1 ▣ ▲

0 4 8 - 2 3 1 0 0 3 ▣ ▲

0 4 8 - 2 3 1 2 :: ▣ ▣ ▲

Light distribution for 16W, 3000K

super spot 6° LOR 86% medium 27° LOR 81% flood 37° LOR 81%

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23203	ø 0,10	1	2420	ø 0,48	1	1744	ø 0,68
2	5801	ø 0,21	2	605	ø 0,95	2	436	ø 1,35
3	2578	ø 0,31	3	269	ø 1,43	3	194	ø 2,03
4	1450	ø 0,42	4	151	ø 1,91	4	109	ø 2,71
5	928	ø 0,52	5	97	ø 2,38	5	70	ø 3,38

Optical accessories

TYPE

honeycomb louver

linear prismatic lens

snoot

snoot with honeycomb louver

use only 1 optical accessory

ORDER CODE

0 4 8 - 2 0 9 1 3 1 ▣

0 4 8 - 2 0 9 2 3 1 ▣

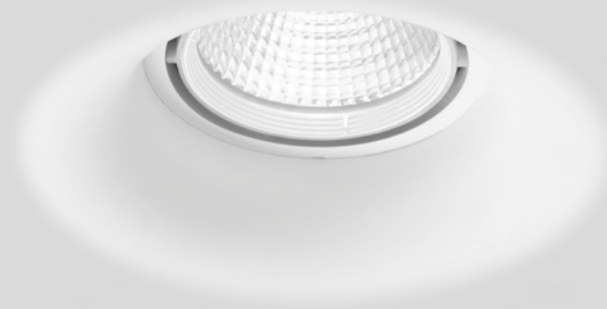
0 4 8 - 2 0 9 1 1 1 ▣

0 4 8 - 2 0 9 1 2 1 ▣



BUBBLE MIDI

xal.com/bubble



Quickinfo

GENERAL

recessed
IP20, IP44
only plasterboard ceilings

LED

COB LED module
up to 77 lm/W
2700K, 3000K, 4000K, CWD
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

BUBBLE

page 156



Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß, schwarz oder gold pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20, optional IP44; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Hyperbolic shaped installation housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white, black or gold powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; optional with CWD (Colour Warm Dimming); CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable;

Features



exchangeable light engine



patented ball catch system

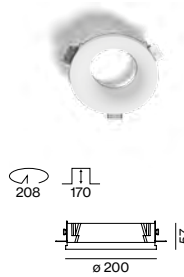


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



BUBBLE MIDI HOUSING

MOUNTING HOUSING MIDI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060-02927

Order options

IP RATING

IP20 0
IP44 8

COLOUR TEMPERATURE

2700 K 4
3000 K 5
4000 K (only 27 W) 6

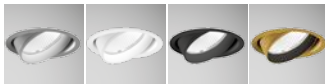
CONTROL

non DIM / phase-cut* 1
DIM DALI 3

* phase-cut DIM only for 13 W / 27 W

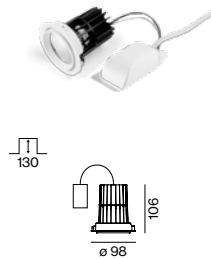
MATERIAL COLOUR

silver-grey 6
white 7
black 8
gold 9



REFLECTOR

spot 17° S
medium 24° M
flood 36° F



INSET SASSO+ MIDI FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990 lm	048-2410
	3000 K	1000 lm	
18 W CWD	2000-3000 K		048-241103
27 W	2700 K	1690 lm	048-2412
	3000 K	1700 lm	
	4000 K	2000 lm	

Light distribution for 27W, 4000K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14639	ø0,31	1	9480	ø0,42	1	5557	ø0,65
2	3660	ø0,61	2	2370	ø0,84	2	1389	ø1,30
3	1627	ø0,92	3	1053	ø1,26	3	617	ø1,95
4	915	ø1,22	4	593	ø1,69	4	347	ø2,60
5	586	ø1,53	5	379	ø2,11	5	222	ø3,25

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

ORDER CODE

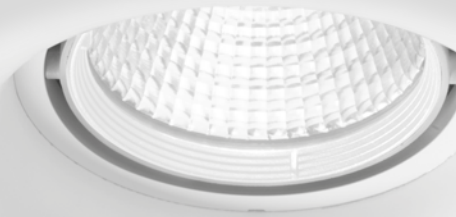
048-219131
048-219231
048-219111
048-219121

use only 1 optical accessory



BUBBLE MAXI

xal.com/bubble



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

COB LED module
up to 111lm/W
3000K, 4000K, special colour
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

BUBBLE

page 156



Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche silbergrau, weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Hyperbolic shaped installation housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface silver-grey, white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; protection class IP20; PC II; optional DALI dimmable

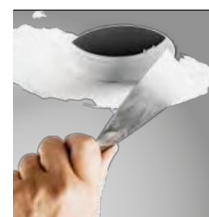
Features



exchangeable light engine



patented ball catch system

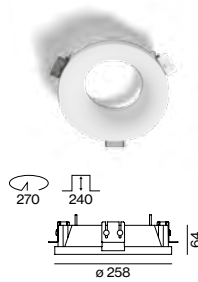


skimmed into plasterboard ceiling (trimless)

Order options

MATERIAL COLOUR

white gypsum only



BUBBLE MAXI MOUNTING

MOUNTING HOUSING MAXI TRIMLESS

for installation in plasterboard ceilings 10–25 mm

TYPE

1 lamp

ORDER CODE

060 - 03017

Order options

COLOUR RENDERING INDEX +

CRI > 80 2
CRI > 90 5

COLOUR TEMPERATURE ::

3000K 5
4000K 6

SPECIAL COLOUR ::

vogue CRI > 90 S
gallery CRI 98 K
gourmet M
fresh meat & fish F
pastry C
brilliant white CRI > 90 W

CONTROL ◆

non DIM 1
DIM DALI 3

MATERIAL COLOUR ■

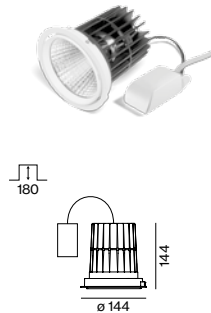
silver-grey* 6
white 7
black 8

*not for optical accessories



REFLECTOR ▲

spot 14° S
medium 25° M
flood 41° F



INSET SASSO+ MAXI FLUSH



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W	3000 K	3000 lm	0 4 8 - 2 + 1 0 ◆◆◆▲
	4000 K	3100 lm	
28W	special colour		0 4 8 - 2 2 1 0 ◆◆◆▲
45W	3000 K	3900 lm	0 4 8 - 2 + 1 1 ◆◆◆▲
	4000 K	4100 lm	
44W	special colour		0 4 8 - 2 2 1 1 ◆◆◆▲

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000 K	4200 lm	0 4 8 - 3 + 1 1 ◆◆◆▲
	4000 K	4300 lm	
42W	vogue	2700 lm	0 4 8 - 3 2 1 1 S ◆◆◆▲

luminous flux at CRI 80

Light distribution for 45W, CRI > 80, 4000K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø0,24	1	16558	ø0,44	1	7307	ø0,74	1	7307	ø0,74	1	7307	ø0,74	1	7307	ø0,74
2	9108	ø0,48	2	4139	ø0,87	2	1827	ø1,48	2	1827	ø1,48	2	1827	ø1,48	2	1827	ø1,48
3	4048	ø0,73	3	1840	ø1,31	3	812	ø2,22	3	812	ø2,22	3	812	ø2,22	3	812	ø2,22
4	2277	ø0,97	4	1035	ø1,74	4	457	ø2,96	4	457	ø2,96	4	457	ø2,96	4	457	ø2,96
5	1457	ø1,21	5	662	ø2,18	5	292	ø3,70	5	292	ø3,70	5	292	ø3,70	5	292	ø3,70

Optical accessories

TYPE

honeycomb louver
linear prismatic lens
snoot
snoot with honeycomb louver

ORDER CODE

0 4 8 - 2 2 9 1 3 1 ■
0 4 8 - 2 2 9 2 3 1 ■
0 4 8 - 2 2 9 1 1 1 ■
0 4 8 - 2 2 9 1 2 1 ■

use only 1 optical accessory



ARGO

xal.com/argo



reddot award 2014
best of the best



Quickinfo

GENERAL

recessed
IP20

LED

COB LED module
up to 100lm/W
3000 K, 4000 K, special colour
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

ARGO TRACK

[page 562](#)



Description

DE Deckeneinbaustrahler aus Aluminiumdruckguss; 365° dreh- und 90° ausschwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; optional DALI-dimmbar

EN Recessed spotlight made of die-cast aluminium; 365° rotatable and 90° tiltable outward; surface white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; optional as high performance version with increased luminous flux at low power; CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; optional DALI dimmable

Features



rotation adjustment
365°, tilt adjustm. 90°

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

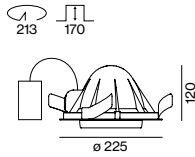
SPECIAL COLOUR	
vogue	CRI > 90 S
gallery	CRI 98 K
gourmet	M
fresh meat & fish	F
pastry	C
brilliant white	CRI > 90 W

CONTROL	
non DIM	1
DIM DALI	3

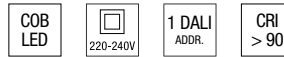
MATERIAL COLOUR	
white	7
black	8
white/black	P



REFLECTOR	
spot 14°	S
medium 25°	M
flood 41°	F



ARGO



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2600 lm	0 5 3 - 8 1 0 0
	4000 K	2800 lm	
28 W	special colour		0 5 3 - 8 0 0 0
37 W	3000 K	3000 lm	0 5 3 - 8 1 0 1
	4000 K	3200 lm	
37 W	special colour		0 5 3 - 8 0 0 1

Light distribution for 37W, 4000K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	28724	ø 0,24	1	13055	ø 0,44	1	5761	ø 0,74	1	1440	ø 1,48	1	640	ø 2,22	1	360	ø 2,96
2	7181	ø 0,48	2	3264	ø 0,87	2	1451	ø 1,31	2	640	ø 2,22	2	360	ø 2,96	2	230	ø 3,70
3	3192	ø 0,73	3	1451	ø 1,31	3	816	ø 1,74	3	522	ø 2,18	3	230	ø 3,70			
4	1795	ø 0,97	4	816	ø 1,74	4	522	ø 2,18									
5	1149	ø 1,21	5	522	ø 2,18												

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36 W	3000 K	3200 lm	0 5 3 - 9 1 0 1
	4000 K	3400 lm	
35 W	vogue	2400 lm	0 5 3 - 9 0 0 1 S

Light distribution for 36W, 4000K

spot 14°			LOR 82%			medium 25°			LOR 84%			flood 41°			LOR 82%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23558	ø 0,28	1	12170	ø 0,46	1	5606	ø 0,79	1	1402	ø 1,58	1	623	ø 2,36	1	350	ø 3,15
2	5889	ø 0,56	2	3042	ø 0,92	2	1402	ø 1,58	2	623	ø 2,36	2	350	ø 3,15	2	224	ø 3,94
3	2618	ø 0,83	3	1352	ø 1,39	3	761	ø 1,85	3	487	ø 2,31	3	224	ø 3,94			
4	1472	ø 1,11	4	761	ø 1,85	4	487	ø 2,31									
5	942	ø 1,39	5	487	ø 2,31												

Optical accessories

COLOUR AND PROTECTION FILTERS

TYPE	Ø H (mm)	ORDER CODE
■ dichroic colour filter	105-3	0 0 6 - 9 2 2 3 1
■ dichroic colour filter	105-3	0 0 6 - 9 2 2 3 2
■ dichroic colour filter	105-3	0 0 6 - 9 2 2 3 3
■ dichroic colour filter	105-3	0 0 6 - 9 2 2 3 4
UV protection filter	105-3	0 0 6 - 9 2 2 3 5
IR protection filter	105-3	0 0 6 - 9 2 2 3 6

LENSES AND HONEYCOMB LOUVER

TYPE	Ø H (mm)	ORDER CODE
sculpture lens	105-3	0 0 6 - 9 2 2 3 7
flood lens clear	105-3	0 0 6 - 9 2 2 3 8
honeycomb louver	105-3	0 0 6 - 9 3 1 3 2

ANTI-GLARE ADAPTOR

TYPE	Ø H (mm)	ORDER CODE
white 65°	106-65	0 0 5 - 0 7 1 0 7
black 65°	106-65	0 0 5 - 0 7 1 0 8
white	106-65	0 0 5 - 0 7 1 1 7
black	106-65	0 0 5 - 0 7 1 1 8



Inspiration

Fashion Store Leffers
Oldenburg, Germany

ARCHITECT
BLOCHER BLOCHER Partners
Stuttgart, Germany

LIGHTING DESIGN
VEDDER LICHTMANAGEMENT
Munich, Germany

SOLUTION
ARGO





AURO FOCUS

xal.com/auro-focus



reddot design award
winner 2013



product
design award
2014



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44

LED

COB LED module
up to 100lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
adjustable beam angle 15°–72°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Rundes Strahlerelement aus Aluminiumdruckguss, optional mit umlaufendem Rand; geeignet für Deckenstärken von 5-25mm; Oberfläche weiß pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige plan-konvexe Glaslinse; +/- 20° schwenkbar gelagert; variable Abstrahlcharakteristik mit 15°-72° mittels stufenlos fokussierbarer Linsentechnik; Schutzart IP20, optional IP44; SK II; optional DALI-dimmbar

EN Round spotlight element of die-cast aluminium, optional with edge; suitable for ceiling thickness of 5-25mm; surface white powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K and 3000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; high quality plano-convex glass lens; +/- 20° tilttable mounting; variable radiation characteristics with 15°-72° due to continuously focusable lens technology; protection class IP20, optional IP44; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable; precise radiation characteristic with 73° beam; protection class IP20, optional IP44; PC II; optional DALI dimmable

Features



adjustable beam
angle 15°–72°



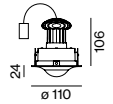
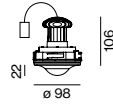
+/- 20° tilttable

Order options

IP RATING	◊
IP 20	4
IP 44	5

COLOUR TEMPERATURE	••
2700 K	4
3000 K	5

CONTROL	◊
non DIM	1
DIM DALI	3



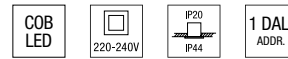
AURO FOCUS TURN TRIMLESS



SYSTEM POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
14 W	2700 K 3000 K	1400 lm 1400 lm	0 4 8 - 0 ◊ 3 2 •• ◊ 7

for installation in plasterboard ceilings 12/15/25 mm

AURO FOCUS FIX WITH TRIM



SYSTEM POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
14 W	2700 K 3000 K	1400 lm 1400 lm	0 4 8 - 0 ◊ 2 2 •• ◊ 7

for installation in ceilings 5-25 mm

Light distribution

min. angle 15° LOR 70% max. angle 72° LOR 83%

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	6961	ø 0,27	1	1134	ø 1,47
2	1740	ø 0,53	2	283	ø 2,94
3	773	ø 0,80	3	126	ø 4,41
4	435	ø 1,07	4	71	ø 5,88
5	278	ø 1,33	5	45	ø 7,35

AURO ROUND / SQUARE

xal.com/auro-round
xal.com/auro-square



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

RGB Low + W High-Power LED
up to 75lm/W
2700K, 3000K, RGB
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

ambiente illumination
beam angle 76°

ELECTRICAL

DIM DALI, DMX

PHYSICAL

aluminium
powder-coated

Description

DE Runde bzw. quadratische Einbauleuchte mit integriertem Strahlerelement, optional mit umlaufendem Rand; geeignet für Deckenstärken von 5-25 mm; Oberfläche weiß pulverbeschichtet; Punktförmige Lichtquelle: lieferbar in den Lichtfarben 2700 K und 3000 K; hochwertige plan-konvexe Glaslinse; +/- 20° schwenkbar gelagert; präzise Abstrahlcharakteristik mit 76° Ausstrahlwinkel; Diffuse Lichtquelle: bestückt mit RGB+W Multichip LEDs; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI oder DMX dimmbar, DALI/DMX Anschluss direkt auf Platine/Klemme

EN Round or square recessed luminaire with integrated spotlight element, optional with with trim; suitable for ceiling thickness of 5-25 mm; surface white powder coated; point light source: available in the light colours 2700K and 3000 K; high quality plano-convex glass lens; +/- 20° tiltable mounting; precise radiation characteristic with 76° beam; diffuse light source: fitted with RGB+W multi chip LEDs; completely homogeneously illuminated, satinised PMMA cover; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI or DMX dimmable, DALI/DMX connection directly on PCB/terminals

Features



individual control of
diffuser and lens

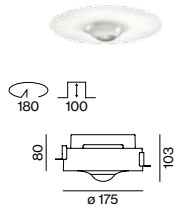


lens +/- 20° tilt
adjustment

Order options

COLOUR TEMPERATURE	••
2700 K	4
3000 K	5

CONTROL	◆
DIM DALI	3
DMX	4

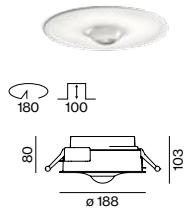


AURO ROUND TRIMLESS

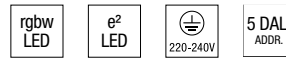


SYSTEM POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
12W RGBW + 5W spot	2700 K	230lm	0 4 8 - 0 0 1 0 •• ◆ 7
	3000 K	240lm	

for installation in plasterboard ceilings 12/15/25 mm

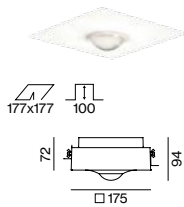


AURO ROUND WITH TRIM



SYSTEM POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
12W RGBW + 5W spot	2700 K	230lm	0 4 8 - 0 0 2 0 •• ◆ 7
	3000 K	240lm	

for installation in ceilings 5–25 mm

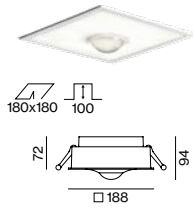


AURO SQUARE TRIMLESS

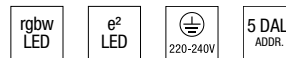


SYSTEM POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
12W RGBW + 5W spot	2700 K	230lm	0 4 8 - 0 1 1 0 •• ◆ 7
	3000 K	240lm	

for installation in plasterboard ceilings 12/15/25 mm



AURO SQUARE WITH TRIM



SYSTEM POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
12W RGBW + 5W spot	2700 K	230lm	0 4 8 - 0 1 2 0 •• ◆ 7
	3000 K	240lm	

for installation in ceilings 5–25 mm

Light distribution

beam angle 76° LOR 77%

h (m)	E (lx)	ø (m)
1	188	ø1,56
2	47	ø3,11
3	21	ø4,67
4	12	ø6,23
5	8	ø7,79

Accessories

DISMOUNTING TOOL

TYPE	ORDER CODE
AURO ROUND	0 4 8 - 0 0 9 1 1 1 0
AURO SQUARE	0 4 8 - 0 1 9 1 1 1 0



ASMOxal.com/asmo

Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 63lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

asymmetric illumination
beam angle 32°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Rundes Strahlerelement aus Aluminiumdruckguss, optional mit umlaufendem Rand; geeignet für Deckenstärken von 2-25mm; Oberfläche weiß pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige plan-konvexe Glaslinse; asymmetrische Lichtverteilung durch geneigte Linsenposition im Strahler; präzise Abstrahlcharakteristik mit 32° Ausstrahlwinkel; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round spotlight element of die-cast aluminium, optional with trim; suitable for ceiling thickness of 2-25mm; surface white powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700K and 3000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; high quality plano-convex glass lens; asymmetrical light distribution through inclined lens position in the spotlight; precise radiation characteristic with 32° beam; protection class IP20; PC II; optional DALI dimmable

ASMO WALL

➔ [page 530](#)



Features

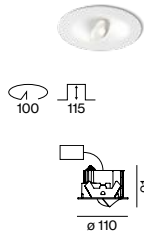


tilt 38°

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM	1
DIM DALI	3

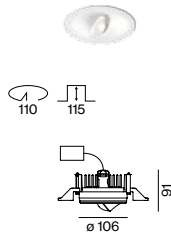


ASMO FIX WITH TRIM



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	2700 K	1000 lm	0 4 8 - 0 8 2 2 :: 7
	3000 K	1000 lm	

for installation in ceilings 5–25 mm

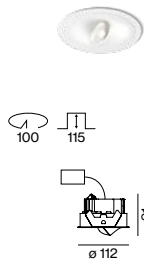


ASMO TURN TRIMLESS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	2700 K	1000 lm	0 4 8 - 0 8 3 2 :: 7
	3000 K	1000 lm	

for installation in plasterboard ceilings 2-25 mm



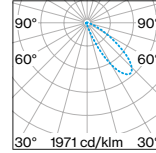
ASMO TURN WITH TRIM



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	2700 K	1000 lm	0 4 8 - 0 8 4 2 :: 7
	3000 K	1000 lm	

for installation in ceilings 5–25 mm

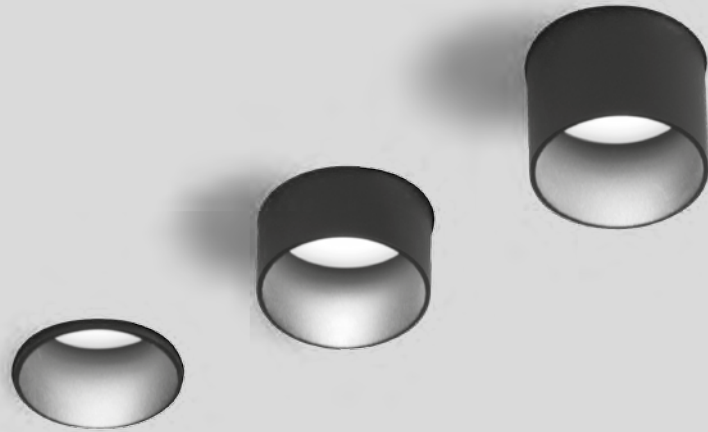
Light distribution



Asymm. 32°
direct
LOR 72 %

MOVE IT 45 ROUND

xal.com/move-it-45-round



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 65lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 35°
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Rundes Strahlerelement aus Aluminium; Oberfläche grau oder schwarz lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; optional mit asymmetrischer Lichtverteilung; Einbau in unterschiedlichen Gehäusen möglich: wahlweise mit umlaufendem Rand oder Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 35 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 35° Ausstrahlwinkel; Schutzart IP 20; SK II; optional DALI-dimmbar

EN Round spotlight element in aluminium; surface coated grey or black; installation without tools in mounting set with ball catch system; optional with asymmetric light distribution; installation possible in different housings: optionally with with trim or recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 35° beam; protection class IP 20; PC II; optional DALI dimmable

Features



tool-free height
adjustement



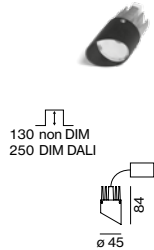
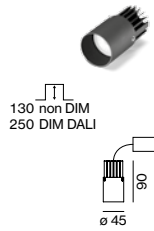
skimmed into plaster-
board ceiling (trimless)

Order options

COLOUR TEMPERATURE	<input type="checkbox"/>
2700 K	4
3000 K	5

CONTROL	<input type="checkbox"/>
non DIM	1
DIM DALI	3

MATERIAL COLOUR	<input type="checkbox"/>
grey lacquered	6
black lacquered	8



MOVE IT 45 ROUND



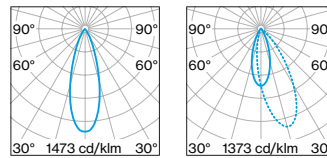
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	2700 K 3000 K	260 lm 260 lm	0 6 3 - 0 0 2 2 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> F

MOVE IT 45 ROUND ASYMMETRIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	2700 K 3000 K	240 lm 240 lm	0 6 3 - 0 1 2 2 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A

Light distribution

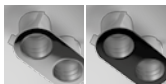


Flood 35°
direct
LOR 62 %

Asymm. 35°
direct
LOR 58 %

Order options

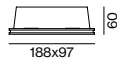
MATERIAL COLOUR	<input type="checkbox"/>
chrome	4
black	8



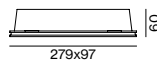
100x100



191x100



282x100



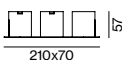
ø 62



128x62



198x62



Mounting accessories

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	97-97-60	0 6 3 - 0 6 1 0 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	188-97-60	0 6 3 - 0 6 2 0 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	279-97-60	0 6 3 - 0 6 3 0 0 1 7

for installation in plasterboard ceilings 12/15/25 mm

MOUNTING HOUSING WITH TRIM

TYPE	Ø-H (mm)	ORDER CODE
1 lamp	70-62	0 6 3 - 0 6 6 0 0 1 <input type="checkbox"/>

MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	140-70-62	0 6 3 - 0 6 7 0 0 1 <input type="checkbox"/>

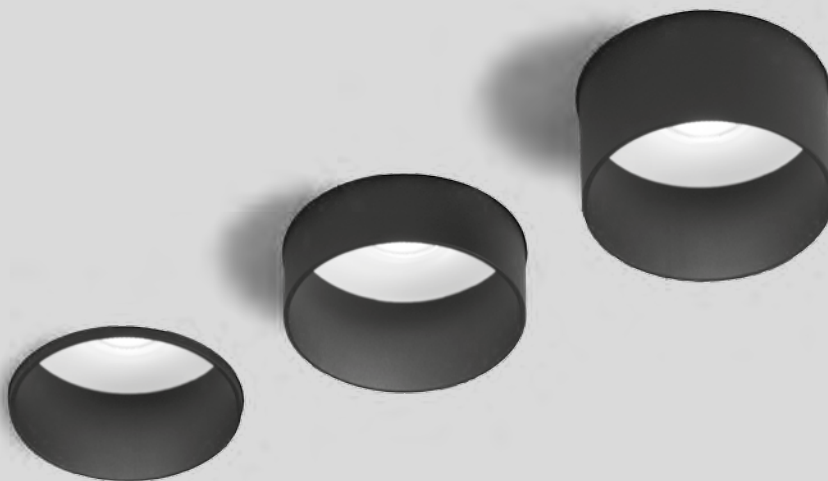
MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	210-70-62	0 6 3 - 0 6 8 0 0 1 <input type="checkbox"/>

for installation in ceilings 2-25 mm

MOVE IT 85 ROUND

xal.com/move-it-85-round



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 73lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 48°

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Rundes Strahlerelement aus Aluminium; Oberfläche grau oder schwarz lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Einbau in unterschiedlichen Gehäusen möglich: wahlweise mit umlaufendem Rand oder Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 35 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 48° Ausstrahlwinkel; Schutzart IP 20; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Round spotlight element in aluminium; surface coated grey or black; installation without tools in mounting set with ball catch system; installation possible in different housings: optionally with trim or recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 48° beam; protection class IP 20; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



tool-free height
adjustment



skimmed into plaster-
board ceiling (trimless)

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM / phase-cut	1
DIM DALI	3

MATERIAL COLOUR	
grey lacquered	6
black lacquered	8

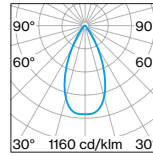


MOVE IT 85 ROUND



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700 K	630 lm	0 6 3 - 0 0 3 0
	3000 K	730 lm	◆ ◆ F

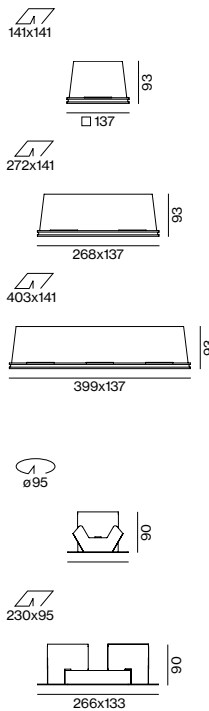
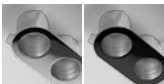
Light distribution



Flood 48°
direct
LOR 81%

Order options

MATERIAL COLOUR	
chrome	4
black	8



Mounting accessories

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	137-137-93	0 6 3 - 0 6 1 1 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	268-137-93	0 6 3 - 0 6 2 1 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	399-137-93	0 6 3 - 0 6 3 1 0 1 7

for installation in plasterboard ceilings 12/15/25 mm

MOUNTING HOUSING WITH TRIM

TYPE	Ø h (mm)	ORDER CODE
1 lamp	133-90	0 6 3 - 0 6 6 1 0 1 7

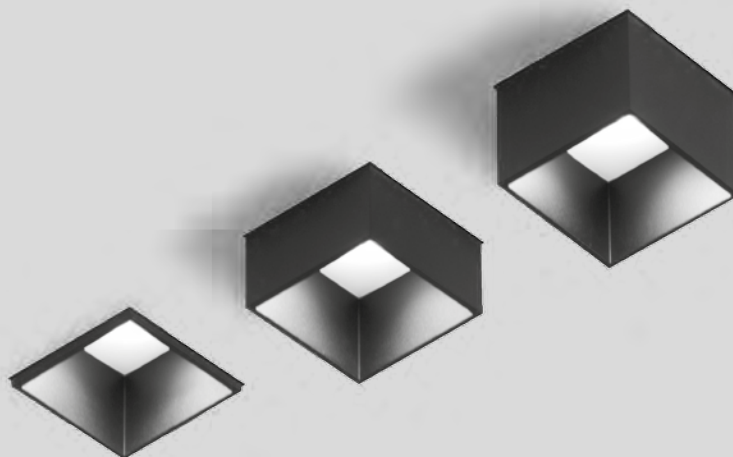
MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	266-133-90	0 6 3 - 0 6 7 1 0 1 7

for installation in ceilings 2-25 mm

MOVE IT 45 SQUARE

xal.com/move-it-45-square



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 65lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 35°
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

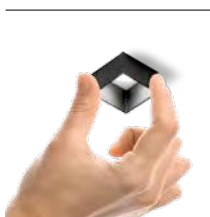
aluminium
lacquered

Description

DE Quadratisches Strahlerelement aus Aluminium; Oberfläche grau oder schwarz lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; optional mit asymmetrischer Lichtverteilung und Wallwashercharakteristik; Einbau in unterschiedlichen Gehäusen möglich: wahlweise mit umlaufendem Rand oder Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 35 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 35° Ausstrahlwinkel; Schutzart IP20; SK II; optional DALI-dimbar

EN Square spotlight element in aluminium; surface coated grey or black; installation without tools in mounting set with ball catch system; optional with asymmetric light distribution and wall washer characteristic; installation possible in different housings: optionally with with trim or recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 35° beam; protection class IP20; PC II; optional DALI dimmable

Features



tool-free height
adjustment



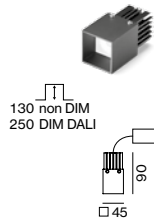
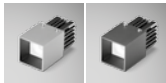
skimmed into plaster-
board ceiling (trimless)

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
grey lacquered	6
black lacquered	8



MOVE IT 45 SQUARE



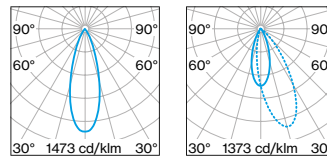
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	2700 K	260 lm	0 6 3 - 0 3 2 2
	3000 K	260 lm	◆ ◆ F

MOVE IT 45 SQUARE ASYMMETRIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	2700 K	240 lm	0 6 3 - 0 4 2 2
	3000 K	240 lm	◆ ◆ F

Light distribution

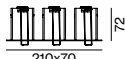
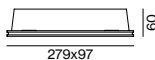
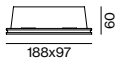


Flood 35°
direct
LOR 62 %

Asymm. 35°
direct
LOR 58 %

Order options

MATERIAL COLOUR	
chrome	4
black	8



Mounting accessories

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	97-97-60	0 6 3 - 0 7 1 0 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	188-97-60	0 6 3 - 0 7 2 0 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	279-97-60	0 6 3 - 0 7 3 0 0 1 7

for installation in plasterboard ceilings 12/15/25 mm

MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	70-70-62	0 6 3 - 0 7 6 0 0 1 7

MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	140-70-62	0 6 3 - 0 7 7 0 0 1 7

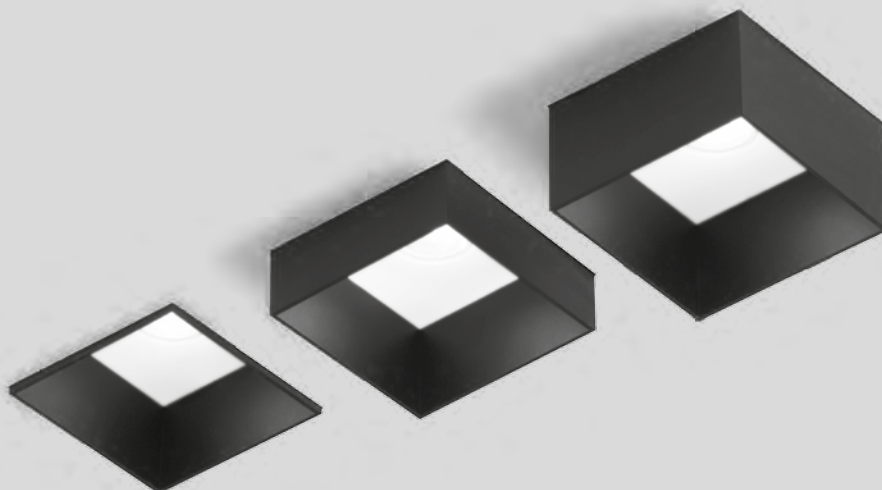
MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	210-70-62	0 6 3 - 0 7 8 0 0 1 7

for installation in ceilings 2-25 mm

MOVE IT 85 SQUARE

xal.com/move-it-85-square



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 73lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 48°

ELECTRICAL

non DIM / phase-cut, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Quadratisches Strahlerelement aus Aluminium; Oberfläche grau oder schwarz lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Einbau in unterschiedlichen Gehäusen möglich: wahlweise mit umlaufendem Rand oder Einbaugeschäule aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 35 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 48° Ausstrahlwinkel; Schutzart IP20; SK II; dimmbar mit Phasen- bzw. abschnitt oder DALI-dimmbar

EN Square spotlight element in aluminium; surface coated grey or black; installation without tools in mounting set with ball catch system; installation possible in different housings: optionally with with trim or recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 48° beam; protection class IP20; PC II; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



tool-free height
adjustment



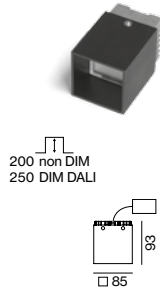
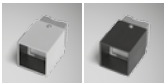
skimmed into plaster-
board ceiling (trimless)

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM / phase-cut	1
DIM DALI	3

MATERIAL COLOUR	
grey lacquered	6
black lacquered	8

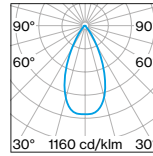


MOVE IT 85 SQUARE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700 K	630 lm	0 6 3 - 0 3 3 0
	3000 K	730 lm	◆ ◆ F

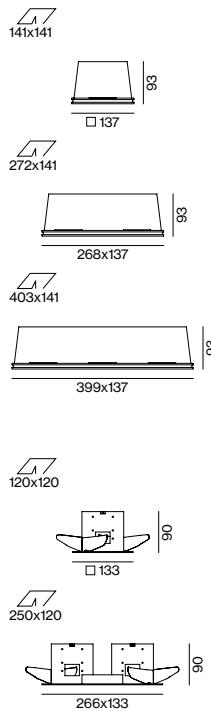
Light distribution



Flood 48°
direct
LOR 81%

Order options

MATERIAL COLOUR	
chrome	4
black	8



Mounting accessories

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	137-137-93	0 6 3 - 0 7 1 1 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	268-137-93	0 6 3 - 0 7 2 1 0 1 7

MOUNTING HOUSING TRIMLESS

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	399-137-93	0 6 3 - 0 7 3 1 0 1 7

for installation in plasterboard ceilings 12/15/25 mm

MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	133-133-90	0 6 3 - 0 7 6 1 0 1 7

MOUNTING HOUSING WITH TRIM

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	266-133-90	0 6 3 - 0 7 7 1 0 1 7

for installation in ceilings 2-25 mm

Inspiration

Office Dağbaşı
Istanbul, Turkey

SOLUTION
MOVE IT SQUARE

LIGHTING DESIGN

DARK
Istanbul, Turkey





GRID-IN

xal.com/grid-in



Quickinfo

GENERAL

recessed
IP20

LED

High-power LED
up to 55lm/W
3000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
lens optics
glare reduction

ELECTRICAL

DIM DALI

PHYSICAL

aluminium composite panel

GRID

page 208

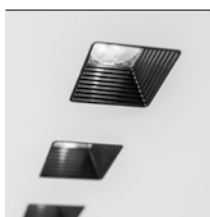


Description

DE Quadratische Leuchte mit Aluminium-Verbundplatte; Leuchtenkörper auf Verbundplatte aufgesetzt; sehr flache Bauform; Einbauleuchte geeignet für Deckenstärken von 10-25 mm; Verbundplatte liegt auf der Decke auf; Oberfläche der Verbundplatte schwarz Hochglanz, weiß Hochglanz oder gebürstetes Aluminium; Leuchtenkörper schwarz eloxiert; Leuchte bestehend aus Leuchtenkörper und Einbaugehäuse; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; zurückversetzte LED Einzellichtpunkte symmetrisch angeordnet; optimale Entblendung durch schwarzen Stufenreflektor; dennoch erhöhte Effizienz durch spezielle Linsentechnik; eingesetzte Linsen mit breiter Strahlungscharakteristik; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar

EN Square luminaire with aluminium composite panel; luminaire housing mounted on composite panel; ultra low-profile design; Recessed luminaire suitable for ceiling thickness of 10-25 mm; composite panel sits on the ceiling; surface of the composite board black or white high gloss or brushed aluminium; Luminaire housing anodised black; luminaire consisting of light housing and recessed housing; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; inset LED single light points arranged symmetrically; optimum glare-free lighting levels by black reflector; nevertheless increased efficiency through special lens technology; inserted lenses with wide radiation characteristic; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable

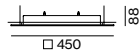
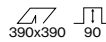
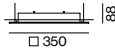
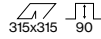
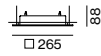
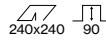
Features



glare-control by
cone-shaped opening

Order options

MATERIAL COLOUR	
brushed aluminium	5
black high gloss	S
white high gloss	H



GRID-IN 250



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	580 lm	0 7 2 - 4 0 2 2 5 3 F

GRID-IN 350



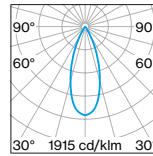
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19 W	3000 K	1000 lm	0 7 2 - 4 0 3 2 5 3 F

GRID-IN 450



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29 W	3000 K	1600 lm	0 7 2 - 4 0 4 2 5 3 F

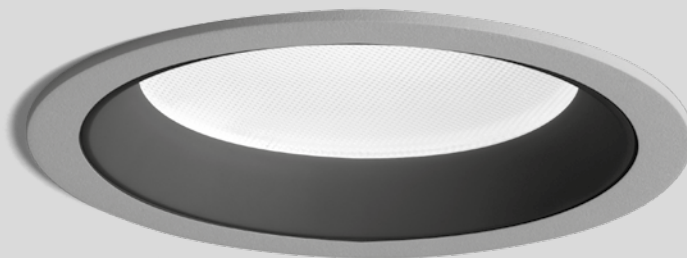
Light distribution



Flood 37°
direct
LOR 80 %

MIRA ROUND

xal.com/mira-round



Quickinfo

GENERAL

recessed
IP20, IP54
optional concrete install. housing

LED

Mid-power LED
up to 116lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
PMMA cover opal, microprismatic

ELECTRICAL

non DIM, DIM DALI
emergency 3h

PHYSICAL

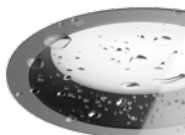
aluminium
powder-coated

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss in 2 verschiedenen Durchmessern; mit umlaufendem Rand; geeignet für Deckenstärken von 2-25mm; Oberfläche grau (Ausblendtubus schwarz) oder weiß pulverbeschichtet; werkzeuglose Montage mittels Schnappfederverschluss; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Leuchtenebene zurückversetzt; homogen ausgeleuchtete oder mikroprismatische Abdeckung aus satiniertem PMMA zur Reduktion der Leuchtdichte; Schutzart IP20, optional IP54; SK II; optional DALI-dimmbar; optional mit LED Notlichtelement mit 3h Akku und Selbsttest

EN Round luminaire housing made of die-cast aluminium in 2 different diameters; with trim, suitable for ceiling thickness of 2-25mm; surface grey (tubular mask black) or white powder coated; installation without tools using snap spring closure; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; lighting level recessed; homogeneously illuminated or micro prismatic satinised PMMA cover for reducing luminance; protection class IP20, optional IP54; PC II; optional DALI dimmable; optional with LED emergency light with 3 h battery and self test

Features



weatherproof
protection

Order options

IP RATING	
IP20	0
IP54	8

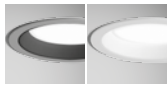
Combination IP54 + emergency not possible

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM / phase-cut*	1
DIM DALI	3

*phase-cut DIM only for 13W / 19W

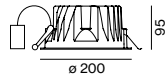
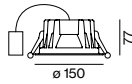
MATERIAL COLOUR	
grey/black	6
white	7



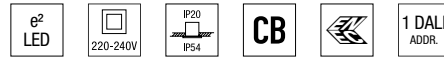
LIGHT OPTIC COVER	
opal	O
microprismatic	P

EMERGENCY	
3h accupack	N L 3

For emergency option use extension.
Example: **052-9320516ONL3**

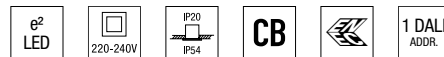


MIRA ROUND 150



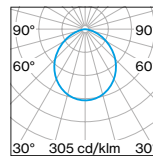
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10W	3000K	1000lm	052-9320
	4000K	1100lm	
13W	3000K	1400lm	052-9321
	4000K	1500lm	
19W	3000K	1900lm	052-9322
	4000K	2000lm	

MIRA ROUND 200

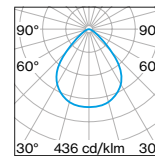


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20W	3000K	2100lm	052-9421
	4000K	2200lm	
28W	3000K	2900lm	052-9422
	4000K	3000lm	

Light distribution



Opal
direct
LOR 74%

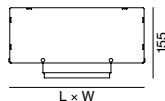


Microprismatic
direct
LOR 77%

Mounting accessories

MOUNTING HOUSING

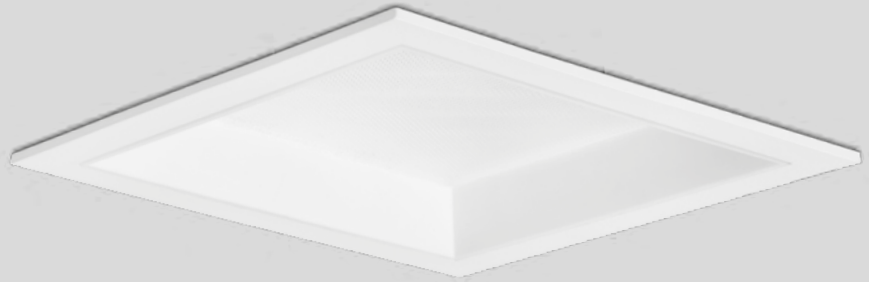
for exposed concrete



TYPE	L-W-H (mm)	ORDER CODE
MIRA 150	296-296-155	052-9903110
MIRA 200	446-446-155	052-9904110

MIRA SQUARE

xal.com/mira-square



Quickinfo

GENERAL

recessed
IP20, IP54
optional concrete install. housing

LED

Mid-power LED
up to 116lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
PMMA cover opal, microprismatic

ELECTRICAL

non DIM, DIM DALI
emergency 3h

PHYSICAL

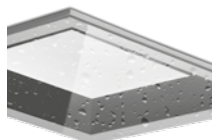
aluminium
powder-coated

Description

DE Quadratischer Leuchtenkörper aus Aluminiumdruckguss in 2 verschiedenen Kantenlängen; mit umlaufendem Rand; geeignet für Deckenstärken von 2-25mm; Oberfläche grau (Ausblendtubus schwarz) oder weiß pulverbeschichtet; werkzeuglose Montage mittels Schnappfederverschluss; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Leuchtenebene zurückversetzt; homogen ausgeleuchtete oder mikroprismatische Abdeckung aus satiniertem PMMA zur Reduktion der Leuchtdichte; Schutzart IP20, optional IP54; SK II; optional DALI-dimmbar; optional mit LED Notlichtelement mit 3h Akku und Selbsttest

EN Square luminaire housing in die-cast aluminium in 2 different diameters; with with trim, suitable for ceiling thickness of 2-25mm; surface grey (tubular mask black) or white powder coated; installation without tools using snap spring closure; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; lighting level recessed; homogeneously illuminated or micro prismatic satinised PMMA cover for reducing luminance; protection class IP20, optional IP54; PC II; optional DALI dimmable; optional with LED emergency light with 3 h battery and self test

Features



weatherproof
protection

Order options

IP RATING	
IP 20	0
IP 54	8

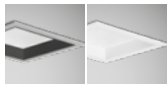
Combination IP54 + emergency not possible

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM / phase-cut*	1
DIM DALI	3

*phase-cut DIM only for 13W | 19W

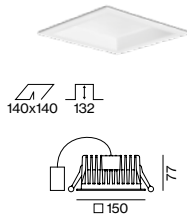
MATERIAL COLOUR	
grey/black	6
white	7



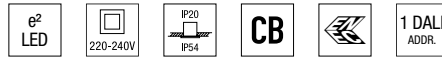
LIGHT OPTIC COVER	
opal	O
microprismatic	P

EMERGENCY	
3h accupack	N L 3

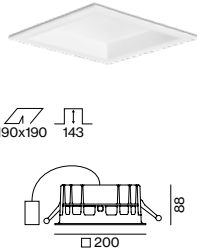
For emergency option use extension.
Example: **052-9340516ONL3**



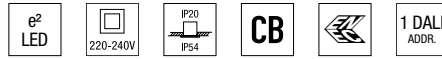
MIRA SQUARE 150



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	3000K	1000lm	0 5 2 - 9 3 4 0 :: ◆ ◆ ◆ ◆ ◆
	4000K	1100lm	
13 W	3000K	1400lm	◆ 5 2 - 9 3 4 1 :: ◆ ◆ ◆ ◆ ◆
	4000K	1500lm	
19 W	3000K	1900lm	0 5 2 - 9 3 4 2 :: ◆ ◆ ◆ ◆ ◆
	4000K	2000lm	

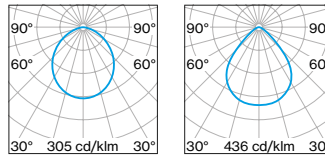


MIRA SQUARE 200



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20 W	3000K	2100lm	◆ 5 2 - 9 4 4 1 :: ◆ ◆ ◆ ◆ ◆
	4000K	2200lm	
28 W	3000K	2900lm	0 5 2 - 9 4 4 2 :: ◆ ◆ ◆ ◆ ◆
	4000K	3000lm	

Light distribution



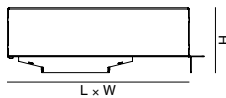
Opal
direct
LOR 74 %

Microprismatic
direct
LOR 77 %

Mounting accessories

MOUNTING HOUSING

for exposed concrete



TYPE	L-W-H (mm)	ORDER CODE
MIRA 150	400-220-143	0 5 2 - 9 9 0 3 3 1 0
MIRA 200	400-260-163	0 5 2 - 9 9 0 4 3 1 0

Inspiration

Raiffeisen Zentralbank
Vienna, Austria

SOLUTION
MIRA SQUARE

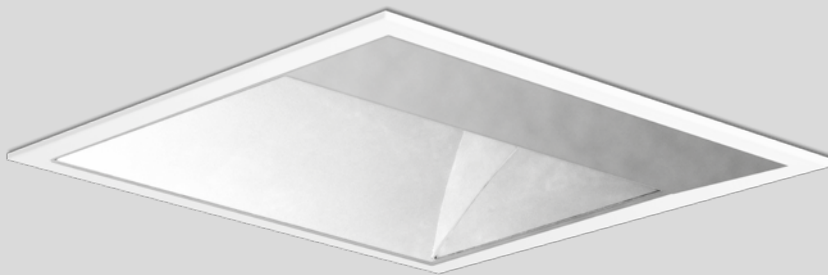
ARCHITECT
mönkemöller und kreppel
Vienna, Austria





WALL MINI

xal.com/wall-mini



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

High-power LED
up to 59 lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

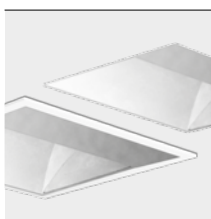
aluminium
powder-coated
low mounting depth

Description

DE Quadratischer Leuchtenkörper aus Aluminium; Wechseleinbaurahmen mit umlaufenden Rand (geeignet für Deckenstärken von 2-25 mm); oder für randlosen Einbau in Gipskartondecken (geeignet für Deckenstärken von 10-25 mm); spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; Oberfläche grau oder weiß pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken; Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Square aluminium luminaire housing; exchange mounting frame with with trim, suitable for ceiling thickness of 2-25 mm; or for trimless installation in plasterboard ceilings, suitable for ceiling thickness of 10-25 mm; special edge design with grooves for better adhesion of filler; surface coated grey or white; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; with specially computed, asymmetrical reflector for homogeneous lighting intensity; reflector in matt anodised aluminium, installation without tools; protection class IP20; PC II; optional DALI dimmable

Features



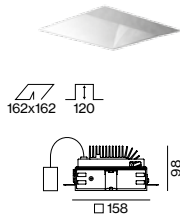
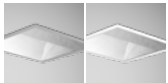
reversible mounting
frame

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
grey	6
white	7

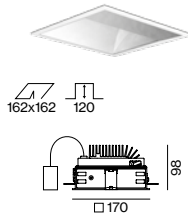


WALL MINI TRIMLESS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22 W	3000 K	1300 lm	0 5 2 - 8 0 1 0 :: 7
	4000 K	1300 lm	

changeable mounting frame for trimless installation or with trim



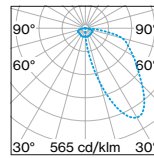
WALL MINI FRAME



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22 W	3000 K	1300 lm	0 5 2 - 8 0 1 0 :: 7
	4000 K	1300 lm	

changeable mounting frame for trimless installation or with trim

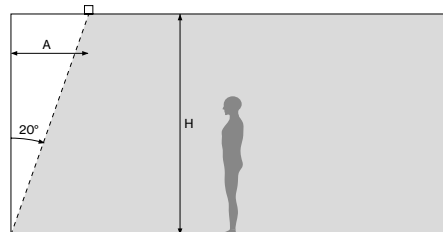
Light distribution



Wallwasher 64°

direct
LOR 75 %

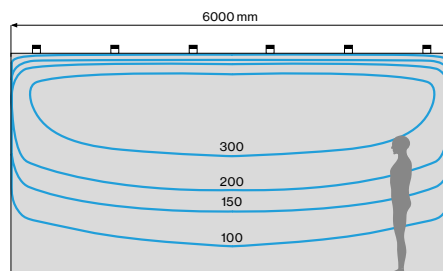
Technical data



ROOM DIMENSIONS

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Em (lx)	E _{max} (lx)
316	556
285	501
237	416



KIS

xal.com/kis



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

COB LED module
up to 62lm/W
3000 K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

beam angle 23°, 36°
lens optics
glare reduction

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; geeignet für Deckenstärken von 2-25mm; Einbau in unterschiedlichen Gehäusen möglich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round spotlight element of die-cast aluminium; installation without tools in mounting set with ball catch system; 355° rotatable and 85° tiltable; surface white or black powder coated; suitable for ceiling thickness of 2-25mm; installation possible in different housings; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000 K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality single lens; precise radiation characteristic with two different beam angles; protection class IP20; PC II; optional DALI dimmable

KIS TRACK

[page 560](#)



Features



lens optics

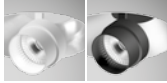


skimmed into plasterboard ceiling (trimless)

Order options

CONTROL	
non DIM	3
DIM DALI	2

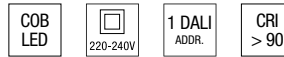
MATERIAL COLOUR	
white	7
black	8



REFLECTOR	
medium 23°	M
flood 36°	F



KIS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	540 lm	049 - 17115
16 W	3000 K	700 lm	049 - 17125

Light distribution

medium 23°			LOR 61%			flood 36°			LOR 55%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2757	ø 0,40	1	1193	ø 0,65	1	298	ø 1,30	1	133	ø 1,95
2	689	ø 0,81	2	298	ø 1,30	2	75	ø 2,60	2	48	ø 3,25
3	306	ø 1,21	3	133	ø 1,95	3	172	ø 2,60	3	110	ø 3,25
4	172	ø 1,61	4	75	ø 2,60	4	110	ø 3,25	4	48	ø 3,25
5	110	ø 2,02	5	48	ø 3,25	5	48	ø 3,25	5	48	ø 3,25

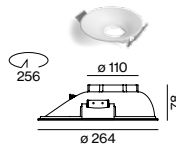
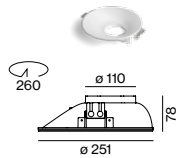
Mounting accessories

RECESSED HOUSING TRIMLESS

CEILING THICKNESS (MM)	ORDER CODE
8-25	049 - 1192217

RECESSED HOUSING WITH TRIM

CEILING THICKNESS (MM)	ORDER CODE
2-25	049 - 1192117



BOOST

xal.com/boost



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20

LED

High-power LED
up to 62lm/W
2700K, 3000K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
lens optics
glare reduction

ELECTRICAL

DIM DALI

PHYSICAL

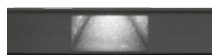
aluminium
anodised
powder-coated

Description

DE Einbauleuchte mit Wechselrahmen für wahlweise Montage mit umlaufendem Rand (geeignet für Deckenstärken von 2-25 mm) oder für randlosen Einbau in Gipskartendecken (geeignet für Deckenstärken von 10-25 mm); Oberfläche weiß pulverbeschichtet oder schwarz eloxiert; Inset schwarz eloxiert; Einbaurahmen für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Blendfrei durch zurückversetzte Linsenoptik und schwarzem Entblendungsvorsatz; hochwertiger Linsenoptik in 2 Ausstrahlwinkeln; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K oder 3000K; CRI > 90; min. 70 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK II; DALI-dimmbar

EN Recessed luminaire with swappable surround for installation with with trim (suitable for ceiling thickness of 2-25 mm) or alternatively trimless installation in plasterboard ceilings (suitable for ceiling thickness of 10-25 mm); surface white powder coated or anodised black; inset black anodised black; mounting frame for installation available in advance; remaining luminaire components mounted without tools; glare-free through inset lens optics and black anti-glare facing; high quality lenses in 2 beam angles; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K or 3000 K; CRI>90; min. 70 % of the luminous flux after 50,000 hours; protection class IP20; PC II; DALI dimmable

Features

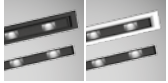


glare-control by
cone-shaped opening

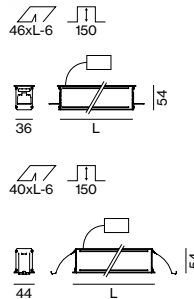
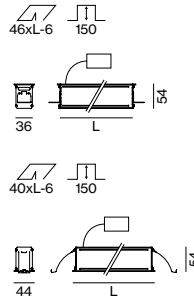
Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

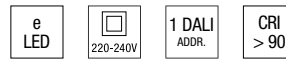
FRAME COLOUR	
white	7
black	8



LED LENS	
spot 21°	S
medium 31°	M



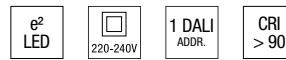
BOOST 700mA



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
7 W	2700 K	390 lm	172	0 5 1 - 7 2 1 0 :: 3 ▣ ▲
	3000 K	430 lm		
15 W	2700 K	780 lm	323	0 5 1 - 7 2 1 1 :: 3 ▣ ▲
	3000 K	860 lm		
29 W	2700 K	1600 lm	623	0 5 1 - 7 2 1 2 :: 3 ▣ ▲
	3000 K	1700 lm		

changeable mounting frame for trimless installation or with trim

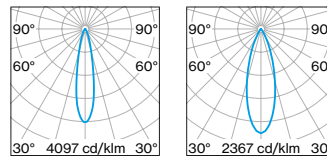
BOOST 1000mA



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11 W	2700 K	510 lm	172	0 5 1 - 7 2 1 0 :: 3 ▣ ▲
	3000 K	560 lm		
21 W	2700 K	1000 lm	323	0 5 1 - 7 2 1 1 :: 3 ▣ ▲
	3000 K	1100 lm		
42 W	2700 K	2100 lm	623	0 5 1 - 7 2 1 2 :: 3 ▣ ▲
	3000 K	2300 lm		

changeable mounting frame for trimless installation or with trim

Light distribution



Spot 21°
direct
LOR 85 %

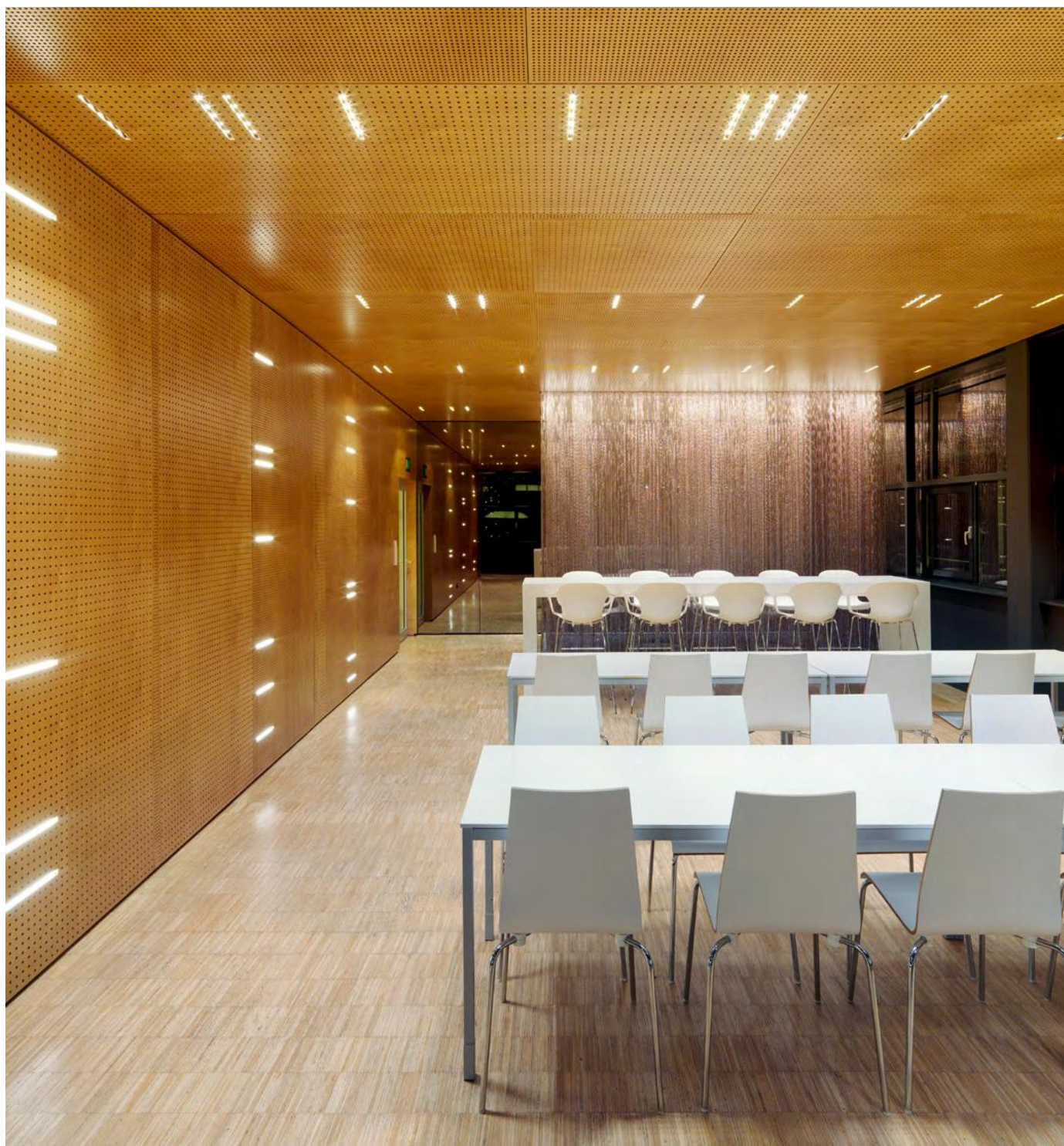
Medium 31°
direct
LOR 84 %

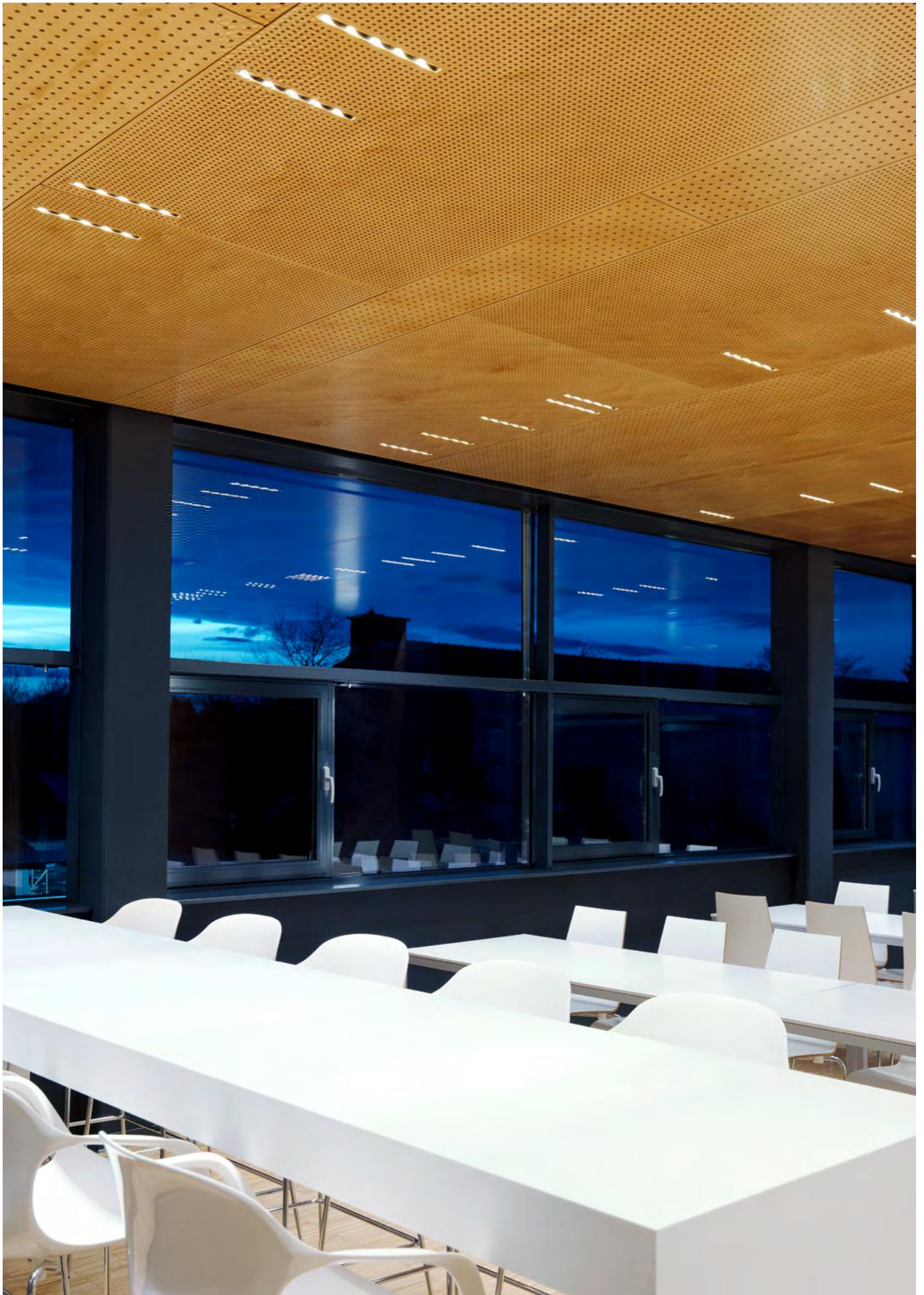
Inspiration

XAL Headquarters
Graz, Austria

SOLUTION
BOOST

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria





Accessories Overview

		SNOOT Ø54mm	SNOOT Ø74mm	SNOOT Ø119mm	LENSES AND HONEYCOMB Ø 54mm	LENSES AND HONEYCOMB Ø 74mm	LENSES AND HONEYCOMB Ø 119mm	ANTI- GLARE ADAPTOR	COLOUR FILTERS Ø105mm	LENSES AND HONEYCOMB Ø 105mm
INVISIBLE ASYM. MINI										
INVISIBLE ASYM. MIDI										
INVISIBLE ASYM. MAXI										
INVISIBLE ROUND MINI										
INVISIBLE ROUND MIDI										
INVISIBLE ROUND MAXI										
INVISIBLE RETRO MINI										
INVISIBLE RETRO MIDI										
INVISIBLE RETRO MAXI										
INVISIBLE SQUARE MINI										
INVISIBLE SQUARE MIDI										
INVISIBLE SQUARE MAXI										
BUBBLE MINI										
BUBBLE MIDI										
BUBBLE MAXI										
SASSO MINI FLUSH SASSO MINI OFFSET										
SASSO MIDI FLUSH SASSO MIDI OFFSET										
SASSO MAXI FLUSH SASSO MAXI OFFSET										
KARO MINI KARO FRAME MINI										
KARO MIDI KARO FRAME MIDI										
KARO MAXI KARO FRAME MAXI										
ARGO										

Order options

MATERIAL COLOUR	
silver-grey (not for Ø 119 mm)	6
white	7
black	8
gold (not for Ø 119 mm)	9



SNOOT

TYPE	Ø-H (mm)	ORDER CODE
snoot	54-25	048 - 209111
snoot with honeycomb louver	54-25	048 - 209121



SNOOT

TYPE	Ø-H (mm)	ORDER CODE
snoot	74-25	048 - 219111
snoot with honeycomb louver	74-25	048 - 219121



SNOOT

TYPE	Ø-H (mm)	ORDER CODE
snoot	119-25	048 - 229111
snoot with honeycomb louver	119-25	048 - 229121



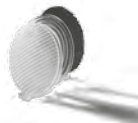
LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	54-11	048 - 209131
linear prismatic lens	54-11	048 - 209231



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	74-11	048 - 219131
linear prismatic lens	74-11	048 - 219231



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	119-11	048 - 229131
linear prismatic lens	119-11	048 - 229231



ANTI-GLARE ADAPTOR

TYPE	Ø-H (mm)	ORDER CODE
white 65°	106-65	005 - 07107
black 65°	106-65	005 - 07108
white	106-65	005 - 07117
black	106-65	005 - 07118



COLOUR AND PROTECTION FILTER

TYPE	Ø-H (mm)	ORDER CODE
■ dichroic colour filter	105-3	006 - 92231
■ dichroic colour filter	105-3	006 - 92232
■ dichroic colour filter	105-3	006 - 92233
■ dichroic colour filter	105-3	006 - 92234
UV protection filter	105-3	006 - 92235
IR protection filter	105-3	006 - 92236



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
sculpture lens	105-3	006 - 92237
flood lens clear	105-3	006 - 92238
honeycomb louver	105-3	006 - 93132

02



EINBAULEUCHTEN / WALLWASHER RECESSED LUMINAIRES / WALLWASHER



**SONO FLEX
 TRIMLESS**
 → 128



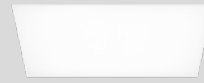
SONO FLEX
 → 132



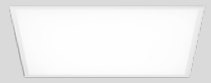
**MENO
 ROUND**
 → 136



**COMBO
 ROUND**
 → 140



**MENO
 SQUARE**
 → 144



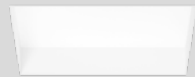
**COMBO
 SQUARE**
 → 146



**VELA
 RECESSED**
 → 148



**INVISIBLE
 ROUND**
 → 150



**INVISIBLE
 SQUARE**
 → 154



BUBBLE
 → 156



**SENIC
 FLUSH**
 → 160



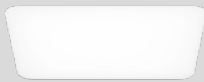
**SENIC
 JUT-OUT**
 → 162



TRAPEZ
 → 164



**MENO
 TRIANGLE**
 → 168



**MENO
 RETRO**
 → 170



**CANYON
 60 / 100**
 → 172



**CANYON
 60 DOT**
 → 174



**CANYON
 FRAME 80 / 120**
 → 176



**MINIMAL
 40 / 60 / 100**
 → 180



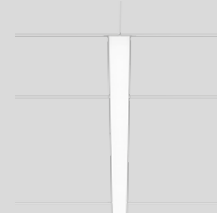
**FRAME
 55 / 80 / 120**
 → 184



**MINIMAL
 WALLWASHER**
 → 188



**FRAME
 WALLWASHER**
 → 192



MINO X
 → 194

SONO FLEX TRIMLESS

xal.com/sono-flex-trimless



Quickinfo

GENERAL

recessed
IP50
optional concrete install. housing

LED

Mid-power LED
up to 128 lm/W
3000 K, 4000 K, tunable white
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

SONO FLEX
TRIMLESS IP54
[page 598](#)



Description

DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25 mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP50; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing suitable for the trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP50; PC I; optional DALI dimmable with CLO or RCS function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



tool-free installation of light engine



flexible flush or jut-out installation



IP50 (dust and insect protection)



skimmed into plasterboard ceiling (trimless)

Order Options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

Combination RCS + emergency not possible

MATERIAL COLOUR

white



EMERGENCY

1h accupack	N L 1
3h accupack	N L 3

Combination emergency + RCS not possible



SONO FLEX 350 TRIMLESS



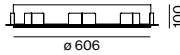
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	940lm	0 6 3 - 2 2 3 9 ☉ ☉ 7 0
	4000K (☉)	980lm	
15W e ²	3000K (☉)	1700lm	0 6 3 - 2 2 3 8 ☉ ☉ 7 0 ●
	4000K (☉)	1800lm	
15W e ²	tunable white (2 DALI)		0 6 3 - 2 2 3 8 0 3 7 0



SONO FLEX 450 TRIMLESS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1400lm	0 6 3 - 2 2 4 9 ☉ ☉ 7 0
	4000K (☉)	1500lm	
23W e ²	3000K (☉)	2600lm	0 6 3 - 2 2 4 8 ☉ ☉ 7 0 ●
	4000K (☉)	2800lm	
23W e ²	tunable white (2 DALI)		0 6 3 - 2 2 4 8 0 3 7 0

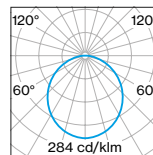


SONO FLEX 600 TRIMLESS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	2900lm	0 6 3 - 2 2 5 9 ☉ ☉ 7 0
	4000K (☉)	3000lm	
43W e ²	3000K (☉)	5000lm	0 6 3 - 2 2 5 8 ☉ ☉ 7 0
	4000K (☉)	5200lm	
43W e ²	tunable white (2 DALI)		0 6 3 - 2 2 5 8 0 3 7 0

Light distribution



Opal
direct
LOR 79%

Accessories

INSTALLATION TEMPLATE

TYPE	ORDER CODE
SONO FLEX TRIMLESS 350	0 6 3 - 2 2 3 0 0 0 0
SONO FLEX TRIMLESS 450	0 6 3 - 2 2 4 0 0 0 0
SONO FLEX TRIMLESS 600	0 6 3 - 2 2 5 0 0 0 0

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX TRIMLESS 350	350-107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX TRIMLESS 450	450-107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX TRIMLESS 600	600-107	0 6 3 - 2 2 5 8 1 0 0



Inspiration

Dental Surgery Dr. Rossi
Ludwigshafen, Germany

SOLUTION
SONO FLEX TRIMLESS

ARCHITECT
Wüst Praxis- und
Inneneinrichtungen
Pforzheim, Germany

LIGHTING DESIGN
DECOLUX Lichttechnik
Pforzheim, Germany





SONO FLEX

xal.com/sono-flex



Quickinfo

GENERAL

recessed
IP50
optional concrete install. housing

LED

Mid-power LED
up to 128 lm/W
3000 K, 4000 K, tunable white
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

SONO FLEX

IP54
[page 600](#)



Description

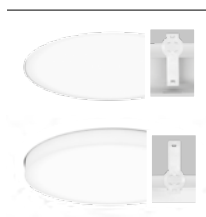
DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse mit umlaufendem Rand geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25 mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP50; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing with trim suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP50; PC I; optional DALI dimmable with CLO or RCS function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



tool-free installation of light engine



flexible flush or jut-out installation



IP50 (dust and insect protection)

Order Options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

Combination RCS + emergency not possible

MATERIAL COLOUR

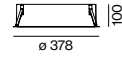
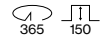
white



EMERGENCY

1h accupack	N L 1
3h accupack	N L 3

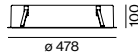
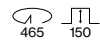
Combination emergency + RCS not possible



SONO FLEX 350

e/e ² LED	220-240V	IP50	1 DALI ADDR.	6,0 kg
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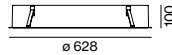
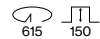
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	940lm	0 6 3 - 3 2 3 9 :: 7 0
	4000K (☉)	980lm	
15W e ²	3000K (☉)	1700lm	0 6 3 - 3 2 3 8 :: 7 0 ●
	4000K (☉)	1800lm	
15W e ²	tunable white (2 DALI)		0 6 3 - 3 2 3 8 0 3 7 0



SONO FLEX 450

e/e ² LED	220-240V	IP50	1 DALI ADDR.	8,1 kg
----------------------	----------	------	--------------	--------

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1400lm	0 6 3 - 3 2 4 9 :: 7 0
	4000K (☉)	1500lm	
23W e ²	3000K (☉)	2600lm	0 6 3 - 3 2 4 8 :: 7 0 ●
	4000K (☉)	2800lm	
23W e ²	tunable white (2 DALI)		0 6 3 - 3 2 4 8 0 3 7 0

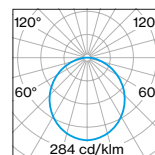


SONO FLEX 600

e/e ² LED	220-240V	IP50	1 DALI ADDR.	13,2 kg
----------------------	----------	------	--------------	---------

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	2900lm	0 6 3 - 3 2 5 9 :: 7 0
	4000K (☉)	3000lm	
43W e ²	3000K (☉)	5000lm	0 6 3 - 3 2 5 8 :: 7 0
	4000K (☉)	5200lm	
43W e ²	tunable white (2 DALI)		0 6 3 - 3 2 5 8 0 3 7 0

Light distribution

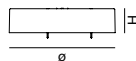


Opal
direct
LOR 79%

Accessories

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX 350	350·107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX 450	450·107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX 600	600·107	0 6 3 - 2 2 5 8 1 0 0



Inspiration

Dermatologic Clinic
Portugal

SOLUTION
SONO FLEX 350, 450

ARCHITECT

José Martinez Silva
Ateliercentral Arquitectos
Lisbon, Portugal

LIGHTING DESIGN

Lightlab and José Martinez Silva
Ateliercentral Arquitectos
Lisbon, Portugal





MENO ROUND

xal.com/meno-round



Quickinfo

GENERAL

recessed
IP20
optional concrete install. housing

LED

Mid-power LED
up to 135lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; bis Ø 450 Leuchtengehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; bis Ø 450: hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; up to 450: LED circuit board with highly reflective coating for improved efficiency; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; up to Ø 450: highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



skimmed into plasterboard ceiling (trimless)

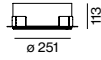
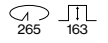
Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

LIGHT OPTIC COVER	
opal	O
microprismatic	P

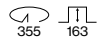
EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



MENO ROUND 260

e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	2,5 kg
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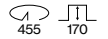
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W e ²	3000K	720lm	0 6 3 - 2 2 2 6 :: 7 □
	4000K	760lm	



MENO ROUND 350

e/e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	3,5 kg
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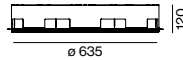
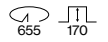
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W e	3000K	910lm	0 6 3 - 2 2 3 7 :: 1 7 □
	4000K	960lm	
10 W e ²	3000K	1200lm	0 6 3 - 2 2 3 6 :: 7 □
	4000K	1300lm	



MENO ROUND 450

e/e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	5,0 kg
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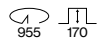
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W e	3000K	1500lm	0 6 3 - 2 2 4 7 :: 1 7 □
	4000K	1600lm	
18 W e ²	3000K	2200lm	0 6 3 - 2 2 4 6 :: 7 □ ●
	4000K	2300lm	



MENO ROUND 650

e/e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	9,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W e	3000K	3000lm	0 6 3 - 2 2 6 7 :: 1 7 □
	4000K	3200lm	
38 W e ²	3000K	4700lm	0 6 3 - 2 2 6 6 :: 7 □
	4000K	4900lm	



MENO ROUND 950

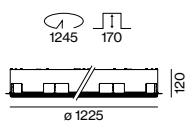
e/e ² LED	220-240V	UGR <19	CB		2 DALI ADDR.	19,0 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47 W e	3000K	6000lm	0 6 3 - 2 2 7 7 :: 1 7 □
	4000K	6300lm	
83 W e ²	3000K	10200lm	0 6 3 - 2 2 7 6 :: 7 □
	4000K	10700lm	

Order options

COLOUR TEMPERATURE	
3000 K	5
4000 K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

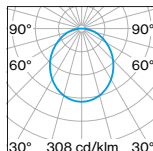


MENO ROUND 1250

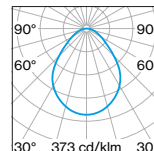


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
79 W e	3000 K	10200 lm	0 6 3 - 2 2 8 7 :: 1 7 0
	4000 K	10700 lm	
162 W e²	3000 K	20100 lm	0 6 3 - 2 2 8 6 :: 7 0
	4000 K	21000 lm	

Light distribution



Opal
direct
LOR 82%



Microprismatic
direct
LOR 75%

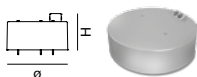
Accessories

INSTALLATION TEMPLATE



TYPE	ORDER CODE
MENO ROUND 450	0 1 8 - 6 9 0 4 5
MENO ROUND 650	0 1 8 - 6 9 0 6 5
MENO ROUND 950	0 1 8 - 6 9 0 9 5
MENO ROUND 1250	0 1 8 - 6 9 1 2 0

CONCRETE INSTALLATION HOUSING



TYPE	Ø-H (mm)	ORDER CODE
MENO ROUND 260	268-160	0 1 8 - 6 9 0 1 5
MENO ROUND 350	358-160	0 1 8 - 6 9 0 1 6
MENO ROUND 450	462-166	0 1 8 - 6 9 0 1 7

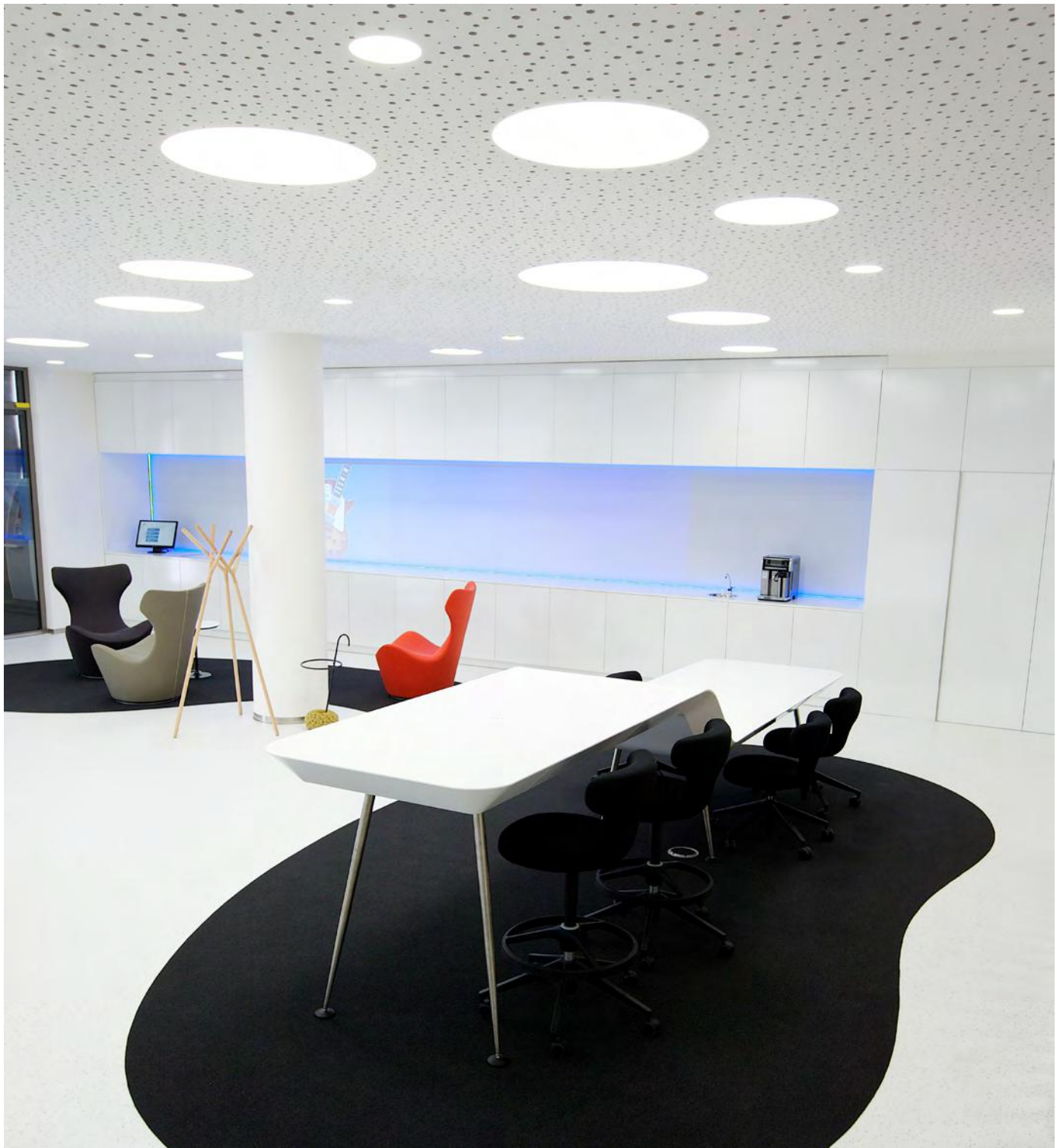
Inspiration

CSOB Bank
Prague, Czech Republic

SOLUTION
MENO ROUND

ARCHITECT
Adam Jirkal, Atelier SAD
Prague, Czech Republic

LIGHTING DESIGN
U1 Lighting
Prague, Czech Republic



COMBO ROUND

xal.com/combo-round



Quickinfo

GENERAL

recessed
IP20
optional concrete install. housing

LED

Mid-power LED
up to 135lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium mit umlaufendem Rand; geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 2-25 mm; Oberfläche weiß pulverbeschichtet; bis Ø 450 Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; bis Ø 450: hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in aluminium with trim; suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 2-25 mm; surface white powder coated; up to 450: LED circuit board with highly reflective coating for improved efficiency; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; up to Ø 450: highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

LIGHT OPTIC COVER	
opal	O
microprismatic	P

EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



COMBO ROUND 260

e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	2,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W e ²	3000K	720lm	0 6 3 - 3 2 2 6 :: 7 □
	4000K	760lm	



COMBO ROUND 350

e/e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	3,0 kg
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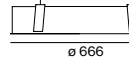
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W e	3000K	910lm	0 6 3 - 3 2 3 7 :: 1 7 □
	4000K	960lm	
10 W e ²	3000K	1200lm	0 6 3 - 3 2 3 6 :: 7 □
	4000K	1300lm	



COMBO ROUND 450

e/e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	6,0 kg
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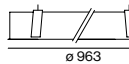
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W e	3000K	1500lm	0 6 3 - 3 2 4 7 :: 1 7 □
	4000K	1600lm	
18 W e ²	3000K	2200lm	0 6 3 - 3 2 4 6 :: 7 □ ●
	4000K	2300lm	



COMBO ROUND 650

e/e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	10,0 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W e	3000K	3000lm	0 6 3 - 3 2 6 7 :: 1 7 □
	4000K	3200lm	
38 W e ²	3000K	4700lm	0 6 3 - 3 2 6 6 :: 7 □
	4000K	4900lm	



COMBO ROUND 950

e/e ² LED	220-240V	UGR < 19	CB		2 DALI ADDR.	19,0 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47 W e	3000K	6000lm	0 6 3 - 3 2 7 7 :: 1 7 □
	4000K	6300lm	
83 W e ²	3000K	10200lm	0 6 3 - 3 2 7 6 :: 7 □
	4000K	10700lm	

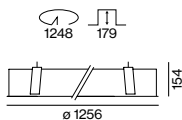
Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DIM DALI / CLO	3

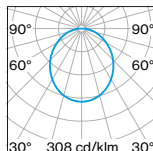


COMBO ROUND 1250

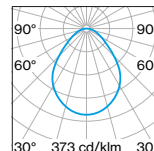


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
79 W e	3000 K	10200 lm	0 6 3 - 3 2 8 7 :: 1 7 0
	4000 K	10700 lm	
162 W e²	3000 K	20100 lm	0 6 3 - 3 2 8 6 :: 7 0
	4000 K	21000 lm	

Light distribution



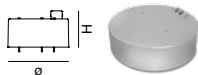
Opal
direct
LOR 82%



Microprismatic
direct
LOR 75%

Accessories

CONCRETE INSTALLATION HOUSING



TYPE	Ø-H (mm)	ORDER CODE
COMBO ROUND 260	268-160	0 6 1 - 9 9 0 0 6
COMBO ROUND 350	358-160	0 6 1 - 9 9 0 0 7
COMBO ROUND 450	462-166	0 6 1 - 9 9 0 0 8

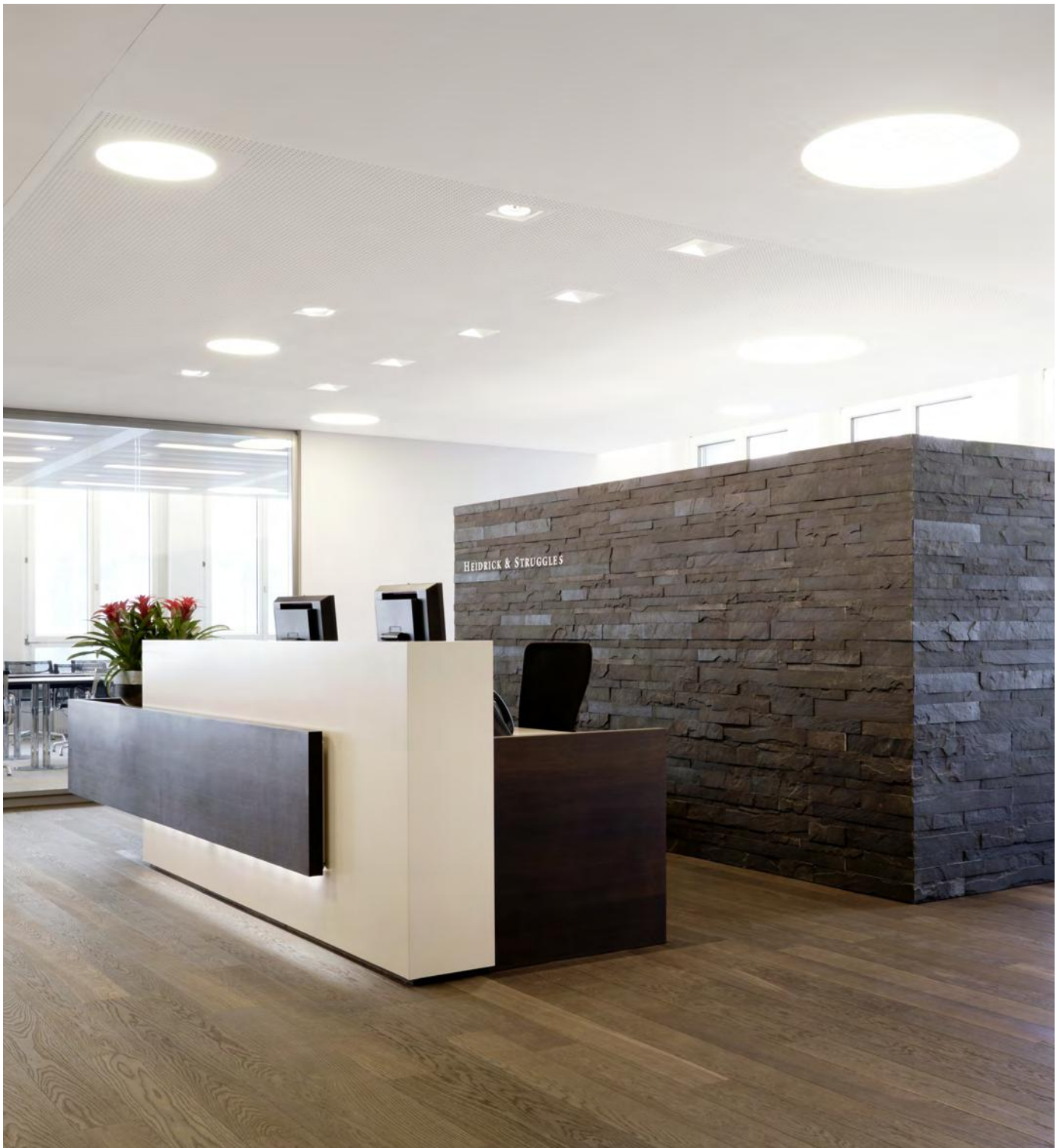
Inspiration

Office
Zurich, Switzerland

SOLUTION
COMBO ROUND

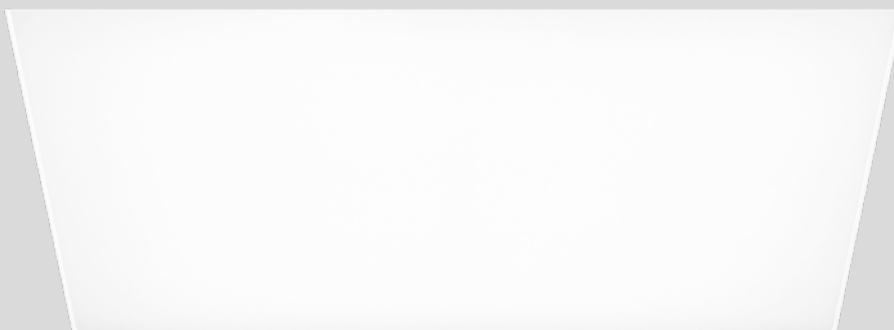
ARCHITECT
m3 Architekten AG
Zurich, Switzerland

LIGHTING DESIGN
m3 Architekten AG
Zurich, Switzerland



MENO SQUARE

xal.com/meno-square



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 123lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Square aluminium luminaire housing; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire housing for ceiling installation available in advance; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; same light density for all surface lights with the same components; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1h or 3h battery and self test

Features



skimmed into plasterboard ceiling (trimless)

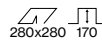
Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

LIGHT OPTIC COVER	
opal	O
microprismatic	P

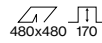
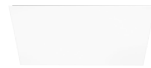
EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



MENO SQUARE 250

e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	3,0 kg
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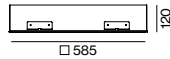
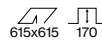
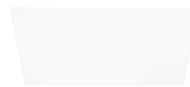
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000K 4000K	790lm 830lm	0 6 3 - 2 5 2 6 :: 7 □



MENO SQUARE 450

e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	7,0 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23 W	3000K 4000K	2700lm 2800lm	0 6 3 - 2 5 4 6 :: 7 □ ●

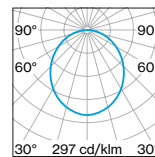


MENO SQUARE 600

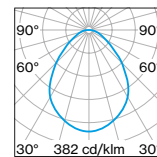
e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	11,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36 W	3000K 4000K	4200lm 4400lm	0 6 3 - 2 5 5 6 :: 7 □

Light distribution



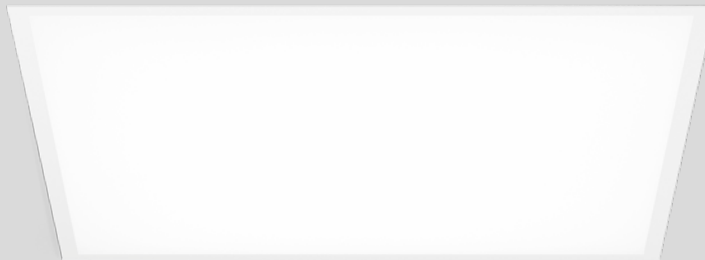
Opal
direct
LOR 80 %



Microprismatic
direct
LOR 75 %

COMBO SQUARE

xal.com/combo-square



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 122lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium mit umlaufendem Rand; geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 2-25mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Variante 595 bzw. 600 abgestimmt für den Einbau in Moduldecken M600 bzw. M625; Inset bestehend aus Konvertereinheit und Platineinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Square aluminium luminaire housing with trim; suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 2-25mm; surface white powder coated; luminaire housing for ceiling installation available in advance; variant 595 and 600 adapted for installation in grid ceilings M600 or M625; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; same light density for all surface lights with the same components; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1h or 3h battery and self test

Order options

COLOUR TEMPERATURE

3000K	5
4000K	6

CONTROL

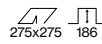
non DIM	1
DIM DALI / CLO	3

LIGHT OPTIC COVER

opal	O
microprismatic	P

EMERGENCY

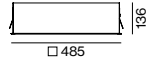
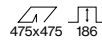
1h accupack	NL 1
3h accupack	NL 3



COMBO SQUARE 250



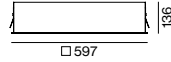
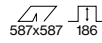
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000K	790lm	0 6 3 - 3 5 2 6 :: 7 □
	4000K	830lm	



COMBO SQUARE 450



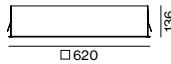
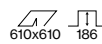
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23 W	3000K	2700lm	0 6 3 - 3 5 4 6 :: 7 □ ●
	4000K	2800lm	



COMBO SQUARE 595



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36 W	3000K	4200lm	0 6 3 - 3 5 5 6 :: 7 □
	4000K	4400lm	

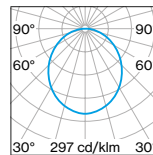


COMBO SQUARE 600

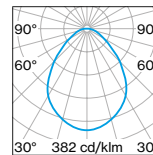


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36 W	3000K	4200lm	0 6 3 - 3 5 6 6 :: 7 □
	4000K	4400lm	

Light distribution



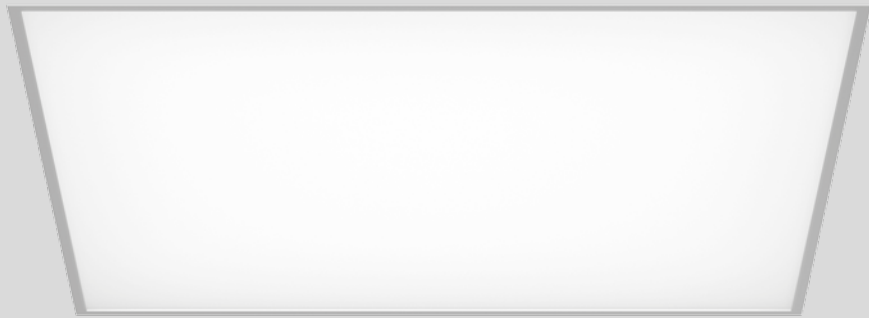
Opal
direct
LOR 80 %



Microprismatic
direct
LOR 75 %

VELA RECESSED

xal.com/vela-recessed



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 123lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

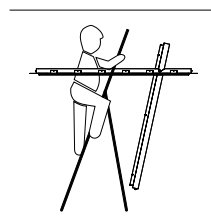
anodised aluminium
halogen-free cable

Description

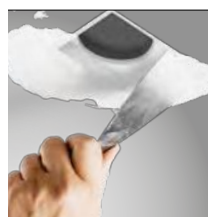
DE Quadratischer Leuchtenkörper aus Aluminium; Einbauleuchte mit umlaufender Schattenfuge und sichtbarer Profilkante; Oberfläche Aluminium Natur eloxiert; Einbauset für Gipskartondecken ohne sichtbaren Rand für Deckenstärken 12,5 oder 15 mm verfügbar; Leuchtenkörper für einfache Wartung aus Einbauset ausschwenkbar; als Revisionsöffnung einsetzbar; einfache elektrische Montage durch Steckverbindungen; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Square aluminium luminaire housing; Recessed luminaire with shadow joint and visible edge profile; surface with natural anodised aluminium finish; installation set for plasterboard ceilings without visible rim available for ceiling thickness of 12.5 or 15 mm; Luminaire housing with swing out installation set for easy maintenance; can be used as inspection hatch; easy electrical installation by plug-in connections; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



inspection opening



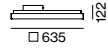
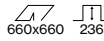
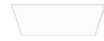
skimmed into plasterboard ceiling (trimless)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

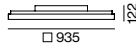
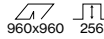
EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



VELA RECESSED 600



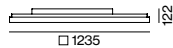
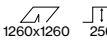
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23W e	3000K	2700lm	0 6 3 - 9 8 6 7 :: 1 6 0
47W e²	3000K	5100lm	0 6 3 - 9 8 6 6 :: 6 0 ●
	4000K	5300lm	



VELA RECESSED 900



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
51W e	3000K	6000lm	0 6 3 - 9 8 7 7 :: 1 6 0
105W e²	3000K	11400lm	0 6 3 - 9 8 7 6 :: 6 0
	4000K	11900lm	

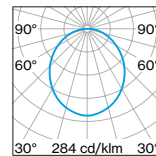


VELA RECESSED 1200



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
91W e	3000K	10700lm	0 6 3 - 9 8 8 7 :: 1 6 0
187W e²	3000K	20300lm	0 6 3 - 9 8 8 6 :: 6 0
	4000K	21200lm	

Light distribution



Opal
direct
LOR 76 %

Accessories

INSTALLATION TEMPLATE

TYPE	ORDER CODE
VELA 600	0 9 9 - 0 0 2 0 0
VELA 900	0 9 9 - 0 0 2 0 2
VELA 1200	0 9 9 - 0 0 2 2 0

INSTALLATION FRAME

for trimless installation in plasterboard ceilings 12,5 or 15mm

TYPE	ORDER CODE
VELA 600	0 6 6 - 5 0 0 6
VELA 900	0 6 6 - 5 0 0 9
VELA 1200	0 6 6 - 5 0 1 2

required for mounting

Order options

CEILING THICKNESS	
12,5mm	0
15mm	2



INVISIBLE ROUND

xal.com/invisible-round



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 130 lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
uniform illumination
offset PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

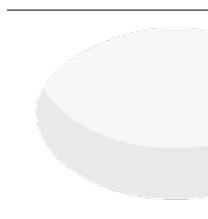
DE Runder Leuchtenkörper aus Aluminium, ruhiges Deckenbild durch zurückversetzte Leuchtenebene; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung, werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round aluminium light housing, uncluttered ceiling look through inset lighting level; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire housing for ceiling installation available in advance; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover, removable without tools for easy maintenance; same light density for all surface lights with the same components; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



skimmed into plasterboard ceiling (trimless)



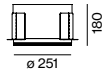
offset installation of luminaire

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

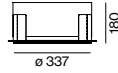
EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



INVISIBLE ROUND 260



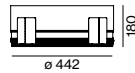
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W	3000K 4000K	650lm 680lm	0 6 3 - 5 2 2 6 :: 7 0



INVISIBLE ROUND 350



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	3000K 4000K	1100lm 1200lm	0 6 3 - 5 2 3 6 :: 7 0

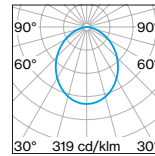


INVISIBLE ROUND 450



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
18 W	3000K 4000K	2000lm 2100lm	0 6 3 - 5 2 4 6 :: 7 0 ●

Light distribution



Opal
direct
LOR 75 %

Accessories

INSTALLATION TEMPLATE

TYPE	ORDER CODE
INVISIBLE ROUND 450	0 1 8 - 6 9 0 4 5



Inspiration

Private Residence
Linz, Austria

SOLUTION
INVISIBLE ROUND
DISC-O SUSPENDED

ARCHITECT
archinauten - dworschak +
mühlbachler architekten zt gmbh
Linz, Austria

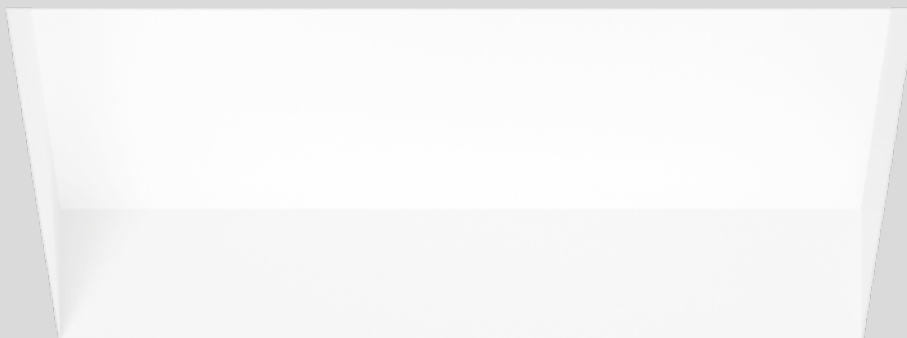
LIGHTING DESIGN
Hross & Partner GmbH
Traun, Austria





INVISIBLE SQUARE

xal.com/invisible-square



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 119lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
offset PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium, ruhiges Deckenbild durch zurückversetzte Leuchtenebene; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung, werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Square aluminium luminaire housing, uncluttered ceiling look through inset lighting level; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25mm; surface white powder coated; luminaire housing for ceiling installation available in advance; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover, removable without tools for easy maintenance; same light density for all surface lights with the same components; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



skimmed into plasterboard ceiling (trimless)



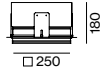
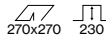
offset installation of luminaire

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

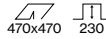
EMERGENCY	
1h accupack	N L 1
3h accupack	N L 3



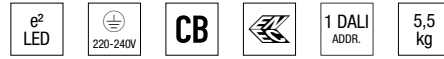
INVISIBLE SQUARE 250



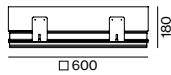
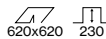
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000K 4000K	780lm 820lm	0 6 3 - 5 5 0 6 :: 7 0



INVISIBLE SQUARE 450



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
26 W	3000K 4000K	3000lm 3100lm	0 6 3 - 5 5 2 6 :: 7 0 ●

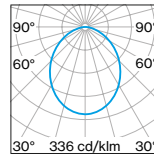


INVISIBLE SQUARE 600



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47 W	3000K 4000K	5300lm 5500lm	0 6 3 - 5 5 3 6 :: 7 0

Light distribution



Opal
direct
LOR 79 %

BUBBLE

xal.com/bubble



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 130 lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
uniform illumination
offset PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h / 3h

PHYSICAL

gypsum housing
luminaire housing aluminium
halogen-free cable

Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (übermalbar) mit aufgesetztem Leuchtenkörper aus Aluminium; geeignet für randlosen Einbau in Gipskartondecken in den Stärken 12,5, 15 oder 25 mm; Bubblegehäuse und Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineinheit; werkzeuglose mechanische und elektrische Verbindung mittels Drehverschluss und verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung, werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Hyperbolic shaped, square recessed housing made of plaster (paintable) with mounted aluminium luminaire housing; suitable for trimless installation in plasterboard ceilings with thickness of 12,5, 15 or 25 mm; Bubble and luminaire housing for recessed mounting available in advance; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using twist closure and reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover, removable without tools for easy maintenance; same light density for all surface lights with the same components; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



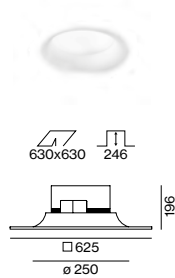
skimmed into plasterboard ceiling (trimless)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

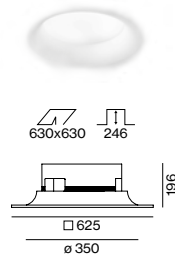
EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



BUBBLE 250



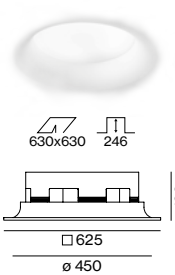
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W	3000K 4000K	680lm 710lm	0 6 3 - 9 1 2 6 :: 7 0



BUBBLE 350



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	3000K 4000K	1100lm 1200lm	0 6 3 - 9 1 3 6 :: 7 0

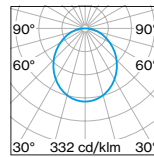


BUBBLE 450



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
18 W	3000K 4000K	2000lm 2100lm	0 6 3 - 9 1 4 6 :: 7 0 ●

Light distribution



Opal
direct
LOR 78 %

Inspiration

Sparkasse
Dachau, Germany

SOLUTION
BUBBLE
TASK SUSPENDED

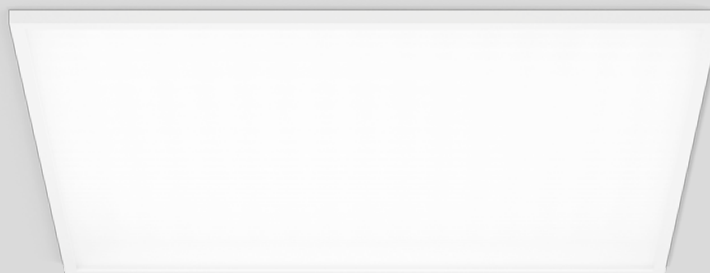
ARCHITECT
G.H.K Architekten
Dachau, Germany





SENIC FLUSH

xal.com/senic-flush



Quickinfo

GENERAL

recessed

IP20

several mounting options

LED

Mid-power LED

up to 127 lm/W

3000 K, 4000 K, tunable white

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination

PMMA cover

microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

DALI: CLO

PHYSICAL

sheet steel

lacquered

halogen-free cable

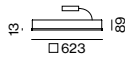
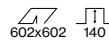
Description

DE Quadratisches bzw. rechteckiges Leuchtgehäuse aus lackiertem Stahlblech; mit umlaufendem Rand; geeignet für Deckenstärken von 3-28 mm; abgestimmt für den Einbau in Moduldecken M625; Oberfläche weiß; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; mikroprismatische PMMA Abdeckung; werkzeuglos abnehmbar für einfache Wartung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK II; optional DALI-dimmbar mit CLO-Funktion

EN Square or rectangular luminaire housing in colour coated sheet steel; with trim; suitable for ceiling thickness of 3-28 mm; suitable for installation in M625 modular ceilings; surface white; highly reflective coating for improved efficiency; micro prismatic PMMA cover; removable without tools for easy maintenance; completely homogeneous illumination; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC II; optional DALI dimmable with CLO function;

Order options

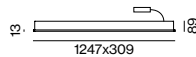
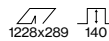
COLOUR TEMPERATURE	
3000K	5
4000K	6
CONTROL	
non DIM	1
DIM DALI / CLO	3



SENIC 620 FLUSH



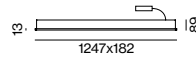
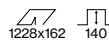
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33W	3000K	4000lm	0 5 9 - 3 1 1 1 1 : : 7 P
33W	4000K	4200lm	0 5 9 - 3 1 1 1 0 3 7 P
	tunable white (2 DALI)		



SENIC 310 FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33W	3000K	4000lm	0 5 9 - 3 1 1 5 : : 7 P
33W	4000K	4200lm	0 5 9 - 3 1 1 5 0 3 7 P
	tunable white (2 DALI)		

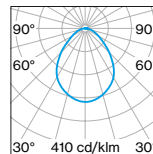


SENIC 180 FLUSH



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17W	3000K	2000lm	0 5 9 - 3 1 1 6 : : 7 P
17W	4000K	2100lm	0 5 9 - 3 1 1 6 0 3 7 P
	tunable white (2 DALI)		

Light distribution



Microprismatic
direct
LOR 81%

Accessories

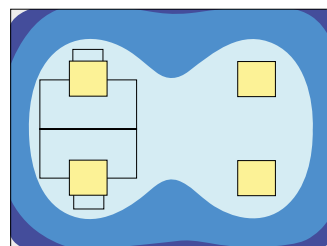
MOUNTING SET

for installation in plasterboard ceilings 10-28 mm



TYPE	ORDER CODE
mounting set (4 pcs.)	0 5 9 - 3 0 1 1 0 0 0

Technical data



SENIC 620 FLUSH 33W GLARE EVALUATION

Room dimensions	5.4 x 4.05 x 2.7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

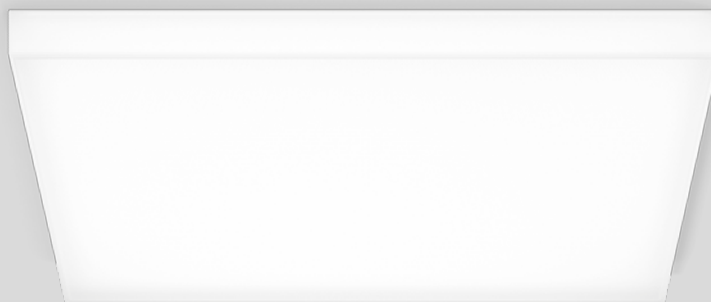
UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²



SENIC JUT-OUT

xal.com/senic-jut-out



Quickinfo

GENERAL

recessed
IP20
several mounting options

LED

Mid-power LED
up to 136lm/W
3000K, 4000K, tunable white
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

sheet steel
lacquered
halogen-free cable

Description

DE Quadratisches bzw. rechteckiges Leuchtgehäuse aus lackiertem Stahlblech; mit umlaufendem Rand; geeignet für Deckenstärken von 3-28mm; abgestimmt für den Einbau in Moduldecken M625; integrierte Deckenbefestigung mit Klappmechanismus gewährleistet eine besonders einfache und komfortable Montage; Oberfläche weiß; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; mikroprismatische PMMA Abdeckung; mit vierseitiger Lichtabstrahlung und leichter Deckenaufhellung für mehr Sehkomfort; werkzeuglos abnehmbar für einfache Wartung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK II; optional DALI-dimmbar mit CLO-Funktion

EN Square or rectangular luminaire housing in colour coated sheet steel; with trim; suitable for ceiling thickness of 3-28mm; suitable for installation in M625 modular ceilings; integrated ceiling mounting with folding mechanism ensures a particularly simple and convenient installation; surface white; highly reflective coating for improved efficiency; micro prismatic PMMA cover; with four-sided light beam and gentle ceiling lighting for more visual comfort; removable without tools for easy maintenance; completely homogeneous illumination; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC II; optional DALI dimmable with CLO function

Features

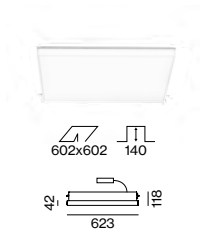


jut-out installation

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

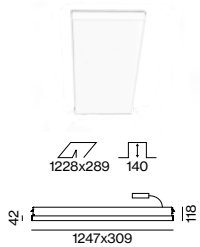
CONTROL	
non DIM	1
DIM DALI / CLO	3



SENIC 620 JUT-OUT

e ² LED	220-240V	UGR <19	CB	1 DALI ADDR.	9,0 kg
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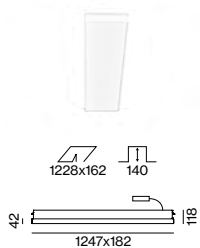
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33W	3000K	4300lm	0 5 9 - 3 1 3 1 : : 7 P
33W	4000K	4500lm	0 5 9 - 3 1 3 1 0 3 7 P
	tunable white (2 DALI)		



SENIC 310 JUT-OUT

e ² LED	220-240V	UGR <19	CB	1 DALI ADDR.	9,0 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33W	3000K	4300lm	0 5 9 - 3 1 3 5 : : 7 P
33W	4000K	4500lm	0 5 9 - 3 1 3 5 0 3 7 P
	tunable white (2 DALI)		

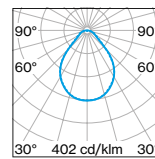


SENIC 180 JUT-OUT

e ² LED	220-240V	UGR <19	CB	1 DALI ADDR.	6,5 kg
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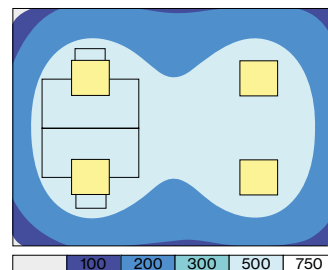
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17W	3000K	2100lm	0 5 9 - 3 1 3 6 : : 7 P
17W	4000K	2200lm	0 5 9 - 3 1 3 6 0 3 7 P
	tunable white (2 DALI)		

Light distribution



Microprismatic
direct
LOR 86%

Technical data



SENIC 620 JUT-OUT 33W GLARE EVALUATION

Room dimensions	5.4x4.05x2.7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

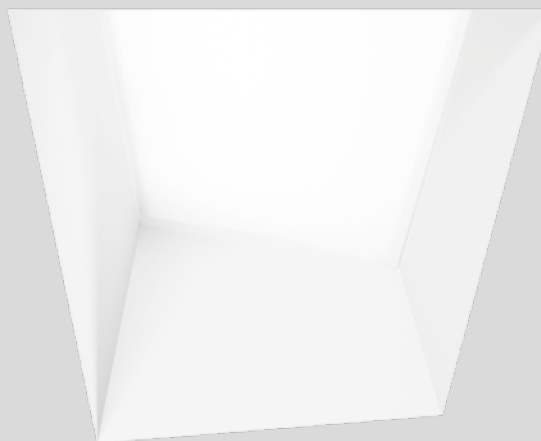
UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²



TRAPEZ

xal.com/trapez



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 76 lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
uniform illumination
offset PMMA cover opal

ELECTRICAL

non DIM / phase-cut, DIM DALI
DALI: CLO

PHYSICAL

gypsum housing
halogen-free cable

Description

DE Polygoner Leuchtenkörper aus Gips (übermalbar) für randlosen Einbau in Gipskartondecken; geeignet für Deckenstärken 12,5/15 mm; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Leuchte bestehend aus Leuchtenkörper und Einbaugehäuse; werkzeuglose mechanische und elektrische Verbindung mittels Schnappverschluss und verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung, werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; dimmbar mit Phasenab- bzw. abschnitt oder DALI-dimmbar

EN Polygon shaped, square luminaire housing in plaster (paintable) for trimless installation in plasterboard ceilings; suitable for ceiling thickness of 12.5/15 mm; luminaire housing for ceiling installation available in advance; luminaire consisting of light housing and recessed housing; mechanical and electrical connection without tools using snap closure and reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover, removable without tools for easy maintenance; same light density for all surface lights with the same components (e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP20; PC I; dimmable with leading or trailing edge phase dimmer or DALI dimmable

Features



skimmed into plasterboard ceiling (trimless)

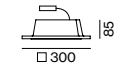
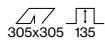


tool-free mounting of light engine

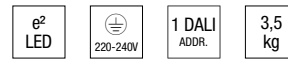
Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

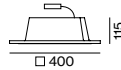
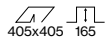
CONTROL	
non DIM / phase-cut	1
DIM DALI / CLO	3



TRAPEZ 200



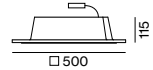
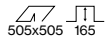
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	3000K	660lm	0 6 3 - 9 3 2 6 :: 7 0
	4000K	690lm	



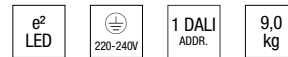
TRAPEZ 300



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15W	3000K	1060lm	0 6 3 - 9 3 3 6 :: 7 0
	4000K	1100lm	

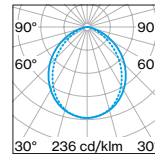


TRAPEZ 400



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
25W	3000K	1800lm	0 6 3 - 9 3 4 6 :: 7 0
	4000K	1900lm	

Light distribution



Opal
direct
LOR 52%

Accessories



VACUUM CUP

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0



DISMANTLING TOOL

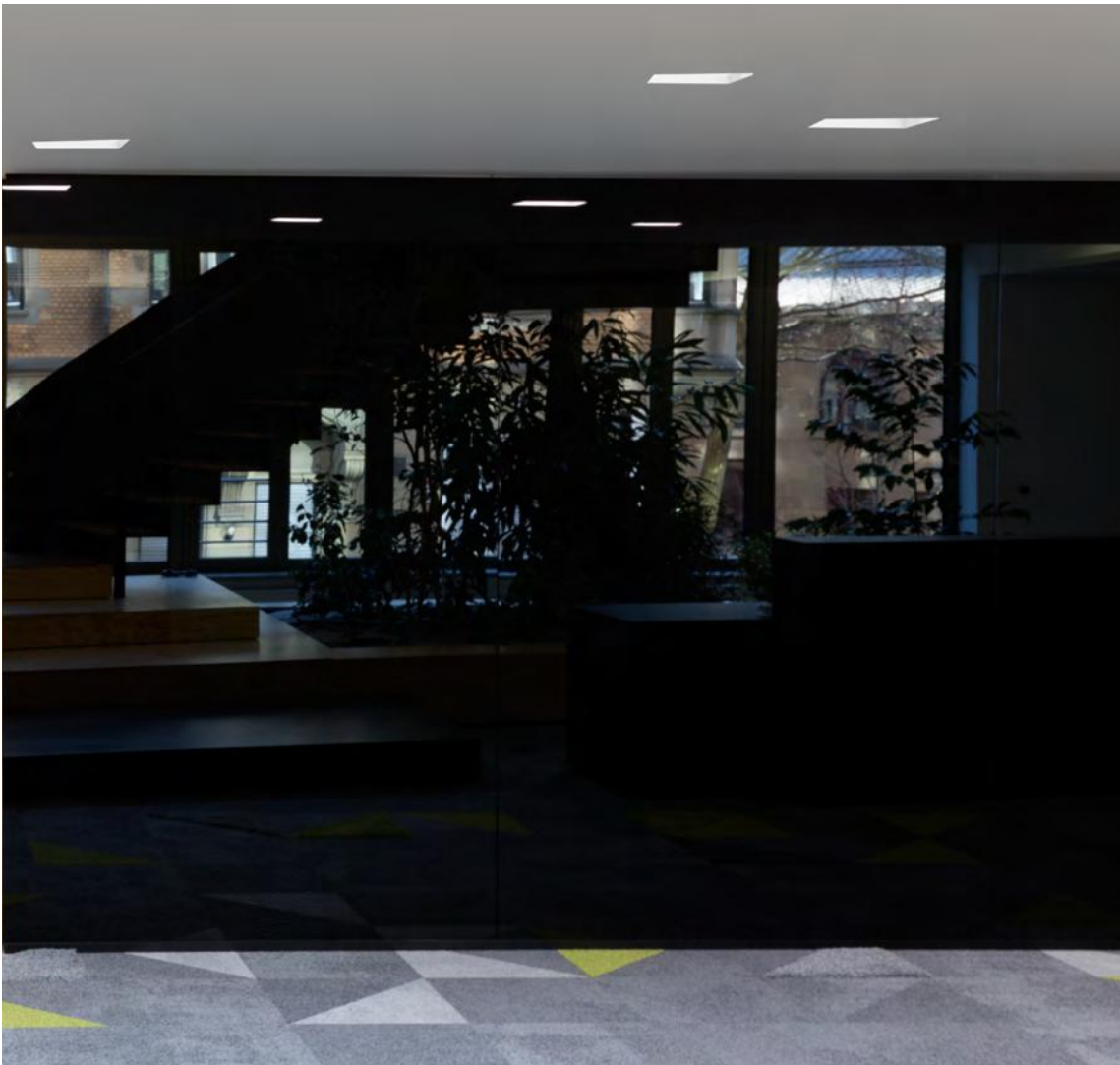
TYPE	ORDER CODE
dismantling tool	0 6 3 - 9 3 0 0 0 1 0

Inspiration

moovel group
Stuttgart, Germany

SOLUTION
TRAPEZ

ARCHITECT
FURCH GESTALTUNG +
PRODUKTION GMBH
Stuttgart, Germany





MENO TRIANGLE

xal.com/meno-triangle



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Low-power LED
up to 86lm/W
3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

TRIANGLE SURFACE

[page 326](#)

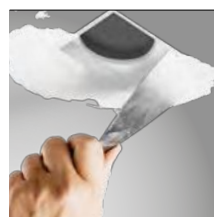


Description

DE Abgerundeter, dreieckiger Leuchtenkörper aus Aluminium; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische und elektrische Verbindung mittels Schnappverschluss und verpolungssicherem Steckersystem; Deckenausschnittschablone als Zubehör erhältlich; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (i LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarben 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP 20; SK I; DALI-dimbar

EN Rounded, triangular aluminium luminaire housing; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire housing for ceiling installation available in advance; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using snap closure and reverse polarity protected plug system; ceiling cut-out template available as an accessory; completely homogeneously illuminated, satinised PMMA cover; cover removable without tools for easy maintenance; same light density for all surface lights with the same components (i LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP 20; PC I; DALI dimmable

Features



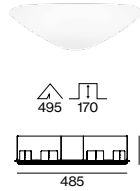
skimmed into plasterboard ceiling (trimless)



MENO TRIANGLE 400



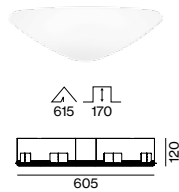
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22W	3000K	1900lm	0 6 3 - 9 5 4 6 5 3 7 0



MENO TRIANGLE 500



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29W	3000K	2500lm	0 6 3 - 9 5 5 6 5 3 7 0

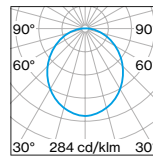


MENO TRIANGLE 600



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W	3000K	4000lm	0 6 3 - 9 5 6 6 5 3 7 0

Light distribution



Opal
direct
LOR 76 %

Accessories

INSTALLATION TEMPLATE



TYPE	ORDER CODE
TRIANGLE 400	0 1 8 - 6 9 0 4 0
TRIANGLE 500	0 1 8 - 6 9 0 5 0
TRIANGLE 600	0 1 8 - 6 9 0 6 0

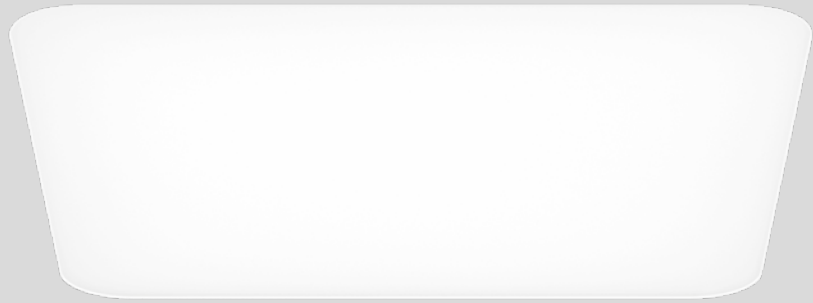
MOULDING TOOL FOR CUT OUT



TYPE	ORDER CODE
TRIANGLE 400	0 1 8 - 6 9 0 4 1
TRIANGLE 500	0 1 8 - 6 9 0 5 1
TRIANGLE 600	0 1 8 - 6 9 0 6 1

MENO RETRO

xal.com/meno-retro



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 119lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
uniform illumination

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Abgerundeter, quadratischer Leuchtkörper aus Aluminium; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Inset bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische und elektrische Verbindung mittels Schnappverschluss und verpolungssicherem Steckersystem; Deckenausschnittschablone als Zubehör erhältlich; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Rounded, square aluminium luminaire housing; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire housing for ceiling installation available in advance; inset consisting of converter unit and PCB unit; mechanical and electrical connection without tools using snap closure and reverse polarity protected plug system; ceiling cut-out template available as an accessory; completely homogeneously illuminated, satinised PMMA cover; cover removable without tools for easy maintenance; same light density for all surface lights with the same components (e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function

Features

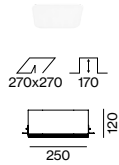


skimmed into plasterboard ceiling (trimless)

Order options

COLOUR TEMPERATURE	5
3000K	5
4000K	6

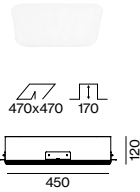
CONTROL	3
non DIM	1
DIM DALI / CLO	3



MENO RETRO 250



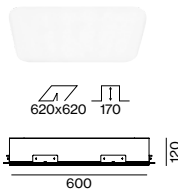
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000K 4000K	790lm 830lm	0 6 3 - 1 5 0 6 :: 7 0



MENO RETRO 450



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
26 W	3000K 4000K	3000lm 3100lm	0 6 3 - 1 5 2 6 :: 7 0

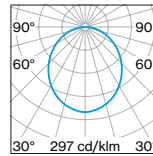


MENO RETRO 600



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47 W	3000K 4000K	5300lm 5500lm	0 6 3 - 1 5 3 6 :: 7 0

Light distribution



Opal
direct
LOR 80 %

Accessories

INSTALLATION TEMPLATE



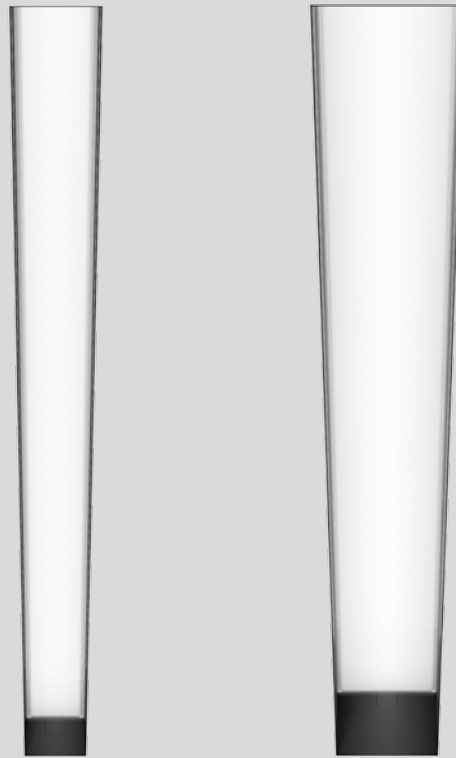
TYPE	ORDER CODE
MENO RETRO SQUARE 250	0 6 2 - 4 1 1 2 5
MENO RETRO SQUARE 450	0 6 2 - 4 1 1 4 5
MENO RETRO SQUARE 600	0 6 2 - 4 1 1 6 1

MOULDING TOOL FOR CUT OUT



TYPE	ORDER CODE
MENO RETRO SQUARE 250	0 6 2 - 4 1 3 2 5
MENO RETRO SQUARE 450	0 6 2 - 4 1 3 4 5
MENO RETRO SQUARE 600	0 6 2 - 4 1 3 6 1

CANYON 60 / 100

xal.com/canyon

Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

Mid-power LED
up to 100lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
offset PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
anodised
powder-coated
impact resistant diffusor
halogen-free cable

CANYON 60 SYSTEM

[page 383](#)



CANYON 100 SYSTEM

[page 419](#)

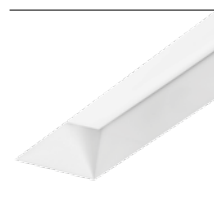


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 2 unterschiedlichen Breiten; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25mm; Oberfläche weiß pulverbeschichtet oder schwarz eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Leuchte laut DIN 57710 Teil 13 / VDE 0710 Teil 13 ballwurfsicher ausgeführt; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 2 different widths; uncluttered ceiling look through recessed lighting level; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25mm; surface powder coated in white or anodised black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; luminaire, ball proof version to 57710 part 13 / VDE 0710 part 13; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000hours; protection class IP20; PC I; optional DALI dimmable

Features



offset installation
of luminaire



ball-impact-resistant
(DIN 57710-13)



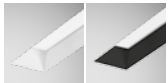
skimmed into plasterboard
ceiling (trimless)

Order options

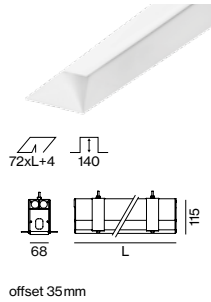
COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆️⬆️
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑️
white	7
black	8



LIGHT OPTIC COVER	☑️
opal high performance	H
microprismatic	P



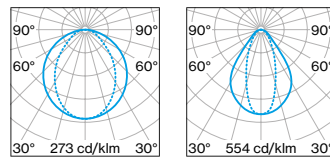
CANYON 60



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14W e²	3000K	1150lm	580	0 5 2 - 3 7 3 2 :: ⬆️⬆️ ☑️ ☑️
	4000K	1200lm		
20W e²	3000K	1800lm	880	0 5 2 - 3 7 3 3 :: ⬆️⬆️ ☑️ ☑️
	4000K	1900lm		
18W e	3000K	1600lm	1180	0 5 2 - 3 7 2 4 :: 1 ☑️ ☑️
	4000K	1700lm		
27W e²	3000K	2400lm	1180	0 5 2 - 3 7 3 4 :: ⬆️⬆️ ☑️ ☑️
	4000K	2500lm		
23W e	3000K	2000lm	1480	0 5 2 - 3 7 2 5 :: 1 ☑️ ☑️
	4000K	2100lm		
34W e²	3000K	3000lm	1480	0 5 2 - 3 7 3 5 :: ⬆️⬆️ ☑️ ☑️
	4000K	3100lm		
37W e	3000K	3200lm	2352	0 5 2 - 3 7 2 8 :: 1 ☑️ ☑️
	4000K	3400lm		
54W e²	3000K	4700lm	2352	0 5 2 - 3 7 3 8 :: ⬆️⬆️ ☑️ ☑️
	4000K	5000lm		

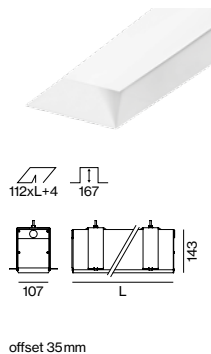
luminous flux white profile, opal high performance

Light distribution for white profile



Opal
direct
LOR 61%

Microprismatic
direct
LOR 61%



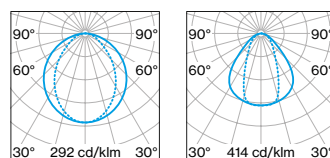
CANYON 100



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14W e²	3000K	1250lm	580	0 5 2 - 3 8 3 2 :: ⬆️⬆️ ☑️ ☑️
	4000K	1300lm		
20W e²	3000K	1900lm	880	0 5 2 - 3 8 3 3 :: ⬆️⬆️ ☑️ ☑️
	4000K	2000lm		
18W e	3000K	1700lm	1180	0 5 2 - 3 8 2 4 :: 1 ☑️ ☑️
	4000K	1800lm		
27W e²	3000K	2500lm	1180	0 5 2 - 3 8 3 4 :: ⬆️⬆️ ☑️ ☑️
	4000K	2700lm		
23W e	3000K	2100lm	1480	0 5 2 - 3 8 2 5 :: 1 ☑️ ☑️
	4000K	2200lm		
34W e²	3000K	3100lm	1480	0 5 2 - 3 8 3 5 :: ⬆️⬆️ ☑️ ☑️
	4000K	3300lm		
37W e	3000K	3400lm	2352	0 5 2 - 3 8 2 8 :: 1 ☑️ ☑️
	4000K	3600lm		
54W e²	3000K	5000lm	2352	0 5 2 - 3 8 3 8 :: ⬆️⬆️ ☑️ ☑️
	4000K	5300lm		

luminous flux white profile, opal high performance

Light distribution for 4000K, white profile



Opal
direct
LOR 65%

Microprismatic
direct
LOR 65%

CANYON 60 DOT

xal.com/canyon-60-dot



Quickinfo

GENERAL

recessed
IP20
only plasterboard ceilings

LED

High-power LED
up to 62lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
lens optics
glare reduction

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

CANYON 60 SYSTEM

[page 383](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet oder schwarz eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; quadratischer LED Strahler integriert; erhöhte Effizienz durch spezielle Linsentechnik, trotz zurückversetzter Lichtpunktebene; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; CRI > 80; min. 70 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium; uncluttered ceiling look through recessed lighting level; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25 mm; surface powder coated in white or anodised black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; square integrated LED spotlight; increased efficiency through special lens technology, despite inset light point level; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2700K and 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



offset installation
of luminaire



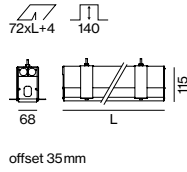
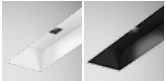
skimmed into plaster-
board ceiling (trimless)

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black	8



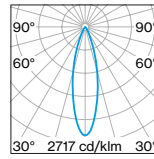
CANYON 60 DOT



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
1×2,3 W	2700 K	110 lm	158	0 5 2 - 3 7 8 1 :: 1 M
	3000 K	120 lm		
2×2,3 W	2700 K	240 lm	308	0 5 2 - 3 7 8 2 :: 1 M
	3000 K	250 lm		
6×2,3 W	2700 K	720 lm	1180	0 5 2 - 3 7 8 6 :: M
	3000 K	750 lm		
12×2,3 W	2700 K	1440 lm	2352	0 5 2 - 3 7 8 9 :: M
	3000 K	1500 lm		

luminous flux white profile

Light distribution for white profile



medium 26°
direct
LOR 70 %

CANYON FRAME 80 / 120

xal.com/canyon-frame



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 100lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
impact resistant diffusor
halogen-free cable

CANYON F. 80 SYSTEM

[page 391](#)



CANYON F. 120 SYSTEM

[page 425](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 2 unterschiedlichen Breiten; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß oder schwarz pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Leuchte laut DIN 57710 Teil 13 / VDE 0710 Teil 13 ballwurfsicher ausgeführt; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 2 different widths; uncluttered ceiling look through recessed lighting level; Recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface white or black powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; luminaire, ball proof version to 57710 part 13 / VDE 0710 part 13; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



offset installation
of luminaire



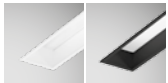
ball-impact-resistant
(DIN 57710-13)

Order options

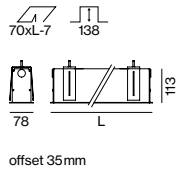
COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	▾
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑
white	7
black	8



LIGHT OPTIC COVER	☑
opal high performance	H
microprismatic	P



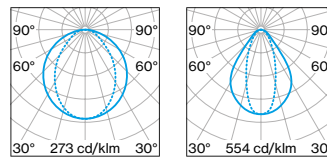
CANYON FRAME 80



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14W e²	3000K	1150lm	593	0 5 2 - 5 2 3 2 :: ▾ ▾ ☑ ☑
	4000K	1200lm		
20W e²	3000K	1800lm	893	0 5 2 - 5 2 3 3 :: ▾ ▾ ☑ ☑
	4000K	1900lm		
18W e	3000K	1600lm	1193	0 5 2 - 5 2 2 4 :: 1 ☑ ☑
	4000K	1700lm		
27W e²	3000K	2400lm	1193	0 5 2 - 5 2 3 4 :: ▾ ▾ ☑ ☑
	4000K	2500lm		
23W e	3000K	2000lm	1493	0 5 2 - 5 2 2 5 :: 1 ☑ ☑
	4000K	2100lm		
34W e²	3000K	3000lm	1493	0 5 2 - 5 2 3 5 :: ▾ ▾ ☑ ☑
	4000K	3100lm		
37W e	3000K	3200lm	2365	0 5 2 - 5 2 2 8 :: 1 ☑ ☑
	4000K	3400lm		
54W e²	3000K	4700lm	2365	0 5 2 - 5 2 3 8 :: ▾ ▾ ☑ ☑
	4000K	5000lm		

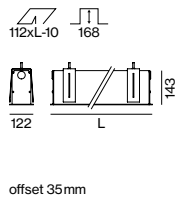
luminous flux white profile, opal high performance

Light distribution



Opal
direct
LOR 61%

Microprismatic
direct
LOR 61%



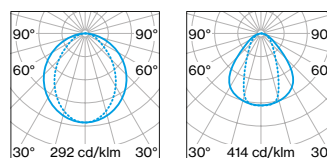
CANYON FRAME 120



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14W e²	3000K	1250lm	596	0 5 2 - 5 3 3 2 :: ▾ ▾ ☑ ☑
	4000K	1300lm		
20W e²	3000K	1900lm	896	0 5 2 - 5 3 3 3 :: ▾ ▾ ☑ ☑
	4000K	2000lm		
18W e	3000K	1700lm	1196	0 5 2 - 5 3 2 4 :: 1 ☑ ☑
	4000K	1800lm		
27W e²	3000K	2500lm	1196	0 5 2 - 5 3 3 4 :: ▾ ▾ ☑ ☑
	4000K	2700lm		
23W e	3000K	2100lm	1496	0 5 2 - 5 3 2 5 :: 1 ☑ ☑
	4000K	2200lm		
34W e²	3000K	3100lm	1496	0 5 2 - 5 3 3 5 :: ▾ ▾ ☑ ☑
	4000K	3300lm		
37W e	3000K	3400lm	2368	0 5 2 - 5 3 2 8 :: 1 ☑ ☑
	4000K	3600lm		
54W e²	3000K	5000lm	2368	0 5 2 - 5 3 3 8 :: ▾ ▾ ☑ ☑
	4000K	5300lm		

luminous flux white profile, opal high performance

Light distribution



Opal
direct
LOR 65%

Microprismatic
direct
LOR 65%

Inspiration

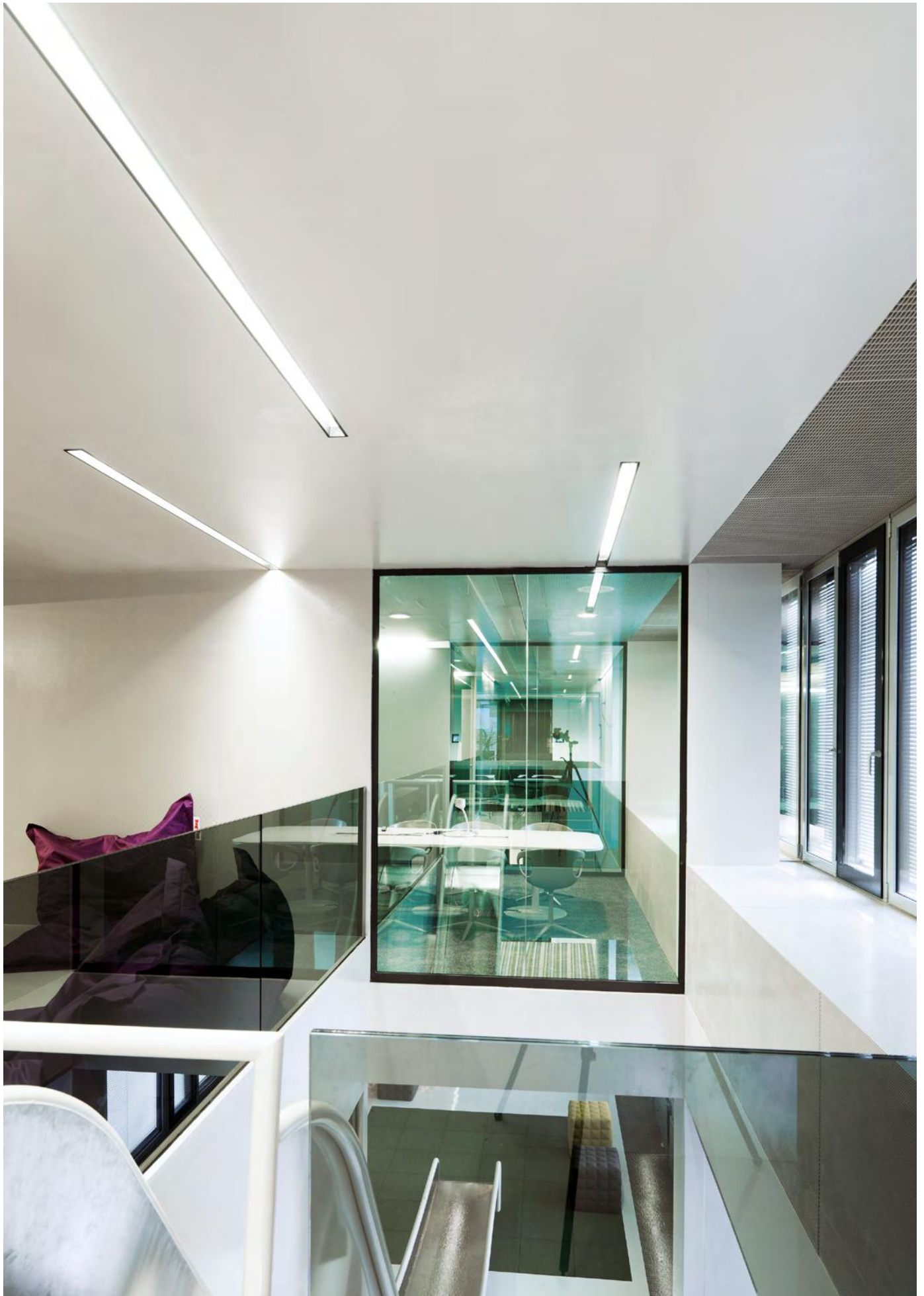
Microsoft Headquarters
Vienna, Austria

SOLUTION
CANYON 60

ARCHITECT
INNOCAD | Architektur ZT GmbH
Graz, Austria

LIGHTING DESIGN
INNOCAD | Architektur ZT GmbH
Graz, Austria





MINIMAL

40 / 60 / 100

xal.com/minimal



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 115lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

MINIMAL 40 / 60 / 100 SYSTEM

page 366 / 382 / 418



Description

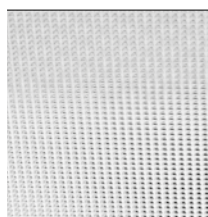
DE Leuchtenkörper aus Aluminiumstrangpressprofil in 3 unterschiedlichen Breiten; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 3 different widths; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25 mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



skimmed into plasterboard ceiling (trimless)



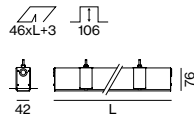
MINO 100 microprismatic (UGR < 19)

Order options

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆
non DIM	1
DIM DALI	3

LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	P



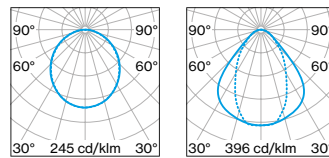
MINIMAL 40



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000K	1250lm	576	0 5 2 - 3 1 3 2 :: 7 ☐
	4000K	1300lm		
20 W e ²	3000K	1900lm	876	0 5 2 - 3 1 3 3 :: 7 ☐
	4000K	2000lm		
18 W e	3000K	1700lm	1176	0 5 2 - 3 1 2 4 :: 1 7 ☐
	4000K	1800lm		
27 W e ²	3000K	2500lm	1176	0 5 2 - 3 1 3 4 :: 7 ☐
	4000K	2600lm		
23 W e	3000K	2100lm	1476	0 5 2 - 3 1 2 5 :: 1 7 ☐
	4000K	2200lm		
34 W e ²	3000K	3100lm	1476	0 5 2 - 3 1 3 5 :: 7 ☐
	4000K	3300lm		
36 W e	3000K	3400lm	2348	0 5 2 - 3 1 2 8 :: 1 7 ☐
	4000K	3600lm		
54 W e ²	3000K	5000lm	2348	0 5 2 - 3 1 3 8 :: 7 ☐
	4000K	5200lm		

luminous flux opal high performance

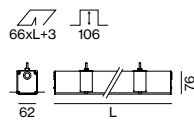
Light distribution



Opal
direct
LOR 66%

Microprismatic
direct
LOR 64%

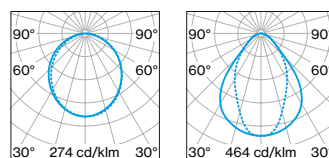
MINIMAL 60



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000K	1350lm	576	0 5 2 - 3 2 3 2 :: 7 ☐
	4000K	1400lm		
20 W e ²	3000K	2000lm	876	0 5 2 - 3 2 3 3 :: 7 ☐
	4000K	2100lm		
18 W e	3000K	1800lm	1176	0 5 2 - 3 2 2 4 :: 1 7 ☐
	4000K	1900lm		
27 W e ²	3000K	2700lm	1176	0 5 2 - 3 2 3 4 :: 7 ☐
	4000K	2900lm		
23 W e	3000K	2300lm	1476	0 5 2 - 3 2 2 5 :: 1 7 ☐
	4000K	2400lm		
34 W e ²	3000K	3400lm	1476	0 5 2 - 3 2 3 5 :: 7 ☐
	4000K	3600lm		
37 W e	3000K	3700lm	2348	0 5 2 - 3 2 2 8 :: 1 7 ☐
	4000K	3900lm		
54 W e ²	3000K	5500lm	2348	0 5 2 - 3 2 3 8 :: 7 ☐
	4000K	5700lm		

luminous flux opal high performance

Light distribution



Opal
direct
LOR 71%

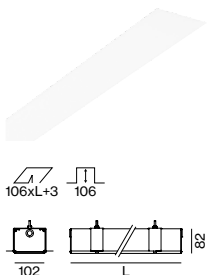
Microprismatic
direct
LOR 69%

Order options

COLOUR TEMPERATURE	☐☐
3000 K	5
4000 K	6

CONTROL	⬆⬇⬆
non DIM	1
DIM DALI	3

LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	P



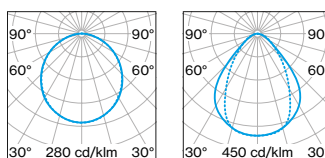
MINIMAL 100



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000 K	1500 lm	576	0 5 2 - 3 3 3 2 ☐☐ 7 ☐
	4000 K	1600 lm		
20 W e ²	3000 K	2200 lm	876	0 5 2 - 3 3 3 3 ☐☐ 7 ☐
	4000 K	2300 lm		
18 W e	3000 K	2000 lm	1176	0 5 2 - 3 3 2 4 ☐☐ 1 7 ☐
	4000 K	2100 lm		
27 W e ²	3000 K	3000 lm	1176	0 5 2 - 3 3 3 4 ☐☐ 7 ☐
	4000 K	3100 lm		
23 W e	3000 K	2500 lm	1476	0 5 2 - 3 3 2 5 ☐☐ 1 7 ☐
	4000 K	2600 lm		
34 W e ²	3000 K	3700 lm	1476	0 5 2 - 3 3 3 5 ☐☐ 7 ☐
	4000 K	3900 lm		
37 W e	3000 K	4000 lm	2348	0 5 2 - 3 3 2 8 ☐☐ 1 7 ☐
	4000 K	4200 lm		
54 W e ²	3000 K	5900 lm	2348	0 5 2 - 3 3 3 8 ☐☐ 7 ☐
	4000 K	6200 lm		

luminous flux opal high performance

Light distribution

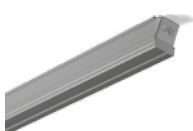
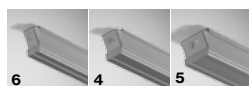


Opal
direct
LOR 77%

Microprismatic
direct
LOR 77%

Order options

TYPE	W-H (MM)	⌈
MINIMAL 40	55-86	6
MINIMAL 60	75-88	4
MINIMAL 100	116-94	5



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	ORDER CODE
582	0 3 6 - 0 ⌈ 0 6 6
882	0 3 6 - 0 ⌈ 0 9 6
1182	0 3 6 - 0 ⌈ 1 2 6
1482	0 3 6 - 0 ⌈ 1 5 6
2354	0 3 6 - 0 ⌈ 2 3 6

no use for wall installation (only on request)

Inspiration

KLS Martin World
Tuttlingen, Germany

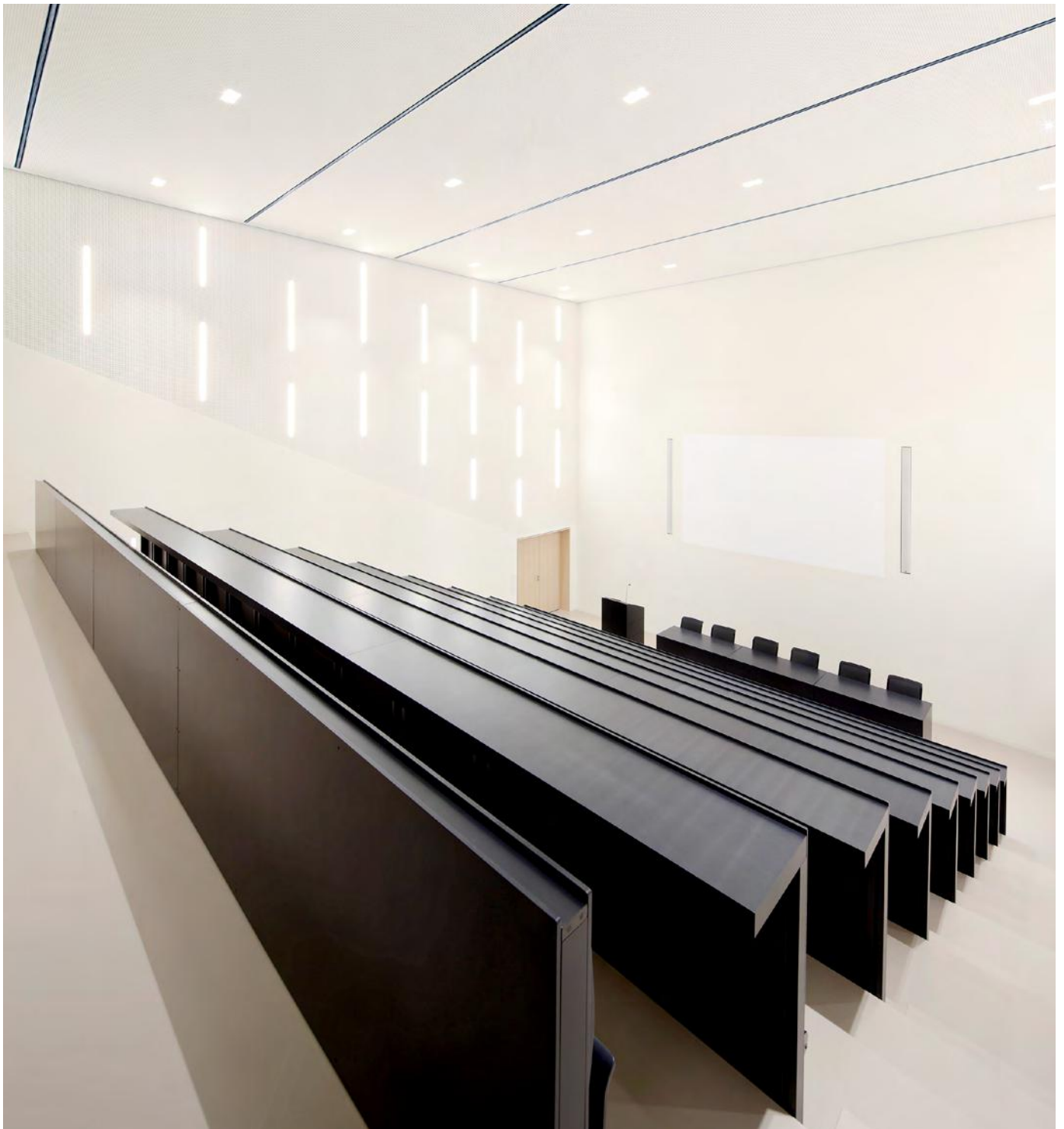
SOLUTION
MINIMAL 100

ARCHITECT

ARCHITEKT.BINDER
Tuttlingen, Germany

LIGHTING DESIGN

Ingenieurbüro für Elektrotechnik
Werner Schwarz GmbH
Ravensburg, Germany



FRAME

55 / 80 / 120

xal.com/frame



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 115lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
anodised
powder-coated
halogen-free cable

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 3 unterschiedlichen Breiten; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25mm; Oberfläche weiß pulverbeschichtet oder Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 3 different widths; Recessed luminaire with trim; suitable for ceiling thickness of 8-25mm; surface white powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

FRAME 55 / 80 / 120 SYSTEM

[page 367 / 390 / 424](#)

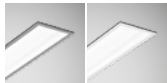


Order options

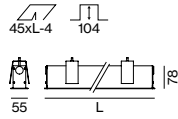
COLOUR TEMPERATURE	••
3000K	5
4000K	6

CONTROL	◆
non DIM	1
DIM DALI	3

MATERIAL COLOUR	■
anodised aluminium	6
white	7



LIGHT OPTIC COVER	□
opal high performance	H
microprismatic	P



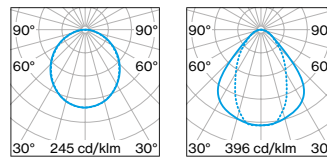
FRAME 55



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000K	1250lm	588	0 5 2 - 4 2 3 2 :: ◆ □
	4000K	1300lm		
20 W e ²	3000K	1900lm	888	0 5 2 - 4 2 3 3 :: ◆ □
	4000K	2000lm		
18 W e	3000K	1700lm	1188	0 5 2 - 4 2 2 4 :: 1 □
	4000K	1800lm		
27 W e ²	3000K	2500lm	1188	0 5 2 - 4 2 3 4 :: ◆ □
	4000K	2600lm		
23 W e	3000K	2100lm	1488	0 5 2 - 4 2 2 5 :: 1 □
	4000K	2200lm		
34 W e ²	3000K	3100lm	1488	0 5 2 - 4 2 3 5 :: ◆ □
	4000K	3300lm		
36 W e	3000K	3400lm	2360	0 5 2 - 4 2 2 8 :: 1 □
	4000K	3600lm		
54 W e ²	3000K	5000lm	2360	0 5 2 - 4 2 3 8 :: ◆ □
	4000K	5200lm		

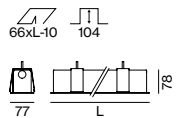
luminous flux opal high performance

Light distribution



Opal
direct
LOR 66 %

Microprismatic
direct
LOR 64 %



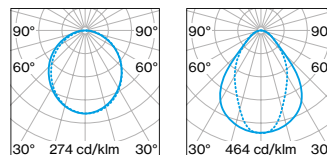
FRAME 80



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000K	1350lm	593	0 5 2 - 4 7 3 2 :: ◆ □
	4000K	1400lm		
20 W e ²	3000K	2000lm	893	0 5 2 - 4 7 3 3 :: ◆ □
	4000K	2100lm		
18 W e	3000K	1800lm	1193	0 5 2 - 4 7 2 4 :: 1 □
	4000K	1900lm		
27 W e ²	3000K	2700lm	1193	0 5 2 - 4 7 3 4 :: ◆ □
	4000K	2900lm		
23 W e	3000K	2300lm	1493	0 5 2 - 4 7 2 5 :: 1 □
	4000K	2400lm		
34 W e ²	3000K	3400lm	1493	0 5 2 - 4 7 3 5 :: ◆ □
	4000K	3600lm		
37 W e	3000K	3700lm	2365	0 5 2 - 4 7 2 8 :: 1 □
	4000K	3900lm		
54 W e ²	3000K	5500lm	2365	0 5 2 - 4 7 3 8 :: ◆ □
	4000K	5700lm		

luminous flux opal high performance

Light distribution



Opal
direct
LOR 71 %

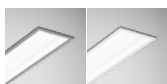
Microprismatic
direct
LOR 69 %

Order options

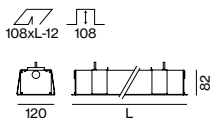
COLOUR TEMPERATURE	☼☼
3000 K	5
4000 K	6

CONTROL	⬆️⬆️
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑️
anodised aluminium	6
white	7



LIGHT OPTIC COVER	☑️
opal high performance	H
microprismatic	P



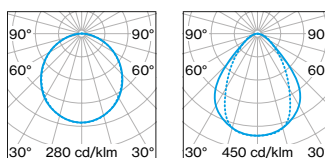
FRAME 120



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e²	3000K	1500lm	596	0 5 2 - 4 3 3 2 ☼☼☑️☑️
	4000K	1600lm		
20 W e²	3000K	2200lm	896	0 5 2 - 4 3 3 3 ☼☼☑️☑️
	4000K	2300lm		
18 W e	3000K	2000lm	1196	0 5 2 - 4 3 2 4 ☼☑️☑️
	4000K	2100lm		
27 W e²	3000K	3000lm	1196	0 5 2 - 4 3 3 4 ☼☼☑️☑️
	4000K	3100lm		
23 W e	3000K	2500lm	1496	0 5 2 - 4 3 2 5 ☼☑️☑️
	4000K	2600lm		
34 W e²	3000K	3700lm	1496	0 5 2 - 4 3 3 5 ☼☼☑️☑️
	4000K	3900lm		
37 W e	3000K	4000lm	2368	0 5 2 - 4 3 2 8 ☼☑️☑️
	4000K	4200lm		
54 W e²	3000K	5900lm	2368	0 5 2 - 4 3 3 8 ☼☼☑️☑️
	4000K	6200lm		

luminous flux opal high performance

Light distribution

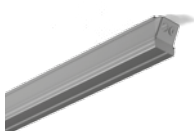
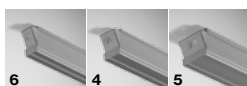


Opal
direct
LOR 77%

Microprismatic
direct
LOR 77%

Order options

TYPE	W-H (MM)	⌈
FRAME 55	55-86	6
FRAME 80	75-88	4
FRAME 120	116-94	5



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	ORDER CODE
582	0 3 5 - 0 ⌈ 0 6 6
882	0 3 5 - 0 ⌈ 0 9 6
1182	0 3 5 - 0 ⌈ 1 2 6
1482	0 3 5 - 0 ⌈ 1 5 6
2354	0 3 5 - 0 ⌈ 2 3 6

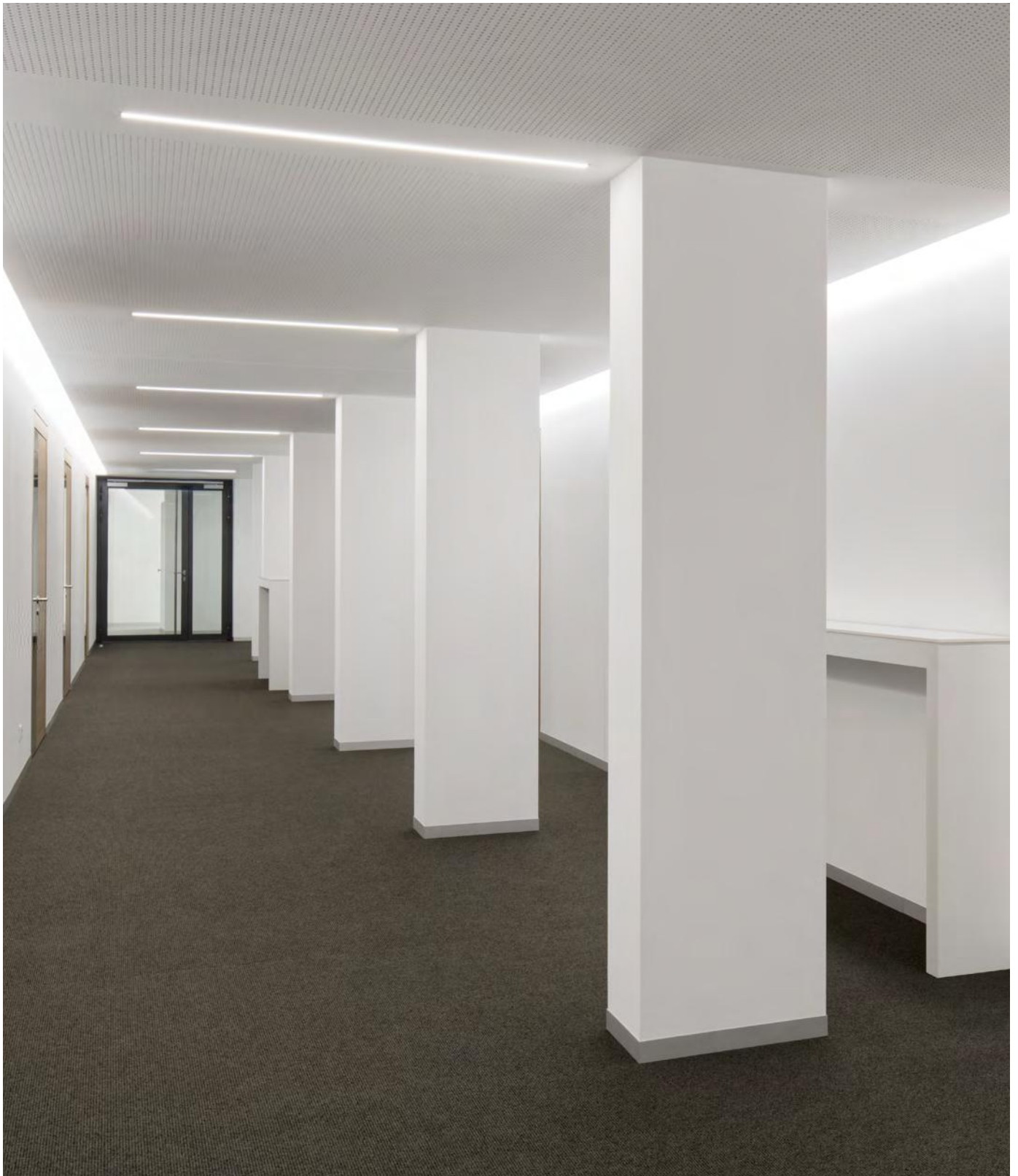
no use for wall installation (only on request)

Inspiration

Sparkasse
Nuremberg, Germany

SOLUTION
FRAME 55

ARCHITECT
baum-kappler architekten
Nuremberg, Germany



MINIMAL 60 / 100 WALLWASHER

xal.com/minimal-wallwasher



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 120lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 2 unterschiedlichen Breiten; geeignet für den randlosen Einbau in Gipskartondecken; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken; Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 2 different widths; for trimless installation in plasterboard ceilings; suitable for ceiling thickness of 8-25 mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; with specially computed, asymmetrical reflector for homogeneous lighting intensity; reflector in matt anodised aluminium, installation without tools; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

MINIMAL 60 SYSTEM

[page 382](#)



MINIMAL 100 SYSTEM

[page 418](#)



Features

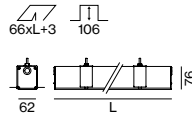


skimmed into plasterboard ceiling (trimless)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

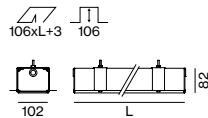
CONTROL	
non DIM	1
DIM DALI	3



MINIMAL 60 WALLWASHER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	3000K	670lm	576	0 5 2 - 3 2 3 2 : : 7 A
	4000K	720lm		
18 W	3000K	1000lm	876	0 5 2 - 3 2 3 3 : : 7 A
	4000K	1100lm		
24 W	3000K	1300lm	1176	0 5 2 - 3 2 3 4 : : 7 A
	4000K	1400lm		
30 W	3000K	1600lm	1476	0 5 2 - 3 2 3 5 : : 7 A
	4000K	1800lm		

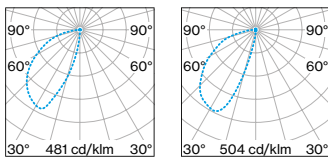


MINIMAL 100 WALLWASHER



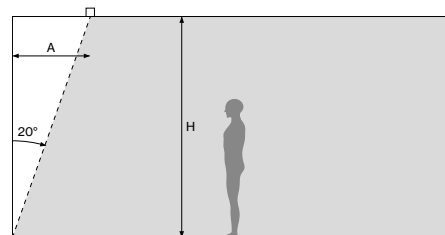
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
21 W	3000K	1600lm	576	0 5 2 - 3 3 3 2 : : 7 A
	4000K	1700lm		
32 W	3000K	2500lm	876	0 5 2 - 3 3 3 3 : : 7 A
	4000K	2600lm		
42 W	3000K	3300lm	1176	0 5 2 - 3 3 3 4 : : 7 A
	4000K	3400lm		
53 W	3000K	4100lm	1476	0 5 2 - 3 3 3 5 : : 7 A
	4000K	4300lm		

Light distribution



60 asymmetric direct LOR 58%	100 asymmetric direct LOR 63%
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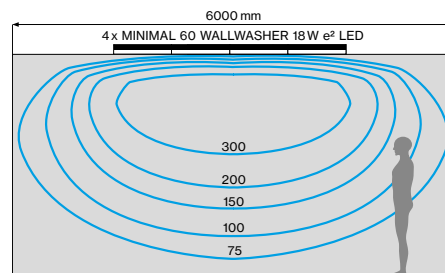
Technical data



ROOM DIMENSIONS

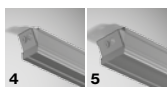
H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Em (lx)	E max (lx)
191	566
173	501
145	404



Order options

TYPE	W-H (MM)	
MINIMAL 60	75-88	4
MINIMAL 100	116-94	5



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	ORDER CODE
582	0 3 6 - 0 1 0 6 6
882	0 3 6 - 0 1 0 9 6
1182	0 3 6 - 0 1 1 2 6
1482	0 3 6 - 0 1 1 5 6

no use for wall installation (only on request)

Inspiration

Saubermacher Ecoport
Graz, Austria

SOLUTION
MINIMAL 100 WALLWASHER

ARCHITECT
Bramberger architects
Graz, Austria





FRAME 80 / 120 WALLWASHER

xal.com/frame-wallwasher



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 120lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
anodised
powder-coated
halogen-free cable

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 2 unterschiedlichen Breiten; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25mm; Oberfläche weiß pulverbeschichtet oder Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken; Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 2 different widths; recessed luminaire with trim; suitable for ceiling thickness of 8-25mm; surface white powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; with specially computed, asymmetrical reflector for homogeneous lighting intensity; reflector in matt anodised aluminium, installation without tools; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable

FRAME 80 SYSTEM

[page 390](#)

FRAME 120 SYSTEM

[page 424](#)

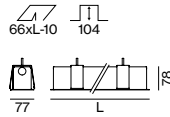
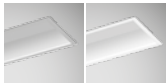


Order options

COLOUR TEMPERATURE		
3000K	5	
4000K	6	

CONTROL		
non DIM	1	
DIM DALI	3	

MATERIAL COLOUR		
anodised aluminium	6	
white	7	



FRAME 80 WALLWASHER

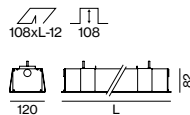


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	3000K	670lm	593	0 5 2 - 4 7 3 2 :: ◆ □ A
	4000K	720lm		
18 W	3000K	1100lm	893	0 5 2 - 4 7 3 3 :: ◆ □ A
	4000K	1100lm		
24 W	3000K	1300lm	1193	0 5 2 - 4 7 3 4 :: ◆ □ A
	4000K	1400lm		
30 W	3000K	1600lm	1493	0 5 2 - 4 7 3 5 :: ◆ □ A
	4000K	1800lm		

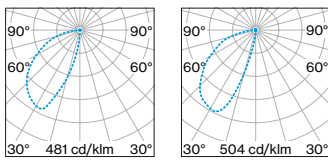
FRAME 120 WALLWASHER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
21 W	3000K	1600lm	596	0 5 2 - 4 3 3 2 :: ◆ □ A
	4000K	1700lm		
32 W	3000K	2500lm	896	0 5 2 - 4 3 3 3 :: ◆ □ A
	4000K	2600lm		
42 W	3000K	3300lm	1196	0 5 2 - 4 3 3 4 :: ◆ □ A
	4000K	3400lm		
53 W	3000K	4100lm	1496	0 5 2 - 4 3 3 5 :: ◆ □ A
	4000K	4300lm		



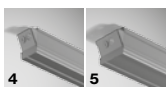
Light distribution



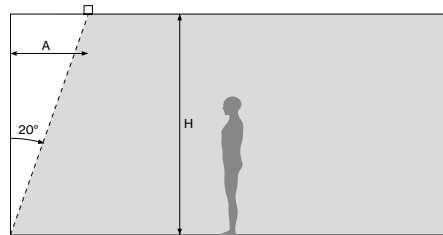
80 asymmetric direct	120 asymmetric direct
LOR 58%	LOR 63%

Order options

TYPE	W-H (MM)	
FRAME 80	75-88	4
FRAME 120	116-94	5



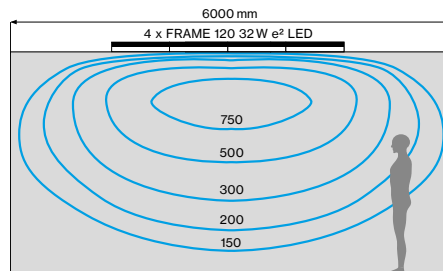
Technical data



ROOM DIMENSIONS

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Em (lx)	Emax (lx)
461	1340
417	1190
348	956

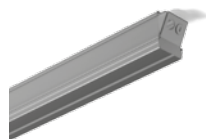


Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	ORDER CODE
582	0 3 5 - 0 1 0 6 6
882	0 3 5 - 0 1 0 9 6
1182	0 3 5 - 0 1 1 2 6
1482	0 3 5 - 0 1 1 5 6

no use for wall installation (only on request)



MINO X

xal.com/mino-x

Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 117lm/W
3000K, 4000K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal, microprismatic
CSC cover jut-out

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

MINO X SYSTEM

➔ [page 476](#)



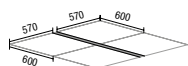
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; Oberfläche weiß pulverbeschichtet; speziell für Einsatz in Rockfon® System X Deckeneinbausystemen konzipiert; individuelle Anpassung möglich; mit Snap-In Einbaubügel für einfache und werkzeuglose Montage; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; Betriebsgerät in aufgesetztem, verschiebbarem Aluminiumgehäuse verbaut; einfacher elektrischer Anschluss durch Plug&Play System; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile; surface white powder coated; specially developed for use in Rockfon® System X recessed ceiling systems; individual adjustment possible; with snap-in mounting brackets for easy mounting without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; operating unit installed in attached, sliding aluminium housing; easy electrical connection through plug and play system; optional DALI dimmable

Features

Rockfon
ACTIVATE YOUR CEILING



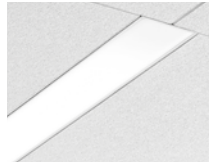
made for "Rockfon®
System X"

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

LIGHT OPTIC COVER	
opal high performance	H
microprismatic	P
jut-out	J



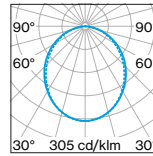
MINO X



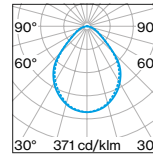
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000K 4000K	1400 lm 1500 lm	600	0 5 9 - 4 0 3 2 : : 7 □
25 W	3000K 4000K	2800 lm 3000 lm	1200	0 5 9 - 4 0 3 4 : : 7 □
25 W	tunable white (2 DALI)		1200	0 5 9 - 4 0 3 4 0 3 7 □
38 W	3000K 4000K	4200 lm 4400 lm	1800	0 5 9 - 4 0 3 6 : : 7 □
38 W	tunable white (2 DALI)		1800	0 5 9 - 4 0 3 6 0 3 7 □
50 W	3000K 4000K	5600 lm 5900 lm	2400	0 5 9 - 4 0 3 8 : : 7 □
50 W	tunable white (2 DALI)		2400	0 5 9 - 4 0 3 8 0 3 7 □
63 W	3000K 4000K	7000 lm 7400 lm	3000	0 5 9 - 4 0 3 9 : : 7 □

luminous flux opal high performance

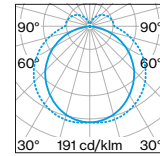
Light distribution



Opal
direct
LOR 78 %



Microprismatic
direct
LOR 69 %



Jut out
direct
LOR 81 %

Order options

LENGTH	L
1000 mm	1
2000 mm	2
3000 mm	3

POLE	
3-pole	1
5-pole	2

Electrical accessories

POWER FEEDER / CONNECTION CABLE

TYPE	ORDER CODE
power feeder	0 5 8 - 2 9 1 1 : : 1 0
connection cable	0 5 9 - 4 8 4 L : : 1 0

03



ANBAU- / PENDELSTRAHLER SURFACE MOUNTED AND SUSPENDED SPOTLIGHTS



**SASSO TOP
CEILING**

→ 198



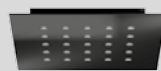
**SASSO TOP
SUSPENDED**

→ 202



KARO TOP

→ 204



**GRID
SURFACE**

→ 208



**BO 55 BASIC
SURFACE /
CEILING**

→ 210



DIS

→ 212



KIS

→ 214



**CORD /
CORD MEDIUM**

→ 218

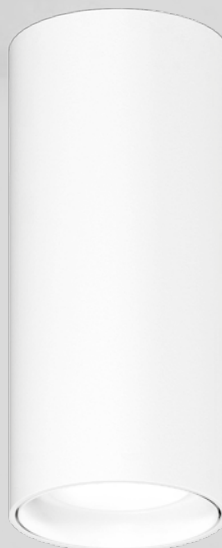


**TULA NANO /
TULA MICRO**

→ 220

SASSO TOP CEILING

xal.com/sasso-top-ceiling



Quickinfo

GENERAL

surface mounted

IP20

light engine exchangeable

LED

COB LED module

up to 100lm/W

2700K, 3000K, 4000K

CRI > 90

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

beam angle 17°, 24°, 36° (MIDI)

beam angle 14°, 25°, 41° (MAXI)

optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

Description

DE Zylindrischer Aufbaustrahler aus Aluminium; werkzeuglose Montage im Gehäuse durch Kugelschnappsystem; Oberfläche weiß oder schwarz pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Cylindrical surface mounted spotlights made of aluminium; installation without tools in housing with ball catch system; surface white or black powder coated; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20; PC I; optional DALI dimmable

Order options

COLOUR TEMPERATURE

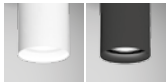
2700 K (only for MIDI)	4
3000K	5
4000 K (only for MAXI)	6

CONTROL

non DIM	1
DIM DALI	3

MATERIAL COLOUR

white	7
black	8



REFLECTOR MIDI / MAXI

spot 17° / 14°	S
medium 24° / 25°	M
flood 36° / 41°	F



SASSO TOP MIDI CEILING



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700K	990lm	0 4 8 - 2 4 4 0
	3000K	1000lm	

Light distribution

spot 17°			LOR 89%			medium 24°			LOR 88%			flood 36°			LOR 87%		
h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)
1	6383	Ø 0,31	1	4134	Ø 0,42	1	2423	Ø 0,65	1	2423	Ø 0,65	1	2423	Ø 0,65	1	2423	Ø 0,65
2	1596	Ø 0,61	2	1033	Ø 0,84	2	606	Ø 1,30	2	606	Ø 1,30	2	606	Ø 1,30	2	606	Ø 1,30
3	709	Ø 0,92	3	459	Ø 1,26	3	269	Ø 1,95	3	269	Ø 1,95	3	269	Ø 1,95	3	269	Ø 1,95
4	399	Ø 1,22	4	258	Ø 1,69	4	151	Ø 2,60	4	151	Ø 2,60	4	151	Ø 2,60	4	151	Ø 2,60
5	255	Ø 1,53	5	165	Ø 2,11	5	97	Ø 3,25	5	97	Ø 3,25	5	97	Ø 3,25	5	97	Ø 3,25

Optical accessories

SASSO MIDI

TYPE	Ø-H (mm)	ORDER CODE
honeycomb	74-11	0 4 8 - 2 1 9 1 3 1
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1
snoot	74-25	0 4 8 - 2 1 9 1 1 1
snoot + honeycomb	74-25	0 4 8 - 2 1 9 1 2 1

use only 1 optical accessory



SASSO TOP MAXI CEILING



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000K	2600lm	0 4 8 - 2 5 4 0
	4000K	2800lm	

Light distribution

spot 14°			LOR 83%			medium 25°			LOR 84%			flood 41°			LOR 82%		
h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)
1	24747	Ø 0,24	1	11250	Ø 0,44	1	4963	Ø 0,74	1	4963	Ø 0,74	1	4963	Ø 0,74	1	4963	Ø 0,74
2	6187	Ø 0,48	2	2813	Ø 0,87	2	1241	Ø 1,48	2	1241	Ø 1,48	2	1241	Ø 1,48	2	1241	Ø 1,48
3	2750	Ø 0,73	3	1250	Ø 1,31	3	551	Ø 2,22	3	551	Ø 2,22	3	551	Ø 2,22	3	551	Ø 2,22
4	1547	Ø 0,97	4	703	Ø 1,74	4	310	Ø 2,96	4	310	Ø 2,96	4	310	Ø 2,96	4	310	Ø 2,96
5	990	Ø 1,21	5	450	Ø 2,18	5	199	Ø 3,70	5	199	Ø 3,70	5	199	Ø 3,70	5	199	Ø 3,70

Optical accessories

SASSO MAXI

TYPE	Ø-H (mm)	ORDER CODE
honeycomb	119-11	0 4 8 - 2 2 9 1 3 1
linear prismatic lens	119-11	0 4 8 - 2 2 9 2 3 1
snoot	119-25	0 4 8 - 2 2 9 1 1 1
snoot + honeycomb	119-25	0 4 8 - 2 2 9 1 2 1

use only 1 optical accessory



Inspiration

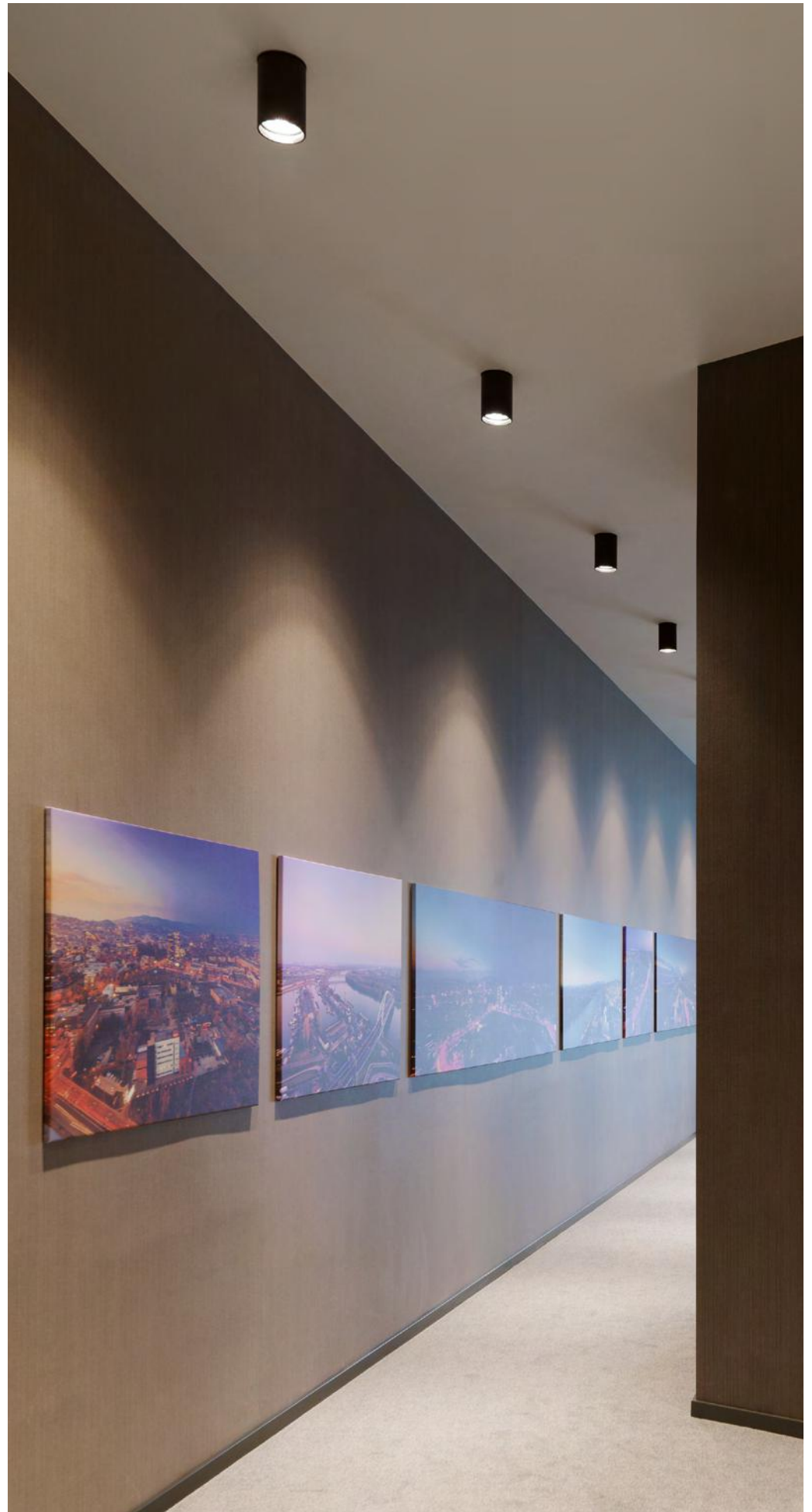
Panorama City Showroom
Bratislava, Slovakia

SOLUTION
SASSO TOP MAXI CEILING

ARCHITECT
CADÉ, s.r.o.
Bratislava, Slovakia

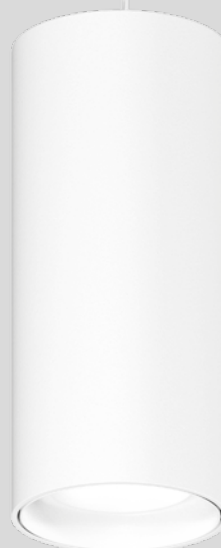
LIGHTING DESIGN
ILUMA+, s.r.o.
Bratislava, Slovakia





SASSO TOP SUSPENDED

xal.com/sasso-top-suspended



Quickinfo

GENERAL

suspended
IP20
light engine exchangeable

LED

COB LED module
up to 100lm/W
2700K, 3000K, 4000K
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

beam angle 17°, 24°, 36° (MIDI)
beam angle 14°, 25°, 41° (MAXI)
optical accessories

ELECTRICAL

non DIM, DIM DALI
transparent power cable

PHYSICAL

aluminium
powder-coated

Description

DE Zylindrischer Strahler aus Aluminium; Pendelleuchte mit 2000 mm Seilabhängung; 5x0,75 mm²; Oberfläche weiß oder schwarz pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Cylindrical spotlight made of aluminium; Suspended luminaire with 2000 mm cable suspension; 5x0,75 mm²; surface white or black powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K, 3000 K and 4000 K; CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; optional DALI dimmable

Order options

COLOUR TEMPERATURE

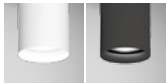
2700 K (only for MIDI)	4
3000K	5
4000 K (only for MAXI)	6

CONTROL

non DIM	1
DIM DALI	3

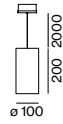
MATERIAL COLOUR

white	7
black	8



REFLECTOR MIDI / MAXI

spot 17° / 14°	S
medium 24° / 25°	M
flood 36° / 41°	F



SASSO TOP MIDI SUSPENDED



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990 lm	0 4 8 - 2 4 5 0
	3000 K	1000 lm	

Light distribution

spot 17°			LOR 89%			medium 24°			LOR 88%			flood 36°			LOR 87%		
h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)
1	6383	Ø 0,31	1	4134	Ø 0,42	1	2423	Ø 0,65	1	2423	Ø 0,65	1	2423	Ø 0,65	1	2423	Ø 0,65
2	1596	Ø 0,61	2	1033	Ø 0,84	2	606	Ø 1,30	2	606	Ø 1,30	2	606	Ø 1,30	2	606	Ø 1,30
3	709	Ø 0,92	3	459	Ø 1,26	3	269	Ø 1,95	3	269	Ø 1,95	3	269	Ø 1,95	3	269	Ø 1,95
4	399	Ø 1,22	4	258	Ø 1,69	4	151	Ø 2,60	4	151	Ø 2,60	4	151	Ø 2,60	4	151	Ø 2,60
5	255	Ø 1,53	5	165	Ø 2,11	5	97	Ø 3,25	5	97	Ø 3,25	5	97	Ø 3,25	5	97	Ø 3,25

Optical accessories

SASSO MIDI

TYPE	Ø-H (mm)	ORDER CODE
honeycomb	74-11	0 4 8 - 2 1 9 1 3 1
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1
snoot	74-25	0 4 8 - 2 1 9 1 1 1
snoot + honeycomb	74-25	0 4 8 - 2 1 9 1 2 1

use only 1 optical accessory



SASSO TOP MAXI SUSPENDED



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2600 lm	0 4 8 - 2 5 5 0
	4000 K	2800 lm	

Light distribution

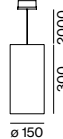
spot 14°			LOR 83%			medium 25°			LOR 84%			flood 41°			LOR 82%		
h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)
1	24747	Ø 0,24	1	11250	Ø 0,44	1	4963	Ø 0,74	1	4963	Ø 0,74	1	4963	Ø 0,74	1	4963	Ø 0,74
2	6187	Ø 0,48	2	2813	Ø 0,87	2	1241	Ø 1,48	2	1241	Ø 1,48	2	1241	Ø 1,48	2	1241	Ø 1,48
3	2750	Ø 0,73	3	1250	Ø 1,31	3	551	Ø 2,22	3	551	Ø 2,22	3	551	Ø 2,22	3	551	Ø 2,22
4	1547	Ø 0,97	4	703	Ø 1,74	4	310	Ø 2,96	4	310	Ø 2,96	4	310	Ø 2,96	4	310	Ø 2,96
5	990	Ø 1,21	5	450	Ø 2,18	5	199	Ø 3,70	5	199	Ø 3,70	5	199	Ø 3,70	5	199	Ø 3,70

Optical accessories

SASSO MAXI

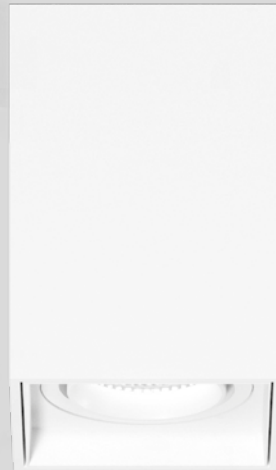
TYPE	Ø-H (mm)	ORDER CODE
honeycomb	119-11	0 4 8 - 2 2 9 1 3 1
linear prismatic lens	119-11	0 4 8 - 2 2 9 2 3 1
snoot	119-25	0 4 8 - 2 2 9 1 1 1
snoot + honeycomb	119-25	0 4 8 - 2 2 9 1 2 1

use only 1 optical accessory



KARO TOP

xal.com/karo-top



Quickinfo

GENERAL

surface mounted
IP20
light engine exchangeable

LED

COB LED module
up to 77 lm/W
2700K, 3000K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

beam angle 17°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Kubischer Aufbaustrahler aus Aluminium; Oberfläche weiß oder schwarz pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; optional DALI-dimmbar

EN Cubic surface mounted spotlight made of aluminium; surface white or black powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; optional DALI dimmable

Order options

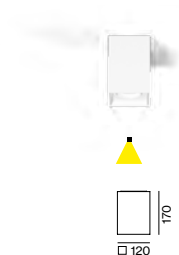
COLOUR TEMPERATURE	
2700 K	4
3000 K	5

CONTROL	
non DIM	1
DIM DALI	3

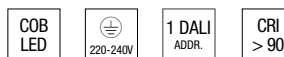
MATERIAL COLOUR	
white	7
black	8



REFLECTOR	
spot 17°	S
medium 24°	M
flood 36°	F



KARO TOP



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	990 lm	0 4 8 - 4 4 3 0
	3000 K	1000 lm	◆ ◆ ◆ ▲

Light distribution

spot 17°			LOR 89%			medium 24°			LOR 88%			flood 36°			LOR 87%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	6383	ø 0,31	1	4134	ø 0,42	1	2423	ø 0,65	1	2423	ø 0,65	1	2423	ø 0,65	1	2423	ø 0,65
2	1596	ø 0,61	2	1033	ø 0,84	2	606	ø 1,30	2	606	ø 1,30	2	606	ø 1,30	2	606	ø 1,30
3	709	ø 0,92	3	459	ø 1,26	3	269	ø 1,95	3	269	ø 1,95	3	269	ø 1,95	3	269	ø 1,95
4	399	ø 1,22	4	258	ø 1,69	4	151	ø 2,60	4	151	ø 2,60	4	151	ø 2,60	4	151	ø 2,60
5	255	ø 1,53	5	165	ø 2,11	5	97	ø 3,25	5	97	ø 3,25	5	97	ø 3,25	5	97	ø 3,25

Optical accessories

HONEYCOMB, LENSE AND SNOOT

TYPE	Ø-H (mm)	ORDER CODE
honeycomb	74-11	0 4 8 - 2 1 9 1 3 1
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1
snoot	74-25	0 4 8 - 2 1 9 1 1 1
snoot + honeycomb	74-25	0 4 8 - 2 1 9 1 2 1

use only 1 optical accessory



Inspiration

Private Residence
Klagenfurt, Austria

SOLUTION
KARO TOP

ARCHITECT
spado architects
Klagenfurt, Austria





GRID SURFACE

xal.com/grid



Quickinfo

GENERAL

surface mounted
IP20

LED

High-power LED
up to 55 lm/W
3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
lens optics
glare reduction

ELECTRICAL

DIM DALI

PHYSICAL

aluminium composite panel

Description

DE Quadratische Leuchte mit Aluminium-Verbundplatte; sehr flache Bauform; Oberfläche der Verbundplatte schwarz Hochglanz, weiß Hochglanz oder gebürstetes Aluminium; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; zurückversetzte LED Einzellichtpunkte symmetrisch angeordnet; optimale Entblendung durch schwarzen Stufenreflektor; dennoch erhöhte Effizienz durch spezielle Linsentechnik; eingesetzte Linsen mit breiter Strahlungscharakteristik; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar

EN Square luminaire with aluminium composite panel; ultra low-profile design; surface of the composite board black or white high gloss or brushed aluminium; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; inset LED single light points arranged symmetrically; optimum glare-free lighting levels by black reflector; nevertheless increased efficiency through special lens technology; inserted lenses with wide radiation characteristic; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable

GRID-IN

[page 108](#)

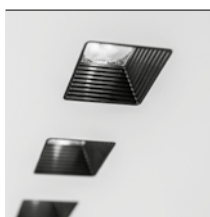


DOT

[page 272](#)



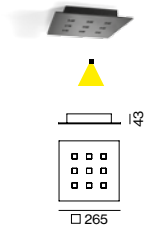
Features



glare-control by
cone-shaped opening

Order options

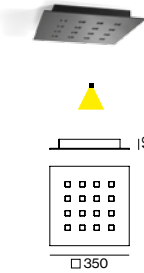
MATERIAL COLOUR	
brushed aluminium	<input checked="" type="checkbox"/> 5
black high gloss	<input type="checkbox"/> S
white high gloss	<input type="checkbox"/> H



GRID 250 SURFACE



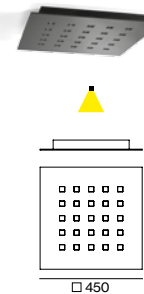
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	580 lm	0 7 2 - 4 1 2 2 5 3 <input checked="" type="checkbox"/> F



GRID 350 SURFACE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19 W	3000 K	1000 lm	0 7 2 - 4 1 3 2 5 3 <input checked="" type="checkbox"/> F

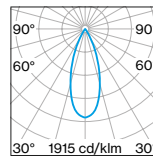


GRID 450 SURFACE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29 W	3000 K	1600 lm	0 7 2 - 4 1 4 2 5 3 <input checked="" type="checkbox"/> F

Light distribution



Flood 37°
direct
LOR 80 %

BO 55 BASIC

SURFACE / CEILING

xal.com/bo-55-basic



Quickinfo

GENERAL

surface mounted

IP20

several mounting options

LED

COB LED module

up to 80lm/W

2700K, 3000K

CRI > 90

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination

beam angle 6°, 14°, 23°, 33°

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

Description

DE Strahlerelement aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; Konverter im Strahlerkopf integriert; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 2700 K und 3000 K; CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit vier verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II

EN Spotlight element in die-cast aluminium; surface white or black powder coated; spotlight head 355° rotatable and 85° tiltable; converter integrated into spotlight head; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient COB LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 90; min. 80 % of the luminous flux after 50,000 hours; high quality aluminium reflector with spherical facet finish; precise radiation characteristic with four different beam angles; installed and exchanged without tools; protection class IP20; PC II

BO 55 BASIC TRACK

[page 538](#)



Features



glare-free due to
recessed LED

Order options

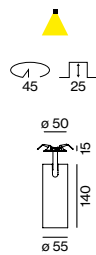
COLOUR TEMPERATURE	
2700K	4
3000K	5

MATERIAL COLOUR	
white	7
black	8



REFLECTOR	
spot 14°	S
medium 23°	M
flood 33°	F

LED LENS	
super spot 6°	V



BO 55 BASIC SURFACE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	2700K	720lm	053 - 3090::1
	3000K	720lm	

BO 55 BASIC CEILING



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	2700K	720lm	053 - 3080::1
	3000K	720lm	

Light distribution

super spot 6° LOR 85% spot 14° LOR 74%

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	24238	ø 0,10	1	6792	ø 0,25
2	6060	ø 0,21	2	1698	ø 0,50
3	2693	ø 0,31	3	755	ø 0,75
4	1515	ø 0,42	4	425	ø 1,00
5	970	ø 0,52	5	272	ø 1,25

medium 23° LOR 73% flood 33° LOR 71%

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2959	ø 0,40	1	1835	ø 0,60
2	740	ø 0,80	2	459	ø 1,19
3	329	ø 1,20	3	204	ø 1,79
4	185	ø 1,60	4	115	ø 2,39
5	118	ø 2,00	5	73	ø 2,98

DIS

xal.com/dis

Quickinfo

GENERAL

surface mounted

IP20

several mounting options

LED

COB LED module

up to 63lm/W

3000K

CRI > 90

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

beam angle 23°, 36°

lens optics

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

Description

DE Scheibenförmiges Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Aufbaugehäuse durch Kugelschnappsystem; 360° dreh- und 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Leuchtenkopf wahlweise in chrom; Einbau auch in Einbaugeschäften möglich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

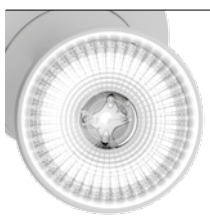
EN Disk-shaped spotlight element in die-cast aluminium; installation without tools in surface mounted housing with ball catch system; 360° rotatable and 85° tiltable; surface white or black powder coated; luminaire head with chrome option; installation also possible in recessed housings; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality single lens; precise radiation characteristic with two different beam angles; protection class IP20; PC II; optional DALI dimmable

DIS

TRACK

[page 558](#)

Features



lens optics

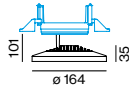
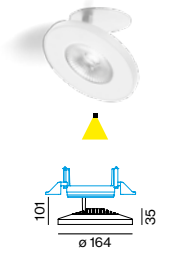
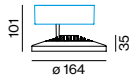
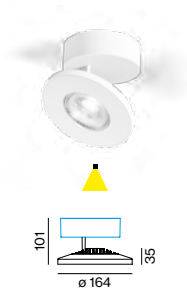
Order options

CONTROL	
non DIM	3
DIM DALI	2

MATERIAL COLOUR	
white/chrome	5
white	7
black/chrome	8
black	9



REFLECTOR	
medium 23°	M
flood 36°	F

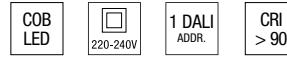


DIS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	3000K	690lm	049 - 111153
16W	3000K	910lm	049 - 111253

DIS



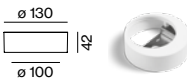
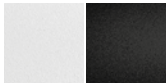
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	3000K	690lm	049 - 11115
16W	3000K	910lm	049 - 11125

Light distribution

medium 23°			LOR 79%			flood 36°			LOR 77%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	3581	ø 0,40	1	1657	ø 0,65	1	1657	ø 0,65	1	1657	ø 0,65
2	895	ø 0,81	2	414	ø 1,30	2	414	ø 1,30	2	414	ø 1,30
3	398	ø 1,21	3	184	ø 1,95	3	184	ø 1,95	3	184	ø 1,95
4	224	ø 1,61	4	104	ø 2,60	4	104	ø 2,60	4	104	ø 2,60
5	143	ø 2,02	5	66	ø 3,25	5	66	ø 3,25	5	66	ø 3,25

Order options

MATERIAL COLOUR	
white	7
black	8



Mounting accessories

SURFACE HOUSING

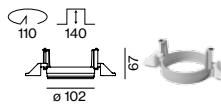
TYPE	ORDER CODE
surface housing	049 - 119111

do not use with DIM DALI (on request)

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings

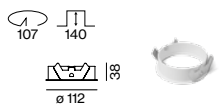
CEILING THICKNESS (mm)	ORDER CODE
8-25	052 - 1921420



MOUNTING RING WITH TRIM

for intermediate ceilings

CEILING THICKNESS (mm)	ORDER CODE
2-25	052 - 192243



KIS

xal.com/kis

Quickinfo

GENERAL

surface mounted

IP20

several mounting options

LED

COB LED module

up to 49lm/W

3000K

CRI > 90

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

beam angle 23°, 36°

lens optics

glare reduction

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

Description

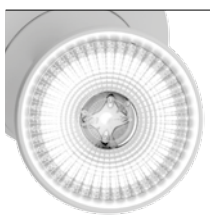
DE Rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Aufbauehäuse durch Kugelschnappsystem; 360° dreh- und 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Einbau auch in Einbauehäusen möglich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round spotlight element of die-cast aluminium; installation without tools in surface mounted housing with ball catch system; 360° rotatable and 85° tiltable; surface white or black powder coated; installation also possible in recessed housings; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; high quality single lens; precise radiation characteristic with two different beam angles; protection class IP20; PC II; optional DALI dimmable

KIS TRACK

[page 560](#)

Features



lens optics

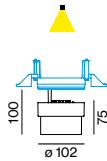
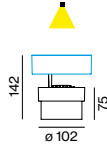
Order options

CONTROL	
non DIM	3
DIM DALI	2

MATERIAL COLOUR	
white	7
black	8



REFLECTOR	
medium 23°	M
flood 36°	F

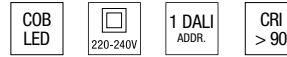


KIS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	540 lm	0 4 9 - 1 7 1 1 5 3
16 W	3000 K	700 lm	0 4 9 - 1 7 1 2 5 3

KIS



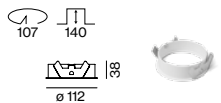
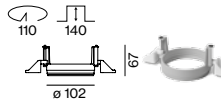
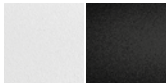
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	540 lm	0 4 9 - 1 7 1 1 5
16 W	3000 K	700 lm	0 4 9 - 1 7 1 2 5

Light distribution

medium 23°			flood 36°		
h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)
1	2757	Ø 0,40	1	1193	Ø 0,65
2	689	Ø 0,81	2	298	Ø 1,30
3	306	Ø 1,21	3	133	Ø 1,95
4	172	Ø 1,61	4	75	Ø 2,60
5	110	Ø 2,02	5	48	Ø 3,25

Order options

MATERIAL COLOUR	
white	7
black	8



Mounting accessories

SURFACE HOUSING

TYPE	ORDER CODE
surface housing	0 4 9 - 1 1 9 1 1 1

do not use with DIM DALI (on request)

MOUNTING SET TRIMLESS

for installation in plasterboard ceilings

CEILING THICKNESS (mm)	ORDER CODE
8-25	0 5 2 - 1 9 2 1 4 2 0

MOUNTING RING WITH TRIM

for intermediate ceilings

CEILING THICKNESS (mm)	ORDER CODE
2-25	0 5 2 - 1 9 2 2 4 3

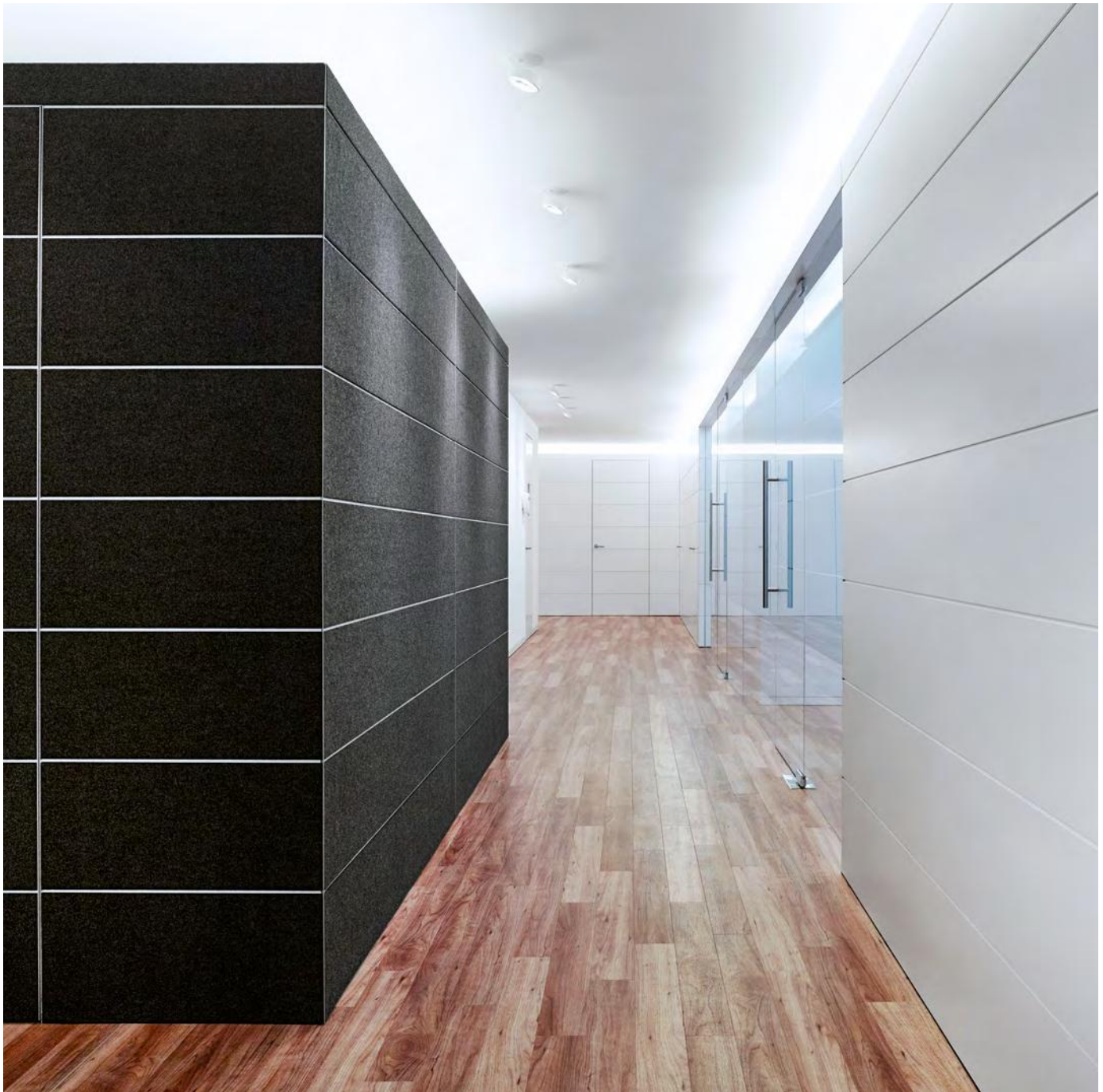
Inspiration

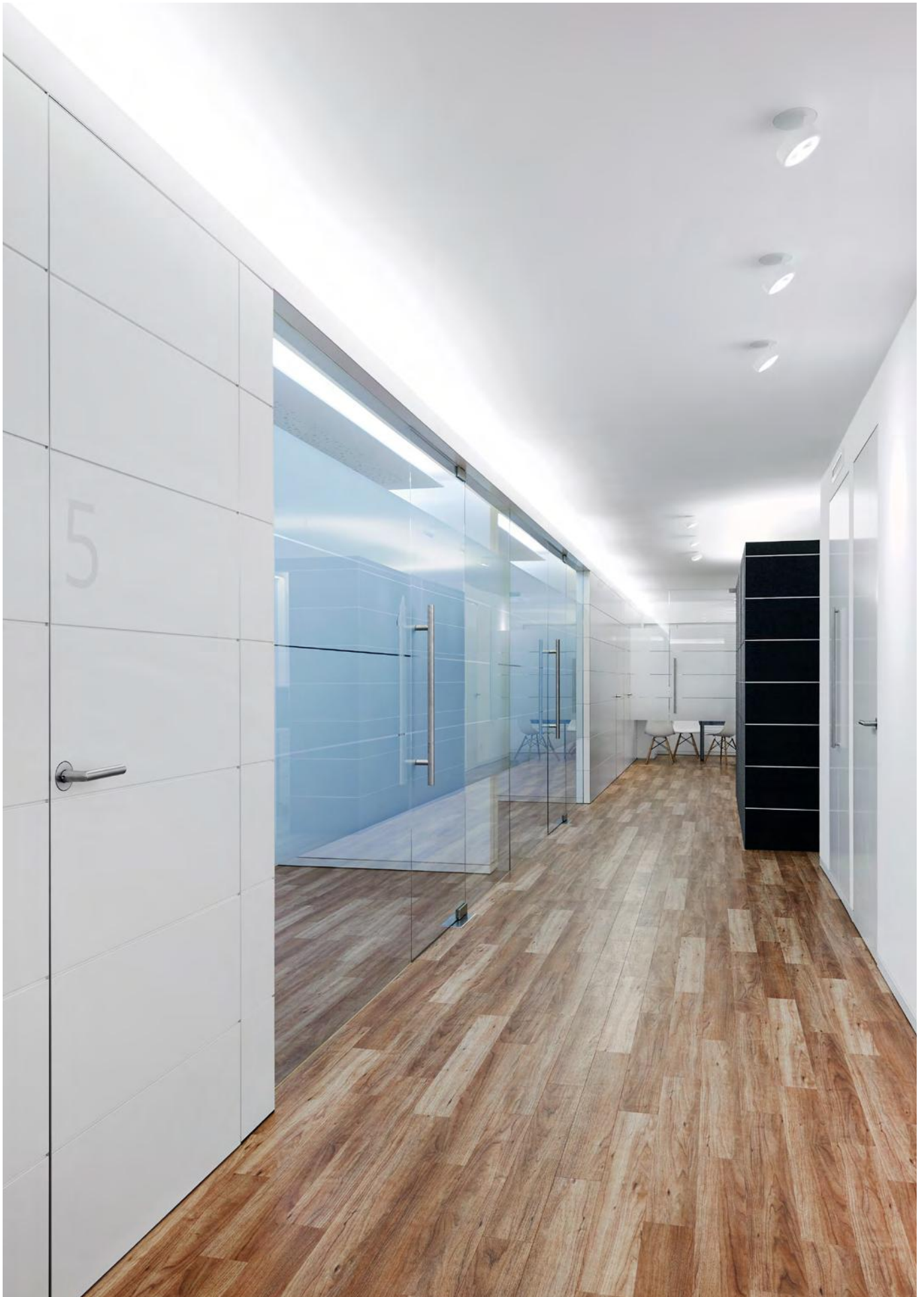
Dentist Dr. Fuchs
Ingolstadt, Germany

SOLUTION
KIS customised

ARCHITECT
Göke Praxiskonzepte
Düsseldorf, Germany

LIGHTING DESIGN
Göke Praxiskonzepte
Düsseldorf, Germany





CORD

xal.com/cord



Quickinfo

GENERAL

suspended

IP20

several mounting options

LED

High-power LED/COB LED module
up to 64lm/W

2700K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h (CORD)

L80 / 50.000 h (CORD MEDIUM)

OPTICAL

direct illumination

beam angle 28°, 33°

lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium

chrome

glass cover

Description

DE Dekorative Pendelleuchte aus Aluminium und mundgeblasenem Glaszylinder mit gewellter Oberfläche; Glaszylinder in 4 Farben verfügbar; Pendelleuchte mit 2000 mm Seilabhängung; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 2700 K; min. 70 % bzw. 80 % (CORD MEDIUM) des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK III; Konverter im Baldachin enthalten, wahlweise als Einbau- oder Aufbauvariante bzw. als Profil für Mehrfachabhängung

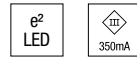
EN Decorative suspended luminaire in aluminium and blown glass cylinder with wavy surface; glass cylinder available in 4 colours; Suspended luminaire with 2000 mm cable suspension; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 2700 K; min. 70% or 80% (CORD MEDIUM) of the luminous flux after 50,000 hours; protection class IP20; PC III; Converter included in canopy, either recessed or surface mounted version or as a profile for multiple suspension

Order options

MATERIAL COLOUR	
clear-silver	0
chrome	6
white	7
black	8



CORD



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	320lm	0 5 3 - 5 4 1 0 4 1 <input checked="" type="checkbox"/> M

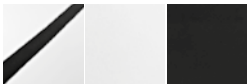
Light distribution

medium 28° LOR 75%

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49

Order options

MATERIAL COLOUR	
chrome	4
white	7
black	8



Mounting accessories

RECESSED CANOPY

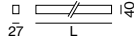
TYPE	Ø-H (mm)	ORDER CODE
1 spotlight	84-20	0 5 3 - 5 1 2 0 0 1 <input checked="" type="checkbox"/>

CEILING CANOPY

TYPE	Ø-H (mm)	ORDER CODE
1 spotlight	84-45	0 5 3 - 5 1 1 0 0 1 <input checked="" type="checkbox"/>

TRACK

TYPE	L-H (mm)	ORDER CODE
2-3 spotlights	600-40	0 5 3 - 5 1 6 0 0 1 <input checked="" type="checkbox"/>
3-6 spotlights	1200-40	0 5 3 - 5 1 7 0 0 1 <input checked="" type="checkbox"/>
6-9 spotlights	1800-40	0 5 3 - 5 1 8 0 0 1 <input checked="" type="checkbox"/>



Order options

MATERIAL COLOUR	
clear-silver / chrome	0
chrome / chrome	6
white / white	7
black / black	8



CORD MEDIUM



TYPE	COLOUR TEMP.	LUM. FLUX	H (mm)	ORDER CODE
5 W	2700K	280lm	330	0 5 3 - 5 6 4 0 4 1 <input checked="" type="checkbox"/> M
5 W	2700K	280lm	530	0 5 3 - 5 7 4 0 4 1 <input checked="" type="checkbox"/> M

Light distribution

medium 33° LOR 59%

h (m)	E (lx)	ø (m)
1	768	ø 0,59
2	192	ø 1,18
3	85	ø 1,78
4	48	ø 2,37
5	31	ø 2,96

TULA

xal.com/tula



Quickinfo

GENERAL

suspended
 IP20
 several mounting options

LED

High-power LED/COB LED module
 up to 64lm/W
 2700K
 CRI > 80

ESTIMATED LED LIFETIME

L70 / 50.000 h (TULA NANO)
 L80 / 50.000 h (TULA MICRO)

OPTICAL

direct illumination
 beam angle 28°, 33°
 lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium
 chrome
 powder-coated

Description

DE Dekorative Pendelleuchte aus Aluminium; Oberfläche chrom poliert, schwarz oder grau pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 2700K; min. 70 % bzw. 80 % (TULA MICRO) des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK III; Konverter im Baldachin enthalten, wahlweise als Einbau- oder Aufbauvariante bzw. als Profil für Mehrfachabhängung

EN Decorative suspended luminaire in aluminium; surface polished chrome, black or grey powder coated; Suspended luminaire with 2000 mm cable suspension; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 2700K; min. 70 % or 80 % (TULA MICRO) of the luminous flux after 50,000 hours; protection class IP20; PC III; Converter included in canopy, either recessed or surface mounted version or as a profile for multiple suspension

Order options

MATERIAL COLOUR	
chrome	4
grey	6
black	8



TULA NANO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	320lm	0 5 3 - 5 2 2 0 4 1 <input checked="" type="checkbox"/> M

Light distribution

medium 28° LOR 75%

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49



TULA MICRO



TYPE	COLOUR TEMP.	LUM. FLUX	H (mm)	ORDER CODE
5 W	2700K	280lm	300	0 5 3 - 5 3 2 1 4 1 <input checked="" type="checkbox"/> M
5 W	2700K	280lm	500	0 5 3 - 5 5 2 1 4 1 <input checked="" type="checkbox"/> M

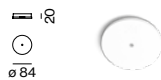
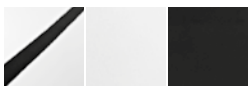
Light distribution

medium 33° LOR 59%

h (m)	E (lx)	ø (m)
1	768	ø 0,59
2	192	ø 1,18
3	85	ø 1,78
4	48	ø 2,37
5	31	ø 2,96

Order options

MATERIAL COLOUR	
chrome	4
white	7
black	8



Mounting accessories

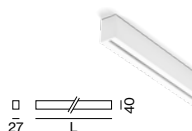
RECESSED CANOPY

TYPE	Ø-H (mm)	ORDER CODE
1 spotlight	84-20	0 5 3 - 5 1 2 0 0 1 <input checked="" type="checkbox"/>



CEILING CANOPY

TYPE	Ø-H (mm)	ORDER CODE
1 spotlight	84-45	0 5 3 - 5 1 1 0 0 1 <input checked="" type="checkbox"/>



TRACK

TYPE	L-H (mm)	ORDER CODE
2-3 spotlights	600-40	0 5 3 - 5 1 6 0 0 1 <input checked="" type="checkbox"/>
3-6 spotlights	1200-40	0 5 3 - 5 1 7 0 0 1 <input checked="" type="checkbox"/>
6-9 spotlights	1800-40	0 5 3 - 5 1 8 0 0 1 <input checked="" type="checkbox"/>

Optical accessories

LAMP RING FOR TULA MICRO



COLOUR	Ø-H (mm)	ORDER CODE
gold	43-26	0 5 3 - 5 1 4 0 0 0 9

Inspiration

Tourism Association
Obergurgl, Austria

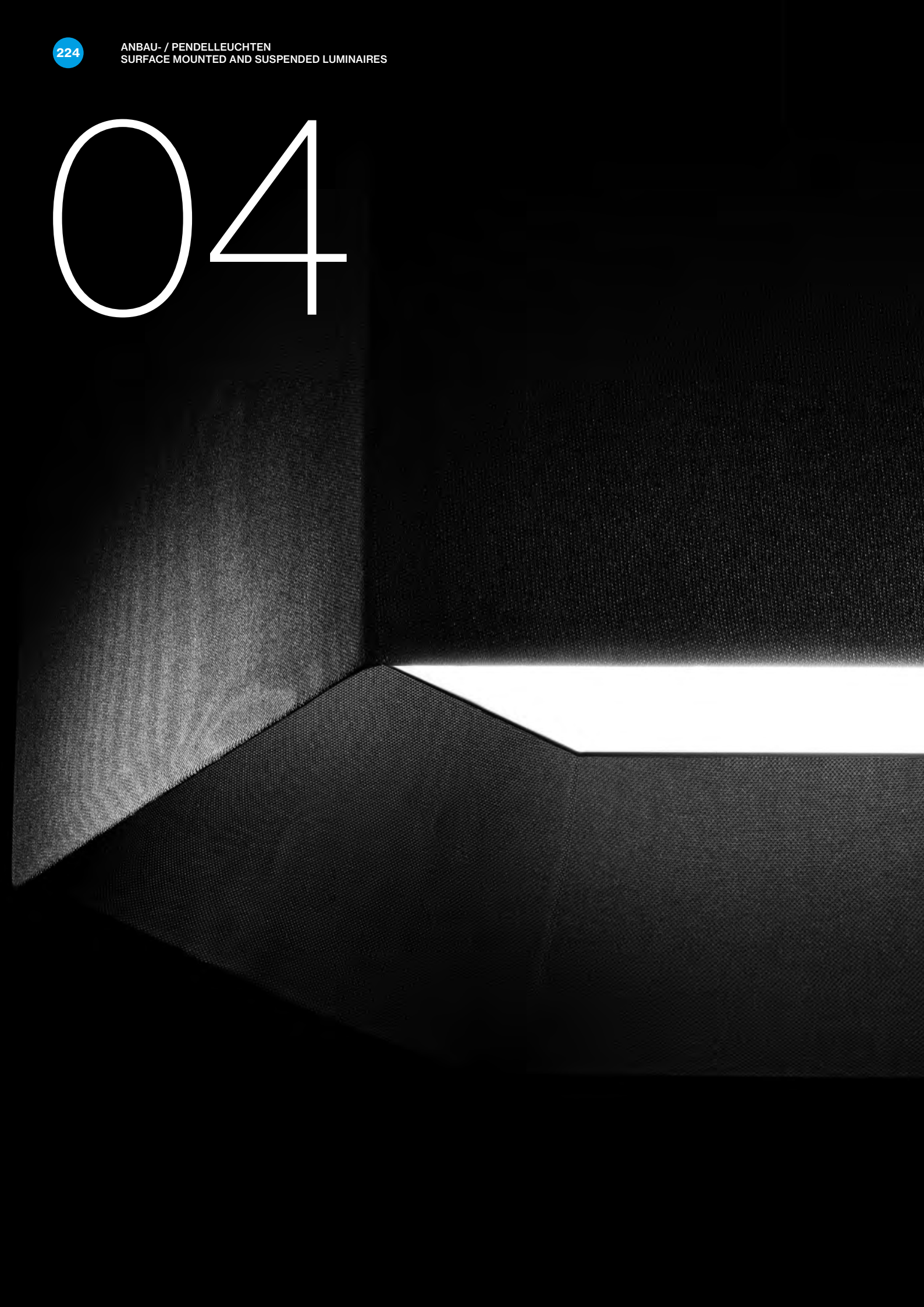
SOLUTION
TULA MICRO
SASSO TOP MIDI

ARCHITECT
a⁴ architects ZT GmbH
Breitenwang, Austria





04



ANBAU- / PENDELLEUCHTEN SURFACE MOUNTED AND SUSPENDED LUMINAIRES



**SONO
SURFACE**

→ 226



**SONO
SUSPENDED**

→ 228



**SONO LOOP
SURFACE**

→ 230



**SONO LOOP
SUSPENDED**

→ 232



**VELA ROUND
CEILING**

→ 236



**VELA ROUND
SUSPENDED**

→ 240



**DISC-O
SURFACE**

→ 244



**DISC-O
SUSPENDED**

→ 248



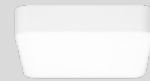
**CIRO
CEILING**

→ 252



**CIRO
SUSPENDED**

→ 254



**VELA RETRO
CEILING**

→ 258



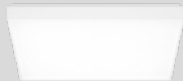
**VELA RETRO
SUSPENDED**

→ 260



**SONIC
SUSPENDED**

→ 264



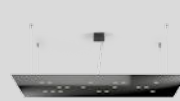
**FLOW
SURFACE**

→ 268



**FLOW
SUSPENDED**

→ 270



**DOT
SUSPENDED**

→ 272



**LITO 60
SUSPENDED**

→ 276



**MINO
SURFACE**

→ 278



**MINO
SUSPENDED**

→ 282



**MINO 60 CIRCLE
CEILING**

→ 286



**MINO 60 CIRCLE
SUSPENDED**

→ 288



**UFO
CEILING**

→ 292



**UFO
SUSPENDED**

→ 294



**TUBO 100 / 150
SURFACE**

→ 298



**TUBO 100 / 150
SUSPENDED**

→ 300



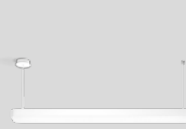
**TASK
CEILING**

→ 302



**TASK
SUSPENDED**

→ 306



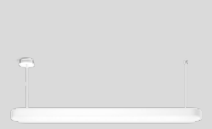
**METRIC
SUSPENDED**

→ 310



**PLANE
SUSPENDED**

→ 312



**PLANE SOFT
SUSPENDED**

→ 314



**HEX-O
CEILING**

→ 316



**HEX-O
SUSPENDED**

→ 322



**TRIANGLE
SURFACE**

→ 326



**TRIANGLE
SUSPENDED**

→ 328



**HELIOS
SUSPENDED**

→ 330



**GEAR 3
SUSPENDED**

→ 332

SONO SURFACE

xal.com/sono-surface



Quickinfo

GENERAL

surface mounted
IP50, IP20

LED

Mid-power LED
up to 141lm/W
3000 K, 4000 K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

SONO FLEX RECESSED

[page 128](#)



SONO SURFACE IP54

[page 592](#)

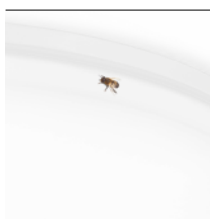


Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP50, optional IP54; SK I; optional DALI-dimmbare mit CLO oder RCS-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in die-cast aluminium; surface white powder coated; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP50, optional IP54; PC I; optional DALI dimmable with CLO or RCS function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



IP50 (dust and insect protection)



sturdy design



easy mounting by click-mechanism



direct/indirect light distribution

Order options

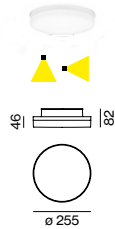
COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆️
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S
Combination RCS + emergency not possible	

MATERIAL COLOUR	
white	



EMERGENCY	●
1h accupack	N L 1
3h accupack	N L 3
Combination emergency + RCS not possible	

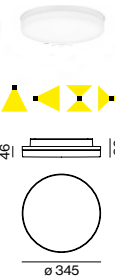


SONO 260 SURFACE



DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7W e ²	3000K	880lm	071 - 9126 ☐☐ ⬆️ 70
	4000K	920lm	



SONO 350 SURFACE

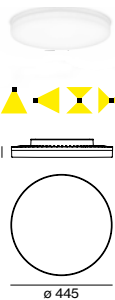


DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	1000lm	071 - 9137 ☐☐ ⬆️ 70
	4000K (☉)	1100lm	
15W e ²	3000K (☉)	1800lm	071 - 9136 ☐☐ ⬆️ 70 ●
	4000K (☉)	1900lm	
15W e ²	tunable white (2 DALI)		071 - 91360370

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W e	3000K	1400lm	071 - 9139 ☐☐ 170
	4000K	1500lm	
21W e ²	3000K	2500lm	071 - 9138 ☐☐ ⬆️ 70
	4000K	2600lm	



SONO 450 SURFACE

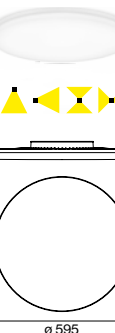


DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1600lm	071 - 9147 ☐☐ ⬆️ 70
	4000K (☉)	1700lm	
23W e ²	3000K (☉)	2900lm	071 - 9146 ☐☐ ⬆️ 70 ●
	4000K (☉)	3000lm	
23W e ²	tunable white (2 DALI)		071 - 91460370

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17W e	3000K	2100lm	071 - 9149 ☐☐ 170
	4000K	2200lm	
31W e ²	3000K	3800lm	071 - 9148 ☐☐ ⬆️ 70
	4000K	4000lm	



SONO 600 SURFACE



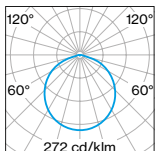
DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	3100lm	071 - 9157 ☐☐ ⬆️ 70
	4000K (☉)	3300lm	
43W e ²	3000K (☉)	5500lm	071 - 9156 ☐☐ ⬆️ 70
	4000K (☉)	5700lm	
43W e ²	tunable white (2 DALI)		071 - 91560370

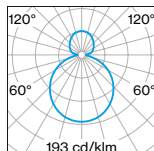
DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
32W e	3000K	4200lm	071 - 9159 ☐☐ 170
	4000K	4400lm	
61W e ²	3000K	7400lm	071 - 9158 ☐☐ ⬆️ 70
	4000K	7700lm	

Light distribution



Opal
direct
LOR 86%



Opal
direct / indirect
LOR 82%

SONO SUSPENDED

xal.com/sono-suspended



Quickinfo

GENERAL

suspended
IP50, IP20
several mounting options

LED

Mid-power LED
up to 141lm/W
3000K, 4000K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h/3h
transparent feeder cable

PHYSICAL

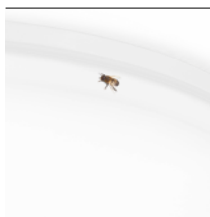
aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 2000mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendenabhängung (chrom), Einspeiseleitung in Pendenrohr; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP50, optional IP54; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in die-cast aluminium; surface white powder coated; Suspended luminaire with 2000mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP50, optional IP54; PC I; optional DALI dimmable with CLO or RCS function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



IP50 (dust and insect protection)

Order options

SUSPENSION	
cable 2000 mm (not for ø 350)	2
rod 1000 mm	4
rod 2000 mm	6

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☾)	S

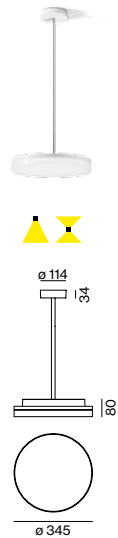
Combination RCS + emergency not possible

MATERIAL COLOUR
white



EMERGENCY	
1h accupack	N L 1
3h accupack	N L 3

Combination emergency + RCS not possible



SONO 350 SUSPENDED

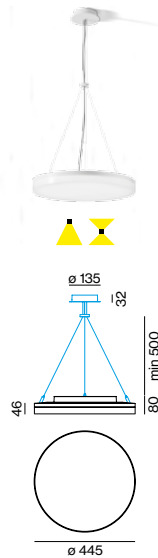


DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	1000lm	0 7 1 - 9 3 3 7 :: 7 0
	4000K (☉)	1100lm	
15W e ²	3000K (☉)	1800lm	0 7 1 - 9 3 3 6 :: 7 0 ●
	4000K (☉)	1900lm	
15W e ²	tunable white (2 DALI)		0 7 1 - 9 3 6 0 3 7 0

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W e	3000K	1400lm	0 7 1 - 9 3 9 :: 1 7 0
	4000K	1500lm	
21W e ²	3000K	2500lm	0 7 1 - 9 3 8 :: 7 0
	4000K	2600lm	



SONO 450 SUSPENDED

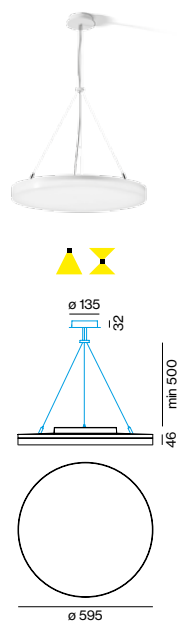


DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1600lm	0 7 1 - 9 3 7 :: 7 0
	4000K (☉)	1700lm	
23W e ²	3000K (☉)	2900lm	0 7 1 - 9 3 4 6 :: 7 0 ●
	4000K (☉)	3000lm	
23W e ²	tunable white (2 DALI)		0 7 1 - 9 3 4 6 0 3 7 0

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17W e	3000K	2100lm	0 7 1 - 9 3 4 9 :: 1 7 0
	4000K	2200lm	
31W e ²	3000K	3800lm	0 7 1 - 9 3 4 8 :: 7 0
	4000K	4000lm	



SONO 600 SUSPENDED



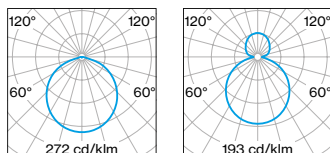
DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	3100lm	0 7 1 - 9 3 5 7 :: 7 0
	4000K (☉)	3300lm	
43W e ²	3000K (☉)	5500lm	0 7 1 - 9 3 5 6 :: 7 0
	4000K (☉)	5700lm	
43W e ²	tunable white (2 DALI)		0 7 1 - 9 3 5 6 0 3 7 0

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
32W e	3000K	4200lm	0 7 1 - 9 3 5 9 :: 1 7 0
	4000K	4400lm	
61W e ²	3000K	7400lm	0 7 1 - 9 3 5 8 :: 7 0
	4000K	7700lm	

Light distribution



Opal
direct
LOR 86 %

Opal
direct / indirect
LOR 82 %

SONO LOOP SURFACE

xal.com/sono-loop-surface



Quickinfo

GENERAL

surface mounted
IP50

LED

Mid-power LED
up to 129lm/W
3000 K, 4000 K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h/3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

SONO LOOP SURFACE IP54

[page 594](#)

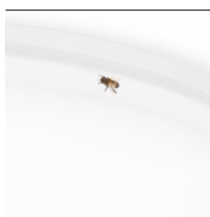


Description

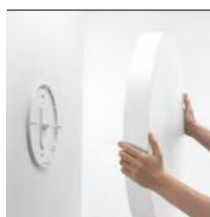
DE Runder Leuchtenkörper aus Aluminiumdruckguss, Oberfläche weiß pulverbeschichtet; aufgesetzter Ring aus gerolltem und nahtlos verschweißtem Aluminiumprofil, Oberfläche weiß, grau oder schwarz pulverbeschichtet; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP50, optional IP54; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in die-cast aluminium, surface white powder coated; fitted bezel in rolled, seamless welded aluminium profile, white surface, powder coated grey or black; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP50, optional IP54; PC I; optional DALI dimmable with CLO or RCS function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



IP50 (dust and insect protection)



easy mounting by click-mechanism



direct/indirect light distribution



narrow edge

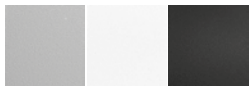
Order options

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆️
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

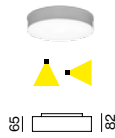
Combination RCS + emergency not possible

MATERIAL COLOUR	☑️
grey	6
white	7
black	8



EMERGENCY	●
1h accupack	N L 1
3h accupack	N L 3

Combination emergency + RCS not possible

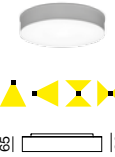


SONO LOOP 260 SURFACE



DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7W e ²	3000K	810lm	0 7 1 - 8 1 2 6 ☐☐☐☐☐☐☐☐☐
	4000K	850lm	



SONO LOOP 350 SURFACE



DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	940lm	0 7 1 - 8 1 3 7 ☐☐☐☐☐☐☐☐☐
	4000K (☉)	980lm	
15W e ²	3000K (☉)	1700lm	0 7 1 - 8 1 3 6 ☐☐☐☐☐☐☐☐☐
	4000K (☉)	1800lm	
15W e ²	tunable white (2 DALI)		0 7 1 - 8 1 3 6 0 3 ☐☐☐☐☐☐☐☐☐

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W e	3000K	1300lm	0 7 1 - 8 1 3 9 ☐☐☐☐☐☐☐☐☐
	4000K	1400lm	
21W e ²	3000K	2400lm	0 7 1 - 8 1 3 8 ☐☐☐☐☐☐☐☐☐
	4000K	2500lm	



SONO LOOP 450 SURFACE



DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1500lm	0 7 1 - 8 1 4 7 ☐☐☐☐☐☐☐☐☐
	4000K (☉)	1500lm	
23W e ²	3000K (☉)	2600lm	0 7 1 - 8 1 4 6 ☐☐☐☐☐☐☐☐☐
	4000K (☉)	2800lm	
23W e ²	tunable white (2 DALI)		0 7 1 - 8 1 4 6 0 3 ☐☐☐☐☐☐☐☐☐

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17W e	3000K	2000lm	0 7 1 - 8 1 4 9 ☐☐☐☐☐☐☐☐☐
	4000K	2100lm	
31W e ²	3000K	3500lm	0 7 1 - 8 1 4 8 ☐☐☐☐☐☐☐☐☐
	4000K	3700lm	



SONO LOOP 600 SURFACE



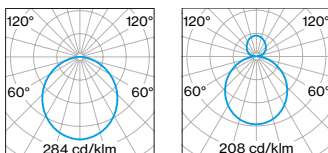
DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	2900lm	0 7 1 - 8 1 5 7 ☐☐☐☐☐☐☐☐☐
	4000K (☉)	3000lm	
43W e ²	3000K (☉)	5000lm	0 7 1 - 8 1 5 6 ☐☐☐☐☐☐☐☐☐
	4000K (☉)	5200lm	
43W e ²	tunable white (2 DALI)		0 7 1 - 8 1 5 6 0 3 ☐☐☐☐☐☐☐☐☐

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
32W e	3000K	3900lm	0 7 1 - 8 1 5 9 ☐☐☐☐☐☐☐☐☐
	4000K	4100lm	
61W e ²	3000K	6900lm	0 7 1 - 8 1 5 8 ☐☐☐☐☐☐☐☐☐
	4000K	7200lm	

Light distribution



Opal
direct
LOR 79%

Opal
direct / indirect
LOR 77%

SONO LOOP SUSPENDED

xal.com/sono-loop-suspended



Quickinfo

GENERAL

suspended
IP50, IP20
several mounting options available

LED

Mid-power LED
up to 129lm/W
3000K, 4000K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct / indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h/3h
transparent feeder cable

PHYSICAL

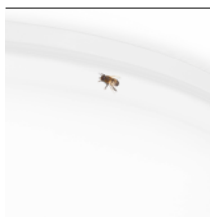
aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss, Oberfläche weiß pulverbeschichtet; aufgesetzter Ring aus gerolltem und nahtlos verschweißtem Aluminiumprofil, Oberfläche weiß, grau oder schwarz pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhangung; werkzeuglose Hohenverstellung an Leuchte; inkl. transparenter Einspeiseleitung oder mit kurzbarer Pendenabhangung (chrom), Einspeiseleitung in Pendenrohr; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flachenleuchten mit selber Bestuckung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestuckung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP50, optional IP54; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in die-cast aluminium, surface white powder coated; fitted bezel in rolled, seamless welded aluminium profile, white surface, powder coated grey or black; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP50, optional IP54; PC I; optional DALI dimmable with CLO or RCS function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



IP50 (dust and insect protection)



direct/indirect light distribution



narrow edge

Order options

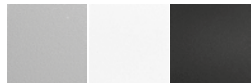
SUSPENSION	
cable 2000 mm (not for ø 350)	2
rod 1000 mm	4
rod 2000 mm	6

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☾)	S

Combination RCS + emergency not possible

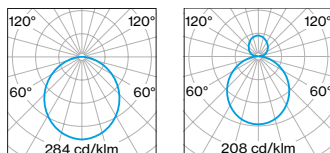
MATERIAL COLOUR	
grey	6
white	7
black	8



EMERGENCY	
1h accupack	N L 1
3h accupack	N L 3

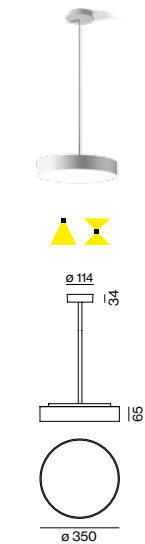
Combination emergency + RCS not possible

Light distribution



Opal
direct
LOR 79%

Opal
direct / indirect
LOR 77%



SONO LOOP 350 SUSPENDED

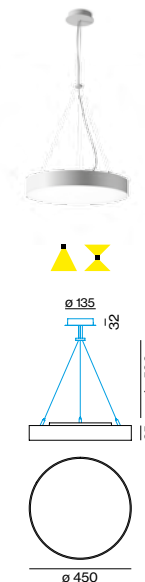


DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	940lm	0 7 1 - 8 5 3 7 :: ◆ □ ○
	4000K (☉)	980lm	
15W e ²	3000K (☉)	1700lm	0 7 1 - 8 5 3 6 :: ◆ □ ○ ●
	4000K (☉)	1800lm	
15W e ²	tunable white (2 DALI)		0 7 1 - 8 5 3 6 0 3 □ ○

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W e	3000K	1300lm	0 7 1 - 8 5 3 9 :: 1 □ ○
	4000K	1400lm	
21W e ²	3000K	2400lm	0 7 1 - 8 5 3 8 :: ◆ □ ○
	4000K	2500lm	



SONO LOOP 450 SUSPENDED

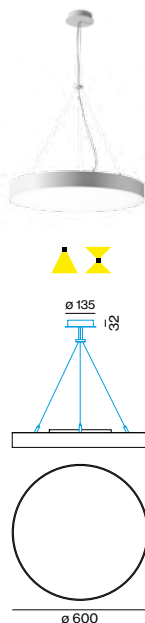


DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1500lm	0 7 1 - 8 5 4 7 :: ◆ □ ○
	4000K (☉)	1500lm	
23W e ²	3000K (☉)	2600lm	0 7 1 - 8 5 4 6 :: ◆ □ ○ ●
	4000K (☉)	2800lm	
23W e ²	tunable white (2 DALI)		0 7 1 - 8 5 4 6 0 3 □ ○

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17W e	3000K	2000lm	0 7 1 - 8 5 4 9 :: 1 □ ○
	4000K	2100lm	
31W e ²	3000K	3500lm	0 7 1 - 8 5 4 8 :: ◆ □ ○
	4000K	3700lm	



SONO LOOP 600 SUSPENDED



DIRECT IP 50

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	2900lm	0 7 1 - 8 5 5 7 :: ◆ □ ○
	4000K (☉)	3000lm	
43W e ²	3000K (☉)	5000lm	0 7 1 - 8 5 5 6 :: ◆ □ ○
	4000K (☉)	5200lm	
43W e ²	tunable white (2 DALI)		0 7 1 - 8 5 5 6 0 3 □ ○

DIRECT / INDIRECT IP 20

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
32W e	3000K	3900lm	0 7 1 - 8 5 5 9 :: 1 □ ○
	4000K	4100lm	
61W e ²	3000K	6900lm	0 7 1 - 8 5 5 8 :: ◆ □ ○
	4000K	7200lm	

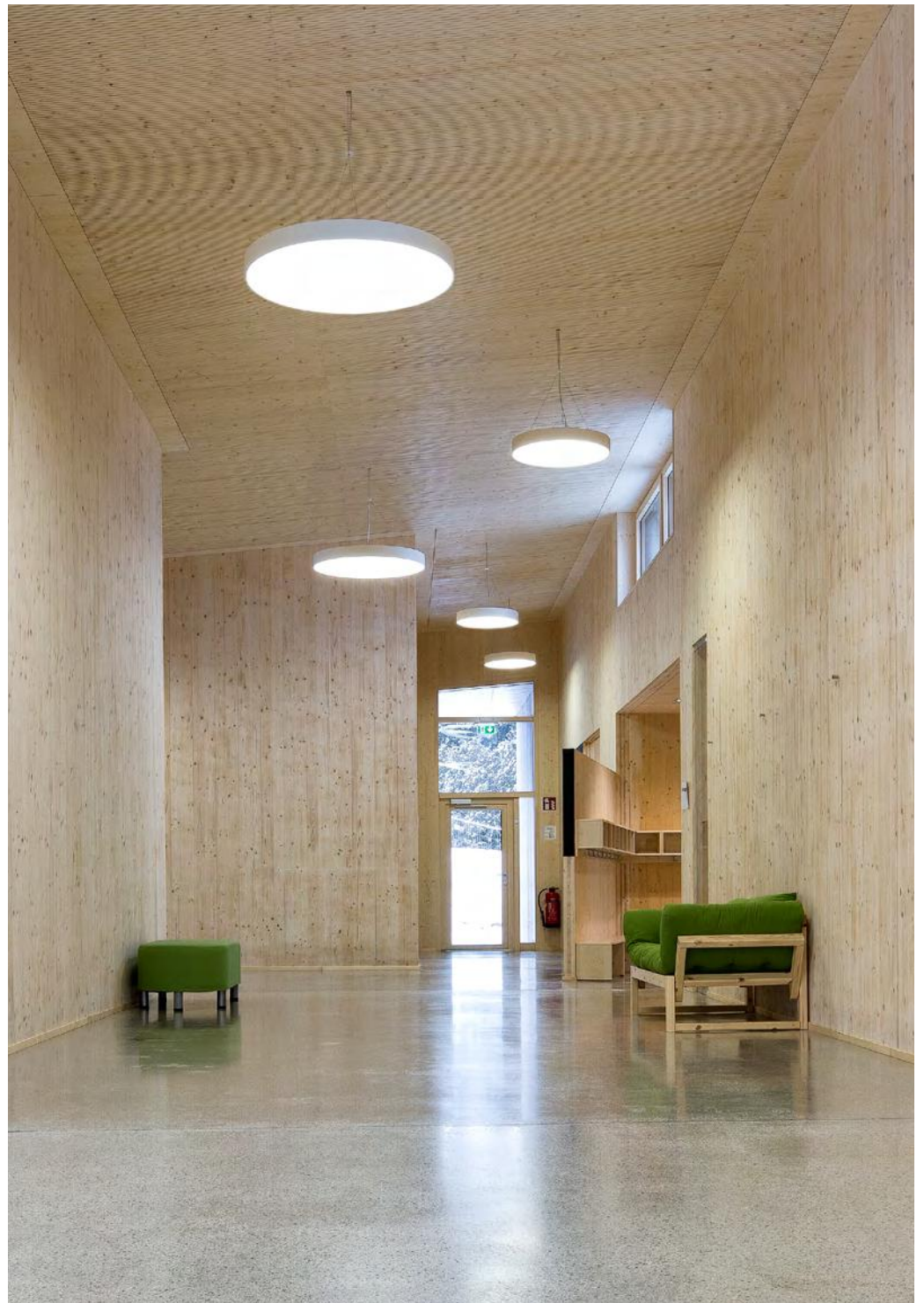
Inspiration

Nursery School
Marchtrenk, Austria

SOLUTION
SONO LOOP SUSPENDED

ARCHITECT
Dornstädter Architekten
Traun, Austria





VELA ROUND CEILING

xal.com/vela-round-ceiling



Quickinfo

GENERAL

ceiling mounted
IP20

LED

Mid-power LED
up to 135lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h/3h

PHYSICAL

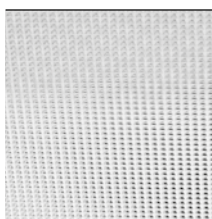
aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt; Oberfläche weiß, grau oder schwarz pulverbeschichtet; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; bis Ø 950: mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung (ab Ø 1250 mit Sicherungsschraube); direkt / indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbare mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface white, grey or black powder coated; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; up to Ø 950: micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance (from Ø 1250 with locking screw); direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



microprismatic
(UGR < 19)



direct/indirect light
distribution

Order options

COLOUR TEMPERATURE ⋮

3000K	5
4000K	6

CONTROL ⬆

non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR ▣

grey	6
white	7
black	8

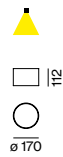


LIGHT OPTIC COVER ▣

opal	O
microprismatic	P

EMERGENCY ●

1h accupack	N L 1
3h accupack	N L 3



VELA ROUND 170 CEILING



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5W e ²	3000K	550lm	071 - 0110 ⋮ ▣ ▣
	4000K	610lm	



VELA ROUND 260 CEILING



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6W e ²	3000K	720lm	071 - 0120 ⋮ ▣ ▣
	4000K	760lm	



VELA ROUND 350 CEILING



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7W e	3000K	910lm	071 - 0131 ⋮ ▣ ▣
	4000K	960lm	
10W e ²	3000K	1200lm	071 - 0130 ⋮ ▣ ▣
	4000K	1300lm	

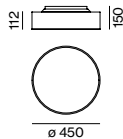


VELA ROUND 450 CEILING



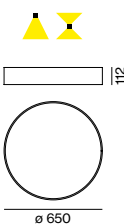
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K	1500lm	071 - 0141 ⋮ ▣ ▣
	4000K	1600lm	
18W e ²	3000K	2200lm	071 - 0140 ⋮ ▣ ▣ ●
	4000K	2300lm	



DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
18W e	3000K	2300lm	071 - 0145 ⋮ ▣ ▣
	4000K	2400lm	
30W e ²	3000K	3600lm	071 - 0144 ⋮ ▣ ▣
	4000K	3700lm	

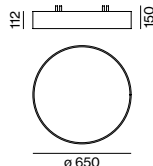


VELA ROUND 650 CEILING



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K	3000lm	071 - 0161 ⋮ ▣ ▣
	4000K	3200lm	
38W e ²	3000K	4700lm	071 - 0160 ⋮ ▣ ▣
	4000K	4900lm	



DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
32W e	3000K	4100lm	071 - 0165 ⋮ ▣ ▣
	4000K	4300lm	
57W e ²	3000K	6700lm	071 - 0164 ⋮ ▣ ▣
	4000K	7100lm	

Order options

COLOUR TEMPERATURE	☐☐
3000 K	5
4000 K	6

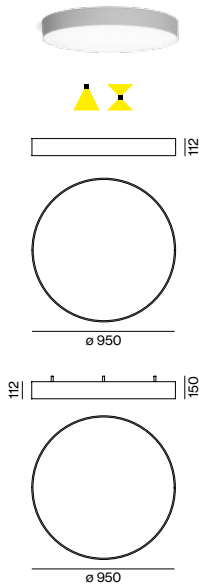
CONTROL	◆
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	☑
grey	6
white	7
black	8



LIGHT OPTIC COVER	☐
opal	O
microprismatic*	P

* not for wall



VELA ROUND 950 CEILING

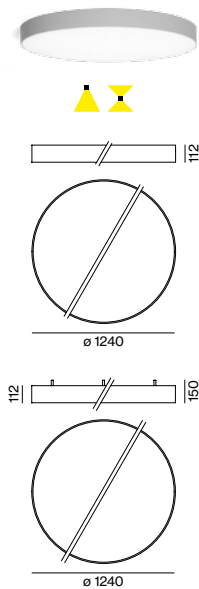


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47 W e	3000 K	6000 lm	0 7 1 - 0 1 7 1 ☐☐ 1 ☑☐
83 W e²	4000 K	6300 lm	
	3000 K	10200 lm	0 7 1 - 0 1 7 0 ☐☐ 1 ☑☐
	4000 K	10700 lm	

DIRECT / INDIRECT (3 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
67 W e	3000 K	8300 lm	0 7 1 - 0 1 7 5 ☐☐ 1 ☑☐
	4000 K	8700 lm	
112 W e²	3000 K	13200 lm	0 7 1 - 0 1 7 4 ☐☐ 1 ☑☐
	4000 K	13800 lm	



VELA ROUND 1250 CEILING

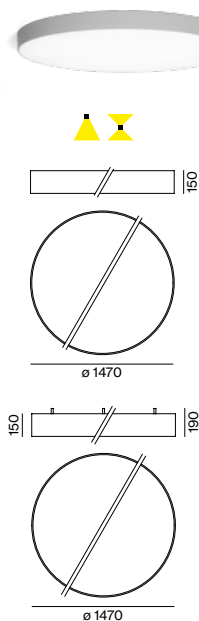


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
79 W e	3000 K	10200 lm	0 7 1 - 0 1 8 1 ☐☐ 1 ☑☐
	4000 K	10700 lm	
162 W e²	3000 K	20100 lm	0 7 1 - 0 1 8 0 ☐☐ 1 ☑☐
	4000 K	21000 lm	

DIRECT / INDIRECT (4 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
110 W e	3000 K	14000 lm	0 7 1 - 0 1 8 5 ☐☐ 1 ☑☐
	4000 K	14700 lm	
211 W e²	3000 K	25600 lm	0 7 1 - 0 1 8 4 ☐☐ 1 ☑☐
	4000 K	26800 lm	



VELA ROUND 1500 CEILING



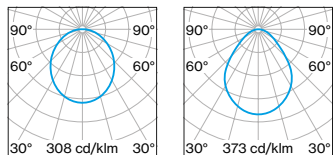
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
105 W e	3000 K	12900 lm	0 7 1 - 0 1 9 1 ☐☐ 1 ☑☐
	4000 K	13500 lm	
216 W e²	3000 K	24500 lm	0 7 1 - 0 1 9 0 ☐☐ 1 ☑☐
	4000 K	25700 lm	

DIRECT / INDIRECT (6 DALI)

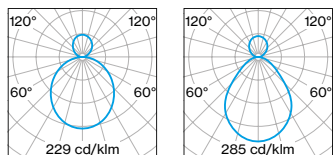
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
137 W e	3000 K	16700 lm	0 7 1 - 0 1 9 5 ☐☐ 1 ☑☐
	4000 K	17500 lm	
266 W e²	3000 K	30300 lm	0 7 1 - 0 1 9 4 ☐☐ 1 ☑☐
	4000 K	31800 lm	

Light distribution



Opal
direct
LOR 82%

Microprismatic
direct
LOR 75%



Opal
direct / indirect
LOR 81%

Microprismatic
direct / indirect
LOR 76%

Inspiration

Hospital
Feldbach, Austria

SOLUTION
VELA ROUND 450 CEILING
VELA ROUND 950 SUSPENDED

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria

LIGHTING DESIGN
Klauss Elektro-Anlagen,
Siemens Bacon
Graz, Austria



VELA ROUND SUSPENDED

xal.com/vela-round-suspended



Quickinfo

GENERAL

suspended mounted
IP20

LED

Mid-power LED
up to 135lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h/3h
transparent feeder cable

PHYSICAL

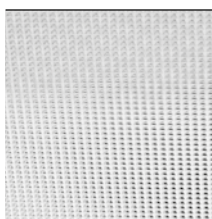
aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt; Oberfläche weiß, grau oder schwarz pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; bis Ø 950: mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung (ab Ø 1250 mit Sicherungsschraube); direkt / indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface white, grey or black powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; up to Ø 950: micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance (from Ø 1250 with locking screw); direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



microprismatic
(UGR < 19)



direct/indirect light
distribution

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

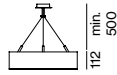
CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
grey	6
white	7
black	8



LIGHT OPTIC COVER	
opal	O
microprismatic	P

EMERGENCY	
1h accupack	NL 1
3h accupack	NL 3



VELA ROUND 450 SUSPENDED

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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K	1500 lm	071 - 0241
	4000K	1600 lm	
18W e²	3000K	2200 lm	071 - 0240
	4000K	2300 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
18W e	3000K	2300 lm	071 - 0245
	4000K	2400 lm	
30W e²	3000K	3600 lm	071 - 0244
	4000K	3700 lm	

VELA ROUND 650 SUSPENDED

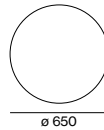
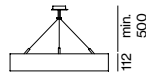
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K	3000 lm	071 - 0261
	4000K	3200 lm	
38W e²	3000K	4700 lm	071 - 0260
	4000K	4900 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
32W e	3000K	4100 lm	071 - 0265
	4000K	4300 lm	
57W e²	3000K	6700 lm	071 - 0264
	4000K	7100 lm	



VELA ROUND 950 SUSPENDED

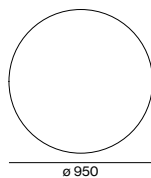
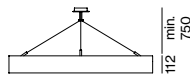
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W e	3000K	6000 lm	071 - 0271
	4000K	6300 lm	
83W e²	3000K	10200 lm	071 - 0270
	4000K	10700 lm	

DIRECT / INDIRECT (3 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
67W e	3000K	8300 lm	071 - 0275
	4000K	8700 lm	
112W e²	3000K	13200 lm	071 - 0274
	4000K	13800 lm	

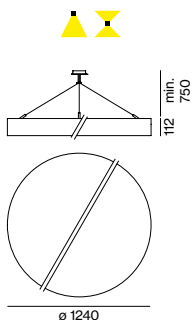


Order options

COLOUR TEMPERATURE	☼☼
3000 K	5
4000 K	6

CONTROL	⬆️⬆️
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	☑️
grey	6
white	7
black	8



VELA ROUND 1250 SUSPENDED

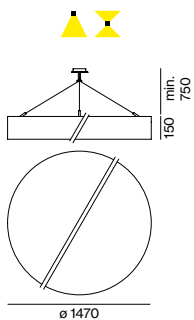


DIRECT

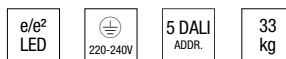
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
79 W e	3000 K	10200 lm	0 7 1 - 0 2 8 1 ☼☼ 1 ☑️ ○
162 W e²	4000 K	10700 lm	
	3000 K	20100 lm	0 7 1 - 0 2 8 0 ☼☼ ⬆️⬆️ ☑️ ○
	4000 K	21000 lm	

DIRECT / INDIRECT (4 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
110 W e	3000 K	14000 lm	0 7 1 - 0 2 8 5 ☼☼ 1 ☑️ ○
	4000 K	14700 lm	
211 W e²	3000 K	25600 lm	0 7 1 - 0 2 8 4 ☼☼ ⬆️⬆️ ☑️ ○
	4000 K	26800 lm	



VELA ROUND 1500 SUSPENDED



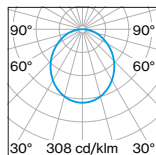
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
105 W e	3000 K	12900 lm	0 7 1 - 0 2 9 1 ☼☼ 1 ☑️ ○
	4000 K	13500 lm	
216 W e²	3000 K	24500 lm	0 7 1 - 0 2 9 0 ☼☼ ⬆️⬆️ ☑️ ○
	4000 K	25700 lm	

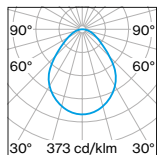
DIRECT / INDIRECT (6 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
137 W e	3000 K	16700 lm	0 7 1 - 0 2 9 5 ☼☼ 1 ☑️ ○
	4000 K	17500 lm	
266 W e²	3000 K	30300 lm	0 7 1 - 0 2 9 4 ☼☼ ⬆️⬆️ ☑️ ○
	4000 K	31800 lm	

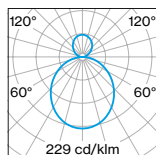
Light distribution



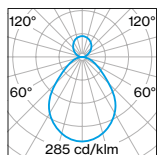
Opal
direct
LOR 82 %



Micropismatic
direct
LOR 75 %



Opal
direct / indirect
LOR 81 %



Micropismatic
direct / indirect
LOR 76 %

Inspiration

Karberghus
Copenhagen, Denmark

SOLUTION
VELA ROUND 950 SUSPENDED

ARCHITECT
Arkitema
Copenhagen, Denmark

DESIGNER
Søren Rydahl



DISC-O SURFACE

xal.com/disc-o-surface



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 125lm/W
3000 K, 4000 K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h/3h

PHYSICAL

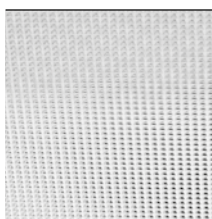
aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium, flache Bauform (Leuchtenkörper 45 mm); Oberfläche weiß, grau oder schwarz pulverbeschichtet; geeignet für Wand- oder Deckenmontage (Wandmontage nur mit opaler Abdeckung); hochreflektierende Beschichtung für verbesserten Wirkungsgrad; Leuchtenkörper inkl. Abdeckung mittels Schnappfederverschluss werkzeuglos montier- bzw. demontierbar; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; bis Ø 600: mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; optional mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in aluminium, low-profile design (luminaire housing 45 mm); surface white, grey or black powder coated; suitable for wall or ceiling mounting (wall mounting only with opal cover); highly reflective coating for improved efficiency; Luminaire housing incl. cover, mountable and demountable without tools by snap spring closure; completely homogeneously illuminated, satinised PMMA cover; up to Ø 600: micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

Combination RCS + emergency not possible
Combination RCS + microprismatic not possible

MATERIAL COLOUR	
grey	6
white	7
black	8

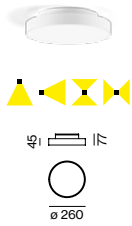


LIGHT OPTIC COVER	
opal	O
microprismatic*	P

*not for wall mounting and RCS

EMERGENCY	
1h accupack	N L 1
3h accupack	N L 3

For emergency option use extension for code.
Example: 072-1146517PNL3



DISC-O 260 SURFACE

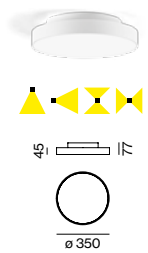
e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	1,5 kg
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W e ²	3000 K	780 lm	0 7 2 - 1 1 2 6 :: ◆ ◆ □ □
	4000 K	810 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W e ²	3000 K	1000 lm	0 7 2 - 1 1 2 8 :: ◆ ◆ ◆ □ □
	4000 K	1100 lm	



DISC-O 350 SURFACE

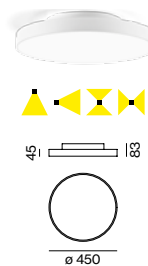
e/e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	3,5 kg
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W e	3000 K	900 lm	0 7 2 - 1 1 3 7 :: 1 ◆ □ □
	4000 K	940 lm	
15 W e ²	3000 K	1600 lm	0 7 2 - 1 1 3 6 :: ◆ ◆ ◆ □ □
	4000 K	1700 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W e	3000 K	1200 lm	0 7 2 - 1 1 3 9 :: 1 ◆ □ □
	4000 K	1200 lm	
19 W e ²	3000 K	2100 lm	0 7 2 - 1 1 3 8 :: ◆ ◆ ◆ □ □
	4000 K	2200 lm	



DISC-O 450 SURFACE

e/e ² LED	220-240V	UGR < 19	CB		1 DALI ADDR.	5,5 kg
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W e	3000 K (☉)	1400 lm	0 7 2 - 1 1 4 7 :: ◆ ◆ ◆ □ □
	4000 K (☉)	1500 lm	
23 W e ²	3000 K (☉)	2500 lm	0 7 2 - 1 1 4 6 :: ◆ ◆ ◆ □ ●
	4000 K (☉)	2600 lm	
23 W e ²	tunable white (2 DALI)		0 7 2 - 1 1 4 6 0 3 ◆ □ □

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17 W e	3000 K	1900 lm	0 7 2 - 1 1 4 9 :: 1 ◆ □ □
	4000 K	2000 lm	
31 W e ²	3000 K	3500 lm	0 7 2 - 1 1 4 8 :: ◆ ◆ ◆ □ □
	4000 K	3600 lm	

Order options

COLOUR TEMPERATURE	☐☐
3000 K	5
4000 K	6

CONTROL	◆
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

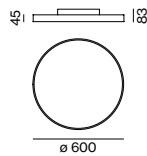
Combination RCS + emergency not possible
Combination RCS + microprismatic not possible

MATERIAL COLOUR	☑
grey	6
white	7
black	8



LIGHT OPTIC COVER	☐
opal	O
microprismatic*	P

*not for wall mounting and RCS



DISC-O 600 SURFACE

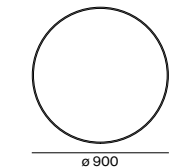
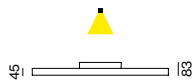


DIRECT

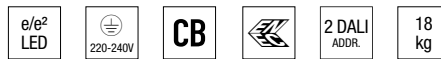
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W e	3000 K (☉)	2700 lm	0 7 2 - 1 1 5 7 ☐☐☐☐
	4000 K (☉)	2900 lm	
43 W e ²	3000 K (☉)	4800 lm	0 7 2 - 1 1 5 6 ☐☐☐☐
	4000 K (☉)	5000 lm	
43 W e ²	tunable white (2 DALI)		0 7 2 - 1 1 5 6 0 3 ☐☐☐☐

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33 W e	3000 K	3900 lm	0 7 2 - 1 1 5 9 ☐☐☐☐
	4000 K	4200 lm	
60 W e ² (2 DALI)	3000 K	6900 lm	0 7 2 - 1 1 5 8 ☐☐☐☐
	4000 K	7200 lm	



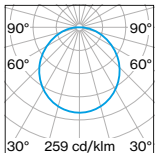
DISC-O 900 CEILING



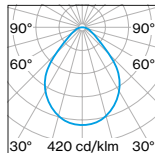
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
45 W e	3000 K	5300 lm	0 7 2 - 1 1 7 7 ☐☐☐☐
	4000 K	5500 lm	
92 W e ²	3000 K	10300 lm	0 7 2 - 1 1 7 6 ☐☐☐☐
	4000 K	10800 lm	

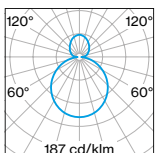
Light distribution



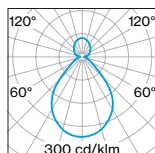
Opal
direct
LOR 75 %



Microprismatic
direct
LOR 75 %



Opal
direct / indirect
LOR 76 %



Microprismatic
direct / indirect
LOR 76 %

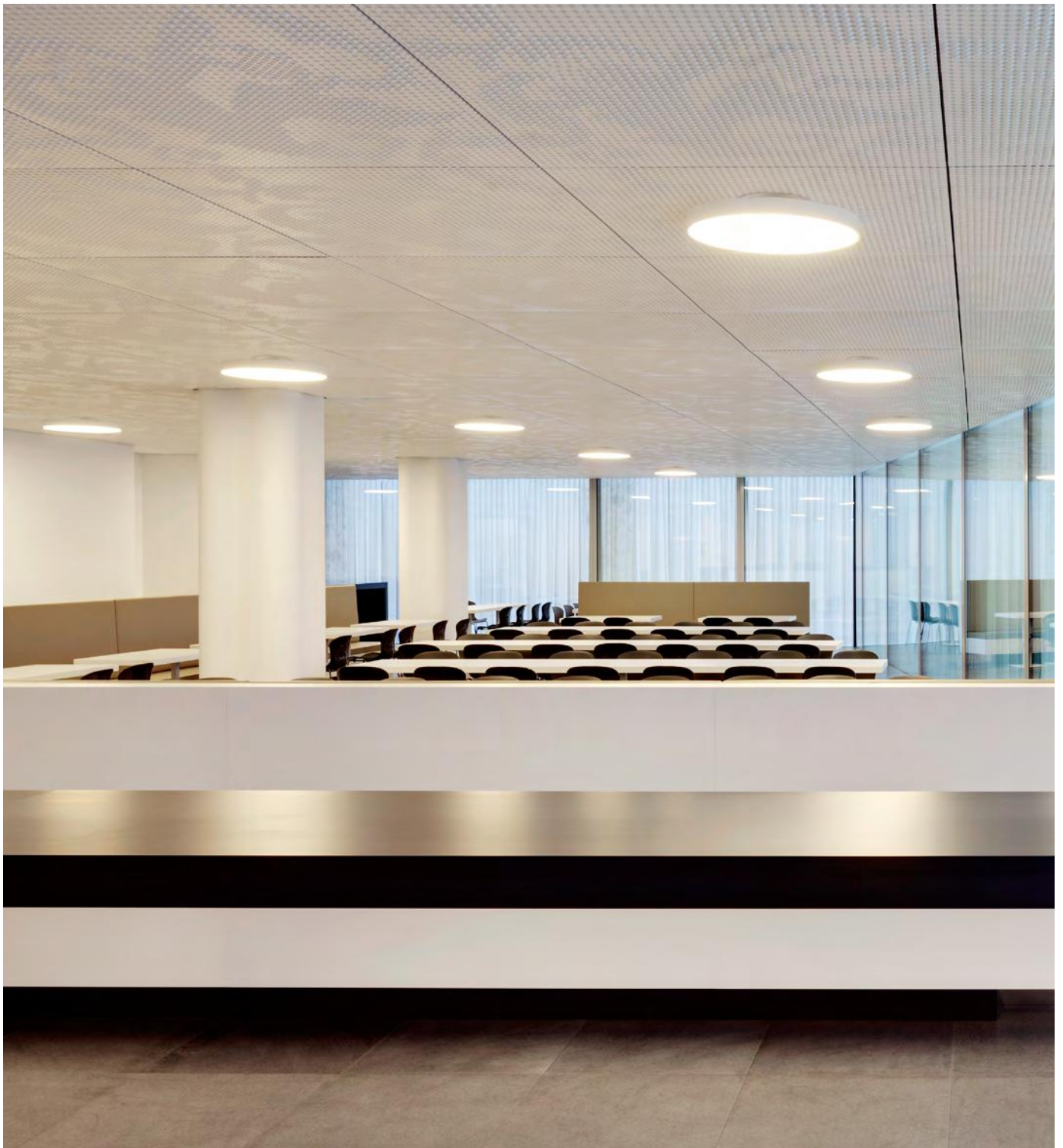
Inspiration

Allianz Headquarters
Wallisellen, Switzerland

SOLUTION
DISC-O 450 SURFACE

ARCHITECT
Wiel Arets Architects
Zurich, Switzerland

LIGHTING DESIGN
Kardorff Ingenieure Lichtplanung
Berlin, Germany



DISC-O SUSPENDED

xal.com/disc-o-suspended



Quickinfo

GENERAL

suspended
IP20
several mounting options available

LED

Mid-power LED
up to 125lm/W
3000K, 4000K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO
emergency 1h/3h
transparent feeder cable

PHYSICAL

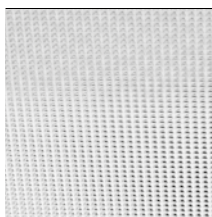
aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus gerolltem Aluminiumprofil, nahtlos verschweißt, flache Bauform (Leuchtenkörper 45 mm); Oberfläche weiß, grau oder schwarz pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendenabhängung (chrom), Einspeiseleitung in Pendenrohr; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; bis Ø 600: mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; optional mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing from rolled aluminium profile, seamlessly welded, low-profile design (luminaire housing 45 mm); surface white, grey or black powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; up to Ø 600: micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



microprismatic
(UGR < 19)

Order options

SUSPENSION	
cable 2000 mm*	2
rod 1000 mm (min. 300 mm)	4
rod 2000 mm (min. 300 mm)	6

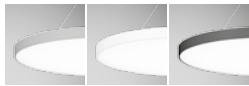
*only for DISC-O 600

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

Combination RCS + emergency not possible
Combination RCS + microprismatic not possible

MATERIAL COLOUR	
grey	6
white	7
black	8

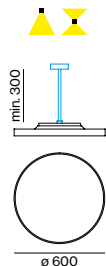
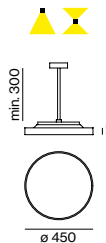
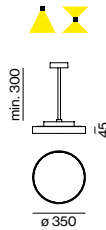


LIGHT OPTIC COVER	
opal	O
microprismatic*	P

*not for RCS

EMERGENCY	
1h accupack	N L 1
3h accupack	N L 3

* For emergency option use extension for code. Example: 072-1146517PNL3



DISC-O 350 SUSPENDED

e/e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	3,5 kg
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W e	3000 K	900 lm	0 7 2 - 1 3 3 7 :: 1 □ □
	4000 K	940 lm	
15 W e ²	3000 K	1600 lm	0 7 2 - 1 3 3 6 :: □ □ □ □
	4000 K	1700 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W e	3000 K	1200 lm	0 7 2 - 1 3 3 9 :: 1 □ □
	4000 K	1200 lm	
19 W e ²	3000 K	2100 lm	0 7 2 - 1 3 3 8 :: □ □ □ □
	4000 K	2200 lm	

DISC-O 450 SUSPENDED

e/e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	5,5 kg
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W e	3000 K (☉)	1400 lm	0 7 2 - 1 3 4 7 :: □ □ □ □ ●
	4000 K (☉)	1500 lm	
23 W e ²	3000 K (☉)	2500 lm	0 7 2 - 1 3 4 6 :: □ □ □ □ ●
	4000 K (☉)	2600 lm	
23 W e ²	tunable white (2 DALI)		0 7 2 - 1 3 4 6 0 3 □ □

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
17 W e	3000 K	1900 lm	0 7 2 - 1 3 4 9 :: 1 □ □
	4000 K	2000 lm	
31 W e ²	3000 K	3500 lm	0 7 2 - 1 3 4 8 :: □ □ □ □
	4000 K	3600 lm	

DISC-O 600 SUSPENDED

e/e ² LED	220-240V	UGR <19	CB		1 DALI ADDR.	9 kg
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DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W e	3000 K (☉)	2700 lm	0 7 2 - 1 3 5 7 :: □ □ □ □
	4000 K (☉)	2900 lm	
43 W e ²	3000 K (☉)	4800 lm	0 7 2 - 1 3 5 6 :: □ □ □ □
	4000 K (☉)	5000 lm	
43 W e ²	tunable white (2 DALI)		0 7 2 - 1 3 5 6 0 3 □ □

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33 W e	3000 K	3900 lm	0 7 2 - 1 3 5 9 :: 1 □ □
	4000 K	4200 lm	
60 W e ² (2 DALI)	3000 K	6900 lm	0 7 2 - 1 3 5 8 :: □ □ □ □
	4000 K	7200 lm	

Order options

SUSPENSION

cable 2000 mm only

COLOUR TEMPERATURE

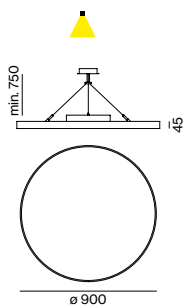
3000 K 5
4000 K 6

CONTROL

non DIM 1
DIM DALI / CLO (only for e² LED) 3

MATERIAL COLOUR

grey 6
white 7
black 8



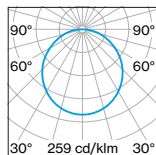
DISC-O 900 SUSPENDED



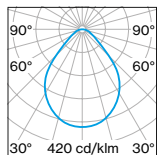
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
45 W e	3000 K	5300 lm	0 7 2 - 1 2 7 7 :: 1 <input checked="" type="checkbox"/> O
	4000 K	5500 lm	
92 W e ²	3000 K	10300 lm	0 7 2 - 1 2 7 6 :: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> O
	4000 K	10800 lm	

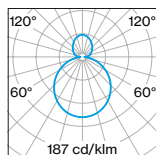
Light distribution



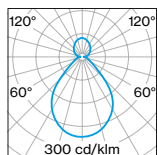
Opal
direct
LOR 75 %



Micropismatic
direct
LOR 75 %

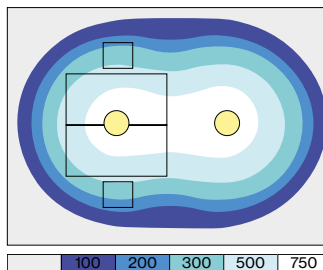


Opal
direct / indirect
LOR 76 %



Micropismatic
direct / indirect
LOR 76 %

Technical data



**DISC-O SUSPENDED 450 DI 31W
GLARE EVALUATION**

Room dimensions	5.4x4.05x2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²

*above working surface



Inspiration

XALcc
Graz, Austria

SOLUTION
DISC-O 350 SURFACE
DISC-O 450 SUSPENDED

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria



CIRO CEILING

xal.com/ciro-ceiling



Quickinfo

GENERAL

ceiling mounted
IP20

LED

Mid-power LED
up to 119lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumprofil, nahtlos verschweißt, flache Bauform (Leuchtenkörper 45 mm); Oberfläche weiß, grau oder schwarz pulverbeschichtet; seitlich eingekoppeltes Licht durch LGP- (Light Guiding Prism) Body und hocheffizienten Reflektor nach unten gelenkt; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; optional mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar mit CLO-Funktion

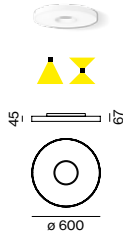
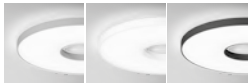
EN Ring shaped luminaire housing from rolled aluminium profile, seamlessly welded, low-profile design luminaire housing 45 mm); surface white, grey or black powder coated; side coupled light, directed downwards by LGP (LIGHT GUIDING PRISM) body and highly efficient reflector; completely homogeneously illuminated, satinised PMMA cover; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable with CLO function

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
grey	6
white	7
black	8



CIRO 600 CEILING

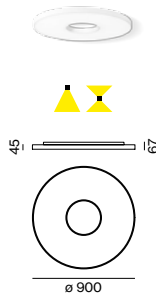


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W	3000K	4900lm	0 7 2 - 5 1 5 6
	4000K	5100lm	

DIRECT / INDIRECT (2 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
55 W	3000K	6200lm	0 7 2 - 5 1 5 8
	4000K	6500lm	



CIRO 900 CEILING

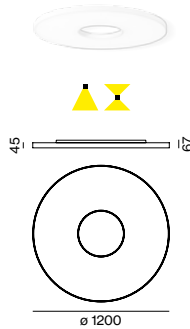


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
88 W	3000K	9800lm	0 7 2 - 5 1 7 6
	4000K	10300lm	

DIRECT / INDIRECT (3 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
110 W	3000K	12500lm	0 7 2 - 5 1 7 8
	4000K	13100lm	



CIRO 1200 CEILING



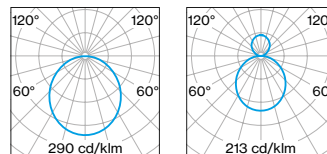
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
117 W	3000K	13100lm	0 7 2 - 5 1 8 6
	4000K	13700lm	

DIRECT / INDIRECT (3 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
147 W	3000K	16700lm	0 7 2 - 5 1 8 8
	4000K	17500lm	

Light distribution



Opal
direct
LOR 81%

Opal
direct / indirect
LOR 80%

CIRO SUSPENDED

xal.com/ciro-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 119lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumprofil, nahtlos verschweißt, flache Bauform (Leuchtenkörper 45 mm); Oberfläche weiß, grau oder schwarz pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung; seitlich eingekoppeltes Licht durch LGP- (Light Guiding Prism) Body und hocheffizienten Reflektor nach unten gelenkt; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; optional mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar mit CLO-Funktion

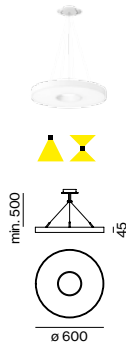
EN Ring shaped luminaire housing from rolled aluminium profile, seamlessly welded, low-profile design luminaire housing 45 mm); surface white, grey or black powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed; side coupled light, directed downwards by LGP (LIGHT GUIDING PRISM) body and highly efficient reflector; completely homogeneously illuminated, satinised PMMA cover; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable with CLO function

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
grey	6
white	7
black	8



CIRO 600 SUSPENDED

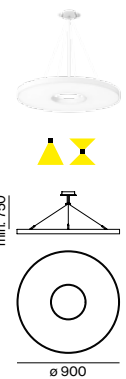


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K	4900lm	0 7 2 - 5 2 5 6
	4000K	5100lm	

DIRECT / INDIRECT (2 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
59W	3000K	6700lm	0 7 2 - 5 2 5 8
	4000K	7000lm	



CIRO 900 SUSPENDED

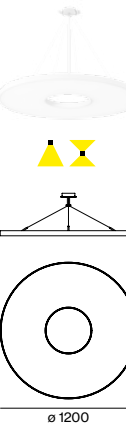


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
88W	3000K	9800lm	0 7 2 - 5 2 7 6
	4000K	10300lm	

DIRECT / INDIRECT (3 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
116W	3000K	13200lm	0 7 2 - 5 2 7 8
	4000K	13800lm	



CIRO 1200 SUSPENDED



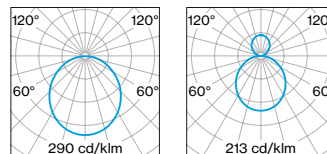
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
117W	3000K	13100lm	0 7 2 - 5 2 8 6
	4000K	13700lm	

DIRECT / INDIRECT (3 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
153W	3000K	17400lm	0 7 2 - 5 2 8 8
	4000K	18200lm	

Light distribution



Opal
direct
LOR 81%

Opal
direct / indirect
LOR 80%

Inspiration

RLB headquarters
Graz, Austria

SOLUTION
CIRO 1200 SUSPENDED

ARCHITECT
Strohecker ZT GmbH
Graz, Austria

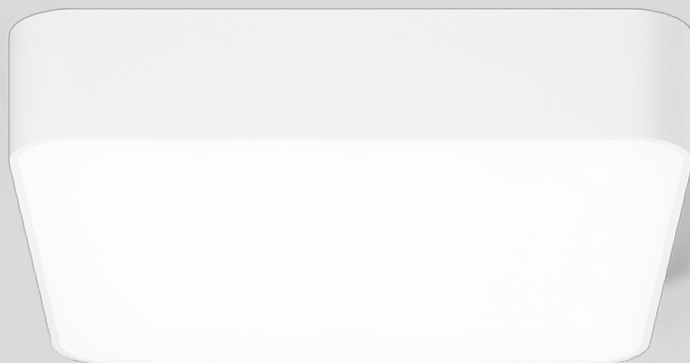
LIGHTING DESIGN
Klauss Elektro-Anlagen
Seiersberg, Austria





VELA RETRO CEILING

xal.com/vela-retro-ceiling



Quickinfo

GENERAL

ceiling mounted
IP20

LED

Mid-power LED
up to 119lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Abgerundeter, quadratischer Leuchtenkörper aus Aluminium; Oberfläche grau oder weiß pulverbeschichtet; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Rounded, square aluminium luminaire housing; surface coated grey or white; completely homogeneously illuminated, satinised PMMA cover; cover removable without tools for easy maintenance; same light density for all surface lights with the same components; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
grey	6
white	7

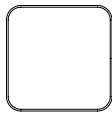


□ 265

VELA RETRO 250 CEILING

e ² LED	220-240V	1 DALI ADDR.	2,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7W	3000K 4000K	790lm 830lm	0 7 1 - 2 1 2 2 :: ◆ □ ○

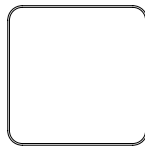


□ 465

VELA RETRO 450 CEILING

e ² LED	220-240V	1 DALI ADDR.	7 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
26W	3000K 4000K	3000lm 3100lm	0 7 1 - 2 1 4 2 :: ◆ □ ○



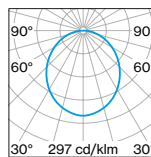
□ 615

VELA RETRO 600 CEILING

e ² LED	220-240V	CB		1 DALI ADDR.	12,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W	3000K 4000K	5300lm 5500lm	0 7 1 - 2 1 5 2 :: ◆ □ ○

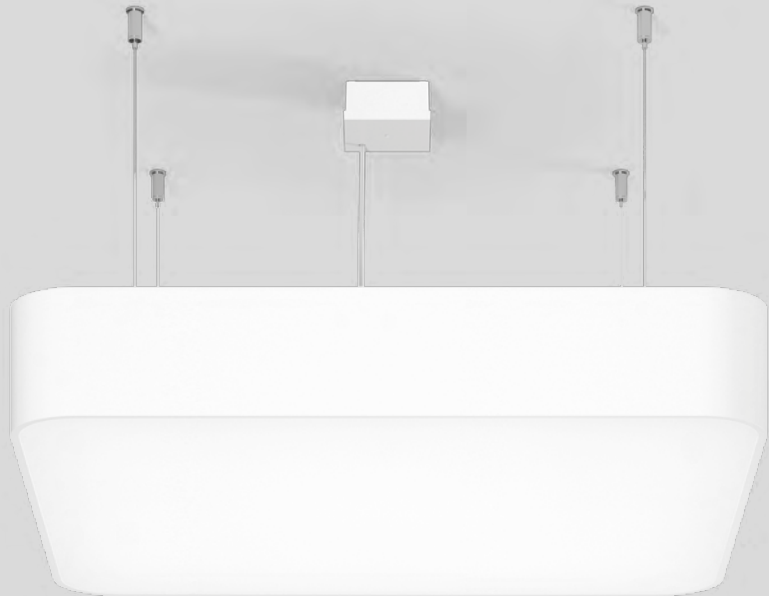
Light distribution



Opal
direct
LOR 80%

VELA RETRO SUSPENDED

xal.com/vela-retro-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 119lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Abgerundeter, quadratischer Leuch-
tenkörper aus Aluminium; Oberfläche grau
oder weiß pulverbeschichtet; Pendelleuchte
mit 2000 mm Seilabhängung; werkzeuglose
Höhenverstellung an Leuchte; inkl. transpa-
renter Einspeiseleitung; absolut homogen
ausgeleuchtete, satinierte PMMA Abdeckung;
Abdeckung werkzeuglos abnehmbar für
einfache Wartung; gleiche Leuchtdichte bei
allen Flächenleuchten mit selber Bestückung;
energieeffiziente LEDs mit hoher Farbwieder-
gabe; Binning < 3-Step MacAdam; lieferbar
in den Lichtfarben 3000K und 4000K; CRI >
80; min. 90% des Lichtstromes nach 50.000h
Lebensdauer; Schutzart IP20; SK I; optional
DALI-dimmbare mit CLO-Funktion

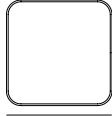
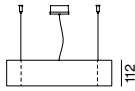
EN Rounded, square aluminium luminaire
housing; surface coated grey or white;
Suspended luminaire with 2000 mm cable
suspension, height adjustment without tools
on luminaire; incl. transparent feed; completely
homogeneously illuminated, satinised PMMA
cover; cover removable without tools for easy
maintenance; same light density for all surface
lights with the same components; energy-
efficient LEDs with high colour rendering; bin-
ning <3 step MacAdam; available in the light
colours 3000K and 4000K; CRI > 80; min.
90% of the luminous flux after 50,000 hours;
protection class IP20; PC I; optional DALI
dimmbare with CLO function

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
grey	6
white	7

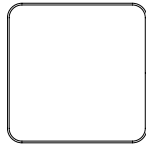
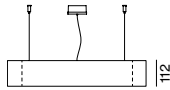


Ø 465

VELA RETRO 450 SUSPENDED

e ² LED	220-240V	1 DALI ADDR.	7 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
26 W	3000K 4000K	3000lm 3100lm	0 7 1 - 2 2 4 2 : : : : O



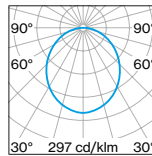
Ø 615

VELA RETRO 600 SUSPENDED

e ² LED	220-240V	CB		1 DALI ADDR.	12,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47 W	3000K 4000K	5300lm 5500lm	0 7 1 - 2 2 5 2 : : : : O

Light distribution



Opal
direct
LOR 80 %

Inspiration

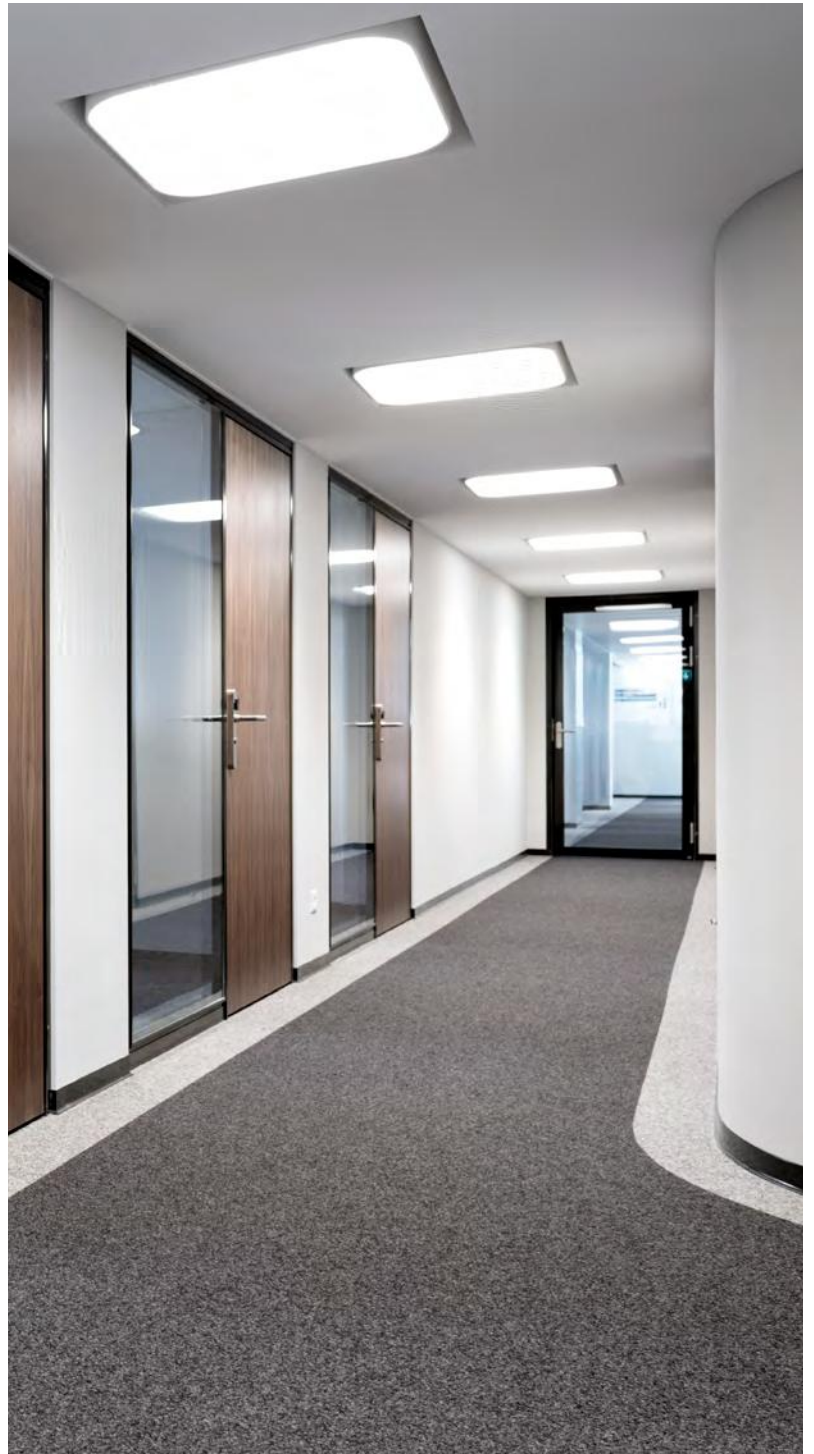
Sanitas Krankversicherung
Preference Center
Bern, Switzerland

SOLUTION
VELA RETRO 600 SUSPENDED
customised

INTERIOR DESIGN

Büronauten AG
Zurich, Switzerland





SONIC SUSPENDED

xal.com/sonic-suspended



Quickinfo

GENERAL

suspended
IP20
several mounting options available

LED

Mid-power LED
up to 116lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct/indirect illumination
PMMA microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
acoustically effective
halogen-free cable

**SONIC FREE
STANDING
SOUNDCAP**

[page 494](#)



**SONIC FREE
STANDING
ABSORBER**

[page 496](#)

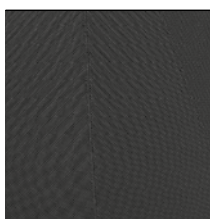


Description

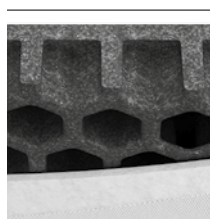
DE Konischer Leuchtenkörper aus gerolltem Aluminiumprofil; Oberfläche weiß oder dunkelgrau pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendenabhängung (chrom), Einspeiseleitung in Pendenrohr; mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; Reflektor für verbesserten Wirkungsgrad (96% Reflexionsgrad); bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar; schallreduzierendes Zubehör erhältlich: patentiertes Schallschutzelement aus expandiertem Polystyrol (EPS) oder aus mehrschichtigem Filz

EN Conical light housing in rolled aluminium profile; surface white or dark grey powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; micro prismatic PMMA cover; completely homogeneous illumination; no multiple shadows; reflector for improved efficiency (96% reflectance); workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable; noise reducing accessories available: patented soundproofing element made of expanded polystyrene (EPS) or multi-layered felt

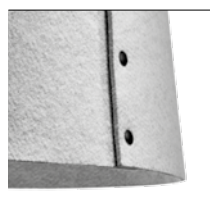
Features



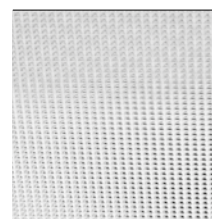
one piece acoustic ring, in 2 colours



patented honeycomb structure



detail soundcap



microprismatic (UGR < 19)

Order options

SUSPENSION	
cable 2000 mm (min. 500 mm)	2
rod 1000 mm (min. 300 mm)	4
rod 2000 mm (min. 300 mm)	6

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
dark grey	6
white	7



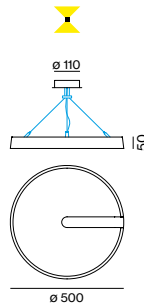
Order options

MATERIAL COLOUR	
bazalt grey	
light grey	



Order options

MATERIAL COLOUR	
Lime 64	
Curry 61	
Pink 65	
OffWhite 63	
Anthracite 68	

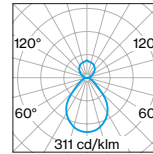


SONIC SUSPENDED

e ² LED	220-240V	UGR < 19	1 DALI ADDR.	7 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
49W	3000K 4000K	5400lm 5700lm	0 5 9 - 6 8 3 1 : : P

Light distribution



Microprismatic
direct / indirect
LOR 81%

Accessories

ABSORBER

TYPE	ORDER CODE
bazalt grey	9 5 9 - 6 9 9 9 1 1 6
light grey	9 5 9 - 6 9 9 9 1 1 7

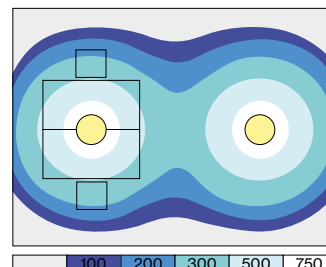
ABSORBER WITH SUSPENSION

TYPE	ORDER CODE
bazalt grey	0 5 9 - 6 2 9 9 1 1 6
light grey	0 5 9 - 6 2 9 9 1 1 7

SOUNDCAP

TYPE	ORDER CODE
Lime 64	0 5 9 - 6 9 9 8 1 6 4
Curry 61	0 5 9 - 6 9 9 8 1 6 1
Pink 65	0 5 9 - 6 9 9 8 1 6 5
OffWhite 63	0 5 9 - 6 9 9 8 1 6 3
Anthracite 68	0 5 9 - 6 9 9 8 1 6 8

Technical data



SONIC 49W GLARE EVALUATION

Room dimensions	5.4x4.05x2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	< 19
UGR axial	< 19

65° < 3000 cd/m²

*above working surface



Inspiration

MERCEDES BENZ Lounge
Geneva, Switzerland

SOLUTION
SONIC SUSPENDED
customised

ARCHITECT
Kauffmann Theilig & Partner
Ostfildern, Germany

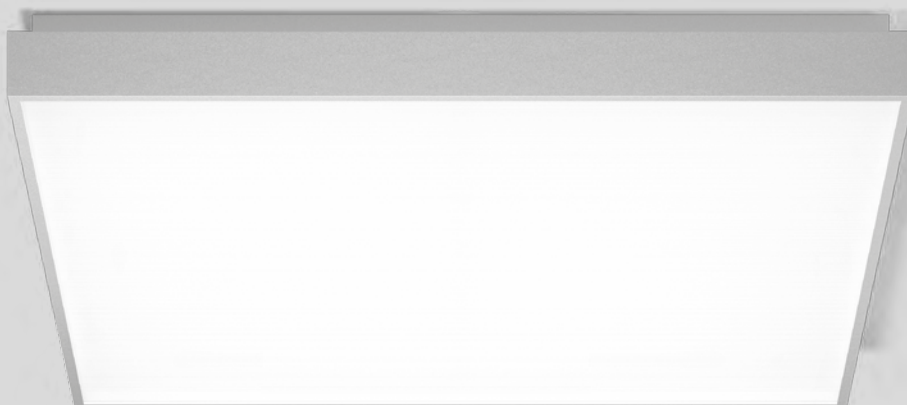
LIGHTING DESIGN
TLD Planungsgruppe GmbH
Wendlingen, Germany





FLOW SURFACE

xal.com/flow-surface



Quickinfo

GENERAL

surface mounted
IP20

LED

Low-power LED
up to 110lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency 1h/3h

PHYSICAL

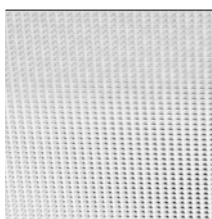
aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium, flache Bauform (Leuchtenkörper 42mm); Oberfläche grau oder weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage, Leuchtenkörper 17 mm von Wand bzw. Decke abgesetzt; Leuchtenkörper inkl. Abdeckung mittels Schnappfederverschluss werkzeuglos montier- bzw. demontierbar; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; keine Mehrfachschattenbildung; Abdeckung werkzeuglos abnehmbar für einfache Wartung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbare mit CLO-Funktion; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Square aluminium luminaire housing, flat design luminaire housing 42mm); surface coated grey or white; suitable for wall or ceiling mounting, luminaire housings set 17 mm away from wall or ceiling; Luminaire housing incl. cover, mountable and demountable without tools by snap spring closure; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; no multiple shadows; cover removable without tools for easy maintenance; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; optional with LED emergency light with 1 h or 3 h battery and self test

Features



microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	<input type="checkbox"/>
3000K	5
4000K	6

CONTROL	<input type="checkbox"/>
non DIM	1
DIM DALI / CLO	3

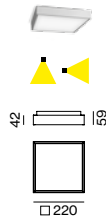
MATERIAL COLOUR	<input type="checkbox"/>
grey	6
white	7



LIGHT OPTIC COVER	<input type="checkbox"/>
opal	O
microprismatic	P

EMERGENCY	<input type="checkbox"/>
1h accupack	N L 1
3h accupack	N L 3

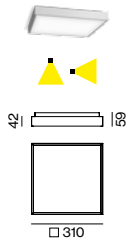
* For emergency option use extension for code. Example: 072-2133517ONL1



FLOW 220 SURFACE

i LED	220-240V	UGR < 19	CB		1 DALI ADDR.	2 kg
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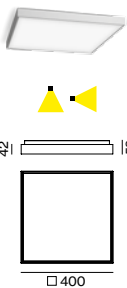
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W	3000 K	990lm	0 7 2 - 2 1 0 3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000 K	990lm	



FLOW 320 SURFACE

i LED	220-240V	UGR < 19	CB		1 DALI ADDR.	3 kg
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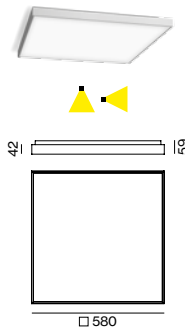
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1500lm	0 7 2 - 2 1 1 3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000 K	1500lm	



FLOW 400 SURFACE

i LED	220-240V	UGR < 19	CB		1 DALI ADDR.	5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
25 W	3000 K	2700lm	0 7 2 - 2 1 3 3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000 K	2700lm	

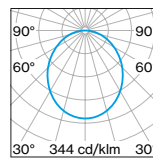


FLOW 600 SURFACE

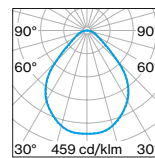
i LED	220-240V	UGR < 19	CB		2 DALI ADDR.	8 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
56 W	3000 K	6200lm	0 7 2 - 2 1 4 3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000 K	6200lm	

Light distribution



Opal
direct
LOR 90 %



Microprismatic
direct
LOR 85 %

FLOW SUSPENDED

xal.com/flow-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Low-power LED
up to 110lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
transparent feeder cable

PHYSICAL

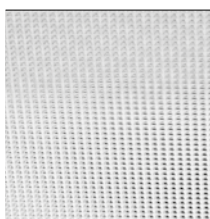
aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium, flache Bauform (Leuchtenkörper 42mm); Oberfläche grau oder weiß pulverbeschichtet; Pendelleuchte mit 2000mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung; Leuchtenkörper inkl. Abdeckung mittels Schnappfederverschluss werkzeuglos montier- bzw. demontierbar; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; keine Mehrfachschattenbildung; Abdeckung werkzeuglos abnehmbar für einfache Wartung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Square aluminium luminaire housing, flat design luminaire housing 42mm); Square aluminium luminaire housing, flat design luminaire housing 42mm); Suspended luminaire with 2000mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed; Luminaire housing incl. cover, mountable and demountable without tools by snap spring closure; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; no multiple shadows; cover removable without tools for easy maintenance; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function

Features



microprismatic
(UGR < 19)

Order options

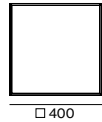
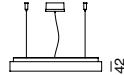
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
grey	6
white	7



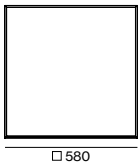
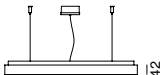
LIGHT OPTIC COVER	
opal	O
microprismatic	P



FLOW 400 SUSPENDED



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
25W	3000K 4000K	2700lm 2700lm	0 7 2 - 2 2 3 3

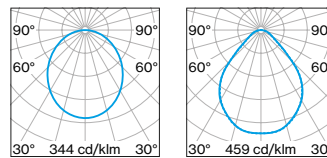


FLOW 600 SUSPENDED



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
56W	3000K 4000K	6200lm 6200lm	0 7 2 - 2 2 4 3

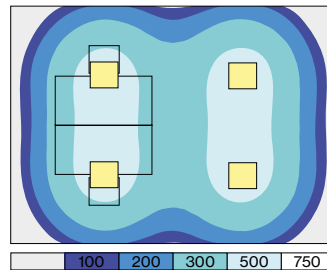
Light distribution



Opal
direct
LOR 90 %

Microprismatic
direct
LOR 85 %

Technical data



**FLOW 56W
GLARE EVALUATION**

Room dimensions	5.4x4.05x2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19

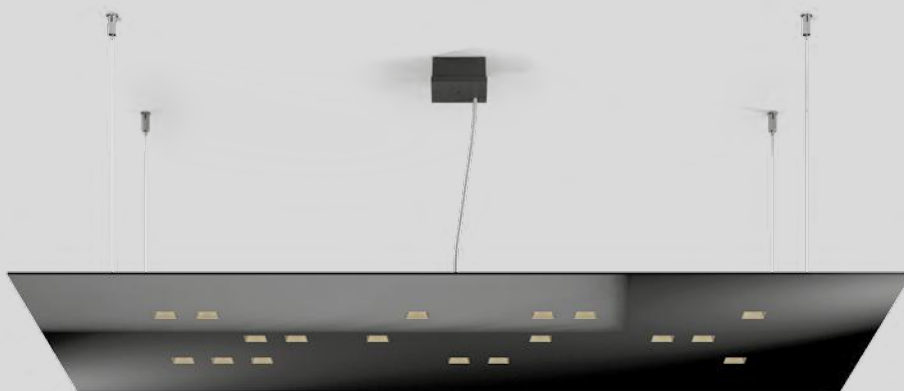
65° < 3000 cd/m²

*above working surface



DOT SQUARE / ROUND SUSPENDED

xal.com/dot-suspended



Quickinfo

GENERAL

suspended
IP20

LED

High-power LED
up to 55lm/W
2700K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct, direct/indirect illumination
beam angle 26°
glare reduction

ELECTRICAL

DIM DALI
transparent feeder cable

PHYSICAL

aluminium composite panel
halogen-free cable

GRID

➔ page 208



Description

DE Leuchte mit Aluminium-Verbundplatte; Leuchtenkörper auf Verbundplatte aufgesetzt; extrem flache Bauform; Oberfläche der Verbundplatte schwarz Hochglanz, weiß Hochglanz oder gebürstetes Aluminium; Leuchtenkörper schwarz eloxiert; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung; zurückversetzte LED Einzellichtpunkte asymmetrisch angeordnet; optimale Entblendung durch schwarzen Stufenreflektor; trotzdem erhöhte Effizienz durch spezielle Linsentechnik; eingesetzte Linsen mit Medium Strahlungscharakteristik 26°; optional mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarben 2700 K und 4000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Luminaire with aluminium composite panel; luminaire housing mounted on composite panel; ultra low-profile design; surface of the composite board black or white high gloss or brushed aluminium; Luminaire housing anodised black; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed; inset LED single light points arranged randomised; optimum glare-free lighting levels by black reflector; despite this increased efficiency through special lens technology; inserted lenses with medium radiation characteristic 26°; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2700K and 4000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable

Features

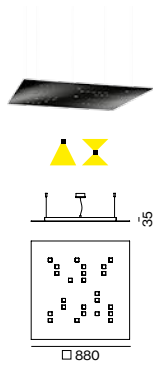


glare-control by
cone-shaped opening

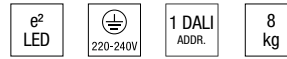
Order options

COLOUR TEMPERATURE	
2700 K	4
4000 K	6

MATERIAL COLOUR	
brushed aluminium	5
black high gloss	S
white high gloss	H



DOT SQUARE 900 SUSPENDED

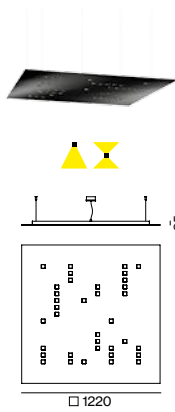


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29 W	2700 K	1400 lm	0 5 7 - 8 2 4 3 :: 1 M
	4000 K	1600 lm	

DIRECT / INDIRECT (2 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
51 W	2700 K	2600 lm	0 5 7 - 8 2 5 3 :: 1 M
	4000 K	2800 lm	



DOT SQUARE 1200 SUSPENDED

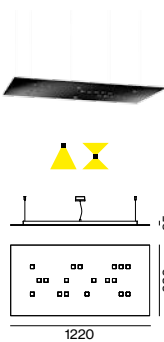


DIRECT

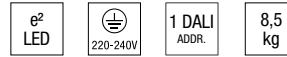
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
43 W	2700 K	2100 lm	0 5 7 - 8 2 4 4 :: 1 M
	4000 K	2300 lm	

DIRECT / INDIRECT (2 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
77 W	2700 K	3900 lm	0 5 7 - 8 2 5 4 :: 1 M
	4000 K	4200 lm	



DOT SQUARE 1200x600 SUSPENDED

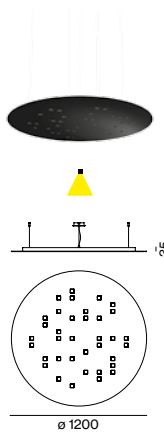


DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22 W	2700 K	1000 lm	0 5 7 - 8 2 4 8 :: 1 M
	4000 K	1200 lm	

DIRECT / INDIRECT (2 DALI)

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W	2700 K	2300 lm	0 5 7 - 8 2 5 8 :: 1 M
	4000 K	2400 lm	



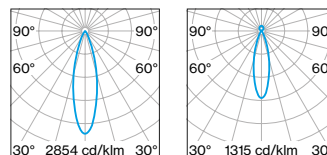
DOT ROUND 1200 SUSPENDED



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
43 W	2700 K	2100 lm	0 5 7 - 8 2 6 4 :: 1 M
	4000 K	2300 lm	

Light distribution



Medium 26°
direct
LOR 74 %

Medium 26°
direct / indirect
LOR 59 %

Inspiration

XAL Office
Vienna, Austria

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria

SOLUTION
DOT SQUARE 1200x600
SUSPENDED





LITO 60 SUSPENDED

xal.com/lito-60-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 139lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct / indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
daylight & movement sensor
transparent feeder cable

PHYSICAL

aluminium
anodised
powder-coated
halogen-free cable

Description

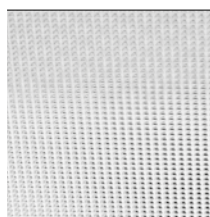
DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium Natur eloxiert; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface white or black powder coated or natural anodised aluminium; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA cover; completely homogeneous illumination; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable or with integrated infrared daylight and movement sensor

Features



direct/indirect light
distribution



microprismatic
(UGR < 19)

Order options

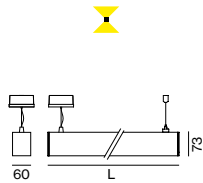
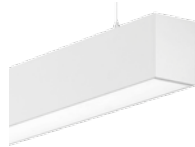
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3
daylight & movement sensor	7

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	P

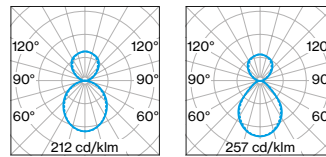


LITO 60 SUSPENDED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
37W e²	3000K	4700lm	1209	0 5 4 - 4 2 8 4 :: ◆ □
	4000K	4900lm		
47W e²	3000K	5800lm	1509	0 5 4 - 4 2 8 5 :: ◆ □
	4000K	6100lm		
75W e²	3000K	9300lm	2409	0 5 4 - 4 2 8 8 :: ◆ □
	4000K	9800lm		

Light distribution



Opal
direct / indirect
LOR 85 %

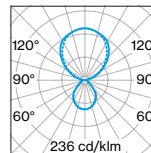
Microprismatic
direct / indirect
LOR 79 %

LITO 60 OFFICE SUSPENDED



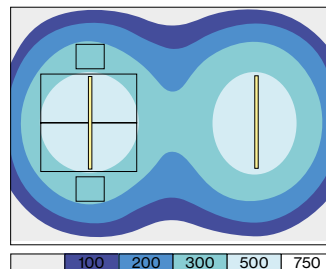
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
37W e²	3000K	4800lm	1209	0 5 4 - 4 2 9 4 :: ◆ □ P
	4000K	5000lm		
47W e²	3000K	6000lm	1509	0 5 4 - 4 2 9 5 :: ◆ □ P
	4000K	6300lm		
75W e²	3000K	9600lm	2409	0 5 4 - 4 2 9 8 :: ◆ □ P
	4000K	10100lm		

Light distribution



Microprismatic
direct / indirect
LOR 85 %

Technical data



LITO 60 OFFICE 37W GLARE EVALUATION

Room dimensions	5.4×4.05×2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H
UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²

*above working surface

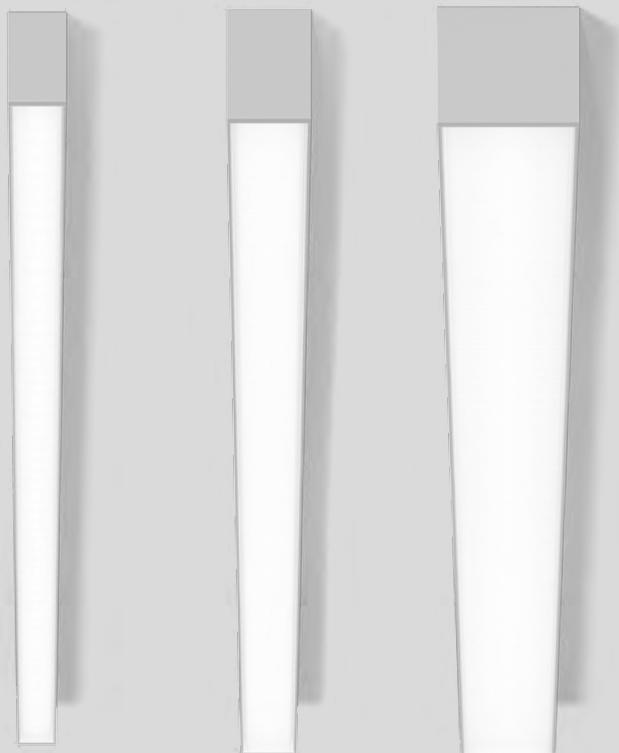


MINO

40 / 60 / 100

SURFACE

xal.com/mino-surface



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 116lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
anodised
powder-coated
halogen-free cable

MINO 40 / 60 / 100 SYSTEM

page 370 / 410 / 428

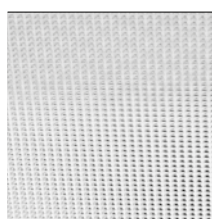


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 3 unterschiedlichen Breiten, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 3 different widths, angular design; no visible screws; surface white or black powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



MINO 100 microprismatic (UGR < 19)

Order options

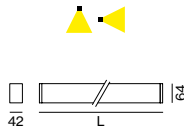
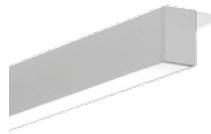
COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	▾▾
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑
anodised aluminium	6
white	7
black	8



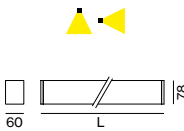
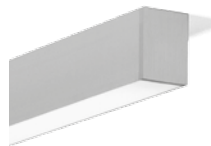
LIGHT OPTIC COVER	☑
opal high performance	H
microprismatic	P



MINO 40 SURFACE



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000 K	1250 lm	588	0 5 6 - 9 1 3 2 : : ☐☑☑
	4000 K	1300 lm		
20 W e ²	3000 K	1900 lm	888	0 5 6 - 9 1 3 3 : : ☐☑☑
	4000 K	2000 lm		
18 W e	3000 K	1700 lm	1188	0 5 6 - 9 1 2 4 : : 1 ☐☑
	4000 K	1800 lm		
27 W e ²	3000 K	2500 lm	1188	0 5 6 - 9 1 3 4 : : ☐☑☑
	4000 K	2600 lm		
23 W e	3000 K	2100 lm	1488	0 5 6 - 9 1 2 5 : : 1 ☐☑
	4000 K	2200 lm		
34 W e ²	3000 K	3100 lm	1488	0 5 6 - 9 1 3 5 : : ☐☑☑
	4000 K	3300 lm		
36 W e	3000 K	3400 lm	2360	0 5 6 - 9 1 2 8 : : 1 ☐☑
	4000 K	3600 lm		
54 W e ²	3000 K	5000 lm	2360	0 5 6 - 9 1 3 8 : : ☐☑☑
	4000 K	5200 lm		

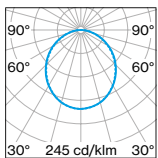


MINO 60 SURFACE

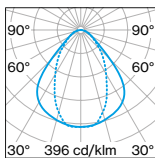


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000 K	1350 lm	588	0 5 6 - 3 1 3 2 : : ☐☑☑
	4000 K	1400 lm		
20 W e ²	3000 K	2000 lm	888	0 5 6 - 3 1 3 3 : : ☐☑☑
	4000 K	2100 lm		
18 W e	3000 K	1800 lm	1188	0 5 6 - 3 1 2 4 : : 1 ☐☑
	4000 K	1900 lm		
27 W e ²	3000 K	2700 lm	1188	0 5 6 - 3 1 3 4 : : ☐☑☑
	4000 K	2900 lm		
23 W e	3000 K	2300 lm	1488	0 5 6 - 3 1 2 5 : : 1 ☐☑
	4000 K	2400 lm		
34 W e ²	3000 K	3400 lm	1488	0 5 6 - 3 1 3 5 : : ☐☑☑
	4000 K	3600 lm		
37 W e	3000 K	3700 lm	2360	0 5 6 - 3 1 2 8 : : 1 ☐☑
	4000 K	3900 lm		
54 W e ²	3000 K	5500 lm	2360	0 5 6 - 3 1 3 8 : : ☐☑☑
	4000 K	5700 lm		

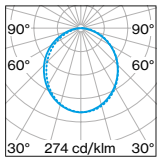
Light distribution



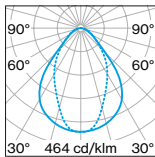
40 opal
direct
LOR 66%



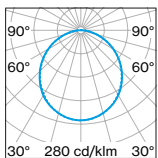
40 microprism.
direct
LOR 64%



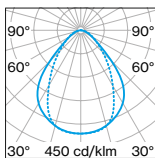
60 opal
direct
LOR 71%



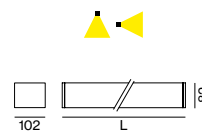
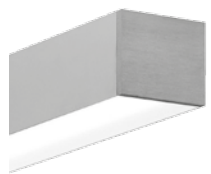
60 microprism.
direct
LOR 69%



100 opal
direct
LOR 77%



100 microprism.
direct
LOR 77%



MINO 100 SURFACE



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000 K	1500 lm	588	0 5 6 - 4 1 3 2 : : ☐☑☑
	4000 K	1600 lm		
20 W e ²	3000 K	2200 lm	888	0 5 6 - 4 1 3 3 : : ☐☑☑
	4000 K	2300 lm		
18 W e	3000 K	2000 lm	1188	0 5 6 - 4 1 2 4 : : 1 ☐☑
	4000 K	2100 lm		
27 W e ²	3000 K	3000 lm	1188	0 5 6 - 4 1 3 4 : : ☐☑☑
	4000 K	3100 lm		
23 W e	3000 K	2500 lm	1488	0 5 6 - 4 1 2 5 : : 1 ☐☑
	4000 K	2600 lm		
34 W e ²	3000 K	3700 lm	1488	0 5 6 - 4 1 3 5 : : ☐☑☑
	4000 K	3900 lm		
37 W e	3000 K	4000 lm	2360	0 5 6 - 4 1 2 8 : : 1 ☐☑
	4000 K	4200 lm		
54 W e ²	3000 K	5900 lm	2360	0 5 6 - 4 1 3 8 : : ☐☑☑
	4000 K	6200 lm		

Inspiration

Praxis am Bahnhof
Bremgarten, Switzerland

SOLUTION
MINO 60 SURFACE

ARCHITECT
Outlog Architektur+Planung AG
Lenzburg, Switzerland

LIGHTING DESIGN
Outlog Architektur+Planung AG
Lenzburg, Switzerland



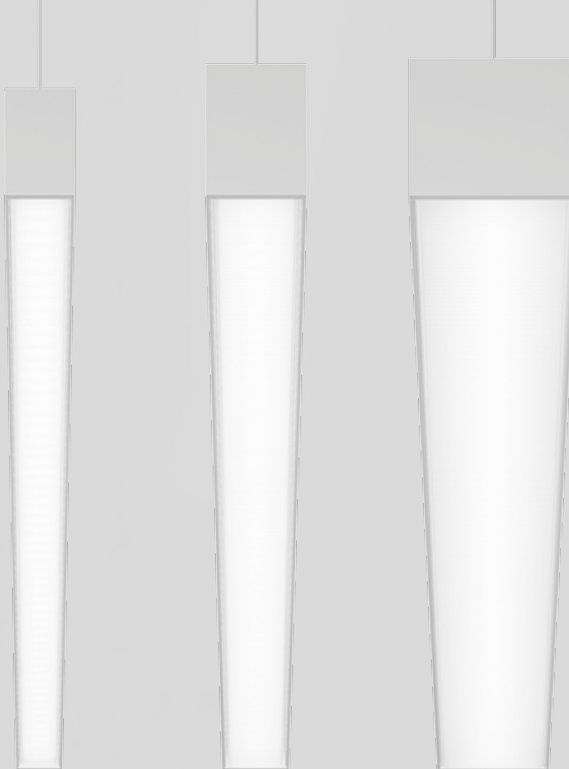


MINO

40 / 60 / 100

SUSPENDED

xal.com/mino-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 116lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
anodised
powder-coated
halogen-free cable

MINO 40 / 60 / 100 SYSTEM

[page 370 / 410 / 428](#)

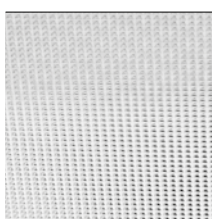


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 3 unterschiedlichen Breiten, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing made of extruded aluminium profile in 3 different widths, angular design; no visible screws; surface white or black powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; microprismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



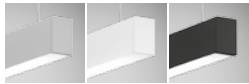
MINO 100 microprismatic (UGR < 19)

Order options

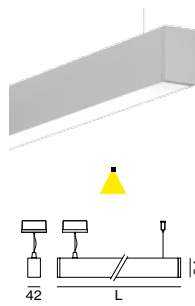
COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	▾▾
non DIM	1
DIM DALI	3

MATERIAL COLOUR	▣
anodised aluminium	6
white	7
black	8



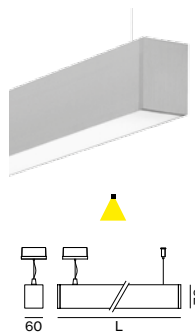
LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	P



MINO 40 SUSPENDED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20W e²	3000K	1900lm	888	0 5 6 - 9 2 3 3 :: ▾ ▣ ☐
	4000K	2000lm		
18W e	3000K	1700lm	1188	0 5 6 - 9 2 2 4 :: 1 ▣ ☐
	4000K	1800lm		
27W e²	3000K	2500lm	1188	0 5 6 - 9 2 3 4 :: ▾ ▣ ☐
	4000K	2600lm		
23W e	3000K	2100lm	1488	0 5 6 - 9 2 2 5 :: 1 ▣ ☐
	4000K	2200lm		
34W e²	3000K	3100lm	1488	0 5 6 - 9 2 3 5 :: ▾ ▣ ☐
	4000K	3300lm		
36W e	3000K	3400lm	2360	0 5 6 - 9 2 2 8 :: 1 ▣ ☐
	4000K	3600lm		
54W e²	3000K	5000lm	2360	0 5 6 - 9 2 3 8 :: ▾ ▣ ☐
	4000K	5200lm		

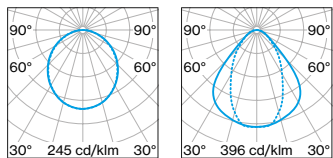


MINO 60 SUSPENDED



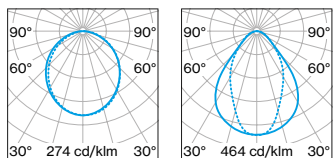
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20W e²	3000K	2000lm	888	0 5 6 - 3 2 3 3 :: ▾ ▣ ☐
	4000K	2100lm		
18W e	3000K	1800lm	1188	0 5 6 - 3 2 2 4 :: 1 ▣ ☐
	4000K	1900lm		
27W e²	3000K	2700lm	1188	0 5 6 - 3 2 3 4 :: ▾ ▣ ☐
	4000K	2900lm		
23W e	3000K	2300lm	1488	0 5 6 - 3 2 2 5 :: 1 ▣ ☐
	4000K	2400lm		
34W e²	3000K	3400lm	1488	0 5 6 - 3 2 3 5 :: ▾ ▣ ☐
	4000K	3600lm		
37W e	3000K	3700lm	2360	0 5 6 - 3 2 2 8 :: 1 ▣ ☐
	4000K	3900lm		
54W e²	3000K	5500lm	2360	0 5 6 - 3 2 3 8 :: ▾ ▣ ☐
	4000K	5700lm		

Light distribution



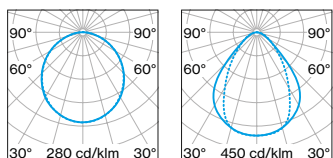
40 opal direct
LOR 66%

40 microprism. direct
LOR 64%



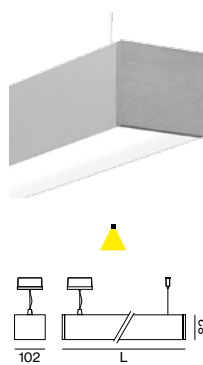
60 opal direct
LOR 71%

60 microprism. direct
LOR 69%



100 opal direct
LOR 77%

100 microprism. direct
LOR 77%



MINO 100 SUSPENDED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20W e²	3000K	2200lm	888	0 5 6 - 4 2 3 3 :: ▾ ▣ ☐
	4000K	2300lm		
18W e	3000K	2000lm	1188	0 5 6 - 4 2 2 4 :: 1 ▣ ☐
	4000K	2100lm		
27W e²	3000K	3000lm	1188	0 5 6 - 4 2 3 4 :: ▾ ▣ ☐
	4000K	3100lm		
23W e	3000K	2500lm	1488	0 5 6 - 4 2 2 5 :: 1 ▣ ☐
	4000K	2600lm		
34W e²	3000K	3700lm	1488	0 5 6 - 4 2 3 5 :: ▾ ▣ ☐
	4000K	3900lm		
37W e	3000K	4000lm	2360	0 5 6 - 4 2 2 8 :: 1 ▣ ☐
	4000K	4200lm		
54W e²	3000K	5900lm	2360	0 5 6 - 4 2 3 8 :: ▾ ▣ ☐
	4000K	6200lm		

Inspiration

Office Los Campos
Gijón, Spain

ARCHITECT
Ballina y Canal Arquitectos
Gijón, Spain

LIGHTING DESIGN
Lux Gijón
Gijón, Spain

SOLUTION
MINO 60 SUSPENDED





MINO 60 CIRCLE CEILING

xal.com/mino-60-circle-ceiling



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 117lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumstrangpressprofil nahtlos verschweißt; Oberfläche grau, weiß oder schwarz pulverbeschichtet; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Aluminiumdruckguss für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface grey, white or black powder coated; LED lighting insert consisting of highly reflective coated die-cast aluminium for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Order options

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆⬇
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑
grey	6
white	7
black	8



LIGHT OPTIC COVER	☑
opal high performance	H
microprismatic	P

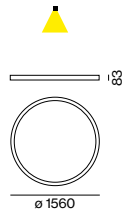


MINO 60 CIRCLE 1000 CEILING



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
45W e	3000K	4900lm	1060	0 3 4 - 2 1 0 2 :: 1 ☑ ☐
	4000K	5000lm		
65W e²	3000K	6600lm	1060	0 3 4 - 2 1 1 2 :: ⬆ ⬇ ☑ ☐
	4000K	6700lm		

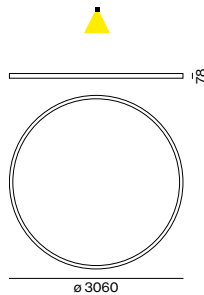


MINO 60 CIRCLE 1500 CEILING



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
72W e	3000K	7600lm	1560	0 3 4 - 2 1 0 0 :: 1 ☑ ☐
	4000K	7800lm		
102W e²	3000K	10800lm	1560	0 3 4 - 2 1 1 0 :: ⬆ ⬇ ☑ ☐
	4000K	11300lm		



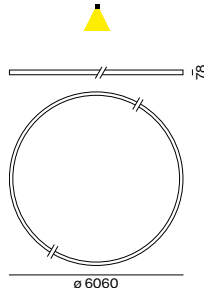
MINO 60 CIRCLE 3000 CEILING



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
145W e	3000K	15600lm	3060	see page 410
	4000K	16400lm		
209W e²	3000K	21100lm	3060	see page 410
	4000K	22100lm		

only available in white & black



MINO 60 CIRCLE 6000 CEILING

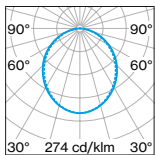


DIRECT

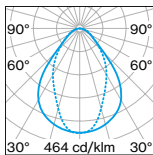
SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
289W e	3000K	31300lm	6060	see page 410
	4000K	32800lm		
417W e²	3000K	42200lm	6060	see page 410
	4000K	44200lm		

only available in white & black

Light distribution



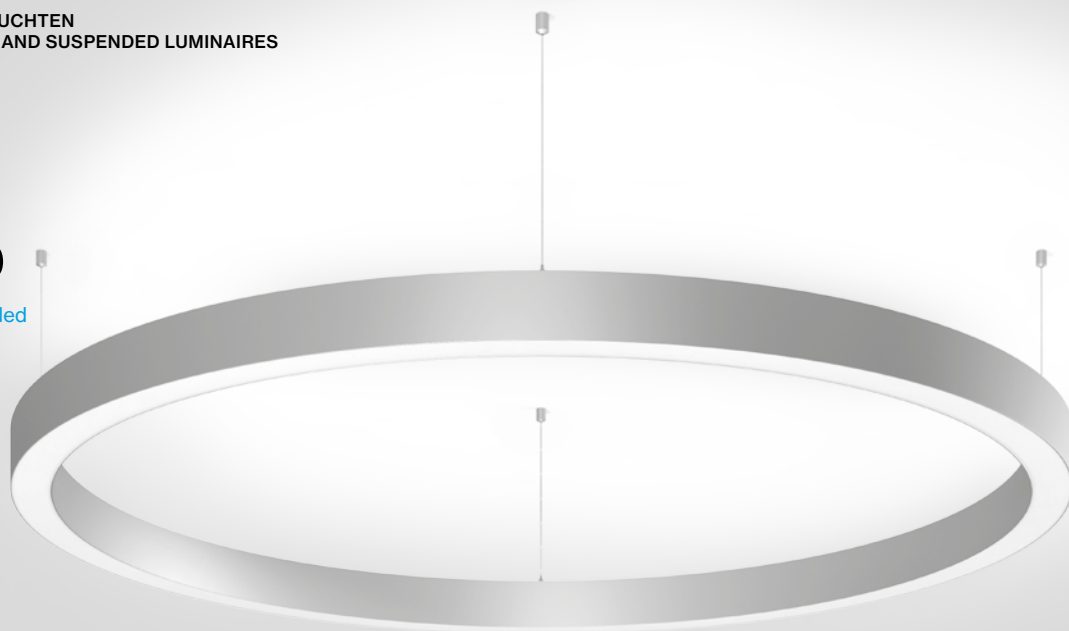
Opal
direct
LOR 72%



Microprismatic
direct
LOR 71%

MINO 60 CIRCLE SUSPENDED

xal.com/mino-60-circle-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 117lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct, direct / indirect illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumstrangpressprofil nahtlos verschweißt; Oberfläche grau, weiß oder schwarz pulverbeschichtet; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Aluminiumdruckguss für verbessertes Thermomanagement; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbare

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface grey, white or black powder coated; LED lighting insert consisting of highly reflective coated die-cast aluminium for improved thermal management; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on the luminaire; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Order options

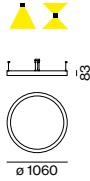
COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆⬇⬆
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑
grey	6
white	7
black	8



LIGHT OPTIC COVER	☑
opal high performance	H
microprismatic	P



MINO 60 CIRCLE 1000 SUSPENDED

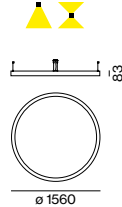


DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
45W e	3000K	4900lm	1060	0 3 4 - 2 2 0 2 :: 1 ☑ ☐
	4000K	5000lm		
65W e²	3000K	6600lm	1060	0 3 4 - 2 2 1 2 :: ☐ ☑ ☐
	4000K	6700lm		

DIRECT / INDIRECT (3 DALI)

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
68W e	3000K	7600lm	1060	0 3 4 - 2 2 0 3 :: 1 ☑ ☐
	4000K	7900lm		
87W e²	3000K	9400lm	1060	0 3 4 - 2 2 1 3 :: ☐ ☑ ☐
	4000K	9900lm		



MINO 60 CIRCLE 1500 SUSPENDED



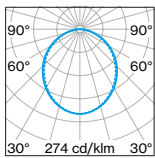
DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
72W e	3000K	7600lm	1560	0 3 4 - 2 2 0 0 :: 1 ☑ ☐
	4000K	7800lm		
102W e²	3000K	10800lm	1560	0 3 4 - 2 2 1 0 :: ☐ ☑ ☐
	4000K	11300lm		

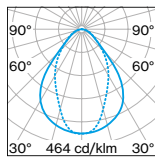
DIRECT / INDIRECT (5 DALI)

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
108W e	3000K	12100lm	1560	0 3 4 - 2 2 0 1 :: 1 ☑ ☐
	4000K	12700lm		
139W e²	3000K	15100lm	1560	0 3 4 - 2 2 1 1 :: ☐ ☑ ☐
	4000K	15800lm		

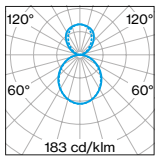
Light distribution



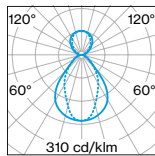
Opal
direct
LOR 72%



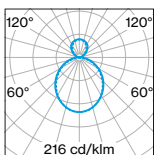
Microprismatic
direct
LOR 71%



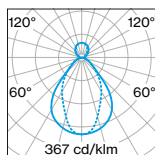
Opal
e LED
direct / indirect
LOR 74%



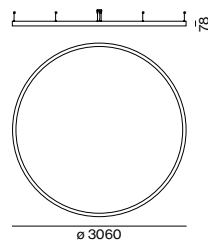
Microprismatic
e LED
direct / indirect
LOR 73%



Opal
± e / ∓ e² LED
direct / indirect
LOR 73%



Microprismatic
± e / ∓ e² LED
direct / indirect
LOR 72%



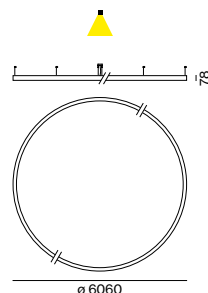
MINO 60 CIRCLE 3000 SUSPENDED



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
145W e	3000K	15600lm	3060	see page 410
	4000K	16400lm		
209W e²	3000K	21100lm	3060	see page 410
	4000K	22100lm		

only available in white & black



MINO 60 CIRCLE 6000 SUSPENDED



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
289W e	3000K	31300lm	6060	see page 410
	4000K	32800lm		
417W e²	3000K	42200lm	6060	see page 410
	4000K	44200lm		

only available in white & black

Inspiration

Sparkasse
Kirn, Germany

SOLUTION
MINO 60 CIRCLE SUSPENDED
MINO 60 CURVE

ARCHITECT
DI (FH) Kristin Pfeifer
c/o Sparkasse
Rhein-Nahe, Germany

Reichelt Ingenieurgesellschaft
für Elektrotechnik
Langenlonsheim, Germany





UFO CEILING

xal.com/ufo_ceiling



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 116 lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
microprismatic (UGR < 19)

ELECTRICAL

DIM DALI

PHYSICAL

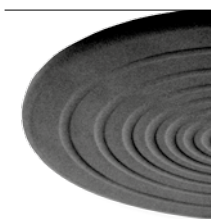
aluminium
powder-coated
halogen-free cable

Description

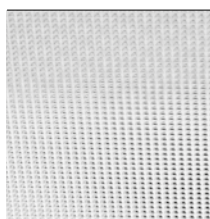
DE Leuchtenkörper aus Aluminiumstrangpressprofil; gebogene Elemente gerollt und nahtlos verschweißt; hoher Gestaltungsfreiraum durch gerade und gebogene Elemente (in 2 Radien); Oberfläche grau, weiß oder schwarz pulverbeschichtet; LED Platine einseitig und seitlich abstrahlend in der Leuchte verbaut; Lichtlenkung mittels hochreflektierendem Reflektor (96%) mit diffuser Strahlungscharakteristik; mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar; schall-reduzierendes Zubehör bei Ringanordnung erhältlich: Schallschutzelement überzogen mit Schaumstoff und mehrschichtigem Filz

EN Luminaire housing made of extruded aluminium profile; creative flexibility thanks to straight and arched system components (in 2 radii); surface grey, white or black powder coated; LED circuit board single-sided and mounted laterally emitting in luminaire; light control via highly reflective reflector (96%) with diffuse radiation characteristic; micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable; noise reducing accessories available for annular arrangement: soundproofing element covered with foam and multi-layered felt

Features



sound-reducing
absorber

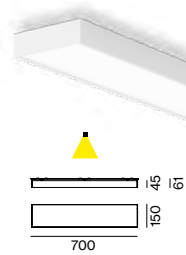
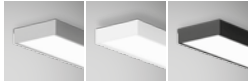


microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

MATERIAL COLOUR	
grey	6
white	7
black	8

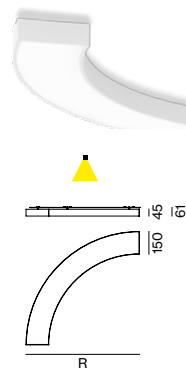


UFO LINEAR CEILING



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1500lm	700	0 5 8 - 2 1 1 2 :: 3 ▣ P
	4000K	1600lm		



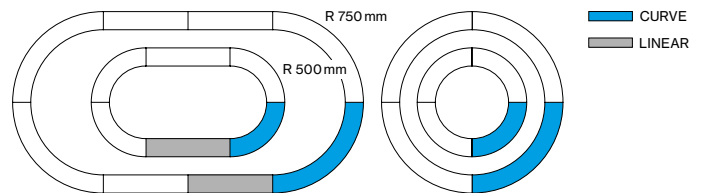
UFO CURVE CEILING



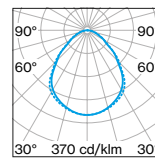
DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	R (mm)	ORDER CODE
11 W	3000K	1100lm	500	0 5 8 - 2 1 5 1 :: 3 ▣ P
	4000K	1200lm		
19 W	3000K	2100lm	750	0 5 8 - 2 1 5 2 :: 3 ▣ P
	4000K	2200lm		

Individual design



Light distribution



Microprismatic
direct
LOR 80 %

Order options

MATERIAL COLOUR	
light grey	0 0
dark grey	0 1



Accessories

POWER FEEDER 220-240V 13A	ORDER CODE
TYPE	
power feeder	0 5 8 - 2 9 1 1 1 1 0

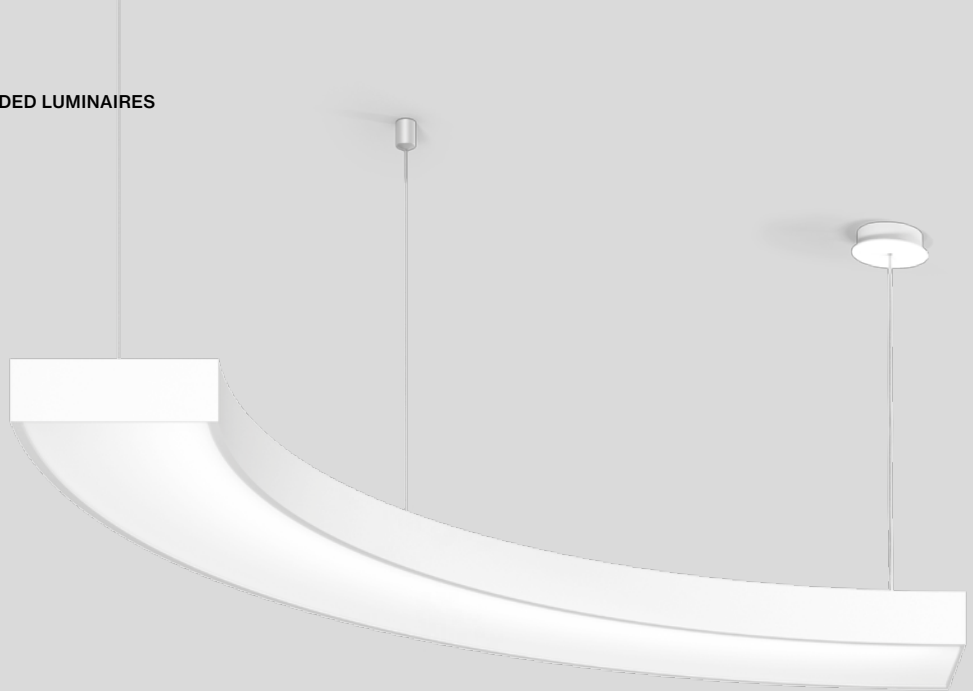
CONNECTION CABLE 220-240V 13A	ORDER CODE
TYPE	
connection cable	0 5 8 - 2 9 1 2 1 1 0

SOUND ABSORBER	ORDER CODE
Ø (mm)	
700	0 5 8 - 2 9 3 1 1 ▣ ▣
1200	0 5 8 - 2 9 3 2 1 ▣ ▣

only for circular mounting

UFO SUSPENDED

xal.com/ufo_suspended



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 116 lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct, direct/indirect illumination
microprismatic (UGR < 19)
transparent feeder cable

ELECTRICAL

DIM DALI

PHYSICAL

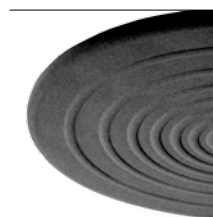
aluminium
powder-coated
halogen-free cable

Description

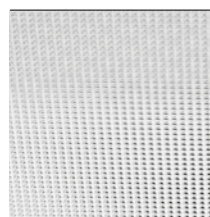
DE Leuchtenkörper aus Aluminiumstrangpressprofil; gebogene Elemente gerollt und nahtlos verschweißt; hoher Gestaltungsfreiraum durch gerade und gebogene Elemente (in 2 Radien); Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeisung; Oberfläche grau, weiß oder schwarz pulverbeschichtet; LED Platine einseitig und seitlich abstrahlend in der Leuchte verbaut; Lichtlenkung mittels hochreflektierendem Reflektor (96%) mit diffuser Strahlungscharakteristik; mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); optional direkt / indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbare; schallreduzierendes Zubehör bei Ringanordnung erhältlich: Schallschutzelement überzogen mit Schaumstoff und mehrschichtigem Filz

EN Luminaire housing made of extruded aluminium profile; creative flexibility thanks to straight and arched system components (in 2 radii); suspended luminaire with 2000 mm cable suspension, height adjustment without tools; incl. transparent feed; surface grey, white or black powder coated; LED circuit board single-sided and mounted laterally emitting in luminaire; light control via highly reflective reflector (96%) with diffuse radiation characteristic; micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable; noise reducing accessories available for annular arrangement: soundproofing element covered with foam and multi-layered felt

Features



sound-reducing
absorber

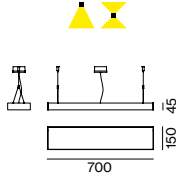
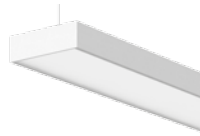
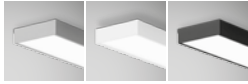


microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

MATERIAL COLOUR	☑
grey	6
white	7
black	8



UFO LINEAR SUSPENDED

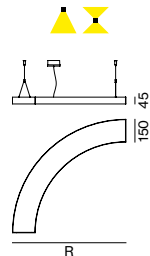
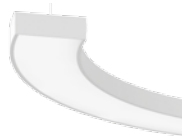


DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14W	3000K	1500lm	700	058 - 2212::3☑P
	4000K	1600lm		

DIRECT/INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
21W	3000K	2400lm	700	058 - 2222::3☑P
	4000K	2500lm		



UFO CURVE SUSPENDED



DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	R (mm)	ORDER CODE
11W	3000K	1100lm	500	058 - 2251::3☑P
	4000K	1200lm		
19W	3000K	2100lm	750	058 - 2252::3☑P
	4000K	2200lm		

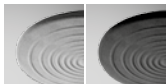
DIRECT/INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	R (mm)	ORDER CODE
17W	3000K	2000lm	500	058 - 2261::3☑P
	4000K	2100lm		
29W	3000K	3300lm	750	058 - 2262::3☑P
	4000K	3400lm		

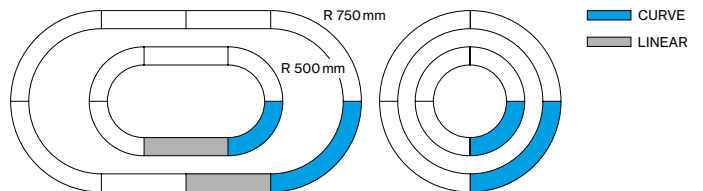
Order options

MATERIAL COLOUR	☑
grey	6
white	7
black	8

MATERIAL COLOUR	☑
light grey	00
dark grey	01



Individual design



Accessories

POWER FEEDER 220-240V | 13A

TYPE	power feeder	ORDER CODE	058 - 2916117
-------------	--------------	-------------------	---------------

CONNECTION UNIT 220-240V | 13A

TYPE	connection unit	ORDER CODE	058 - 291711☑
includes electrical and mechanical linear connector with suspension			

SUSPENSION

TYPE	single mounting linear (2 pieces)	ORDER CODE	058 - 2910110 . 02
	single mounting (3 pieces)		058 - 2910110 . 03
	system mounting end set (2 pcs.)*		058 - 2910110 . 02

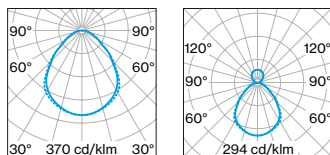
* only use for open arrangement

SOUND ABSORBER

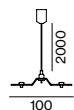
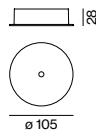
Ø (mm)	700	ORDER CODE	058 - 29311☑☑
	1200		058 - 29321☑☑

only for circular mounting

Light distribution



Microprismatic direct	Microprismatic direct/indirect
LOR 80%	LOR 83%



Inspiration

Light+Building
Frankfurt, Germany

SOLUTION
UFO CEILING

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria





TUBO 100 / 150 SURFACE

xal.com/tubo-surface



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 130lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Tragprofil aus stranggepresstem Aluminium; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung in 2 Durchmesser aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; suitable for wall or ceiling mounting; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover 2 in diameters in satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features

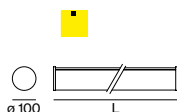


detail end caps

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

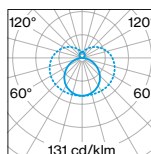


TUBO 100 SURFACE

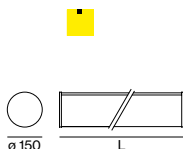
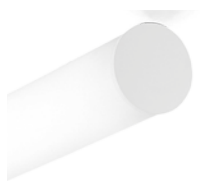


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000 K	3300 lm	877	0 5 8 - 1 1 3 3 : : 7 0
	4000 K	3500 lm		
37 W	3000 K	4400 lm	1177	0 5 8 - 1 1 3 4 : : 7 0
	4000 K	4600 lm		
46 W	3000 K	5500 lm	1477	0 5 8 - 1 1 3 5 : : 7 0
	4000 K	5800 lm		
73 W	3000 K	8900 lm	2347	0 5 8 - 1 1 3 8 : : 7 0
	4000 K	9300 lm		

Light distribution



Opal
direct
LOR 85 %

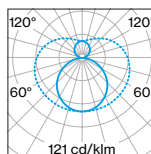


TUBO 150 SURFACE



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000 K	3400 lm	877	0 5 8 - 1 1 8 3 : : 7 0
	4000 K	3500 lm		
37 W	3000 K	4500 lm	1177	0 5 8 - 1 1 8 4 : : 7 0
	4000 K	4700 lm		
46 W	3000 K	5600 lm	1477	0 5 8 - 1 1 8 5 : : 7 0
	4000 K	5900 lm		
73 W	3000 K	9000 lm	2347	0 5 8 - 1 1 8 8 : : 7 0
	4000 K	9500 lm		

Light distribution



Opal
direct
LOR 87 %

TUBO 100 / 150 SUSPENDED

xal.com/tubo-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 130lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Tragprofil aus stranggepresstem Aluminium; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 2000mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung in 2 Durchmesser aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; Suspended luminaire with 2000mm cable suspension, height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover 2 in diameters in satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features

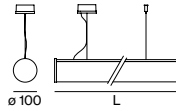
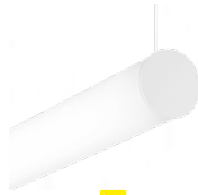


detail end caps

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

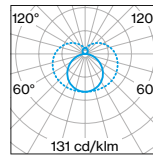


TUBO 100 SUSPENDED

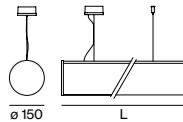


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000 K	3300 lm	877	0 5 8 - 1 2 3 3 : : 7 0
	4000 K	3500 lm		
37 W	3000 K	4400 lm	1177	0 5 8 - 1 2 3 4 : : 7 0
	4000 K	4600 lm		
46 W	3000 K	5500 lm	1477	0 5 8 - 1 2 3 5 : : 7 0
	4000 K	5800 lm		
73 W	3000 K	8900 lm	2347	0 5 8 - 1 2 3 8 : : 7 0
	4000 K	9300 lm		

Light distribution



Opal
direct
LOR 85 %

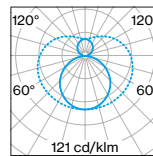


TUBO 150 SUSPENDED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000 K	3400 lm	877	0 5 8 - 1 2 8 3 : : 7 0
	4000 K	3500 lm		
37 W	3000 K	4500 lm	1177	0 5 8 - 1 2 8 4 : : 7 0
	4000 K	4700 lm		
46 W	3000 K	5600 lm	1477	0 5 8 - 1 2 8 5 : : 7 0
	4000 K	5900 lm		
73 W	3000 K	9000 lm	2347	0 5 8 - 1 2 8 8 : : 7 0
	4000 K	9500 lm		

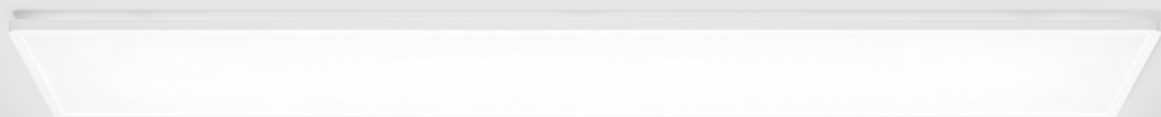
Light distribution



Opal
direct
LOR 87 %

TASK CEILING

xal.com/task-ceiling



Quickinfo

GENERAL

ceiling mounted
IP20

LED

Mid-power LED
up to 111lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI / CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

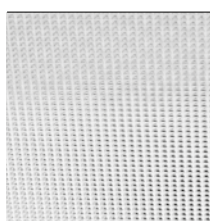
DE Rechteckiger Leuchtenkörper mit abgerundeten Kanten aus Aluminium; extrem flache Bauform (nur 15 mm); moderne Formensprache im edlen Design für höchste Ansprüche; Oberfläche grau oder weiß pulverbeschichtet; direkt/indirekte Lichtverteilung durch LGP- (Light Guiding Prism) Body; seitlich eingekoppeltes Licht durch integrierte Prismen nach oben und unten gelenkt; mit einem Direktanteil von 95% und einen Indirektanteil von 5%; mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Rectangular luminaire housing with rounded edges in aluminium; ultra low-profile design (only 15 mm); modern shape in an elegant design for high demands; surface coated grey or white; direct/indirect light distribution by LGP- (Light Guiding Prism) body; side coupled light, directed up and down by integrated prisms; direct/indirect light distribution by LGP- (Light Guiding Prism) body; side coupled light, directed up and down by integrated prisms; with 95% direct and 5% indirect component; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function

Features



flat design (15 mm)



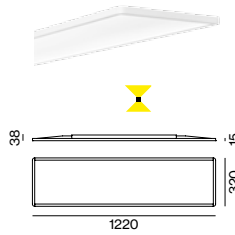
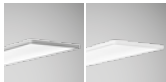
microprismatic
(UGR < 19)

Order options

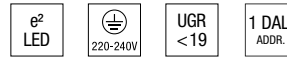
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3
daylight & movement sensor on request	

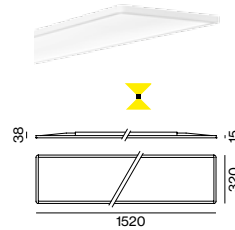
MATERIAL COLOUR	
grey	6
white	7



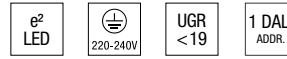
TASK 1200 CEILING



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
55 W	3000 K 4000 K	5700 lm 5900 lm	0 5 9 - 2 1 3 4 :: ◊ ◻ P

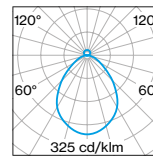


TASK 1500 CEILING



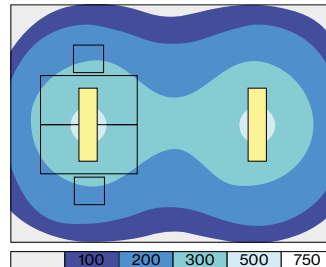
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68 W	3000 K 4000 K	7100 lm 7500 lm	0 5 9 - 2 1 3 5 :: ◊ ◻ P

Light distribution



Microprismatic
direct / indirect
LOR 72%

Technical data

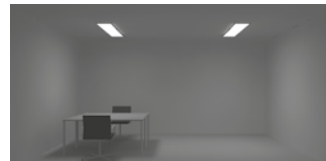


TASK 1500 CEILING 68 W GLARE EVALUATION

Room dimensions	5.4×4.05×2.7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²



Inspiration

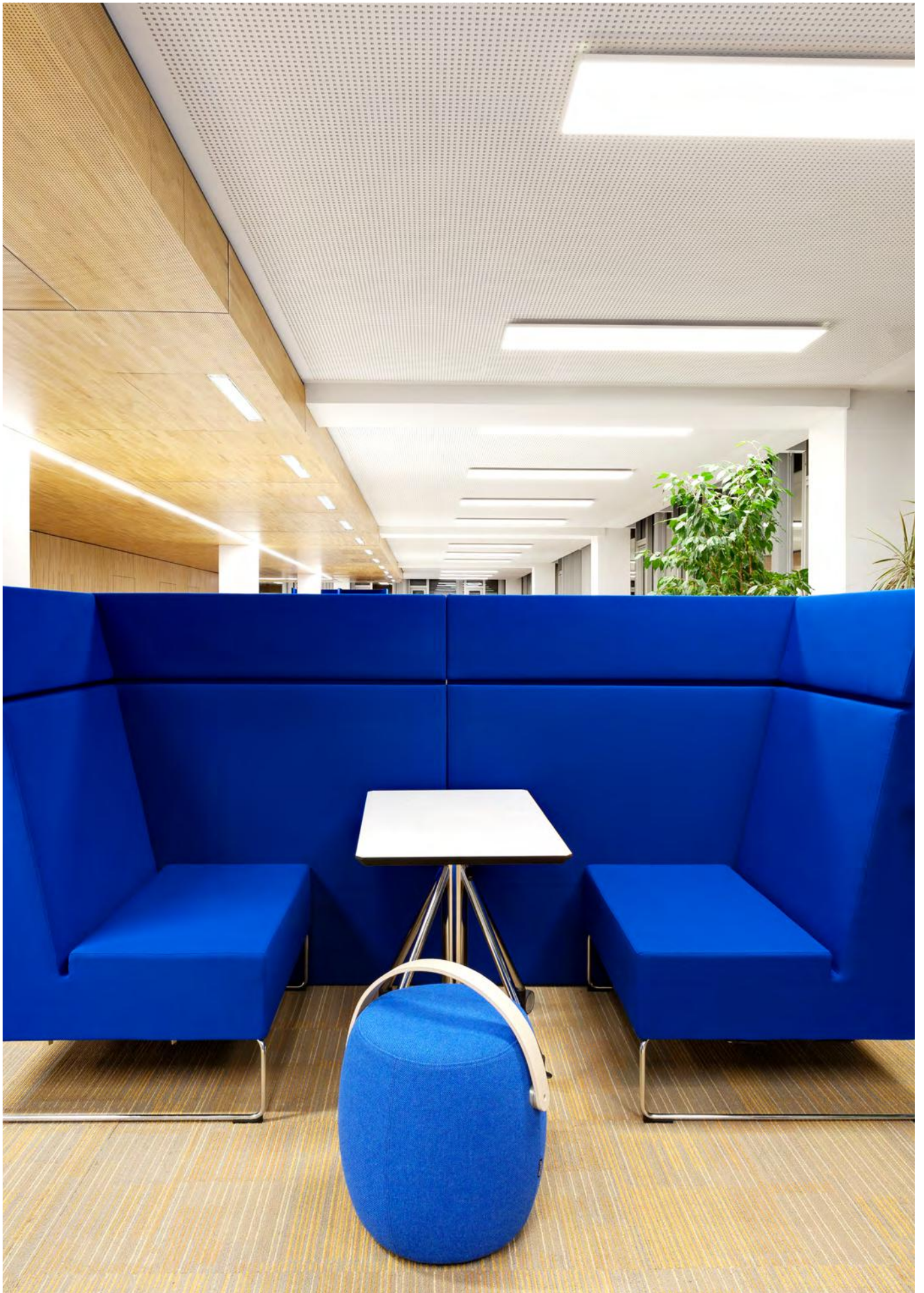
Münchner Rückversicherung
Munich, Germany

SOLUTION
TASK 1500 CEILING

ARCHITECT

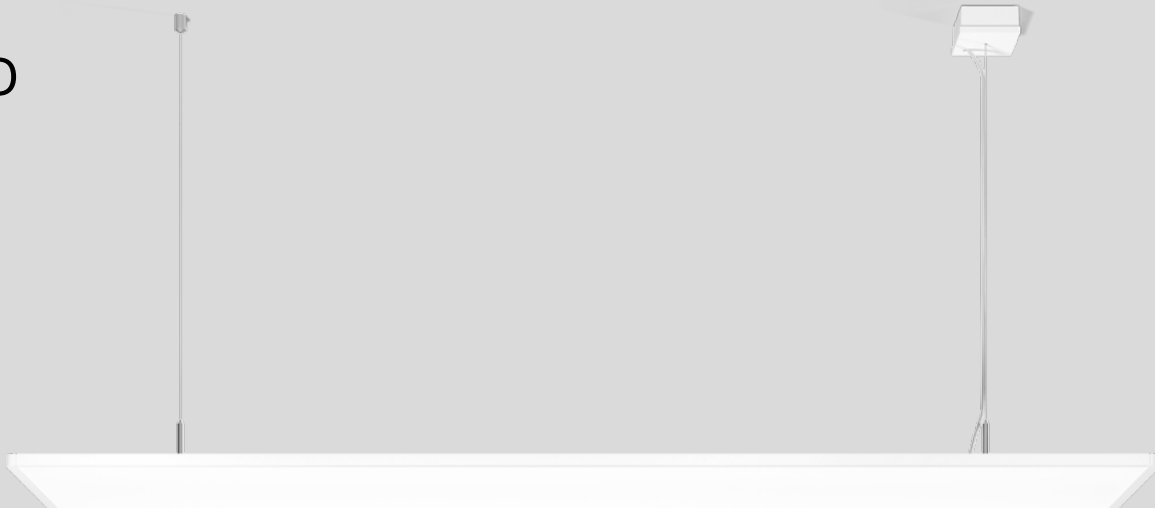
Scholz - Sorger
Architekten Partnerschaft mbB
Munich, Germany





TASK SUSPENDED

xal.com/task-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 134lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI / CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable

TASK FREE STANDING

[page 486](#)



Description

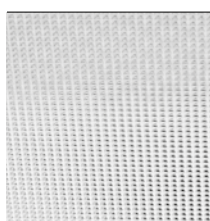
DE Rechteckiger Leuchtenkörper mit abgerundeten Kanten aus Aluminium; extrem flache Bauform (nur 15 mm); moderne Formensprache im edlen Design für höchste Ansprüche; Oberfläche grau oder weiß pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt/indirekte Lichtverteilung durch LGP- (Light Guiding Prism) Body; seitlich eingekoppeltes Licht durch integrierte Prismen nach oben und unten gelenkt; mit einem Direktanteil von 57% und einen Indirektanteil von 43%; mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Rectangular luminaire housing with rounded edges in aluminium; ultra low-profile design (only 15 mm); modern shape in an elegant design for high demands; surface coated grey or white; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools; incl. transparent feed; direct/indirect light distribution by LGP- (Light Guiding Prism) body; side coupled light, directed up and down by integrated prisms; with 57% direct and 43% indirect component; micro prismatic PMMA cover; completely homogeneous illumination; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function

Features



flat design (15 mm)



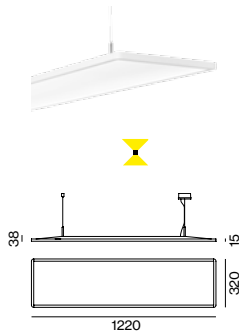
microprismatic
(UGR < 19)

Order options

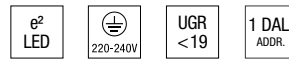
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3
daylight & movement sensor on request	

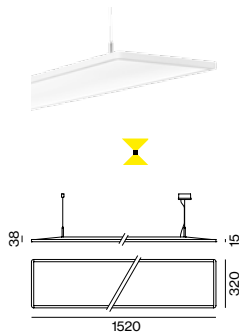
MATERIAL COLOUR	
grey	6
white	7



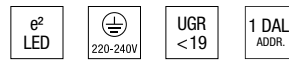
TASK 1200 SUSPENDED



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
55 W	3000 K 4000 K	6000 lm 6200 lm	0 5 9 - 2 2 3 4 :: ◆ ▣ P

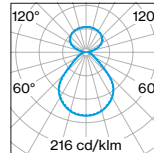


TASK 1500 SUSPENDED



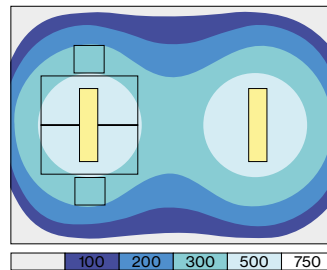
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68 W	3000 K 4000 K	7500 lm 7900 lm	0 5 9 - 2 2 3 5 :: ◆ ▣ P

Light distribution



Microprismatic
direct / indirect
LOR 76 %

Technical data



TASK 1200 SUSPENDED 55 W GLARE EVALUATION

Room dimensions	5.4×4.05×2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19



65° < 3000 cd/m²

*above working surface

Inspiration

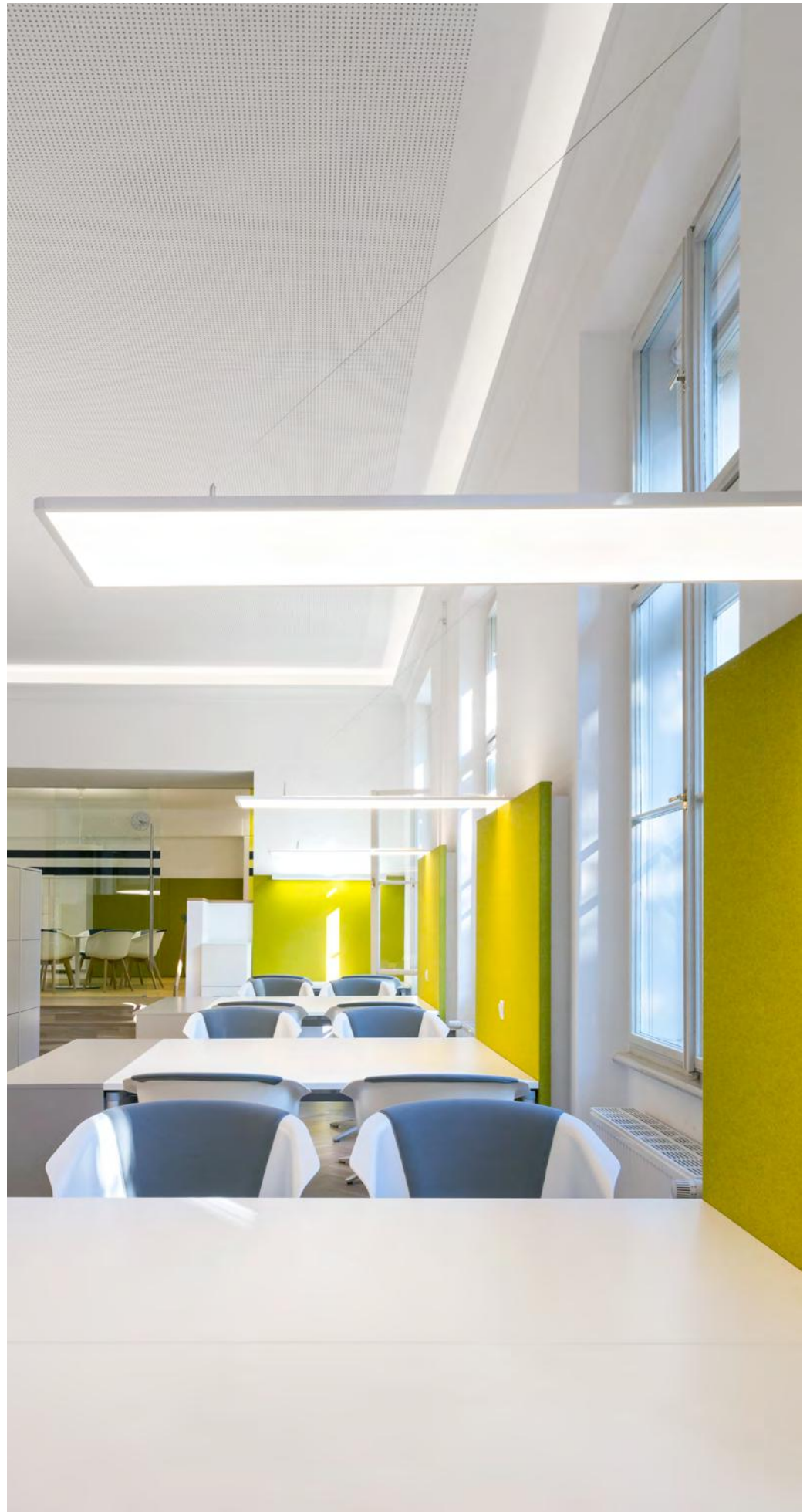
Europagymnasium
Klagenfurt, Austria

SOLUTION
TASK 1200 SUSPENDED
customised

ARCHITECT
Traninger und Walder Architects
Villach, Austria

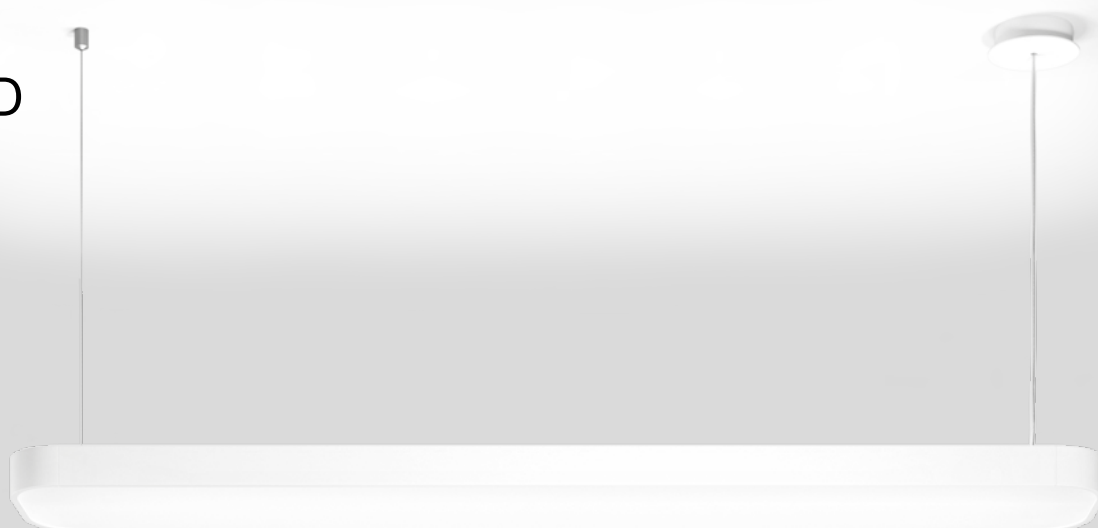
LIGHTING DESIGN
Traninger und Walder Architects
Villach, Austria





METRIC SUSPENDED

xal.com/metric-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 115lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct, direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

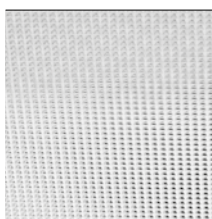
aluminium
powder-coated
halogen-free cable

Description

DE Rechteckiger Leuchtenkörper mit abgerundeten Ecken aus Aluminium; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt / indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; Indirektanteil mit opaler Abdeckung abgedeckt; Direktanteil: mikroprismatische PMMA Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Rectangular luminaire housing with rounded corners in aluminium; surface white powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools; incl. transparent feed; direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; Indirect component covered with opal cover, direct component: micro prismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features

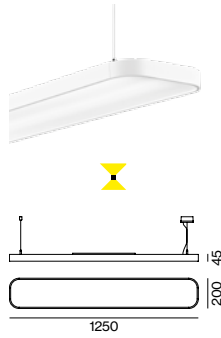


microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

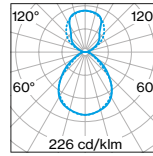


METRIC SUSPENDED

e ² LED	220-240V	UGR <19	1 DALI ADDR.	5,7 kg
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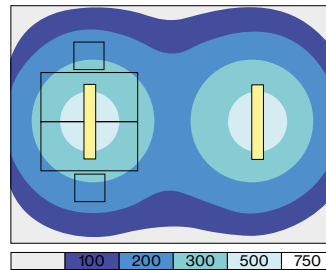
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
64W	3000K	7000lm	0 5 9 - 7 2 8 4 : : 7 P
	4000K	7400lm	

Light distribution



Microprismatic
direct / indirect
LOR 83%

Technical data



**METRIC 64W
GLARE EVALUATION**

Room dimensions	5.4x4.05x2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²

*above working surface



PLANE SUSPENDED

xal.com/plane-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 115lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct, direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

DIM DALI
transparent feeder cable

PHYSICAL

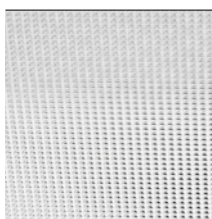
aluminium
powder-coated
halogen-free cable

Description

DE Rechteckiger Leuchtenkörper aus Aluminium; flache Bauform; Enddeckel mit Schattenfuge; keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt / indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; Indirektanteil mit opalem Profil abgedeckt; Direktanteil: mikroprismatische PMMA Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Rectangular luminaire housing in aluminium; flat design luminaire housing; end cap with shadow gap; no visible screws; surface white powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools; incl. transparent feed; direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; Indirect component covered with opal profile, direct component: micro prismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable

Features



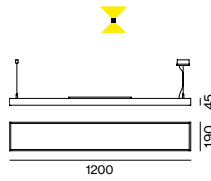
microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL

DIM DALI

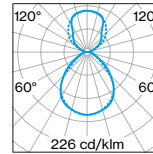


PLANE SUSPENDED

e ² LED	220-240V	UGR < 19	1 DALI ADDR.	5,3 kg
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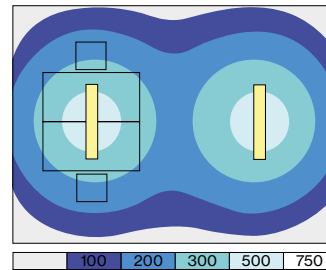
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
64W	3000K 4000K	7000lm 7400lm	0 5 8 - 5 2 3 5 :: 3 7 P

Light distribution



Microprismatic
direct / indirect
LOR 83%

Technical data



**PLANE 64 W
GLARE EVALUATION**

Room dimensions	5.4x4.05x2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19

65° < 3000 cd/m²

*above working surface



PLANE SOFT SUSPENDED

xal.com/plane-soft-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 115lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct, direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

DIM DALI
transparent feeder cable

PHYSICAL

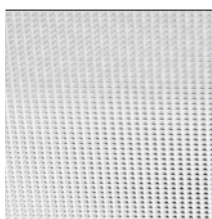
aluminium
powder-coated
halogen-free cable

Description

DE Abgerundeter, länglicher Leuchtenkörper aus Aluminium; flache Bauform; Enddeckel mit Schattenfuge; keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt / indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; Indirektanteil mit opalem Profil abgedeckt; Direktanteil: mikroprismatische PMMA Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Rounded, elongated aluminium luminaire housing, flat design; end cap with shadow gap; no visible screws; surface white powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools; incl. transparent feed; direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; Indirect component covered with opal profile, direct component: micro prismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable

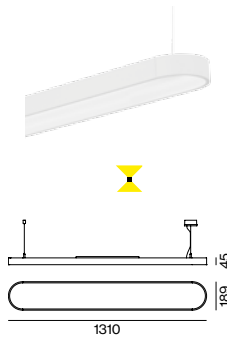
Features



microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

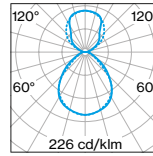


PLANE SOFT SUSPENDED

e ² LED	220-240V	UGR < 19	1 DALI ADDR.	5,3 kg
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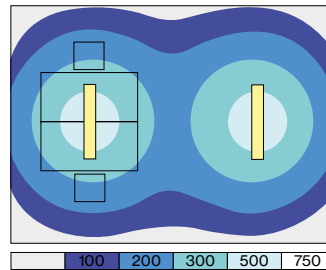
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
64W	3000K	7000lm	0 5 8 - 5 2 8 5 :: 3 7 P
	4000K	7400lm	

Light distribution



Microprismatic
direct / indirect
LOR 83%

Technical data



**PLANE SOFT 64W
GLARE EVALUATION**

Room dimensions	5.4x4.05x2.7m
Suspension height*	1.5m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	<19
UGR axial	<19

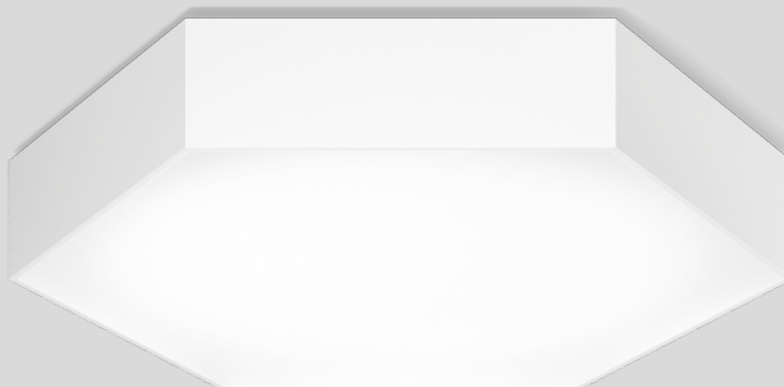
65° < 3000 cd/m²

*above working surface



HEX-O CEILING

xal.com/hex-o-ceiling



Quickinfo

GENERAL

ceiling mounted
IP20

LED

Mid-power LED
up to 137lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

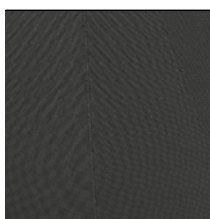
aluminium
powder-coated
acoustically effective
halogen-free cable

Description

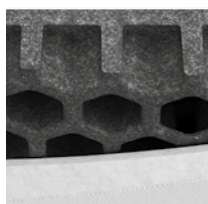
DE Sechseckiger Leuchtenkörper aus Aluminiumstrangpressprofil, nahtlos verschweißt; Oberfläche weiß oder schwarz pulverbeschichtet; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar mit CLO-Funktion; schallreduzierendes Zubehör erhältlich: Akustikmodul und Absorber (geeignet zur Aufnahme von HEX-O Leuchte, Akustikmodul oder Akustik Plate) aus expandiertem Polystyrol (EPS); Akustik Plate in Leuchtenoptik mit Lochblechabdeckung

EN Hexagonal light housing from aluminium extruded profile, seamlessly welded; surface white or black powder coated; highly reflective coating for improved efficiency; satinised or micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; noise reducing accessories available: acoustic module and absorber (suitable for installing of HEX-O luminaire, acoustic module or acoustic panel) in expanded polystyrene (EPS); acoustic panel in luminaire effect with perforated cover plate

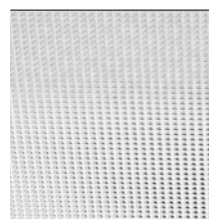
Features



one piece absorber,
available in 2 colours



patented honeycomb
structure



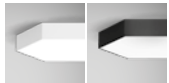
microprismatic
(UGR < 19)

Order options

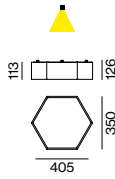
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
white	7
black	8



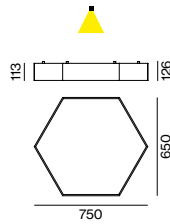
LIGHT OPTIC COVER	
opal high performance	O
microprismatic	P



HEX-O 350 CEILING

e/e ² LED	220-240V	UGR <19	1 DALI ADDR.	3,5 kg
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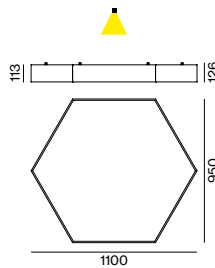
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7W e	3000K	910lm	072 - 8 1 3 7 :: 1 □ □
	4000K	960lm	
10W e ²	3000K	1200lm	072 - 8 1 3 6 :: ◆ □ □
	4000K	1300lm	



HEX-O 650 CEILING

e/e ² LED	220-240V	UGR <19	1 DALI ADDR.	11 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K	3000lm	072 - 8 1 6 7 :: 1 □ □
	4000K	3200lm	
38W e ²	3000K	4700lm	072 - 8 1 6 6 :: ◆ □ □
	4000K	4900lm	

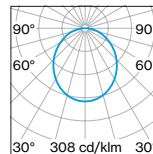


HEX-O 950 CEILING

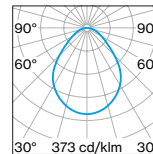
e/e ² LED	220-240V	UGR <19	2 DALI ADDR.	20,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W e	3000K	6000lm	072 - 8 1 7 7 :: 1 □ □
	4000K	6300lm	
83W e ²	3000K	10200lm	072 - 8 1 7 6 :: ◆ □ □
	4000K	10700lm	

Light distribution



Opal
direct
LOR 82 %

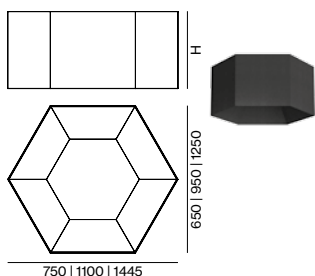
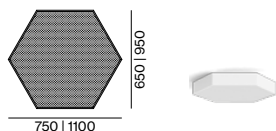
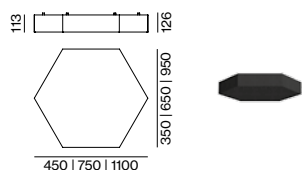
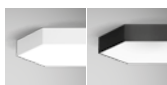


Microprismatic
direct
LOR 75 %

Order options

MATERIAL COLOUR

white	7
black	8



Accessories

ACOUSTIC MODULE CEILING

TYPE	ORDER CODE
ACOUSTIC MODULE 350	072 - 8911131
ACOUSTIC MODULE 650	072 - 8911161
ACOUSTIC MODULE 950	072 - 8911171

combination possible with ABSORBER

ACOUSTIC PLATE CEILING

TYPE	ORDER CODE
ACOUSTIC plate 650	072 - 8921161
ACOUSTIC plate 950	072 - 8921171

combination possible with ABSORBER

ABSORBER 650

H (mm)	ORDER CODE
340	072 - 8931311

HEX-O 350 mounting set	072 - 8951310
ACOUSTIC MODULE 350 mounting set	072 - 8952311
ABSORBER ceiling mounting set	072 - 8954311

See page 324 for sound absorption test

ABSORBER 950

H (mm)	ORDER CODE
340	072 - 8931611
540	072 - 8941611

HEX-O 650 ACOUSTIC PLATE 650 mount. set	072 - 89511610
ACOUSTIC MODULE 650 mounting set	072 - 8952611
ACOUSTIC MODULE 650 mounting set	072 - 8953611
ABSORBER ceiling mounting set	072 - 8954611

See page 324 for sound absorption test

ABSORBER 1250

H (mm)	ORDER CODE
540	072 - 8941711

HEX-O 950 ACOUSTIC PLATE 950 mount. set	072 - 89511710
ACOUSTIC MODULE 950 mounting set	072 - 8953711
ABSORBER ceiling mounting set	072 - 8954711

See page 324 for sound absorption test

Inspiration

Practice Dr. Kohm & Kollegen
Karlsruhe, Germany

ARCHITECT
herzog, kassel + partner
Karlsruhe, Germany

SOLUTION
HEX-O 650, 950 CEILING
HEX-O ACOUSTIC MODULE 350, 650 CEILING
HEX-O ABSORBER 1250



Inspiration

XAL Office
Vienna, Austria

SOLUTION

HEX-O 350, 650, 950 CEILING

HEX-O ACOUSTIC MODULE 350, 650, 950 CEILING

ARCHITECT

INNOCAD Architektur ZT GmbH
Graz, Austria





HEX-O SUSPENDED

xal.com/hex-o-suspended



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 137lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI / CLO
transparent feeder cable

PHYSICAL

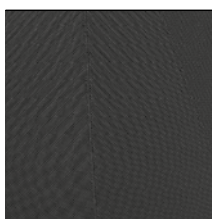
aluminium
powder-coated
acoustically effective
halogen-free cable

Description

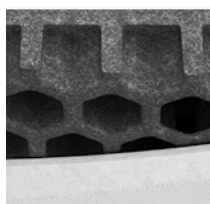
DE Sechseckiger Leuchtenkörper aus Aluminiumstrangpressprofil, nahtlos verschweißt; Oberfläche weiß oder schwarz pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbare mit CLO-Funktion; schallreduzierendes Zubehör erhältlich: Akustikmodul und Absorber (geeignet zur Aufnahme von HEX-O Leuchte, Akustikmodul oder Akustik Plate) aus expandiertem Polystyrol (EPS); Akustik Plate in Leuchtenoptik mit Lochblechabdeckung

EN Hexagonal light housing from aluminium extruded profile, seamlessly welded; surface white or black powder coated; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed; highly reflective coating for improved efficiency; satinised or micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); cover removable without tools for easy maintenance; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable with CLO function; noise reducing accessories available: acoustic module and absorber (suitable for installing of HEX-O luminaire, acoustic module or acoustic panel) in expanded polystyrene (EPS); acoustic panel in luminaire effect with perforated cover plate

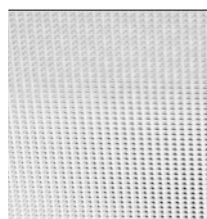
Features



one piece absorber,
available in 2 colours



patented honeycomb
structure



microprismatic
(UGR < 19)

Order options

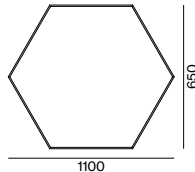
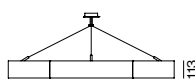
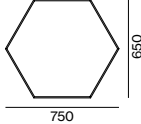
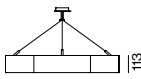
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO	3

MATERIAL COLOUR	
white	7
black	8



LIGHT OPTIC COVER	
opal high performance	O
microprismatic	P



HEX-O 350 SUSPENDED

e/e ² LED	220-240V	UGR <19	1 DALI ADDR.	3,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7W e	3000K	910lm	0 7 2 - 8 2 3 7 :: 1 □ □
	4000K	960lm	
10W e ²	3000K	1200lm	0 7 2 - 8 2 3 6 :: □ □ □ □
	4000K	1300lm	

HEX-O 650 SUSPENDED

e/e ² LED	220-240V	UGR <19	1 DALI ADDR.	11 kg
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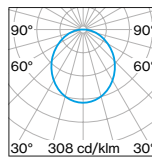
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K	3000lm	0 7 2 - 8 2 6 7 :: 1 □ □
	4000K	3200lm	
38W e ²	3000K	4700lm	0 7 2 - 8 2 6 6 :: □ □ □ □
	4000K	4900lm	

HEX-O 950 SUSPENDED

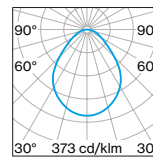
e/e ² LED	220-240V	UGR <19	2 DALI ADDR.	20,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W e	3000K	6000lm	0 7 2 - 8 2 7 7 :: 1 □ □
	4000K	6300lm	
83W e ²	3000K	10200lm	0 7 2 - 8 2 7 6 :: □ □ □ □
	4000K	10700lm	

Light distribution



Opal
direct
LOR 82 %

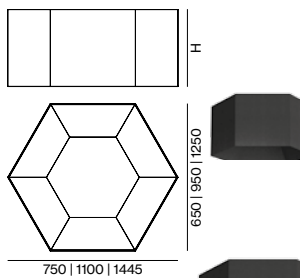
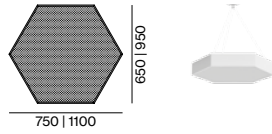
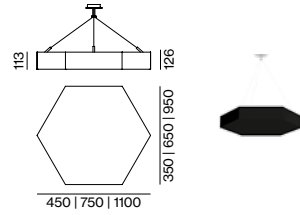
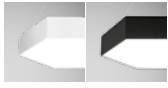


Microprismatic
direct
LOR 75 %

Order options

MATERIAL COLOUR

white	7
black	8



Accessories

ACOUSTIC MODULE SUSPENDED

TYPE	ORDER CODE
ACOUSTIC MODULE 350	0 7 2 - 8 9 1 2 3 1
ACOUSTIC MODULE 650	0 7 2 - 8 9 1 2 6 1
ACOUSTIC MODULE 950	0 7 2 - 8 9 1 2 7 1

ACOUSTIC PLATE SUSPENDED

TYPE	ORDER CODE
ACOUSTIC plate 650	0 7 2 - 8 9 2 2 6 1
ACOUSTIC plate 950	0 7 2 - 8 9 2 2 7 1

ABSORBER 650

H (mm)	ORDER CODE
340	0 7 2 - 8 9 3 1 3 1

single-mounting not possible

ABSORBER 950

H (mm)	ORDER CODE
340	0 7 2 - 8 9 3 1 6 1
540	0 7 2 - 8 9 4 1 6 1

single-mounting not possible

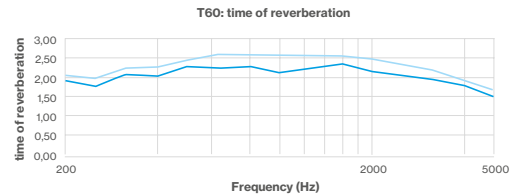
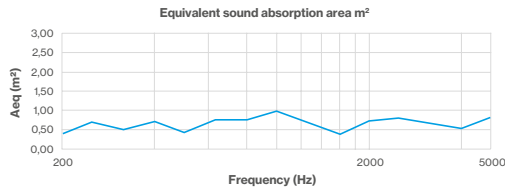
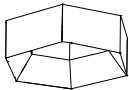
ABSORBER 1250

H (mm)	ORDER CODE
540	0 7 2 - 8 9 4 1 7 1

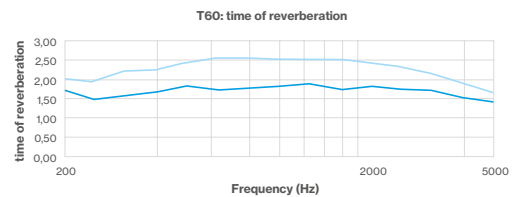
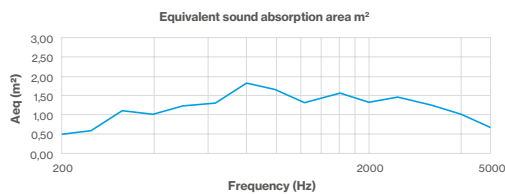
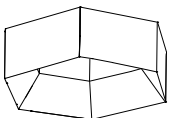
single-mounting not possible

Sound absorption test

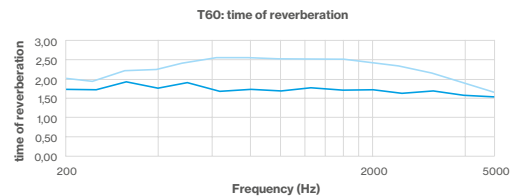
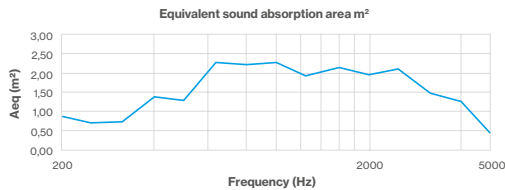
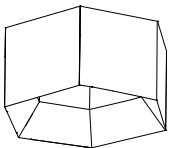
ABSORBER 650 / 340



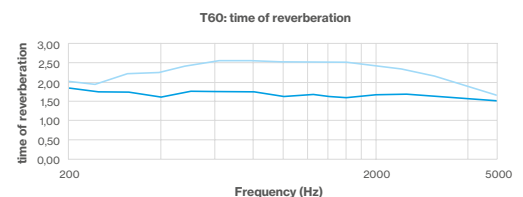
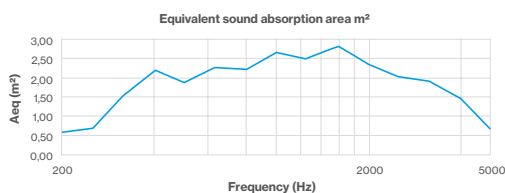
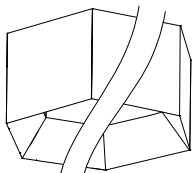
ABSORBER 950 / 340



ABSORBER 950 / 540



ABSORBER 1250 / 540

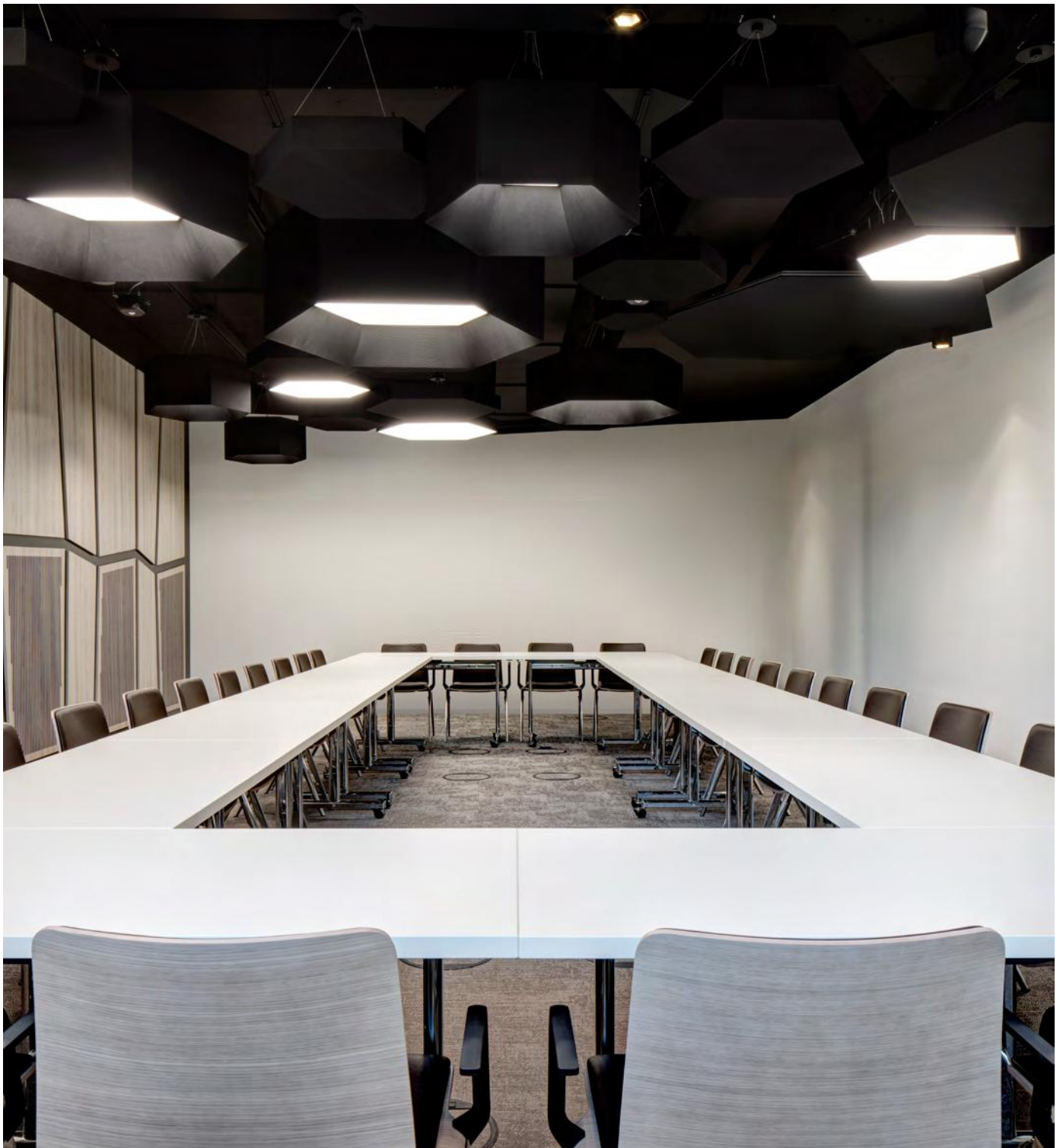


Inspiration

SWR
Stuttgart, Germany

SOLUTION
HEX-O 650, 950 SUSPENDED
HEX-O ACOUSTIC MODULE 950, 1250 SUSPENDED

ARCHITECT
Ghanai + Heinrich Interiorpartners
Stuttgart, Germany



TRIANGLE SURFACE

xal.com/triangle-surface



Quickinfo

GENERAL

surface mounted
IP20

LED

Low-power LED
up to 96 lm/W
3000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Abgerundeter, dreieckiger Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt, flache Bauform; Oberfläche grau oder weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

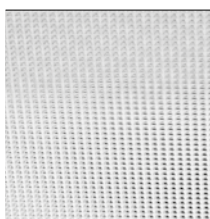
EN Rounded, triangular aluminium luminaire housing, rolled profile, seamlessly welded, flat design; surface coated grey or white; suitable for wall or ceiling mounting; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable

MENO TRIANGLE

[page 168](#)



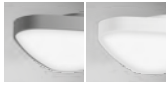
Features



microprismatic
(UGR < 19)

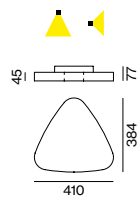
Order options

MATERIAL COLOUR	
grey	6
white	7



LIGHT OPTIC COVER	
opal	O
microprismatic*	P

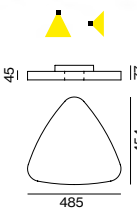
* not for wall



TRIANGLE 400 SURFACE



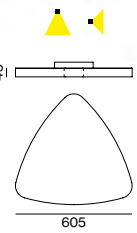
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22W	3000K	2100lm	0 7 2 - 3 1 4 3 5 3 <input checked="" type="checkbox"/> <input type="checkbox"/>



TRIANGLE 500 SURFACE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29W	3000K	2800lm	0 7 2 - 3 1 5 3 5 3 <input checked="" type="checkbox"/> <input type="checkbox"/>

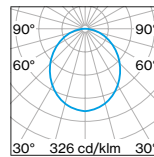


TRIANGLE 600 SURFACE

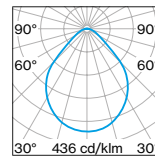


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W	3000K	4500lm	0 7 2 - 3 1 6 3 5 3 <input checked="" type="checkbox"/> <input type="checkbox"/>

Light distribution



Opal
direct
LOR 86 %



Microprismatic
direct
LOR 82 %

TRIANGLE SUSPENDED

xal.com/triangle-suspended



Quickinfo

GENERAL

suspended

IP20

several mounting options

LED

Low-power LED

up to 96lm/W

3000K

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

direct illumination

uniform illumination

PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

DIM DALI

PHYSICAL

aluminium

powder-coated

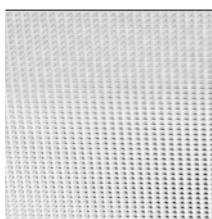
halogen-free cable

Description

DE Abgerundeter, dreieckiger Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt, flache Bauform; Oberfläche grau oder weiß pulverbeschichtet; mit kürzbarer Pendenabhängung (chrom), Einspeiseleitung in Pendenrohr; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 70 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Rounded, triangular aluminium luminaire housing, rolled profile, seamlessly welded, flat design; surface coated grey or white; with adjustable pendant mounting (chrome), feed line in pendant tube; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or micro prismatic PMMA cover; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 70% of the luminous flux after 50,000hours; protection class IP20; PC I; DALI dimmable

Features

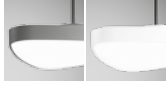


microprismatic
(UGR < 19)

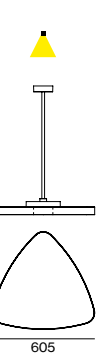
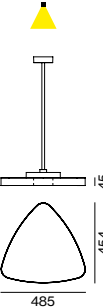
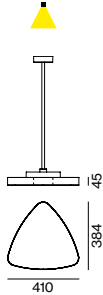
Order options

SUSPENSION	<input type="checkbox"/>
rod 1000 mm (min. 300 mm)	4
rod 2000 mm (min. 300 mm)	6

MATERIAL COLOUR	<input type="checkbox"/>
grey	6
white	7



LIGHT OPTIC COVER	<input type="checkbox"/>
opal	O
microprismatic	P



TRIANGLE 400 SUSPENDED

i LED	220-240V	UGR <19	CB		1 DALI ADDR.	3 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22W	3000K	2100lm	0 7 2 - 3 8 4 3 5 3 <input type="checkbox"/> <input type="checkbox"/>

TRIANGLE 500 SUSPENDED

i LED	220-240V	UGR <19	CB		1 DALI ADDR.	3,5 kg
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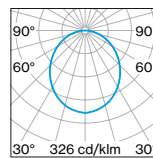
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29W	3000K	2800lm	0 7 2 - 3 8 5 3 5 3 <input type="checkbox"/> <input type="checkbox"/>

TRIANGLE 600 SUSPENDED

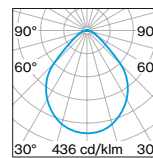
i LED	220-240V	UGR <19	CB		1 DALI ADDR.	5,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W	3000K	4500lm	0 7 2 - 3 8 6 3 5 3 <input type="checkbox"/> <input type="checkbox"/>

Light distribution



Opal
direct
LOR 86 %



Microprismatic
direct
LOR 82 %

HELIOS SUSPENDED

xal.com/helios-suspended



Winner
2012



Quickinfo

GENERAL

suspended
IP20
several mounting options

LED

Mid-power LED
up to 115lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct/indirect illumination
circular de-glaring prism (UGR < 19)

ELECTRICAL

DIM DALI
transparent feeder cable

PHYSICAL

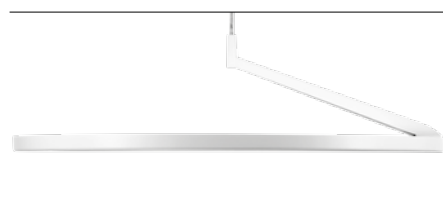
aluminium
powder-coated
halogen-free cable

Description

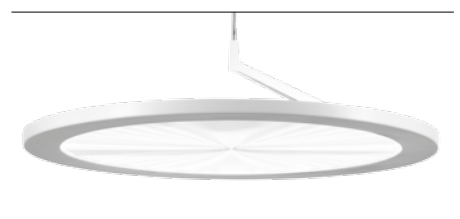
DE Ringförmiger Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung, Seil in transparenter Einspeiseleitung geführt; elektronisches Betriebsgerät im Baldachin verbaut; Schrägpende mit integrierter Kabelführung und Verstellmechanismus für Neigungsausgleich; Kühlkörper in Leuchtengeometrie für optimales Thermomanagement und passive Kühlung der LEDs integriert; direkt/indirekte Lichtverteilung durch LGP- (Light Guiding Prism) Body; seitlich eingekoppeltes Licht durch integrierte Prismen; nach oben und unten gelenkt; optional nur direktstrahlend, Lichtlenkung mittels hochreflektierendem Reflektormaterial; Direktanteil: zirkular-prismatische PMMA Abdeckung, absolut homogene Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Ring shaped luminaire housing in die-cast aluminium; surface white or black powder coated; Suspended luminaire with 2000 mm cable suspension, cable in a transparent feeder; electronic operating unit installed in the canopy; angled pendent with integrated cable management and adjustment mechanism for levelling; Heatsink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; direct/indirect light distribution by LGP- (Light Guiding Prism) body; side coupled light, directed up and down by integrated prisms; directed up and down; optional direct light beam only, light control via highly reflective reflector material; Direct component: circular prismatic PMMA cover, completely homogeneous illumination; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable

Features



flat design (17 mm)

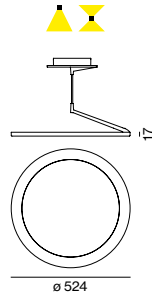


circular glare prisms (UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

MATERIAL COLOUR	
white	7
black	8



HELIOS SUSPENDED

e ² LED	220-240V	UGR < 19	1 DALI ADDR.	4,9 kg
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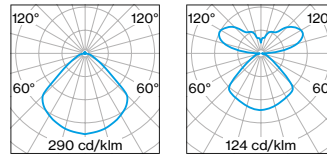
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W	3000K	4800lm	059 - 8222 :: 3
	4000K	5000lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
47W	3000K	5100lm	059 - 8232 :: 3
	4000K	5400lm	

Light distribution

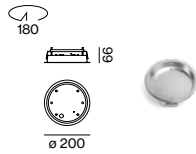


Circular prism. direct LOR 71%	Circular prism. direct / indirect LOR 76%
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Accessories

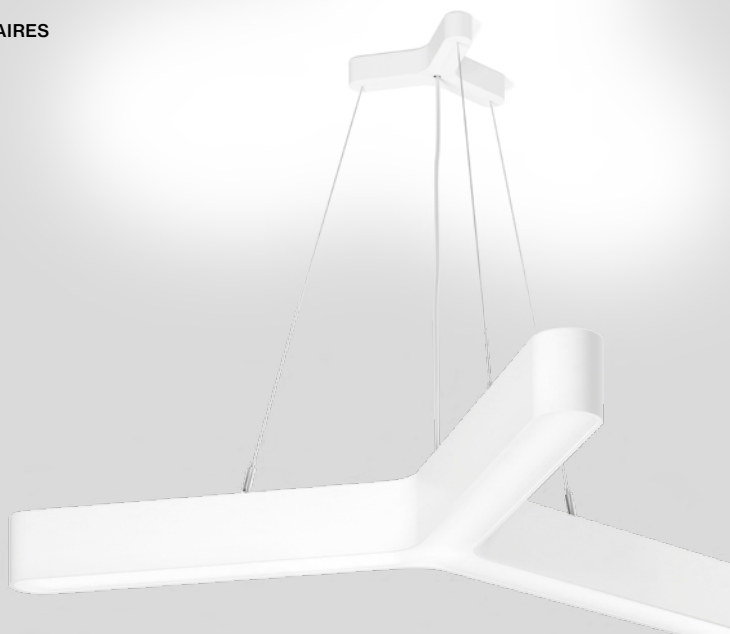
RECESSED HOUSING

TYPE	ORDER CODE
recessed housing	005 - 36000



GEAR 3 SUSPENDED

xal.com/gear-3-suspended



Quickinfo

GENERAL

suspended

IP20

several mounting options

LED

Mid-power LED

up to 103lm/W

3000K, 4000K

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct, direct/indirect illumination

PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

DIM DALI

transparent feeder cable

PHYSICAL

aluminium

powder-coated

halogen-free cable

Description

DE Sternförmiger Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt; Oberfläche grau oder weiß pulverbeschichtet; Pendelleuchte mit 2000 mm Seilabhängung; werkzeuglose Höhenverstellung an Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendenabhängung (chrom), Einspeiseleitung in Pendenrohr; Deckenbalдахin in Leuchtenform; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA Abdeckung; optional mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Star-shaped light housing made of aluminium, rolled profile, seamlessly welded; surface coated grey or white; Suspended luminaire with 2000 mm cable suspension, height adjustment without tools on luminaire; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; ceiling canopy, light shaped; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or microprismatic PMMA cover; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; DALI dimmable

Order options

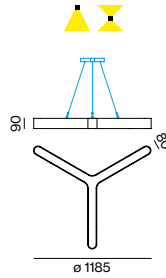
SUSPENSION	
cable 2000 mm	2
rod 1000 mm (min. 300 mm)	4
rod 2000 mm (min. 300 mm)	6

COLOUR TEMPERATURE	
3000 K	5
4000 K	6

MATERIAL COLOUR	
grey	6
white	7



LIGHT OPTIC COVER	
opal	O
microprismatic	P



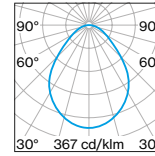
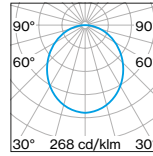
GEAR 3 SUSPENDED



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
41W	3000 K	4100lm	0 5 8 - 0 5 2 5 3 3
	4000 K	4200lm	

Light distribution



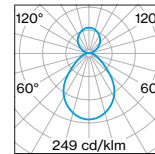
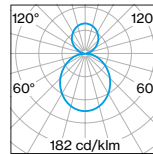
Opal
direct
LOR 72 %

Microprismatic
direct
LOR 72 %

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
61W	3000 K	6400lm	0 5 8 - 0 3 5 3 3 3
	4000 K	6300lm	

Light distribution



Opal
direct / indirect
LOR 74 %

Microprismatic
direct / indirect
LOR 74 %

Inspiration

Nursery and Primary School
Köstendorf, Austria

ARCHITECT

hobby a / schuster & maul
Architekten
Salzburg, Austria

SOLUTION

GEAR 3 SUSPENDED
MINIMAL 60





05



MODULARE PROFILLEUCHTENSYSTEME MODULAR PROFILE LIGHTING SYSTEMS



**MOVE IT 25
SYSTEM**

→ 342



**MOVE IT 25 UP
SYSTEM**

→ 343



**MOVE IT 45
SYSTEM**

→ 354



**MOVE IT 45 UP
SYSTEM**

→ 355



MINIMAL 40

→ 366



FRAME 55

→ 367



MINO 40

→ 370



MINIMAL 60

→ 382



CANYON 60

→ 383



FRAME 80

→ 390



**CANYON
FRAME 80**

→ 391



EDGE 60

→ 394



MINO/STILO 60

→ 400 / 401



MINIMAL 100

→ 418



CANYON 100

→ 419



FRAME 120

→ 424



**CANYON
FRAME 120**

→ 425



MINO 100

→ 428



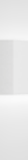
**TUBO 100/150
SYSTEM**

→ 442



**CORNER 65
SYSTEM**

→ 448



**LINEA
SYSTEM**

→ 454



**JANE
RECESSED**

→ 466



**JANE
WALL**

→ 467



**JANE
CEILING**

→ 468



**MINO X
SYSTEM**

→ 476

MOVE IT 25 SYSTEM

CHANNEL

MOVE IT 25 UP

MOVE IT 25



INSETS

JUST 26

JUST 32

JUST 45

BO 55

SPOT

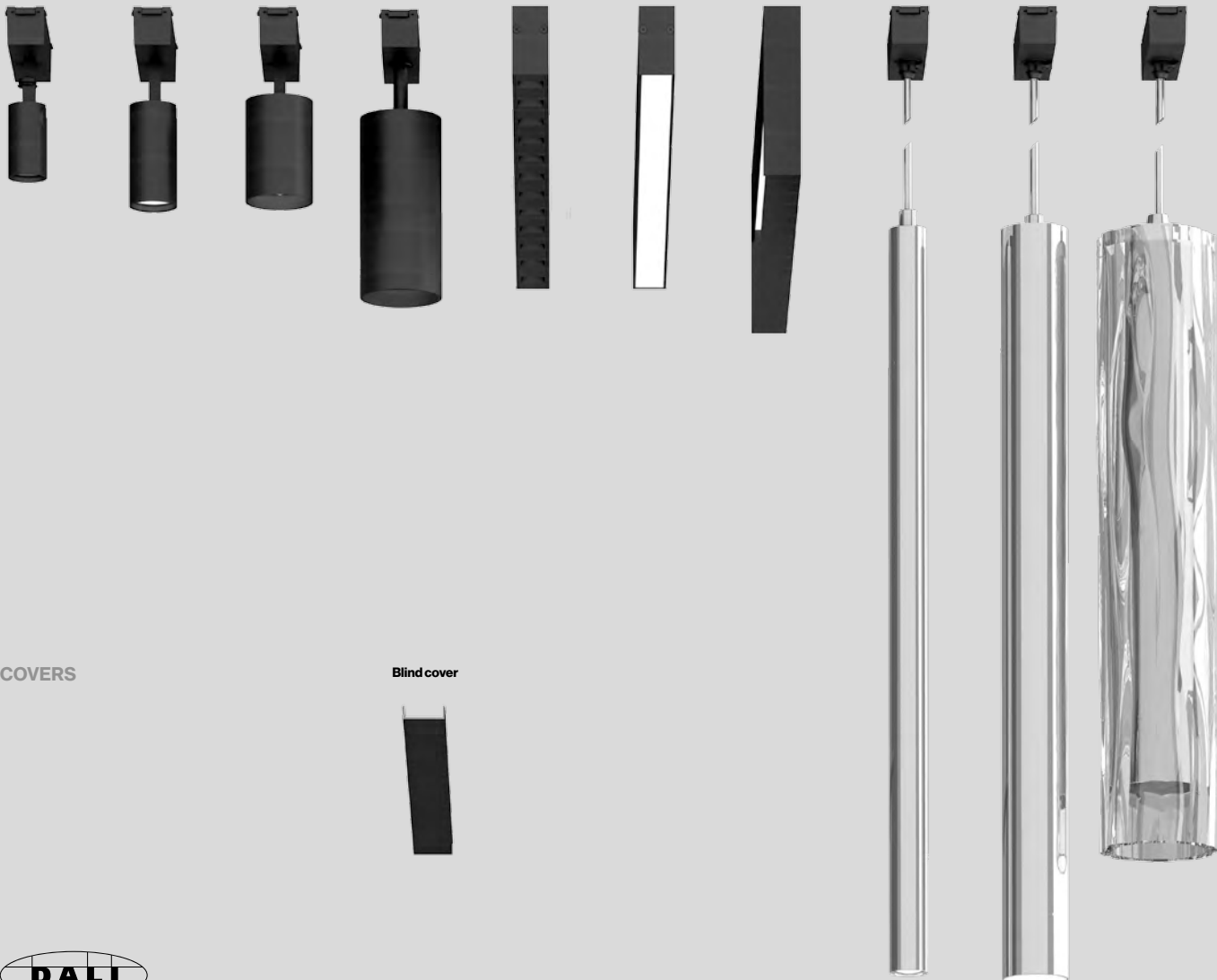
OPAL

WALLWASHER

TULA NANO

TULA MICRO

CORD



COVERS

Blind cover

Overview

MOVE IT 25

MOVE IT 25 UP

INSET

JUST 26	.	.
JUST 26 DUO	.	.
JUST 26 FOCUS	.	.
JUST 26 FOCUS DUO	.	.
JUST 32	.	.
JUST 45	.	.
JUST BO 55	.	.
SPOT	.	.
OPAL	.	.
WALLWASHER	.	.
TULA NANO/MICRO	.	.
CORD	.	.

MAXIMAL CHANNEL SYSTEM LENGTH

	Distance LED converter to feeder unit			
	5 m	10 m	20 m	30 m
60 W	50 m	50 m	50 m	50 m
100 W	50 m	50 m	50 m	30 m
150 W	50 m	50 m	20 m	
185 W	50 m	30 m	10 m	
240 W	30 m	20 m		
320 W	20 m	10 m		

Use a transformer with 25% overcapacity compared to the total system power installed.

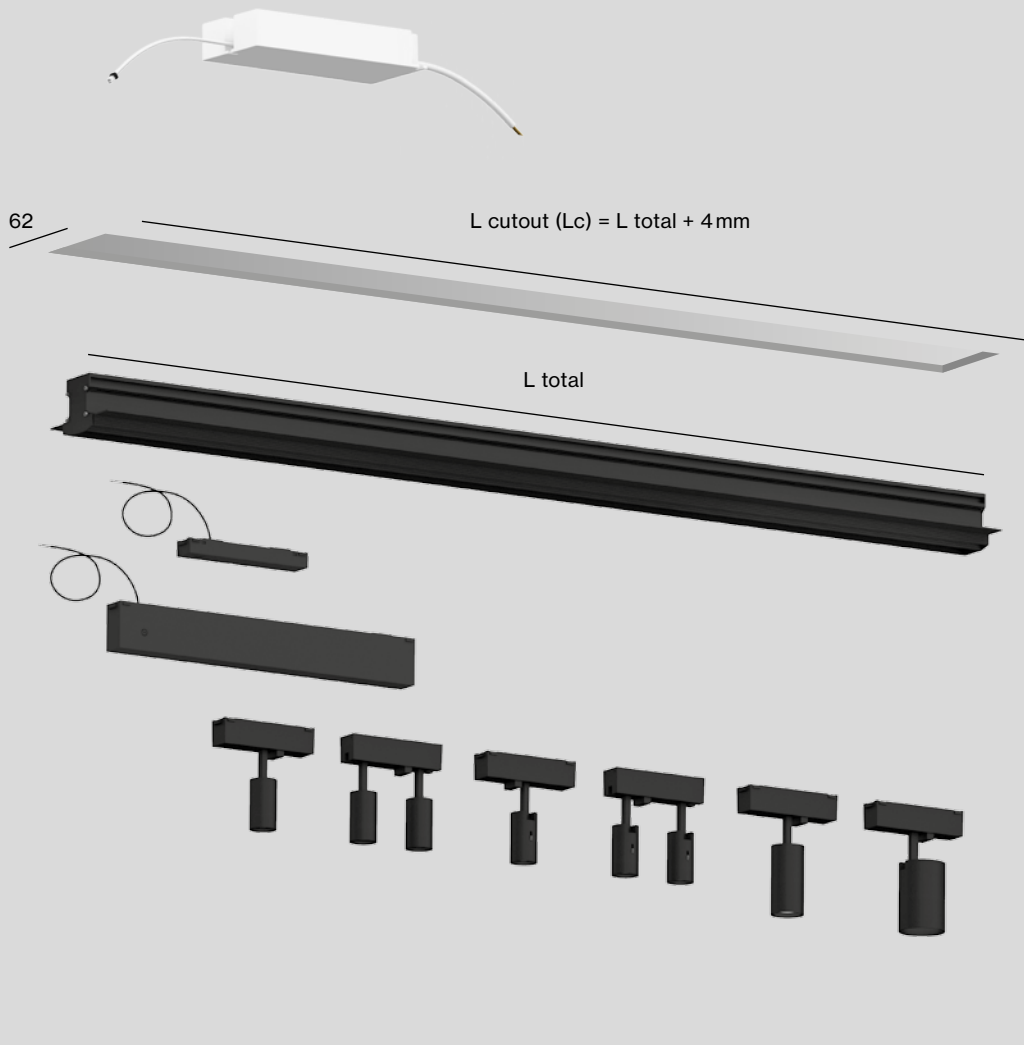
Description

DE Aluminiumstrangpressprofil mit 31mm Breite; optional für Einbau- oder Aufbau- montage; ausgelegt für durchgehende Lichtsysteme; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Rand- ausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 12,5 mm; Oberfläche schwarz eloxiert; Verwendung verschiedener Einsätze möglich, wahlweise mit gerichteter, diffuser oder asymmetrischer Abstrahlcharakteristik; flexi- ble und werkzeuglose Montage der Einsätze durch Magnethalterung; mit intergriertem Stromschienenprofil für Abnahme von Versor- gungsspannung und DALI Signal; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP 20; SK III; alle Einsätze DALI dimmbar

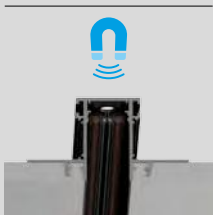
EN Extruded aluminium profile with 31mm width; optionally for recessed or surface mounted installation; designed for continuous lighting systems; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 12,5 mm; surface anodised black; optional use of different inserts, with choice of directional, diffuse or asymmetric radiation characteristic; flexible and tool-free insert mounting by magnetic holder; with integrated power track profile for take off of supply voltage and DALI signal; bin- ning <3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP 20; PC III; all insets DALI dimmable

MOVE IT 25 SYSTEM

MOVE IT 25 UP SYSTEM



Features



magnet system



skimmed into
plasterboard ceiling



adjustable beam
angle 17°–43°

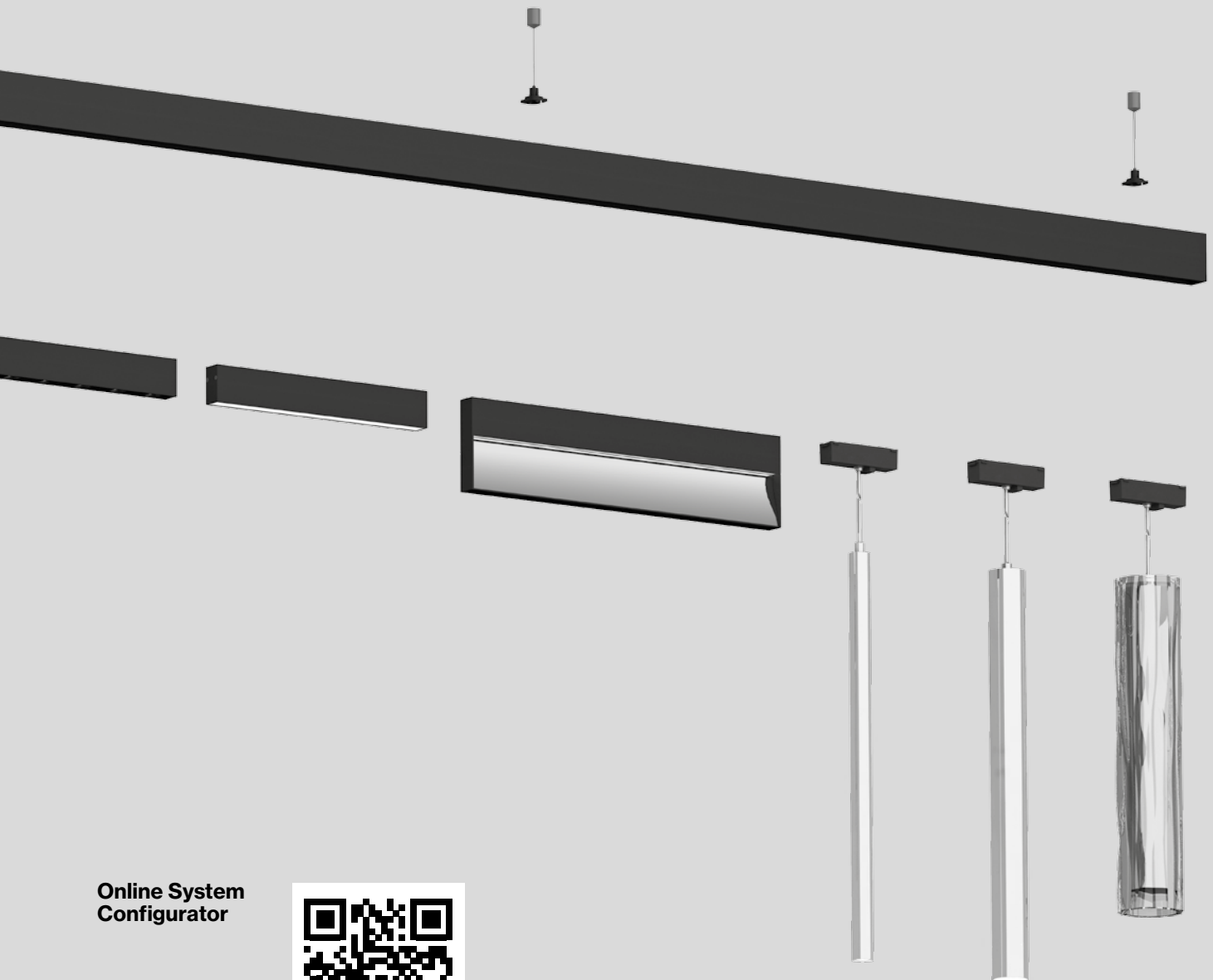
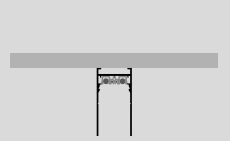


optical accessories
(max. 1 pc.) on request

MOVE IT 25

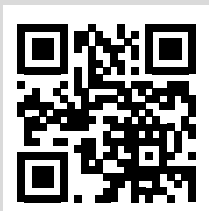


MOVE IT 25 UP



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



MOVE IT 25 SYSTEM

MATERIAL COLOUR

black only

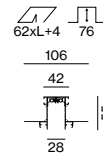
Description

DE Aluminiumstrangpressprofil mit 28 mm Fugenbreite, geeignet für den randlosen Einbau in Gipskartondecken, ausgelegt für durchgehende Lichtsysteme, Oberfläche schwarz eloxiert, flexible und werkzeuglose Montage der Einsätze durch Magnethalterung

EN Extruded aluminium profile with 28 mm width groove, suitable for trimless installation in plasterboard ceilings, designed for continuous lighting systems, surface anodised black, flexible and tool-free insert mounting by magnetic holder

INSTALLATION TRACK 48V | DALI

L (mm)	ORDER CODE
1000	051 - 1923008
2000	051 - 1925008
3000	051 - 1927008
custom cut	E 82751 8



END CAPS (pair)

TYPE	ORDER CODE
end caps	051 - 1940008



BLIND COVER

L (mm)	ORDER CODE
1000	051 - 0913008
2000	051 - 0915008
3000	051 - 0917008



LINEAR CONNECTOR (pair)

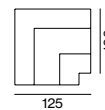
TYPE	ORDER CODE
linear connector	051 - 1950000

10 pieces per pack on request



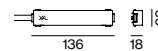
CORNER CONNECTOR

TYPE	ORDER CODE
corner connector 90°	051 - 1930008
corner connector ceiling to wall	051 - 1931008



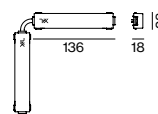
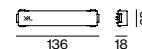
FEEDER UNIT 48V | DALI

TYPE	L (mm)	ORDER CODE
2x2,5mm ² / 2x0,5mm ²	2000	051 - 0972200



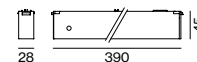
TRACK CONNECTOR 48V | DALI

TYPE	ORDER CODE
linear	051 - 0970100
corner	051 - 0970200



LED CONVERTER INTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60W	390-45-28	002 - 62136



LED CONVERTER EXTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60W	163-43-32	002 - 62133
100W	223-60-39	002 - 60105
150W	222-68-39	002 - 60156
185W	228-68-39	002 - 60187
240W	244-68-39	002 - 60243
320W	252-90-44	002 - 60320



MOVE IT 25 UP SYSTEM

MATERIAL COLOUR

black only

Description

DE Aluminiumstrangpressprofil mit 31mm Breite, geeignet für eine aufgebaute oder abgehängte Montage, ausgelegt für durchgehende Lichtsysteme, Oberfläche schwarz eloxiert, flexible und werkzeuglose Montage der Einsätze durch Magnethalterung

EN Extruded aluminium profile with 31mm width, suitable for surface or suspended mounting, designed for continuous lighting systems, surface anodised black, flexible and tool-free insert mounting by magnetic holder

INSTALLATION TRACK 48V | DALI

L (mm)	ORDER CODE
1000	051-0923008
2000	051-0925008
3000	051-0927008
custom cut	E82770.....8



END CAPS (pair)

TYPE	ORDER CODE
end caps	051-0940008



BLIND COVER

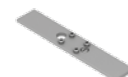
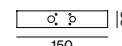
L (mm)	ORDER CODE
1000	051-0913008
2000	051-0915008
3000	051-0917008



LINEAR CONNECTOR

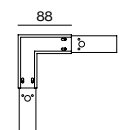
TYPE	ORDER CODE
linear connector	051-0950000

10 pieces per pack on request



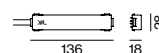
CORNER CONNECTOR

TYPE	ORDER CODE
corner connector 90°	051-0930008



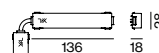
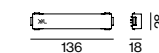
FEEDER UNIT 48V | DALI

TYPE	L (mm)	ORDER CODE
2x2,5mm ² / 2x0,5mm ²	2000	051-0972200



TRACK CONNECTOR 48V | DALI

TYPE	ORDER CODE
linear	051-0970100
corner	051-0970200



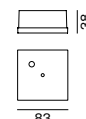
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	051-0982000
ceiling clip	10	051-0980000



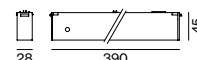
POWER FEEDER (suspension only)

TYPE	ORDER CODE
power feeder	051-0970008



LED CONVERTER INTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60 W	390-45-28	002-62136



LED CONVERTER EXTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60 W	163-43-32	002-62133
100 W	223-60-39	002-60105
150 W	222-68-39	002-60156
185 W	228-68-39	002-60187
240 W	244-68-39	002-60243
320 W	252-90-44	002-60320



INSET MOVE IT 25 SYSTEM

Order options

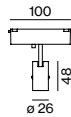
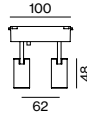
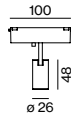
COLOUR TEMPERATURE	☼☼
2700K	4
3000K	5

LED LENS JUST 26	▲
spot 14°	S
flood 30°	F

Description

DE Inset werkzeuglos mittels Magnethalter einsetzbar, DALI Steuerplatine integriert, Strahlerkopf in verschiedenen Durchmessern aus Aluminium, 360° dreh- und 90° schwenkbar, passiv gekühlt, inklusive hochwertiger Linsenoptik mit verschiedenen Ausstrahlwinkeln

EN Installation of inset without tools through magnetic holder, DALI control board integrated, spotlight head in various diameters made of aluminium, rotatable 360° and tiltable 90°, passive cooling, incl. high quality lens system with various beam angles



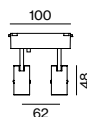
Features



adjustable beam angle
17°–43° (FOCUS)



optical accessories
(max. 1 pc.) on request



INSET JUST 26

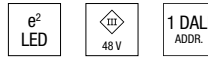


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 W	2700K	130 lm	0 5 1 - 1 5 1 1 ☼☼ 3 8 ▲
	3000K	150 lm	

Light distribution

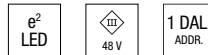
spot 14°			LOR 84%			flood 30°			LOR 81%		
h (m)	E (lx)	ø m)	h (m)	E (lx)	ø m)	h (m)	E (lx)	ø m)	h (m)	E (lx)	ø m)
1	1521	ø 0,24	1	341	ø 0,54	1	85	ø 1,08	1	21	ø 2,16
2	380	ø 0,48	2	85	ø 1,08	2	21	ø 2,16	2	5,25	ø 5,25
3	169	ø 0,73	3	38	ø 1,62	3	10,5	ø 3,15	3	2,6	ø 2,6
4	95	ø 0,97	4	21	ø 2,16	4	5,25	ø 5,25	4	1,3	ø 1,3
5	61	ø 1,21	5	14	ø 2,70	5	3,5	ø 3,5	5	0,8	ø 0,8

INSET JUST 26 DUO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	270 lm	0 5 1 - 1 5 1 2 ☼☼ 3 8 ▲
	3000K	290 lm	

INSET JUST 26 FOCUS 17–43°

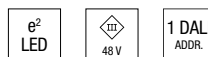


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 W	2700K	100 lm	0 5 1 - 1 5 1 3 ☼☼ 3 8
	3000K	110 lm	

Light distribution

min. angle 17°			LOR 45%			max. angle 43°			LOR 62%		
h (m)	E (lx)	ø m)	h (m)	E (lx)	ø m)	h (m)	E (lx)	ø m)	h (m)	E (lx)	ø m)
1	607	ø 0,30	1	194	ø 0,80	1	48	ø 1,59	1	12	ø 3,18
2	152	ø 0,59	2	48	ø 1,59	2	12	ø 3,18	2	3,0	ø 3,0
3	67	ø 0,89	3	22	ø 2,39	3	5,25	ø 5,25	3	1,7	ø 1,7
4	38	ø 1,18	4	12	ø 3,18	4	3,0	ø 3,0	4	1,0	ø 1,0
5	24	ø 1,48	5	8	ø 3,98	5	1,7	ø 1,7	5	0,6	ø 0,6

INSET JUST 26 FOCUS 17–43° DUO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	200 lm	0 5 1 - 1 5 1 4 ☼☼ 3 8
	3000K	220 lm	

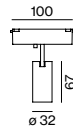
Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

LED LENS JUST 32	
spot 19°	S
medium 27°	M
flood 42°	F

LED LENS JUST 45	
super spot 6°	V
medium 27°	M

LED LENS BO 55 BASIC	
medium 23°	M
flood 33°	F



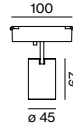
INSET JUST 32



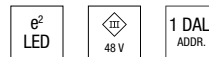
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	530 lm	0 5 1 - 1 5 2 1 :: 3 8 ▲
	3000 K	530 lm	

Light distribution

spot 19°			medium 27°			flood 42°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2809	ø 0,34	1	1476	ø 0,48	1	901	ø 0,77
2	702	ø 0,68	2	369	ø 0,97	2	225	ø 1,54
3	312	ø 1,03	3	164	ø 1,45	3	100	ø 2,32
4	176	ø 1,37	4	92	ø 1,94	4	56	ø 3,09
5	112	ø 1,71	5	59	ø 2,42	5	36	ø 3,86



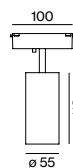
INSET JUST 45



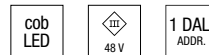
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	530 lm	0 5 1 - 1 5 3 1 :: 3 8 V
	3000 K	530 lm	
10 W	2700 K	910 lm	0 5 1 - 1 5 3 2 :: 3 8 M
	3000 K	910 lm	

Light distribution

super spot 6°			medium 27°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	25082	ø 0,10	1	2772	ø 0,48
2	6271	ø 0,21	2	693	ø 0,97
3	2787	ø 0,31	3	308	ø 1,45
4	1568	ø 0,42	4	173	ø 1,94
5	1003	ø 0,52	5	111	ø 2,42



INSET BO 55 BASIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700 K	680 lm	0 5 1 - 1 5 9 1 :: 3 8 V
	3000 K	680 lm	
14 W	2700 K	1100 lm	0 5 1 - 1 5 9 2 :: 3 8 ▲
	3000 K	1100 lm	

Light distribution

super spot 6°			medium 23°			flood 33°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32124	ø 0,10	1	4617	ø 0,40	1	2863	ø 0,60
2	8031	ø 0,21	2	1154	ø 0,80	2	716	ø 1,19
3	3569	ø 0,31	3	513	ø 1,20	3	318	ø 1,79
4	2008	ø 0,42	4	289	ø 1,60	4	179	ø 2,39
5	1285	ø 0,52	5	185	ø 2,00	5	115	ø 2,98

INSET MOVE IT 25 SYSTEM

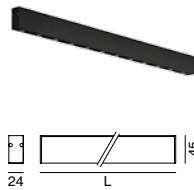
Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5

Description

DE Inset werkzeuglos mittels Magnethalter einsetzbar, DALI Steuerplatine integriert, Varianten mit starren Einzellichtpunkten oder opaler Abdeckung für diffuse Beleuchtung, Wallwasher mit speziell berechnetem Reflektor für homogene Wandaufhellung

EN Installation of inset without tools through magnetic holder, DALI control board integrated, variants with fixed single light points or opal cover for diffuse illumination, wallwasher with specially computed reflector for uniform wall illumination

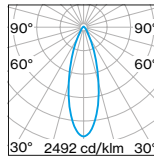


INSET SPOT

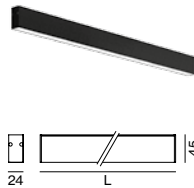


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
6 x 1,2 W	2700 K	440 lm	305	0 5 1 - 1 5 5 1 :: 3 8 M
	3000 K	480 lm		
12 x 1,2 W	2700 K	880 lm	605	0 5 1 - 1 5 5 2 :: 3 8 M
	3000 K	960 lm		

Light distribution



Medium 31°
direct
LOR 88 %

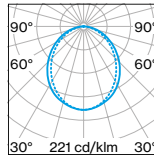


INSET OPAL

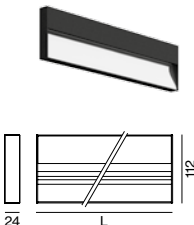


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	2700 K	1000 lm	605	0 5 1 - 1 5 7 2 :: 3 8 O
	3000 K	1000 lm		
28 W	2700 K	2000 lm	1205	0 5 1 - 1 5 7 4 :: 3 8 O
	3000 K	2100 lm		

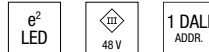
Light distribution



Opal
direct
LOR 54 %

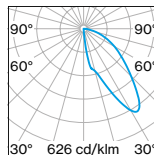


INSET WALLWASHER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	2700 K	1100 lm	450	0 5 1 - 1 5 8 1 :: 3 8 A
	3000 K	1100 lm		

Light distribution



Asymmetric
direct
LOR 61 %

Order options

MATERIAL COLOUR TULA NANO	
chrome	4
grey	6
black	8



MATERIAL COLOUR TULA MICRO	
chrome	4
grey	6
black	8



MATERIAL COLOUR CORD	
clear-silver	0
chrome	6
white	7
black	8



Description

DE Inset werkzeuglos mittels Magnethalter einsetzbar, DALI Steuerplatine integriert, dekorative Pendelleuchten in hochwertiger Optik, optional auch mit mundgeblasenem Glaszylinder mit gewellter Oberfläche

EN Installation of inset without tools through magnetic holder, DALI control board integrated, decorative suspended luminaires in high end design, optionally with blown glass cylinder with wavy surface



INSET TULA NANO



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	330 lm	500	0 5 3 - 5 2 8 1 4 3 <input checked="" type="checkbox"/> M

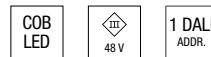
Light distribution

medium 28° LOR 75%

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49



INSET TULA MICRO



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	280 lm	300	0 5 3 - 5 3 8 1 4 3 <input checked="" type="checkbox"/> M
5 W	2700 K	280 lm	500	0 5 3 - 5 5 8 1 4 3 <input checked="" type="checkbox"/> M

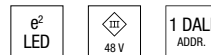
Light distribution

medium 33° LOR 59%

h (m)	E (lx)	ø (m)
1	768	ø 0,59
2	192	ø 1,18
3	85	ø 1,78
4	48	ø 2,37
5	31	ø 2,96



INSET CORD



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	330 lm	400	0 5 3 - 5 4 8 1 4 3 <input checked="" type="checkbox"/> M

Light distribution

medium 28° LOR 75%

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49

Inspiration

Kallos Gallery
London, United Kingdom

LIGHTING DESIGN

CB Lighting

SOLUTION

MOVE IT 25 SYSTEM
BO 55



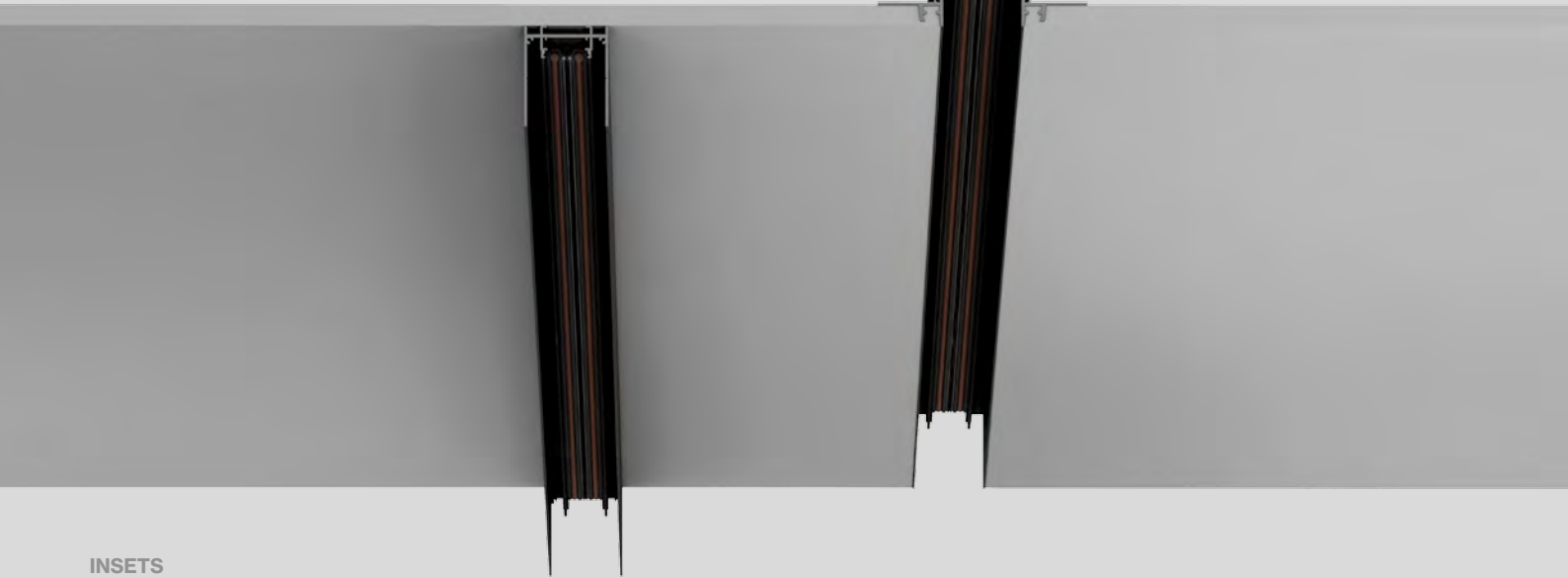


MOVE IT 45 SYSTEM

CHANNEL

MOVE IT 45 UP

MOVE IT 45



INSETS

JUST 26

JUST 32

JUST 45

BO 55

SPOT SQUARE

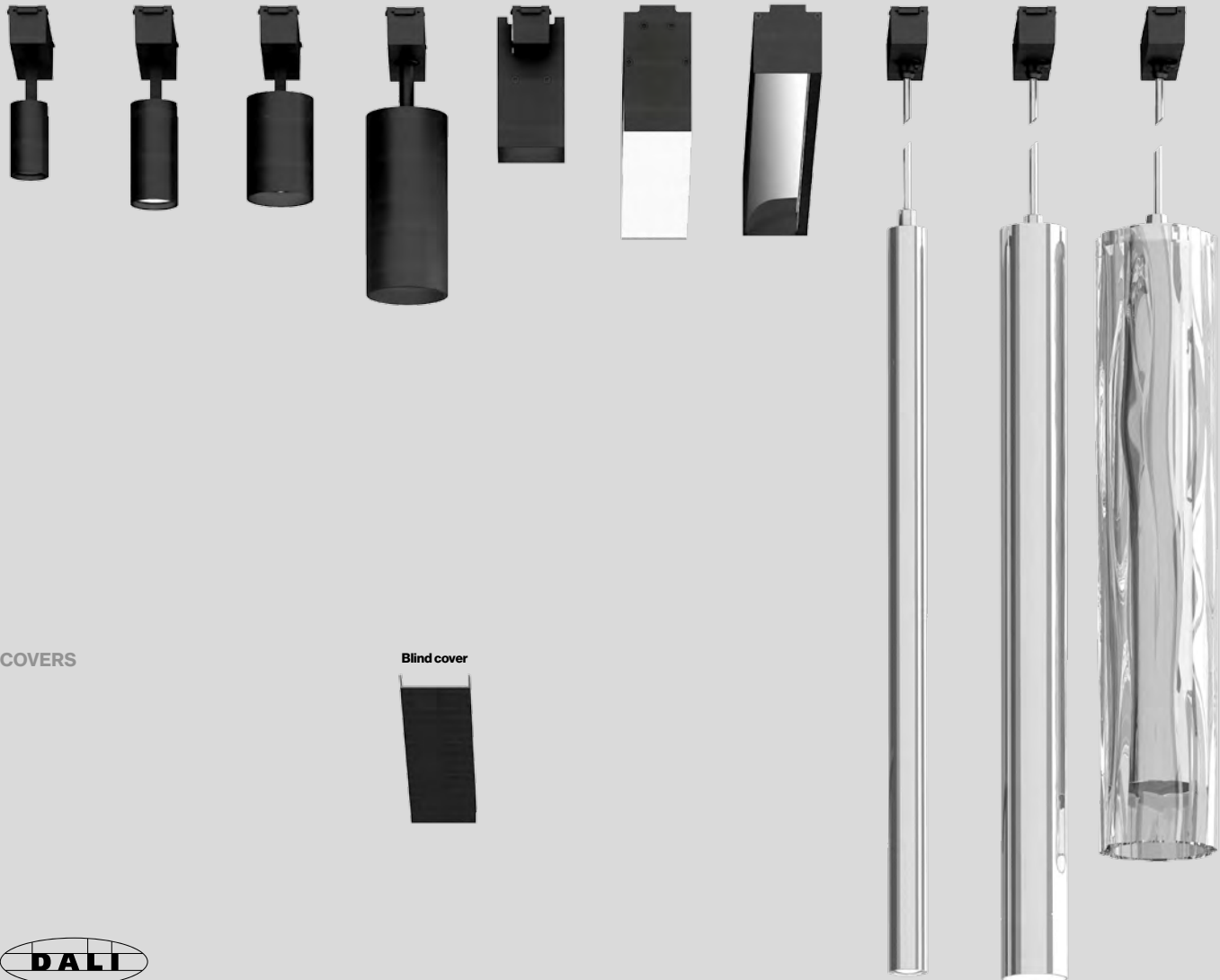
OPAL JUT-OUT

WALLWASHER

TULA NANO

TULA MICRO

CORD



COVERS

Blind cover

Overview

MOVEIT 45 MOVEIT 45 UP

INSET

JUST 26	.	.
JUST 26 DUO	.	.
JUST 26 FOCUS	.	.
JUST 26 FOCUS DUO	.	.
JUST 32	.	.
JUST 45	.	.
JUST BO 55	.	.
SPOT SQUARE	.	.
SPOT SQUARE WALLWASHER	.	.
OPAL JUT-OUT	.	.
WALLWASHER	.	.
TULA NANO/MICRO	.	.
CORD	.	.

MAXIMAL CHANNEL SYSTEM LENGTH

	Distance LED converter to feeder unit			
	5m	10m	20m	30m
60W	50m	50m	50m	50m
100W	50m	50m	50m	30m
150W	50m	50m	20m	
185W	50m	30m	10m	
240W	30m	20m		
320W	20m	10m		

Use a transformer with 25% overcapacity compared to the total system power installed.

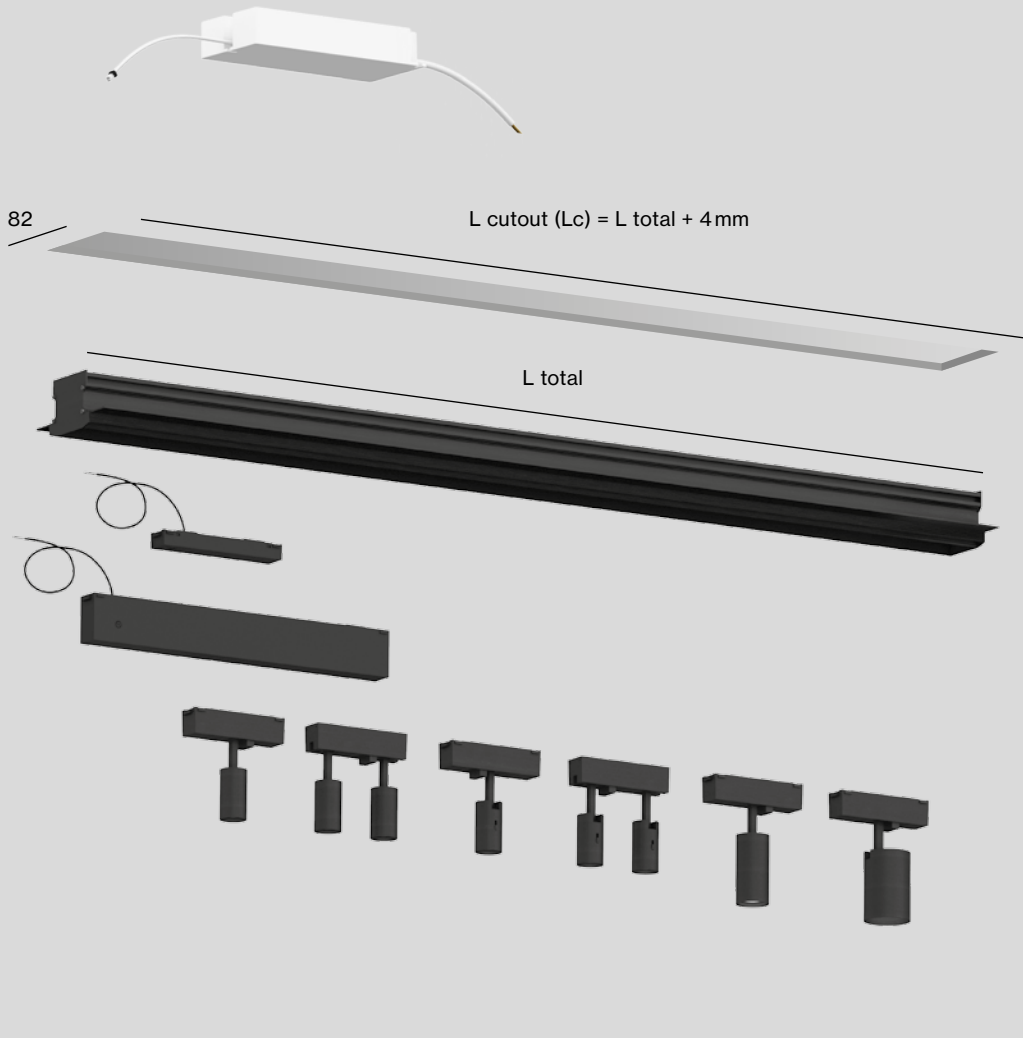
Description

DE Aluminiumstrangpressprofil mit 50 mm Breite; optional für Einbau- oder Aufbau- montage; ausgelegt für durchgehende Lichtsysteme; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 12,5 mm; Oberfläche schwarz eloxiert; Verwendung verschiedener Einsätze möglich, wahlweise mit gerichteter, diffuser oder asymmetrischer Abstrahlcharakteristik; flexible und werkzeuglose Montage der Einsätze durch Magnethalterung; mit intergriertem Stromschienenprofil für Abnahme von Versorgungsspannung und DALI Signal; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700K und 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP 20; SK III; alle Einsätze DALI dimmbar

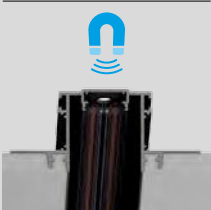
EN Extruded aluminium profile with 50 mm width; optionally for recessed or surface mounted installation; designed for continuous lighting systems; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 12,5 mm; surface anodised black; optional use of different inserts, with choice of directional, diffuse or asymmetric radiation characteristic; flexible and tool-free insert mounting by magnetic holder; with integrated power track profile for take off of supply voltage and DALI signal; binning <3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC III; all insets DALI dimmable

MOVE IT 45 SYSTEM

MOVE IT 45 UP SYSTEM



Features



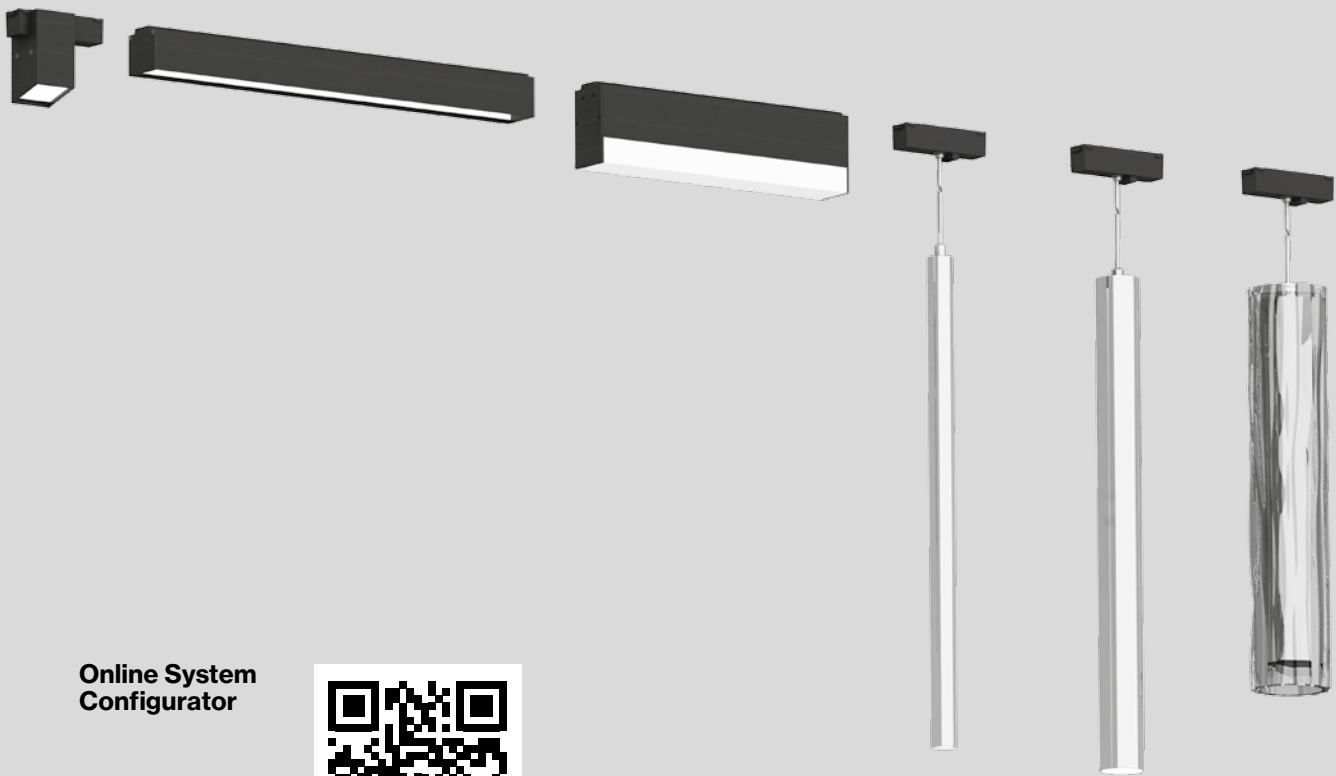
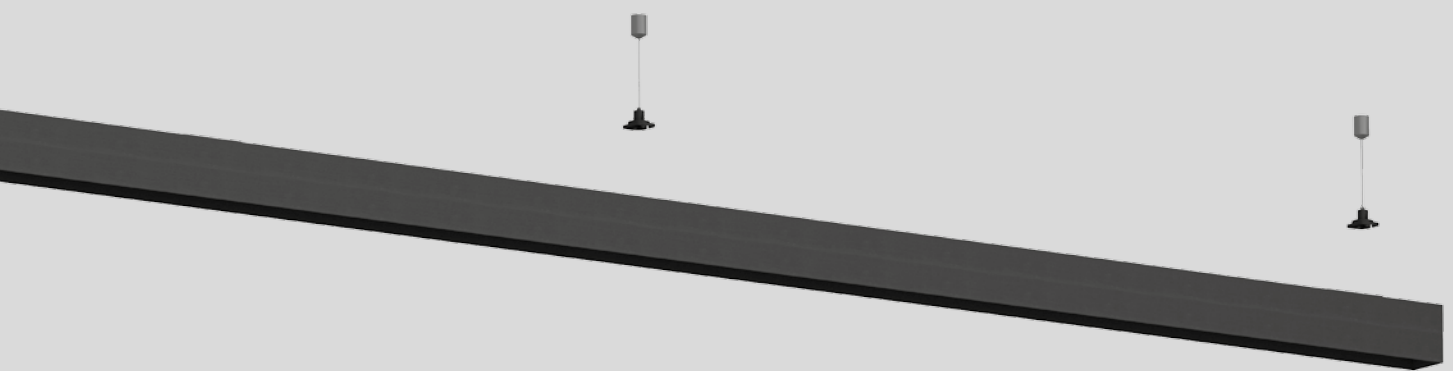
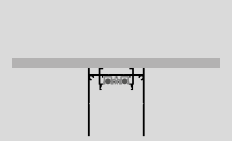
magnet system

skimmed into
plasterboard ceilingadjustable beam
angle 17°–43°optical accessories
(max. 1 pc.) on request

MOVE IT 45

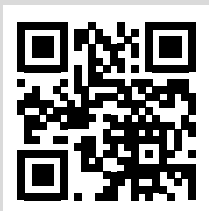


MOVE IT 45 UP



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



MOVE IT 45 SYSTEM

MATERIAL COLOUR

black only

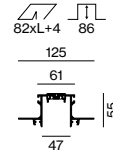
Description

DE Aluminiumstrangpressprofil mit 47 mm Fugenbreite, geeignet für den randlosen Einbau in Gipskartondecken, ausgelegt für durchgehende Lichtsysteme, Oberfläche schwarz eloxiert, flexible und werkzeuglose Montage der Einsätze durch Magnethalterung

EN Extruded aluminium profile with 47 mm width groove, suitable for trimless installation in plasterboard ceilings, designed for continuous lighting systems, surface anodised black, flexible and tool-free insert mounting by magnetic holder

INSTALLATION TRACK 48V | DALI

L (mm)	ORDER CODE
1000	051 - 2923008
2000	051 - 2925008
3000	051 - 2927008
custom cut	E 82761 8



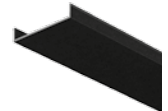
END CAPS (pair)

TYPE	ORDER CODE
end caps	051 - 2940008



BLIND COVER

L (mm)	ORDER CODE
1000	051 - 2913008
2000	051 - 2915008
3000	051 - 2917008



LINEAR CONNECTOR (pair)

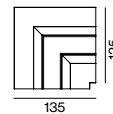
TYPE	ORDER CODE
linear connector	051 - 1950000

10 pieces per pack on request



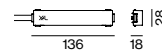
CORNER CONNECTOR

TYPE	ORDER CODE
corner connector 90°	051 - 2930008
corner connector ceiling to wall	051 - 2931008



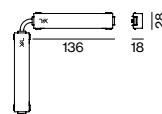
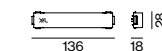
FEEDER UNIT 48V | DALI

TYPE	L (mm)	ORDER CODE
2x2,5mm ² 2x0,5mm ²	2000	051 - 0972200



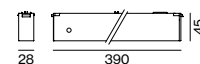
TRACK CONNECTOR 48V | DALI

TYPE	ORDER CODE
linear	051 - 0970100
corner	051 - 0970200



LED CONVERTER INTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60W	390-45-28	002 - 62136



LED CONVERTER EXTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60W	163-43-32	002 - 62133
100W	223-60-39	002 - 60105
150W	222-68-39	002 - 60156
185W	228-68-39	002 - 60187
240W	244-68-39	002 - 60243
320W	252-90-44	002 - 60320



MOVE IT 45 UP SYSTEM

MATERIAL COLOUR

black only

Description

DE Aluminiumstrangpressprofil mit 50 mm Breite, geeignet für eine aufgebaute oder abgehängte Montage, ausgelegt für durchgehende Lichtsysteme, Oberfläche schwarz eloxiert, flexible und werkzeuglose Montage der Einsätze durch Magnethalterung

EN Extruded aluminium profile with 50 mm width, suitable for surface or suspended mounting, designed for continuous lighting systems, surface anodised black, flexible and tool-free insert mounting by magnetic holder

INSTALLATION TRACK 48V | DALI

L (mm)	ORDER CODE
1000	051-3923008
2000	051-3925008
3000	051-3927008
custom cut	E82780 8



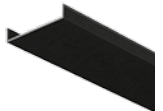
END CAPS (pair)

TYPE	ORDER CODE
end caps	051-3940008



BLIND COVER

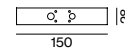
L (mm)	ORDER CODE
1000	051-2913008
2000	051-2915008
3000	051-2917008



LINEAR CONNECTOR

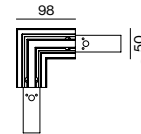
TYPE	ORDER CODE
linear connector	051-0950000

10 pieces per pack on request



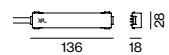
CORNER CONNECTOR

TYPE	ORDER CODE
corner connector 90°	051-3930008



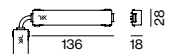
FEEDER UNIT 48V | DALI

TYPE	L (mm)	ORDER CODE
2x2,5mm ² 2x0,5mm ²	2000	051-0972200



TRACK CONNECTOR 48V | DALI

TYPE	ORDER CODE
linear	051-0970100
corner	051-0970200



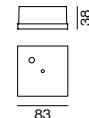
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	051-0982000
ceiling clip	10	051-0980000



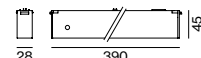
POWER FEEDER (suspension only)

TYPE	ORDER CODE
power feeder	051-0970008



LED CONVERTER INTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60 W	390-45-28	002-62136



LED CONVERTER EXTERN 48V

TYPE	L-W-H (mm)	ORDER CODE
60 W	163-43-32	002-62133
100 W	223-60-39	002-60105
150 W	222-68-39	002-60156
185 W	228-68-39	002-60187
240 W	244-68-39	002-60243
320 W	252-90-44	002-60320



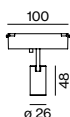
INSET MOVE IT 45 SYSTEM

Order options

COLOUR TEMPERATURE	☼☼
2700K	4
3000K	5

LED LENS JUST 26

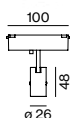
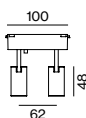
spot 14°	S
flood 30°	F



Description

DE Inset werkzeuglos mittels Magnethalter einsetzbar, DALI Steuerplatine integriert, Strahlerkopf in verschiedenen Durchmessern aus Aluminium, 360° dreh- und 90° schwenkbar, passiv gekühlt, inklusive hochwertiger Linsenoptik mit verschiedenen Ausstrahlwinkeln

EN Installation of inset without tools through magnetic holder, DALI control board integrated, spotlight head in various diameters made of aluminium, rotatable 360° and tiltable 90°, passive cooling, incl. high quality lens system with various beam angles



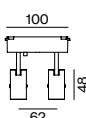
Features



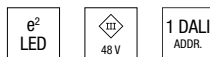
adjustable beam angle
17°–43° (FOCUS)



optical accessories
(max. 1 pc.) on request



INSET JUST 26

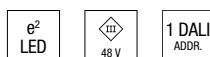


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 W	2700K	130 lm	0 5 1 - 1 5 1 1 ☼☼ 3 8 ▲
	3000K	150 lm	

Light distribution

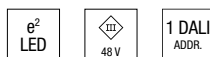
spot 14°			LOR 84%			flood 30°			LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1521	ø 0,24	1	341	ø 0,54	1	85	ø 1,08	1	21	ø 2,16
2	380	ø 0,48	2	85	ø 1,08	2	21	ø 2,16	2	5,25	ø 5,25
3	169	ø 0,73	3	38	ø 1,62	3	9,5	ø 4,75	3	2,6	ø 2,6
4	95	ø 0,97	4	21	ø 2,16	4	5,25	ø 5,25	4	1,4	ø 1,4
5	61	ø 1,21	5	14	ø 2,70	5	3,5	ø 3,5	5	1,0	ø 1,0

INSET JUST 26 DUO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	270 lm	0 5 1 - 1 5 1 2 ☼☼ 3 8 ▲
	3000K	290 lm	

INSET JUST 26 FOCUS 17–43°

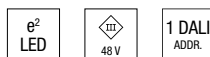


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 W	2700K	100 lm	0 5 1 - 1 5 1 3 ☼☼ 3 8
	3000K	110 lm	

Light distribution

min. angle 17°			LOR 45%			max. angle 43°			LOR 62%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	607	ø 0,30	1	194	ø 0,80	1	48	ø 1,59	1	12	ø 3,18
2	152	ø 0,59	2	48	ø 1,59	2	12	ø 3,18	2	3,5	ø 3,5
3	67	ø 0,89	3	22	ø 2,39	3	5,25	ø 5,25	3	2,6	ø 2,6
4	38	ø 1,18	4	12	ø 3,18	4	3,5	ø 3,5	4	1,4	ø 1,4
5	24	ø 1,48	5	8	ø 3,98	5	2,6	ø 2,6	5	1,0	ø 1,0

INSET JUST 26 FOCUS 17–43° DUO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	200 lm	0 5 1 - 1 5 1 4 ☼☼ 3 8
	3000K	220 lm	

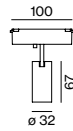
Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

LED LENS JUST 32	
spot 19°	S
medium 27°	M
flood 42°	F

LED LENS JUST 45	
super spot 6°	V
medium 27°	M

LED LENS BO 55 BASIC	
medium 23°	M
flood 33°	F



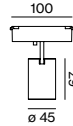
INSET JUST 32



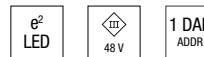
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	530 lm	0 5 1 - 1 5 2 1 :: 3 8 ▲
	3000 K	530 lm	

Light distribution

spot 19°			medium 27°			flood 42°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2809	ø 0,34	1	1476	ø 0,48	1	901	ø 0,77
2	702	ø 0,68	2	369	ø 0,97	2	225	ø 1,54
3	312	ø 1,03	3	164	ø 1,45	3	100	ø 2,32
4	176	ø 1,37	4	92	ø 1,94	4	56	ø 3,09
5	112	ø 1,71	5	59	ø 2,42	5	36	ø 3,86



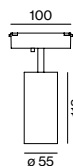
INSET JUST 45



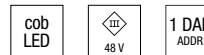
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	530 lm	0 5 1 - 1 5 3 1 :: 3 8 V
	3000 K	530 lm	
10 W	2700 K	910 lm	0 5 1 - 1 5 3 2 :: 3 8 M
	3000 K	910 lm	

Light distribution

super spot 6°			medium 27°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	25082	ø 0,10	1	2772	ø 0,48
2	6271	ø 0,21	2	693	ø 0,97
3	2787	ø 0,31	3	308	ø 1,45
4	1568	ø 0,42	4	173	ø 1,94
5	1003	ø 0,52	5	111	ø 2,42



INSET BO 55 BASIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700 K	680 lm	0 5 1 - 1 5 9 1 :: 3 8 V
	3000 K	680 lm	
14 W	2700 K	1100 lm	0 5 1 - 1 5 9 2 :: 3 8 ▲
	3000 K	1100 lm	

Light distribution

super spot 6°			medium 23°			flood 33°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32124	ø 0,10	1	4617	ø 0,40	1	2863	ø 0,60
2	8031	ø 0,21	2	1154	ø 0,80	2	716	ø 1,19
3	3569	ø 0,31	3	513	ø 1,20	3	318	ø 1,79
4	2008	ø 0,42	4	289	ø 1,60	4	179	ø 2,39
5	1285	ø 0,52	5	185	ø 2,00	5	115	ø 2,98

INSET MOVE IT 45 SYSTEM

Order options

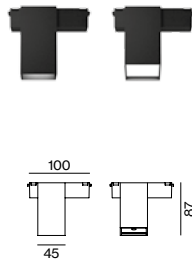
COLOUR TEMPERATURE	
2700K	4
3000K	5

LED LENS SPOT SQUARE	
asymmetric (wallwasher)	A
medium 27°	M

Description

DE Inset werkzeuglos mittels Magnethalter einsetzbar, DALI Steuerplatine integriert, Varianten mit starren Einzellichtpunkten oder opaler Abdeckung für diffuse Beleuchtung, Wallwasher mit speziell berechnetem Reflektor für homogene Wandaufhellung

EN Installation of inset without tools through magnetic holder, DALI control board integrated, variants with fixed single light points or opal cover for diffuse illumination, wallwasher with specially computed reflector for uniform wall illumination

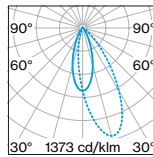


INSET SPOT SQUARE



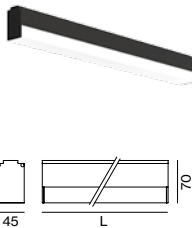
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700K	300lm	100	0 5 1 - 2 5 4 1 :: 3 8 ▲
	3000K	320lm		

Light distribution

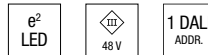


h (m)	E (lx)	ø (m)
1	751	ø 0,63
2	188	ø 1,26
3	83	ø 1,89
4	47	ø 2,52
5	30	ø 3,15

Asymmetric
direct
LOR 58 %

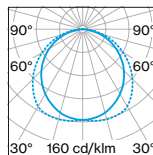


INSET OPAL JUT-OUT

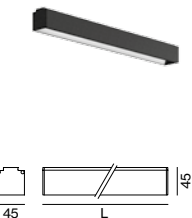


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18 W	2700 K	1200lm	605	0 5 1 - 2 5 6 2 :: 3 8 J
	3000K	1200lm		
36 W	2700 K	2400lm	1205	0 5 1 - 2 5 6 4 :: 3 8 J
	3000K	2400lm		

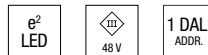
Light distribution



Opal jut-out
direct
LOR 50 %

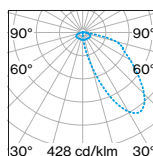


INSET WALLWASHER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	2700K	910lm	450	0 5 1 - 2 5 8 1 :: 3 8 A
	3000K	930lm		

Light distribution



Asymmetric
direct
LOR 51 %

Order options

MATERIAL COLOUR TULA NANO	
chrome	4
grey	6
black	8



MATERIAL COLOUR TULA MICRO	
chrome	4
grey	6
black	8



MATERIAL COLOUR CORD	
clear-silver	0
chrome	6
white	7
black	8



Description

DE Inset werkzeuglos mittels Magnethalter einsetzbar, DALI Steuerplatine integriert, dekorative Pendelleuchten in hochwertiger Optik, optional auch mit mundgeblasenem Glaszylinder mit gewellter Oberfläche

EN Installation of inset without tools through magnetic holder, DALI control board integrated, decorative suspended luminaires in high end design, optionally with blown glass cylinder with wavy surface



INSET TULA NANO



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	330 lm	500	0 5 3 - 5 2 8 1 4 3 <input checked="" type="checkbox"/> M

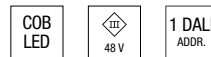
Light distribution

medium 28° LOR 75%

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49



INSET TULA MICRO



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	280 lm	300	0 5 3 - 5 3 8 1 4 3 <input checked="" type="checkbox"/> M
5 W	2700 K	280 lm	500	0 5 3 - 5 5 8 1 4 3 <input checked="" type="checkbox"/> M

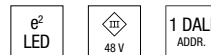
Light distribution

medium 33° LOR 59%

h (m)	E (lx)	ø (m)
1	768	ø 0,59
2	192	ø 1,18
3	85	ø 1,78
4	48	ø 2,37
5	31	ø 2,96



INSET CORD



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	330 lm	400	0 5 3 - 5 4 8 1 4 3 <input checked="" type="checkbox"/> M

Light distribution

medium 28° LOR 75%

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49

Inspiration

Private Residence
New York, USA

SOLUTION
MOVE IT 45 SYSTEM

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria



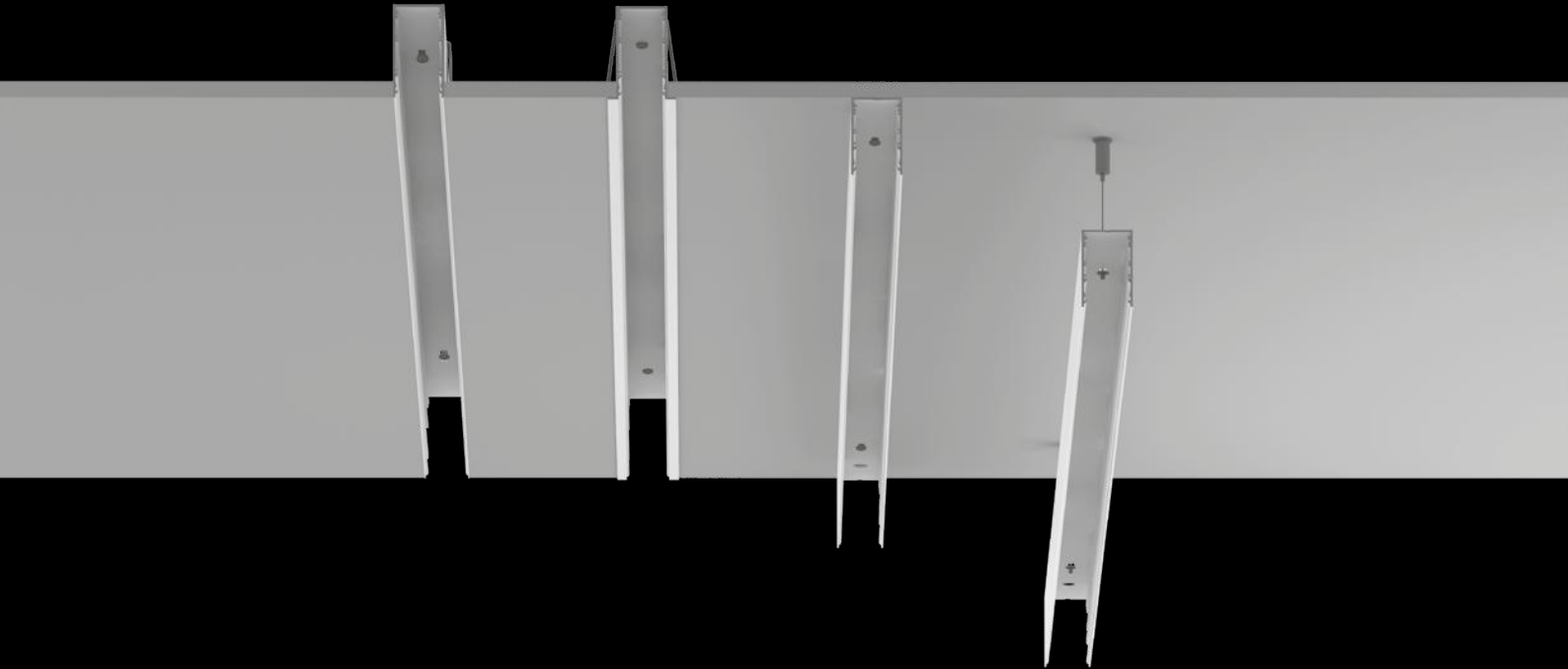


PROFILES 40

CHANNEL

MINIMAL 40

FRAME 55

MINO 40
CEILINGMINO 40
SUSPENDED

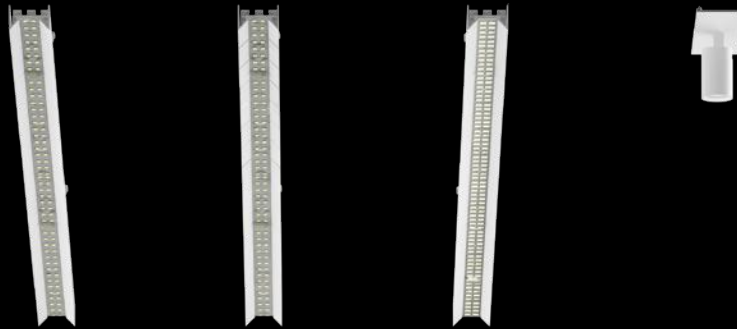
INSETS

e / e²

FLEXIBLE

TUNABLE WHITE

JUST 26

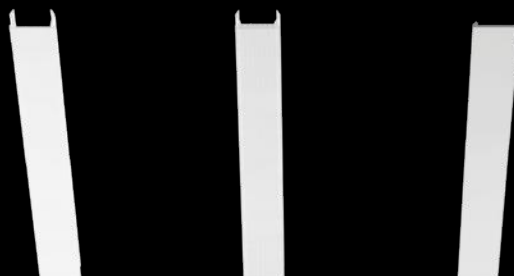


COVERS

OPAL HIGH PERFORMANCE

MICROPRISMATIC

BLIND COVER



Overview

	MINIMAL 40	FRAME 55	MINO 40
INSET			
e LED	.	.	.
e ² LED	.	.	.
e LED FLEXIBLE	.	.	.
e ² LED FLEXIBLE	.	.	.
e ² TUNABLE WHITE	.	.	.
JUST 26	.	.	.
COVER			
OPAL HIGH PERFORMANCE	.	.	.
MICROPRISMATIC	.	.	.
BLIND COVER	.	.	.

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 38 mm breitem Lichtaustritt; ausgelegt für durchgehende Lichtsysteme; wahlweise als Aufbau-, abgehängte oder Einbauvariante (randlos oder mit umlaufendem Rand); Oberfläche Aluminium Natur eloxiert, weiß oder schwarz pulverbeschichtet; wahlweise mit verschiedenen Lichteinsätzen; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Luminaire housing from extruded aluminium profile with 38 mm wide light exit; designed for continuous lighting systems; choice of surface mounted, suspended or recessed versions (trimless or with trim); surface with natural anodised aluminium finish, powder coated in white or black; optionally with different light insets; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable

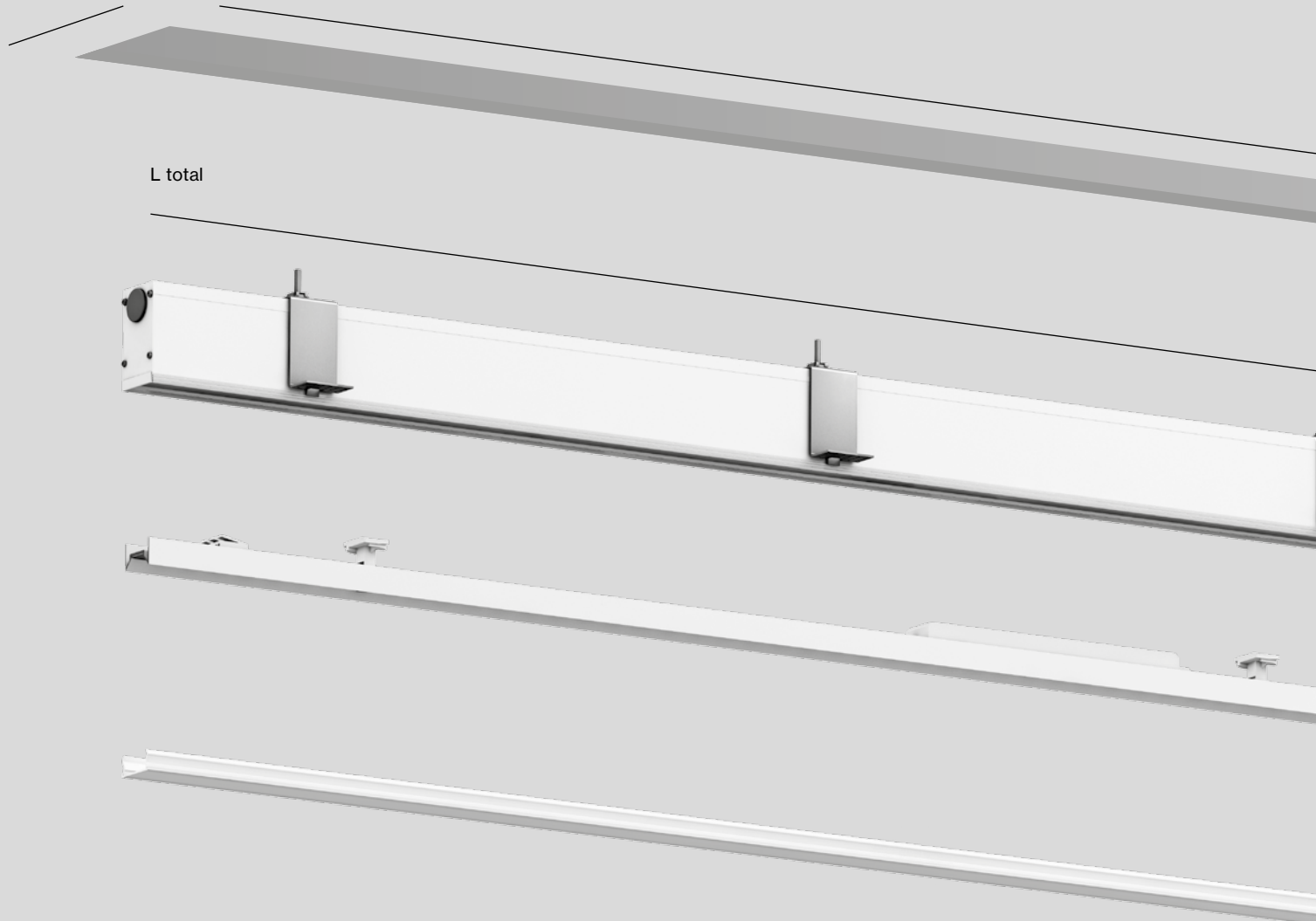
PROFILES 40

MINIMAL 40 / FRAME 55 SYSTEM

W cutout

L cutout (Lc)

L total



$L_{total} = L + L + L + \dots + \text{end caps}$

MINIMAL 40 SYSTEM

L total	- 2000mm	- 4000mm	- 6000mm	- 8000mm	- 10000mm	- 12000mm	- 14000mm
L cutout (Lc) =	L total + 5mm	L total + 7mm	L total + 9mm	L total + 11mm	L total + 13mm	L total + 15mm	L total + 17mm
W cutout = 46mm							

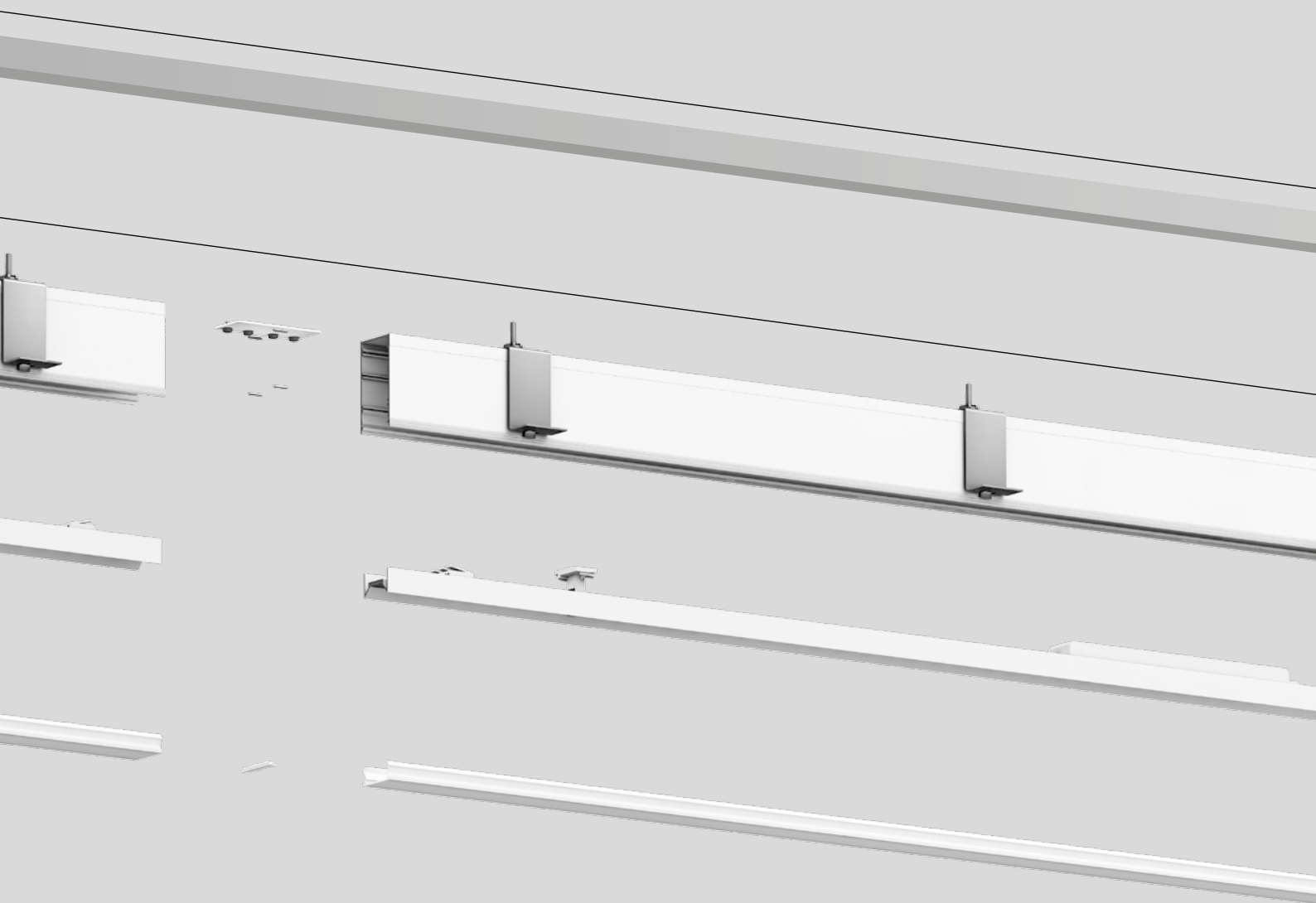
FRAME 55 SYSTEM

L total	- 2000mm	- 4000mm	- 6000mm	- 8000mm	- 10000mm	- 12000mm	- 14000mm
L cutout (Lc) =	L total + 7mm	L total + 9mm	L total + 11mm	L total + 13mm	L total + 15mm	L total + 17mm	L total + 19mm
W cutout = 45mm							



MINIMAL 40

FRAME 55



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



PROFILES 40 MINIMAL 40 SYSTEM

MATERIAL COLOUR

white only

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 38 mm breitem Lichtaustritt, geeignet für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse, Oberfläche weiß pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 38 mm wide light exit, suitable for trimless installation in plasterboard ceilings, special edge design with grooves for better adhesion of filler, surface powder coated in white, designed for continuous lighting systems, 90° angle connectors for flexible system design

INSTALLATION CHANNEL LINEAR

L (mm)	ORDER CODE
572	036 - 00627
872	036 - 00927
1172	036 - 01227
1472	036 - 01527
2344	036 - 02527
3000	036 - 03027
custom cut	E 82020 7



BLIND COVER

L (mm)	ORDER CODE
572	006 - 08067
872	006 - 08097
1172	006 - 08127
1472	006 - 08157
2344	006 - 08247
3000	006 - 08307
custom cut	E 80620 7 B



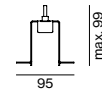
END CAPS (pair)

TYPE	ORDER CODE
end caps	036 - 13027



MOUNTING BRACKET 8-25mm

TYPE	ORDER CODE
1 piece	036 - 10150
25 pieces	036 - 10150 . 25



number of brackets required: length of your system in metres+1

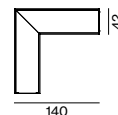
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005 - 40026
linear connector (10 pieces)	005 - 40026 . 10
opal cover linear connector	006 - 14007
clear cover linear connector	006 - 16007



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	036 - 12637
opal high performance	036 - 12637H
microprismatic	036 - 12637P



maximum length of 10m per leg. X- and T-connector on request

THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005



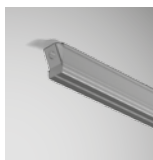
10 pieces per pack

PROFILES 40 INSETS

[page 376](#)

CONCRETE HOUSING

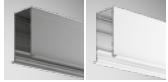
[page 482](#)



PROFILES 40 FRAME 55 SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7



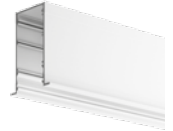
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 38mm breitem Lichtaustritt, Einbauleuchte mit umlaufendem Rand, Oberfläche weiß pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 38mm wide light exit, recessed luminaire with with trim, surface powder coated in white or natural anodised aluminium, designed for continuous lighting systems, 90° angle connectors for flexible system design

INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	035 - 0060
872	035 - 0090
1172	035 - 0120
1472	035 - 0150
2344	035 - 0250
3000	035 - 0300
custom cut	E 8 2 1 2 0



BLIND COVER

L (mm)	ORDER CODE
572	006 - 0806
872	006 - 0809
1172	006 - 0812
1472	006 - 0815
2344	006 - 0824
3000	006 - 0830
custom cut	E 8 0 6 2 0 B



END CAPS (pair)

TYPE	ORDER CODE
anodised aluminium	035 - 13116
white	035 - 13117



MOUNTING BRACKET 8-25 mm

TYPE	ORDER CODE
1 piece	035 - 10150
25 pieces	035 - 10150 . 25



number of brackets required: length of your system in metres+1

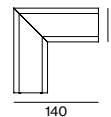
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005 - 40026
linear connector (10 pieces)	005 - 40026 . 10
opal cover linear connector	006 - 14007
clear cover linear connector	006 - 16007



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	035 - 1261
opal high performance	035 - 1261 H
microprismatic	035 - 1261 P



maximum length of 10 m per leg. X- and T-connector on request

THROUGH WIRE

TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack



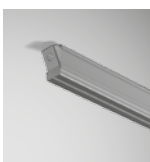
PROFILES 40 INSETS

[page 376](#)



CONCRETE HOUSING

[page 482](#)

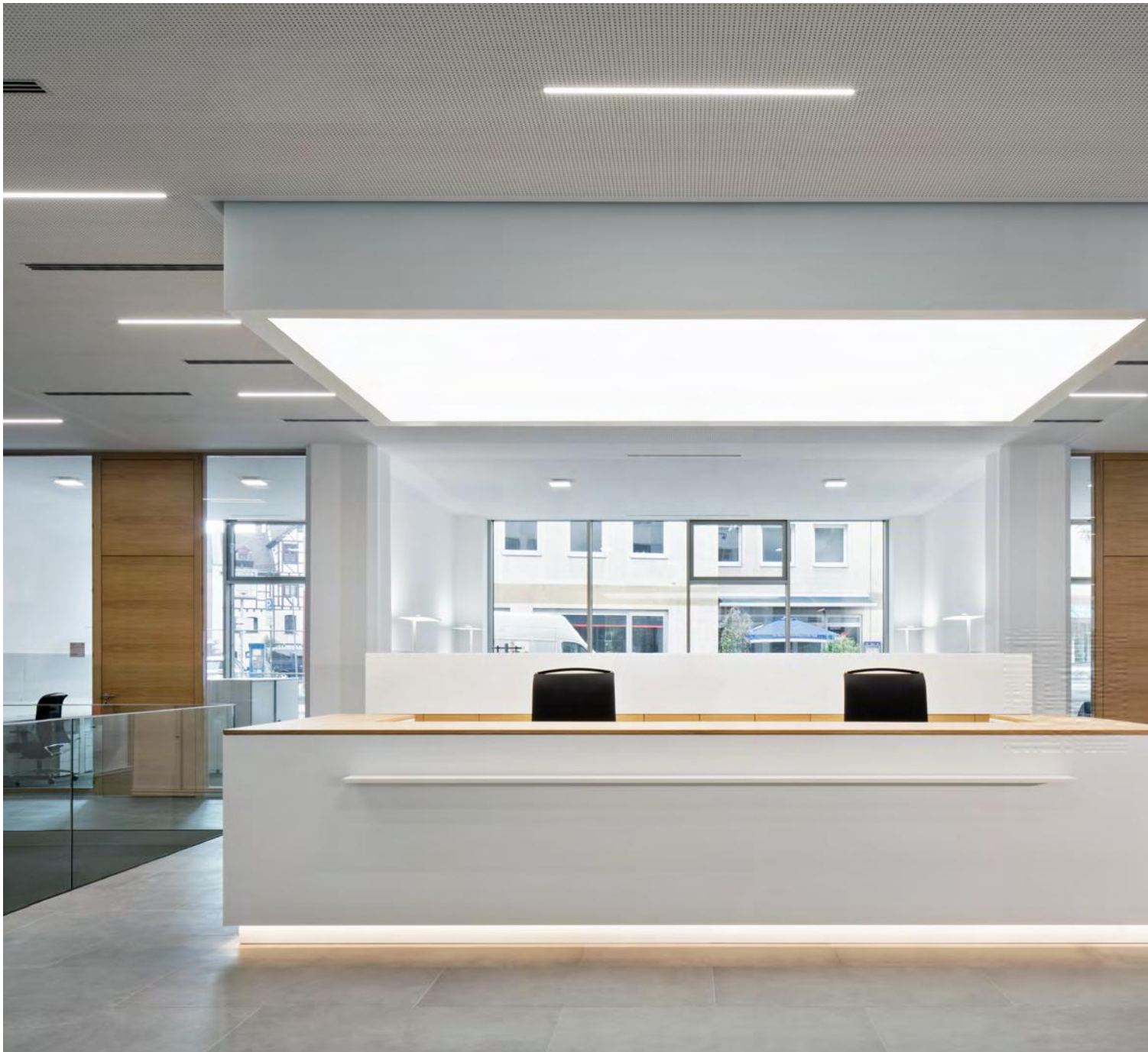


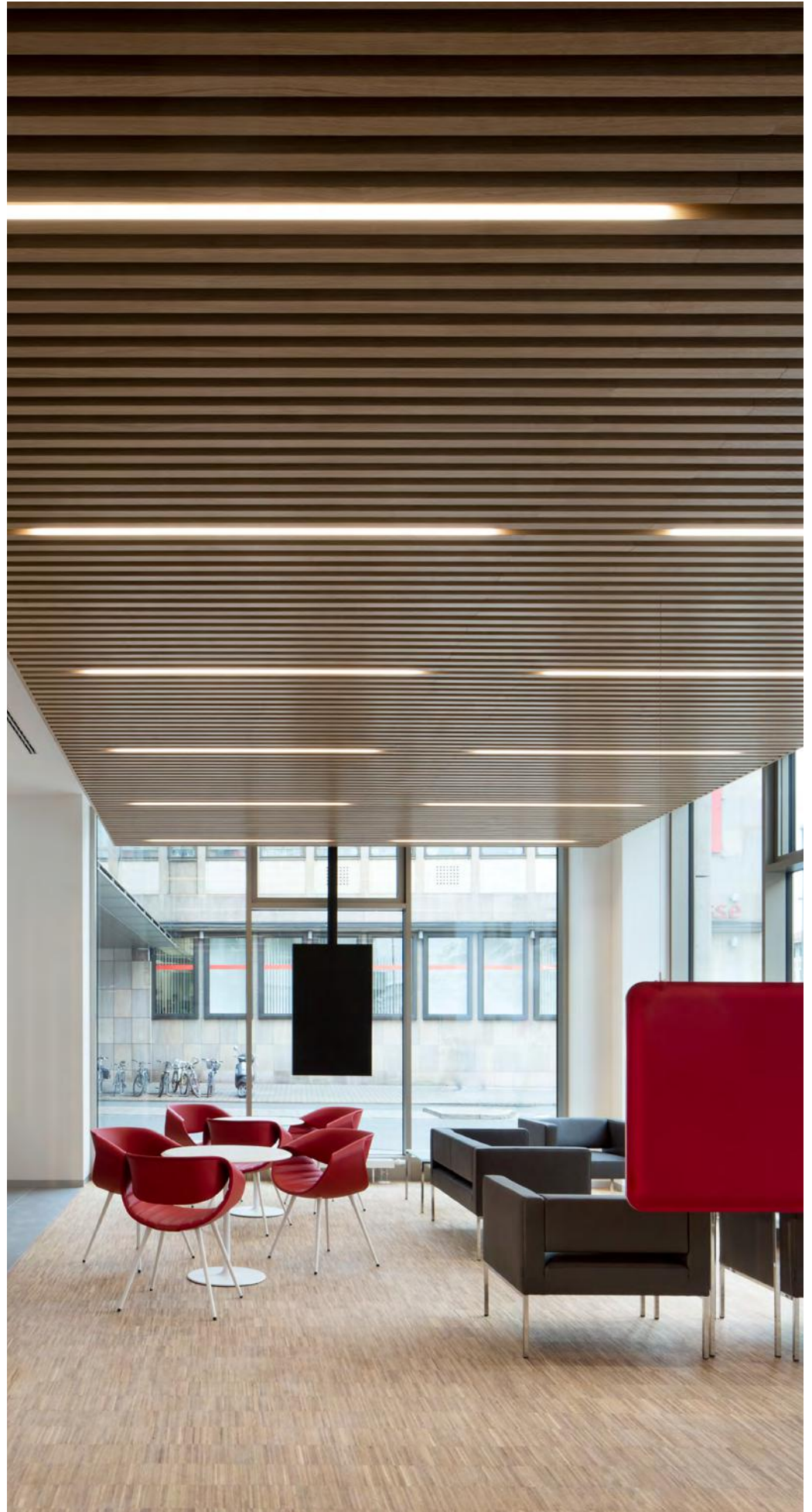
Inspiration

Sparkasse, Bank
Nuremberg, Germany

SOLUTION
FRAME 55

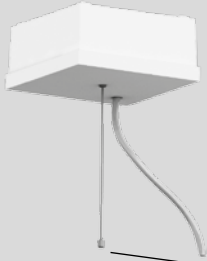
ARCHITECT
baum-kappler architekten
Nuremberg, Germany



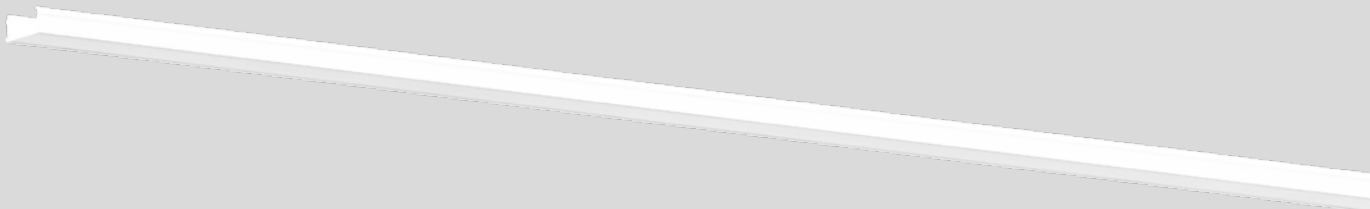
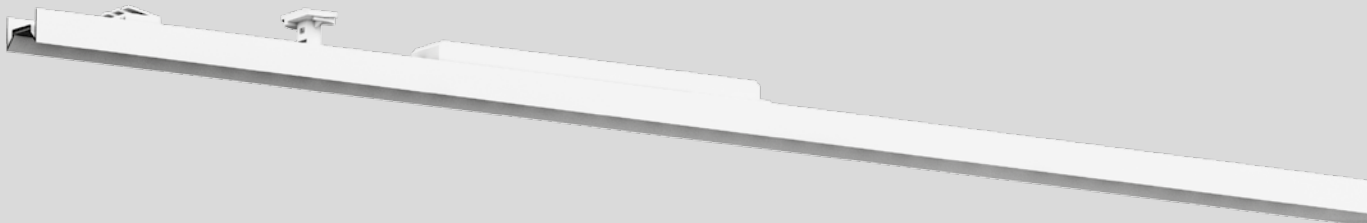
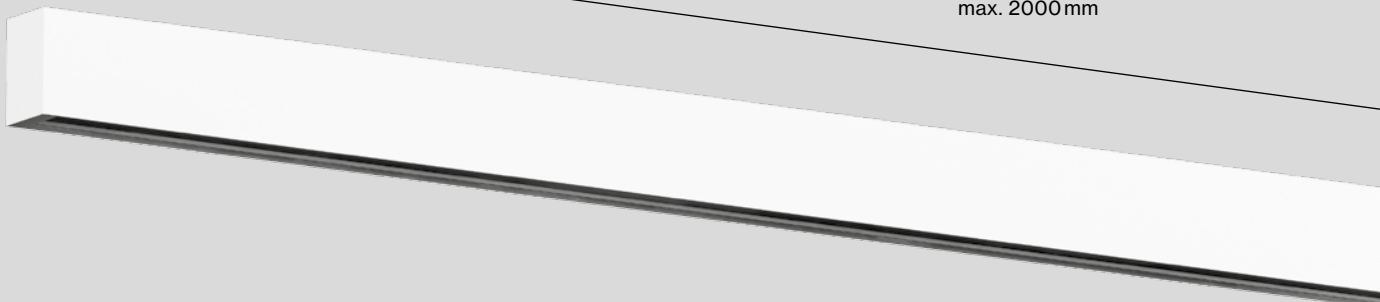


PROFILES 40

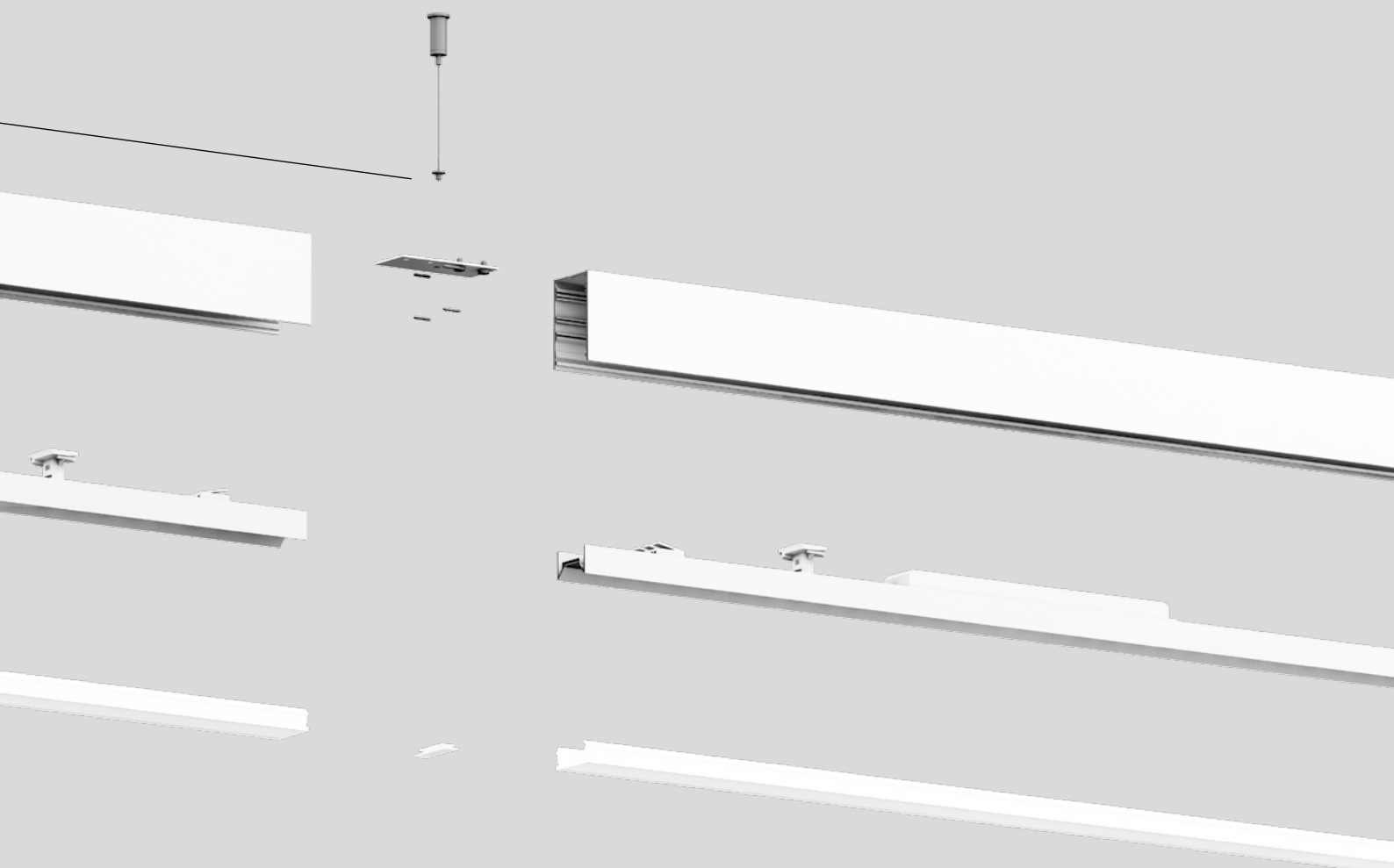
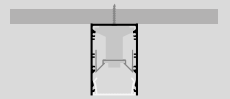
MINO 40 SYSTEM



max. 2000mm



MINO 40



**Online System
Configurator**

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system with the XAL
online configurator
systems.xal.com



PROFILES 40

MINO 40 SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



POWER FEEDER MATERIAL COLOUR	
grey	6
white	7
black	8

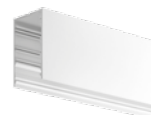
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in kantiger Ausführung mit 38 mm breitem Lichtaustritt, lichtdicht abschließende Enddeckel aus Aluminium ohne sichtbare Schrauben, Oberfläche weiß oder schwarz pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme

EN Luminaire housing from extruded aluminium profile in angular design with 38 mm wide light exit, light-tight end cap closure in aluminium without visible screws, surface powder coated in white or black or natural aluminium anodised finish, designed for continuous lighting systems

INSTALLATION CHANNEL LINEAR CEILING / SUSPENDED

L (mm)	ORDER CODE
572	034 - 0061
872	034 - 0091
1172	034 - 0121
1472	034 - 0151
2344	034 - 0251
3000	034 - 0301
custom cut	E 85021



BLIND COVER

L (mm)	ORDER CODE
572	006 - 0806
872	006 - 0809
1172	006 - 0812
1472	006 - 0815
2344	006 - 0824
3000	006 - 0830
custom cut	E 80620



END CAPS (pair)

TYPE	ORDER CODE
end caps	034 - 1303



LINEAR CONNECTOR

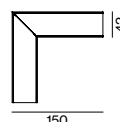
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40026
linear connector (10 pieces)	005 - 40026 . 10
opal cover linear connector	006 - 14007
clear cover linear connector	006 - 16007



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	034 - 1263
opal high performance	034 - 1263 H
microprismatic	034 - 1263 P

X- and T-connector on request



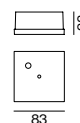
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	034 - 11506
cable suspension	4000	034 - 11606



POWER FEEDER (suspension only)

TYPE	L (mm)	ORDER CODE
3 x 1,5 mm ²	2000	005 - 3262
5 x 1,5 mm ²	2000	005 - 3263
3 x 1,5 mm ²	4000	005 - 3264
5 x 1,5 mm ²	4000	005 - 3265



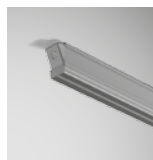
PROFILES 40 INSET

page 376



CONCRETE HOUSING

page 482



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

10 pieces per pack



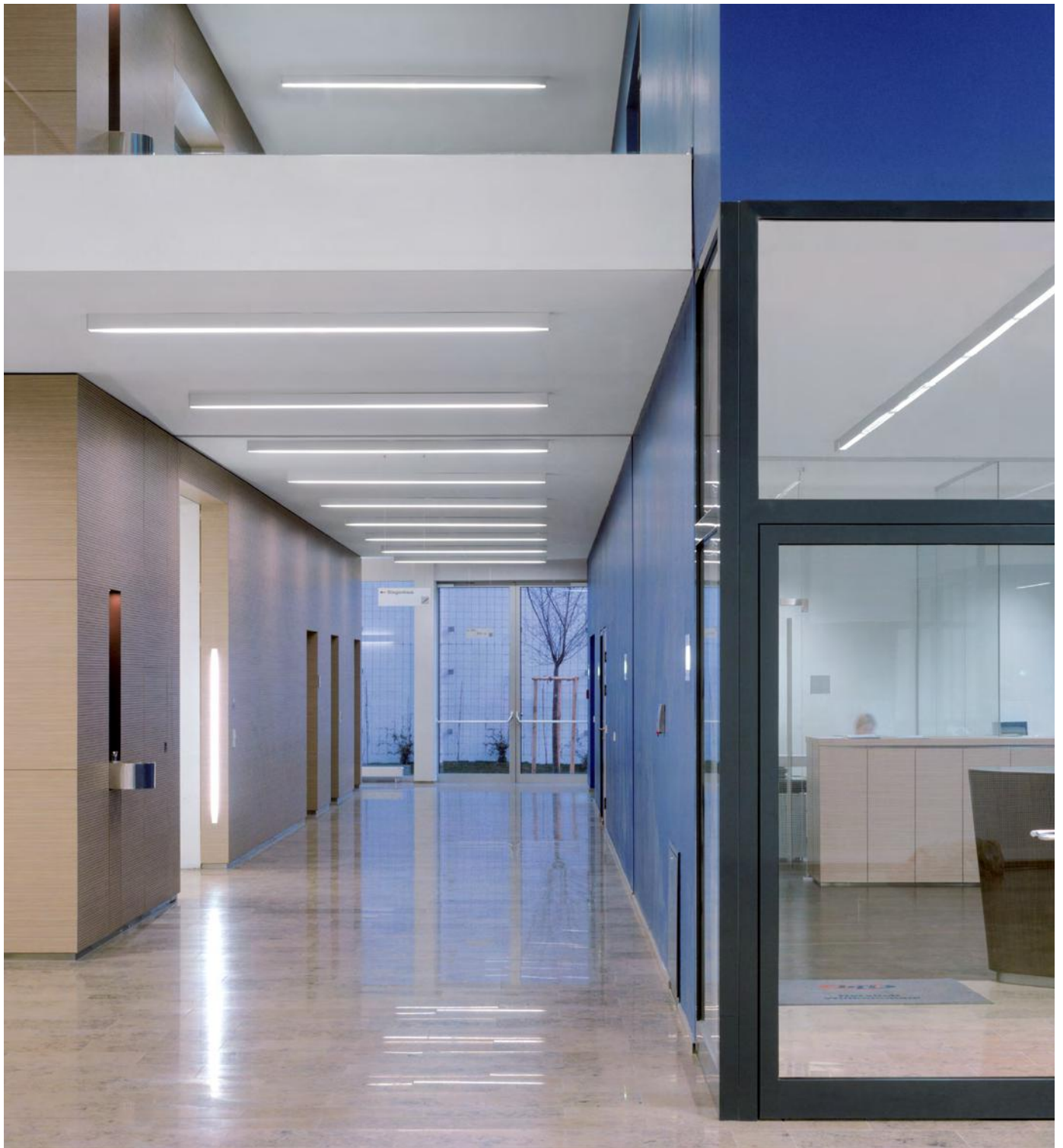
Inspiration

Berufsförderungsinstitut BFI
Innsbruck, Austria

SOLUTION
MINO 40

ARCHITECT

arge2 designer + ingenieure
Innsbruck, Austria



Inspiration

PepsiCo Deutschland GmbH
Neu-Isenburg, Germany

SOLUTION
MINO 40 + JUST 32

ARCHITECT
xquadrat GmbH
Gelnhausen, Germany





INSET 40 + JUST 26

Order options

TYPE	
e LED	2
e ² LED	3

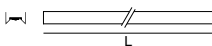
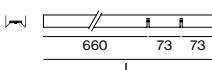
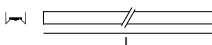
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI (only for e ² LED)	3

Description

DE Inset aus hochreflektierend lackiertem Aluminiumprofil, bauseits kürzbare Variante für flexible Anwendungen

EN Inset consisting of highly reflective coated aluminium profile, can be individually shortened on site for flexible use



INSET 40



STANDARD

SYSTEM POWER e / e ² LED	L (mm)	ORDER CODE
9 W / 14 W	572	0 0 7 - 6 3 2 2 7
14 W / 20 W	872	0 0 7 - 6 3 3 3 7
18 W / 27 W	1172	0 0 7 - 6 3 4 4 7
23 W / 34 W	1464	0 0 7 - 6 3 5 5 7
36 W / 54 W	2344	0 0 7 - 6 3 8 8 7

FLEXIBLE

SYSTEM POWER e / e ² LED	L (mm)	ORDER CODE
18 W / 27 W	660-1172	0 0 7 - 6 3 F 7

flexible inset can be cut every 73 mm to make total lengths from 660 up to 1172 mm

TUNABLE WHITE 3000–6000K / DIM DALI (2 Addr.)

SYSTEM POWER e ² LED	L (mm)	ORDER CODE
20 W	872	0 0 7 - 6 3 3 3 0 3 7
27 W	1172	0 0 7 - 6 3 3 4 0 3 7
34 W	1464	0 0 7 - 6 3 3 5 0 3 7

Features



quick lock



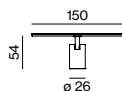
flex insets can be shortened

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8

LED LENS	
spot 14°	S
flood 30°	F



INSET 40 JUST 26



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
2 W	3000K	150lm	150	0 0 7 - 9 6 0 1 1 1 1 1 1
	4000K	160lm		

Light distribution

spot 14°			LOR 84%			flood 30°			LOR 81%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1662	ø 0,24	1	373	ø 0,54	1	373	ø 0,54	1	373	ø 0,54
2	416	ø 0,48	2	93	ø 1,08	2	93	ø 1,08	2	93	ø 1,08
3	185	ø 0,73	3	41	ø 1,62	3	41	ø 1,62	3	41	ø 1,62
4	104	ø 0,97	4	23	ø 2,16	4	23	ø 2,16	4	23	ø 2,16
5	66	ø 1,21	5	15	ø 2,70	5	15	ø 2,70	5	15	ø 2,70

Description

DE Inset mit Strahlerkopf aus Aluminium, 352° dreh- und 90° schwenkbar, passiv gekühlt, inkl. Konverter

EN Inset with spotlight head made of aluminium, rotatable 352° and tiltable 90°, passive cooling, incl. converter

Optical accessories

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	23-4	0 0 7 - 1 9 6 5 1 4 8
elliptical sculpture foil	23-4	0 0 7 - 1 9 6 5 2 4 0
snoot	23-12	0 0 7 - 1 9 6 5 3 4 8
colour filter (red, blue, green, etc.)	23-4	on request

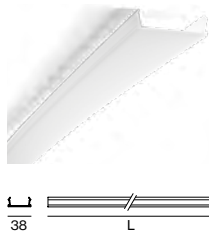
use only 1 optical accessory

COVER 40

Description

DE HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; durch spezielle Materialzusammensetzung mit erhöhter Transmission und Diffusion; wahlweise mit mikroprismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte

EN HPO (High Performance Opal) cover for uniform illumination through special material composition, with increased transmission and diffusion, also available with microprismatic PMMA cover for reducing luminance



COVER 40 OPAL

PMMA

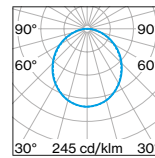
L (mm)

570
870
1170
1470
2342
2997
custom cut

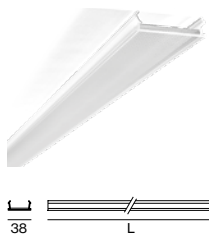
ORDER CODE

006 - 04063
006 - 04093
006 - 04123
006 - 04153
006 - 04243
006 - 04303
E80620 ····0H

Light distribution



Opal
direct
LOR 66 %



COVER 40 MICROPRISMATIC

PMMA

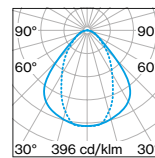
L (mm)

570
870
1170
1470
2342
2997
custom cut

ORDER CODE

006 - 06062
006 - 06092
006 - 06122
006 - 06152
006 - 06242
006 - 06302
E80620 ····0P

Light distribution



Microprismatic
direct
LOR 64 %

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
PROFILE 40 opal cover	e LED	15 W/m	3000K	1449 lm/m	66%	94 lm/W
			4000K	1518 lm/m	66%	98 lm/W
	e ² LED	23 W/m	3000K	2136 lm/m	66%	92 lm/W
PROFILE 40 microprismatic cover	e LED	15 W/m	3000K	1401 lm/m	64%	90 lm/W
			4000K	1468 lm/m	64%	95 lm/W
	e ² LED	23 W/m	3000K	2066 lm/m	64%	89 lm/W
			4000K	2165 lm/m	64%	94 lm/W

PROFILES 60

CHANNEL

MINIMAL 60

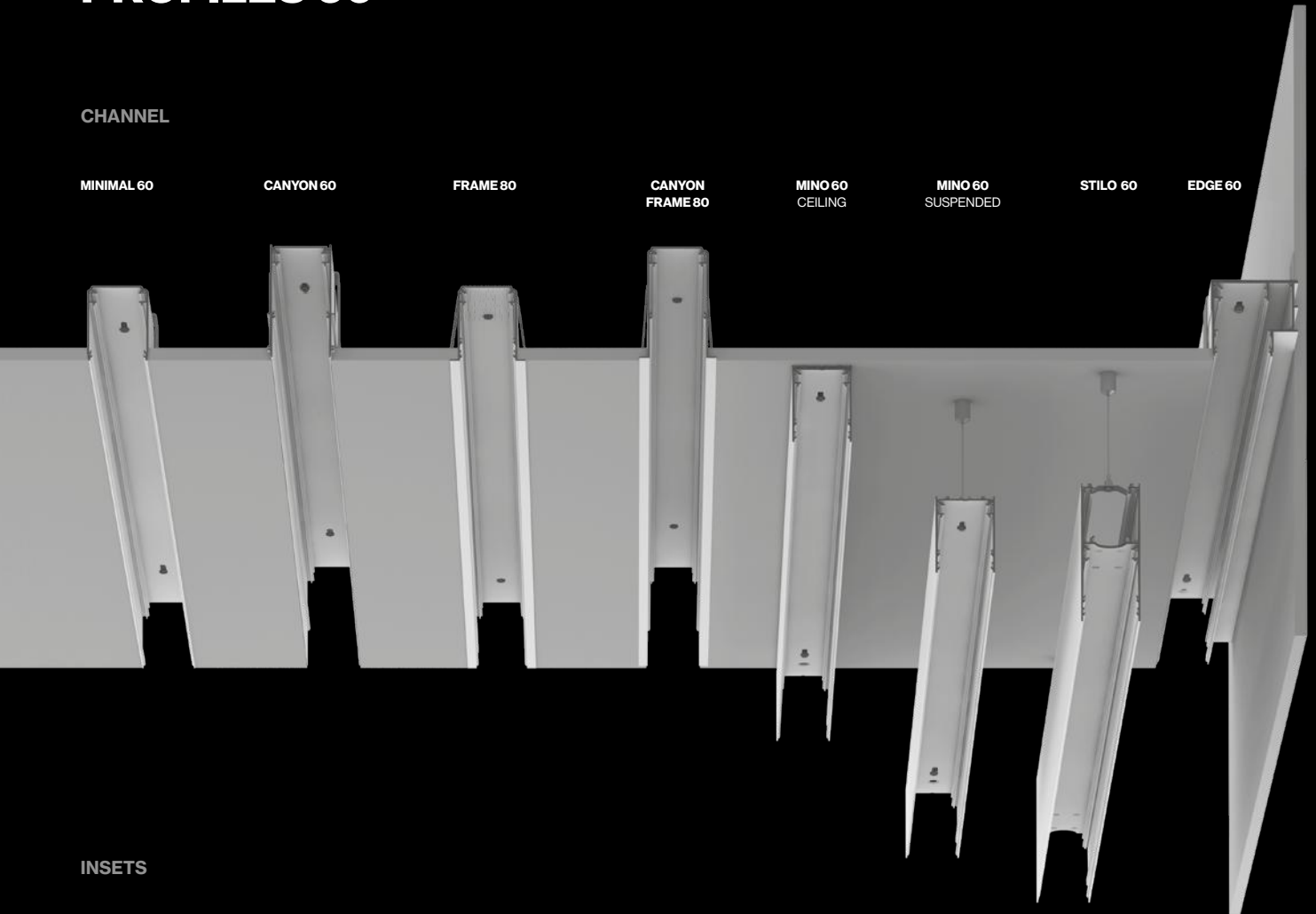
CANYON 60

FRAME 80

CANYON
FRAME 80MINO 60
CEILINGMINO 60
SUSPENDED

STILO 60

EDGE 60



INSETS

e / e²
e² TUNABLE WHITEe / e² FLEXIBLE

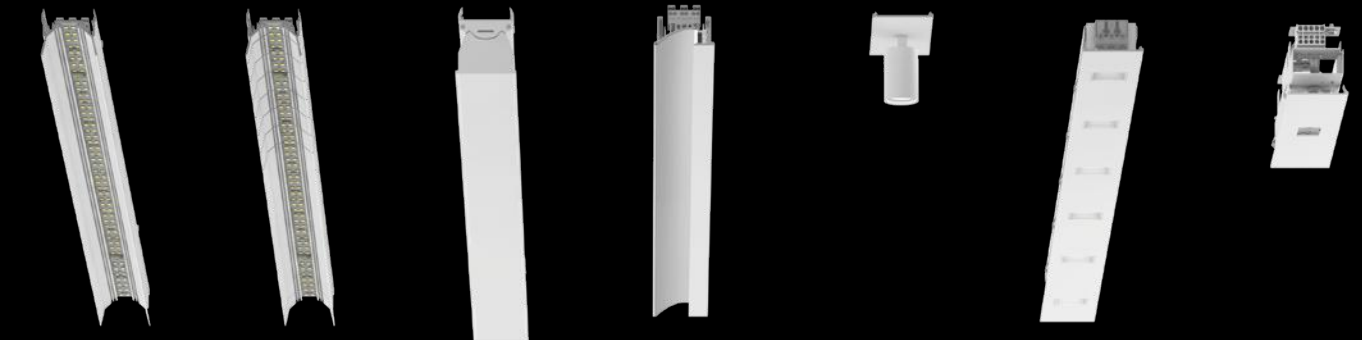
IP 65

WALLWASHER

JUST 32

DOT

EMERGENCY

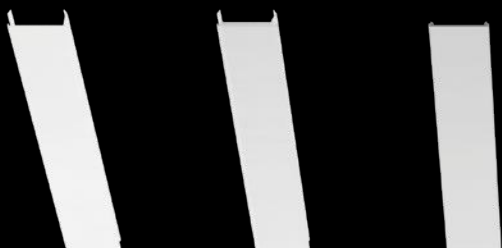


COVERS

OPAL HIGH PERFORMANCE

MICROPRISMATIC

BLIND COVER



Overview

	MINIMAL 60	CANYON 60	FRAME 80	CANYON FRAME 80	EDGE 60	MINO 60	STILO 60
INSET							
e LED	•	•	•	•	•	•	•
e ² LED	•	•	•	•	•	•	•
e LED FLEXIBLE	•	•	•	•	•	•	•
e ² LED FLEXIBLE	•	•	•	•	•	•	•
e ² LED TUNABLE WHITE	•	•	•	•	•	•	•
COVER							
OPAL HIGH PERFORMANCE	•	•	•	•	•	•	•
MICROPRISMATIC	•	•	•	•	•	•	•
BLIND COVER	•	•	•	•	•	•	•
INSET IP65							
e LED	•	•	•	•	•	•	•
e ² LED	•	•	•	•	•	•	•
INSET WALLWASHER							
e ² LED	•		•			•	•
INSET JUST 32							
e ² LED	•		•		•	•	•
INSET DOT							
e ² LED	•	•	•	•	•	•	•
INSET LED EMERGENCY / 3H							
symmetric	•	•	•	•	•	•	•
asymmetric	•	•	•	•	•	•	•
PROFILE 60 CURVE							
e LED	•		•			•	
e ² LED	•		•			•	

**PROFILE 60
CURVE**

[page 410](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55 mm breitem Lichtaustritt; ausgelegt für durchgehende Lichtsysteme; hohe Variantenvielfalt für projektspezifische Anforderungen: wahlweise für aufgebaute oder abgehängte Variante - optional mit indirekter Lichtkomponente; oder als Einbauvariante (randlos oder mit umlaufendem Rand) mit deckenbündiger oder zurückversetzte Leuchtenebene; Oberfläche Aluminium Natur eloxiert, weiß oder schwarz pulverbeschichtet; wahlweise mit verschiedenen Lichteinsätzen; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Luminaire housing from extruded aluminium profile with 55 mm wide light exit; designed for continuous lighting systems; large range of versions for specific project requirements: either flush mounted or pendant versions - with optional indirect light component; or as recessed version (trimless or with trim) with flush or recessed lighting level; surface with natural anodised aluminium finish, powder coated in white or black; optionally with different light insets; binning <3 step MacAdam; available in the light colours 3000K and 4000K or tunable white; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable

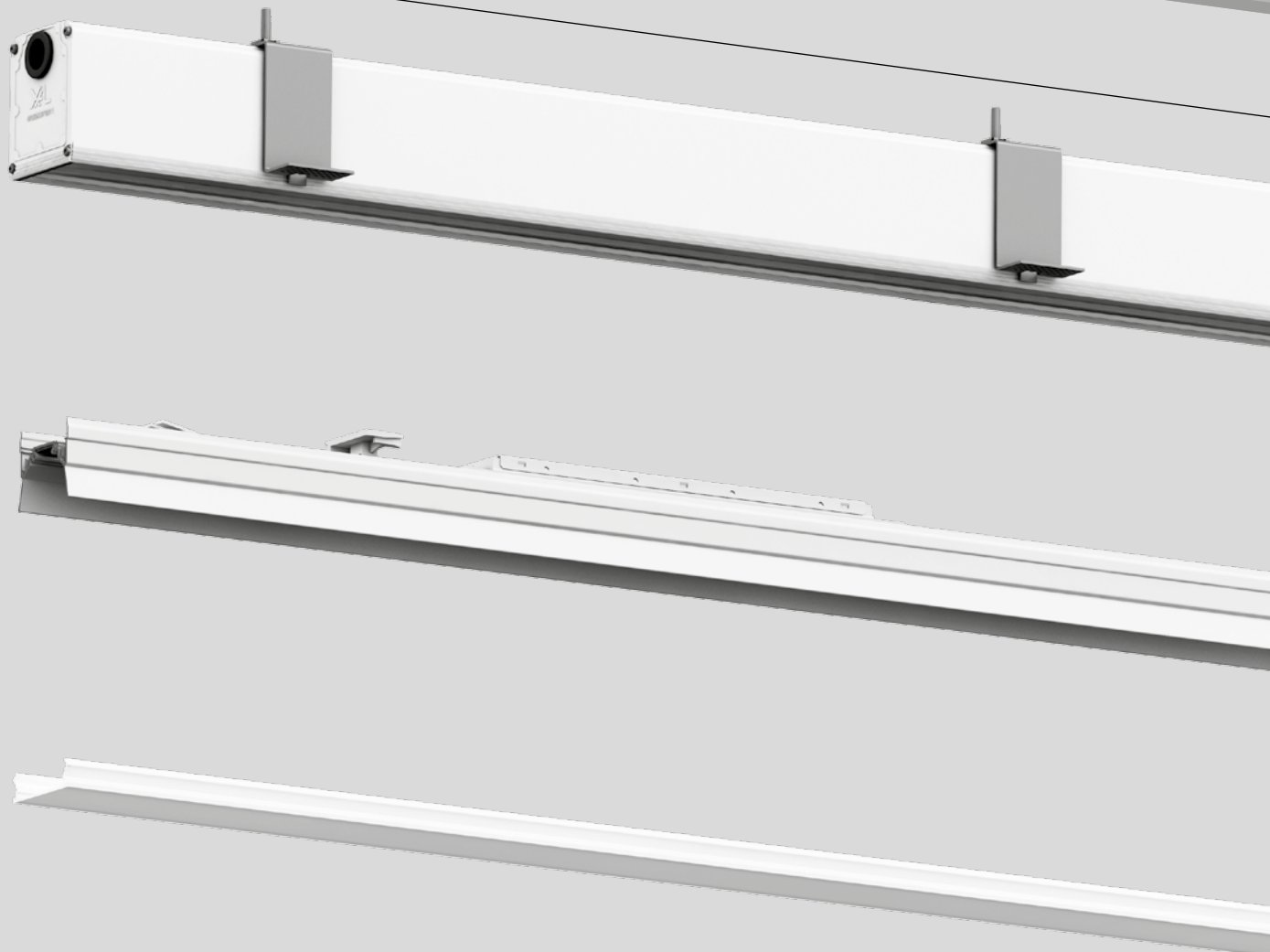
PROFILES 60

MINIMAL 60 / CANYON 60 SYSTEM

W cutout

L cutout (Lc)

L total



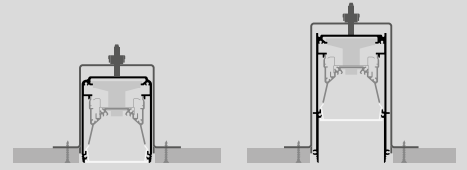
L total = L + L + L + ... + end caps

MINIMAL 60 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 5mm	L total + 7mm	L total + 9mm	L total + 11mm	L total + 13mm	L total + 15mm	L total + 17mm
W cutout =	66mm						

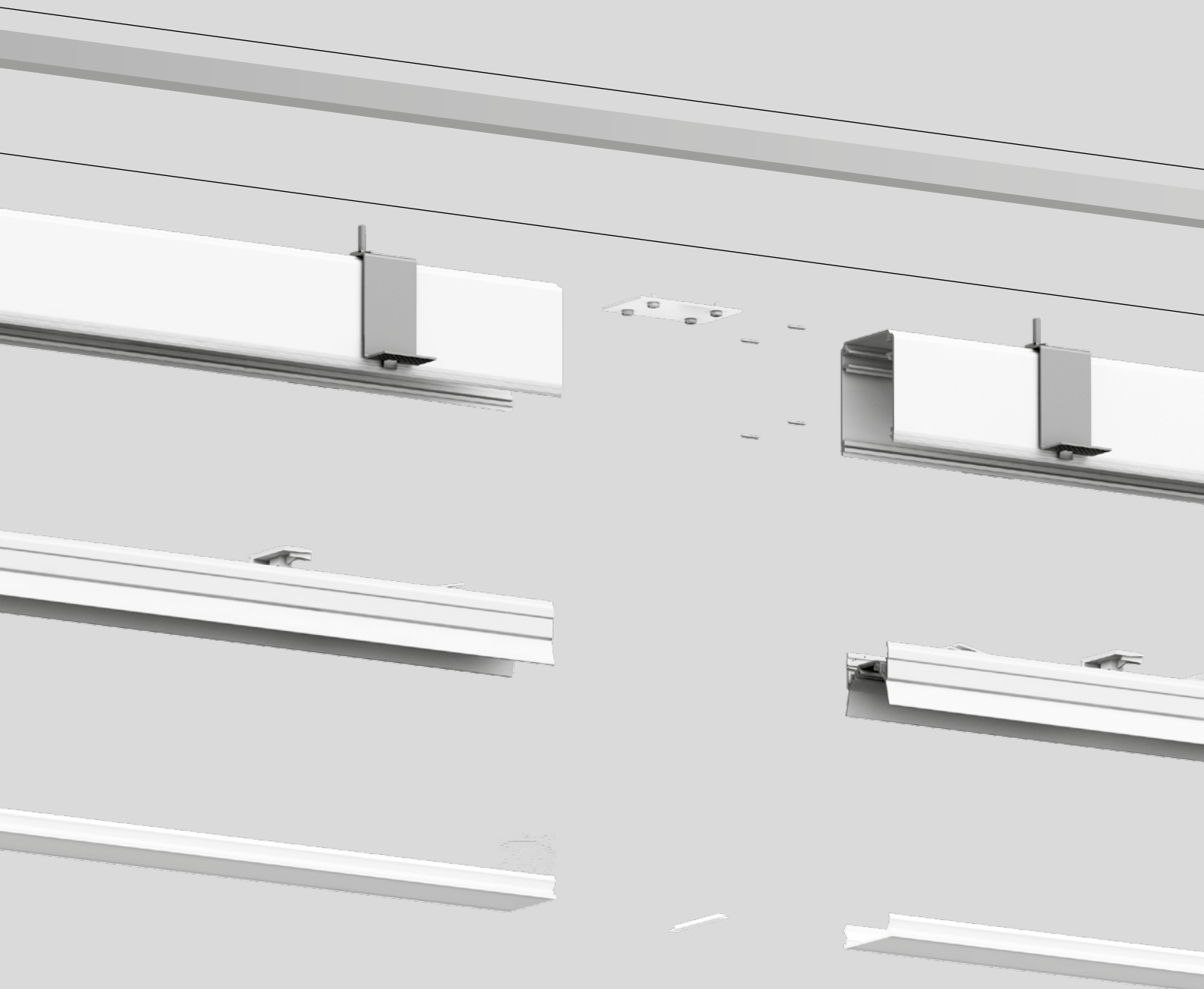
CANYON 60 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 5mm	L total + 7mm	L total + 9mm	L total + 11mm	L total + 13mm	L total + 15mm	L total + 17mm
W cutout =	72mm						



MINIMAL 60

CANYON 60



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



PROFILES 60 MINIMAL 60 SYSTEM

MATERIAL COLOUR

white only

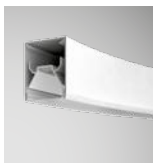
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55 mm breitem Lichtaustritt, geeignet für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse, Oberfläche weiß pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 55 mm wide light exit, suitable for trimless installation in plasterboard ceilings, special edge design with grooves for better adhesion of filler, surface powder coated in white, designed for continuous lighting systems, 90° angle connectors for flexible system design

PROFILE 60 CURVE

[page 410](#)



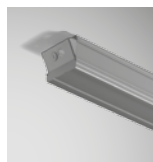
PROFILES 60 INSETS

[page 404](#)



CONCRETE HOUSING

[page 482](#)



INSTALLATION CHANNEL LINEAR

L (mm)	ORDER CODE
572	036 - 00647
872	036 - 00947
1172	036 - 01247
1472	036 - 01547
2344	036 - 02547
3000	036 - 03047
custom cut	E 8 2 0 3 0 7

BLIND COVER

L (mm)	ORDER CODE
572	006 - 18067
872	006 - 18097
1172	006 - 18127
1472	006 - 18157
2344	006 - 18247
3000	006 - 18307
custom cut	E 8 0 6 3 0 7 B

END CAPS (pair)

TYPE	ORDER CODE
end caps	036 - 13047

MOUNTING BRACKET 8-25mm

TYPE	ORDER CODE
1 piece	036 - 10200
25 pieces	036 - 10200 . 25

number of brackets required: length of your system in metres+1

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005 - 40046
linear connector (10 pieces)	005 - 40046 . 10
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000

CORNER CONNECTOR 90°

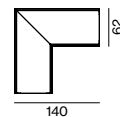
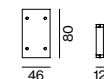
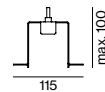
TYPE	ORDER CODE
blind cover	036 - 12647
opal high performance	036 - 12647H
microprismatic	036 - 12647P

maximum length of 10m per leg. X- and T-connector on request

THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

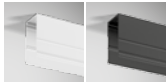
10 pieces per pack



PROFILES 60 CANYON 60 SYSTEM

Order options

MATERIAL COLOUR	
white	7
black	8



Description

DE Leuchtenkörper aus Aluminiumprofil mit 58 mm breitem Lichtaustritt, zurückversetzte Leuchtenebene, für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse, Oberfläche weiß oder schwarz, für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing made of aluminium profile with 58 mm wide light exit, recessed lighting level, for trimless installation in plasterboard ceilings, special edge design with grooves for better adhesion of filler, surface white or black, for continuous lighting systems, 90° angle connectors for flexible system design

Features



ball-impact-resistant
(DIN 57710-13)

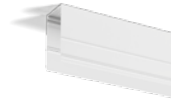
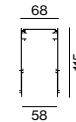
PROFILES 60 INSETS

[page 404](#)



INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	038 - 5063
872	038 - 5093
1172	038 - 5123
1472	038 - 5153
2344	038 - 5253
3000	038 - 5303
custom cut	E 8 2 2 3 0



BLIND COVER

L (mm)	ORDER CODE
572	006 - 1806
872	006 - 1809
1172	006 - 1812
1472	006 - 1815
2344	006 - 1824
3000	006 - 1830
custom cut	E 8 0 6 3 0 B



END CAPS (pair)

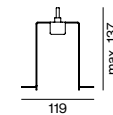
TYPE	ORDER CODE
white	038 - 63047
black	038 - 63048



MOUNTING BRACKET 8-25 mm

TYPE	ORDER CODE
1 piece	038 - 60200
25 pieces	038 - 60200 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

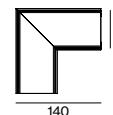
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40276
linear connector (10 pieces)	005 - 40276 . 10
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
opal high performance	038 - 6263 H
microprismatic	038 - 6263 P

maximum length of 10 m per leg. X- and T-connector on request



THROUGH WIRE

TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack



Inspiration

Telecable
Gijón, Spain

SOLUTION
MINIMAL 60

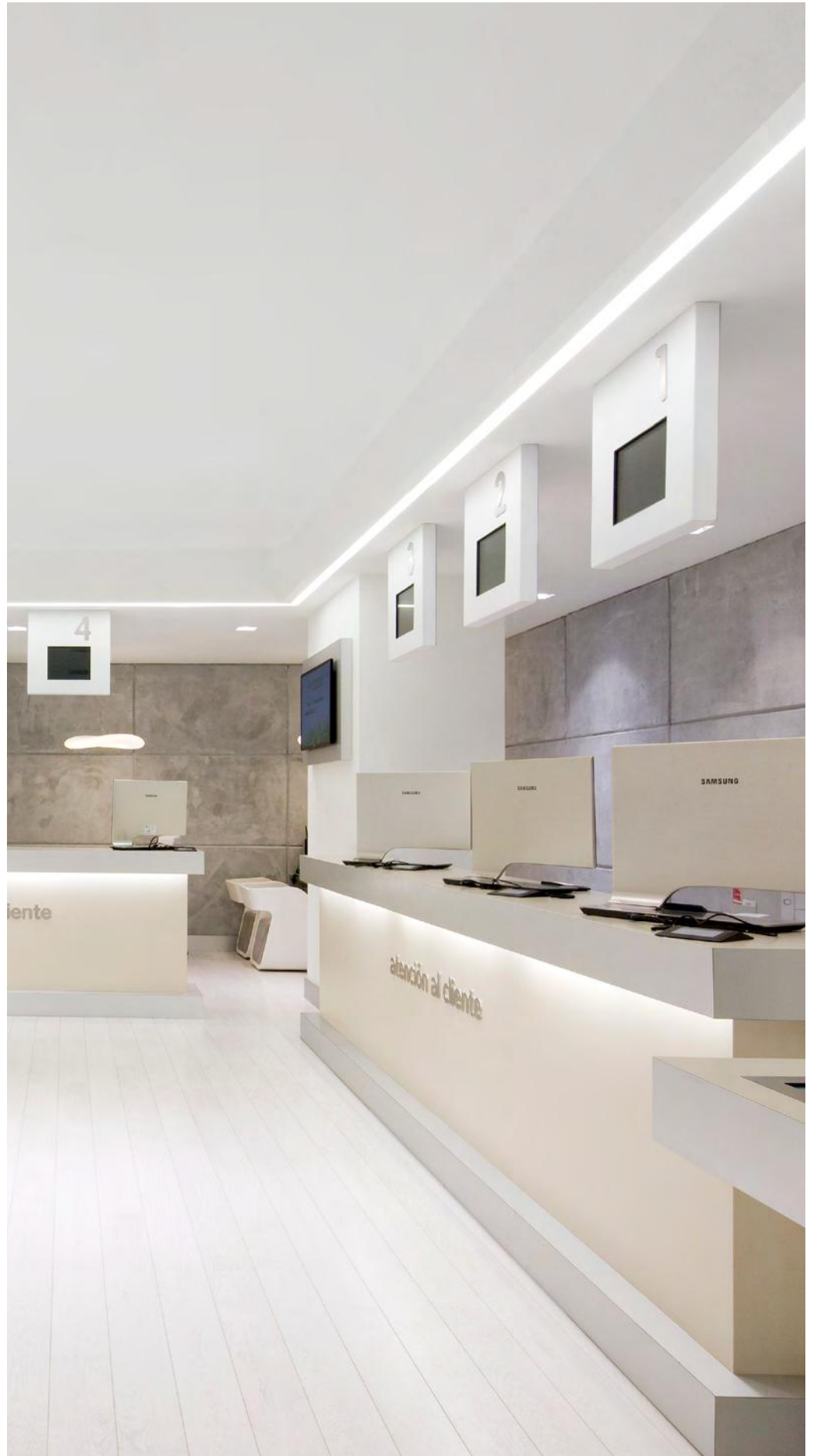
ARCHITECT

Arquitectos Pablo Poch
Duo Comunicacion
Gijón, Spain

LIGHTING DESIGN

Lux Gijón
Gijón, Spain





Inspiration

Sagamore Plastic Surgery
Medical Office
San Francisco, USA

SOLUTION
CANYON 60

ARCHITECT
TSAO Design Group
San Francisco, USA

LIGHTING DESIGN
Bank/Ramos
San Francisco, USA





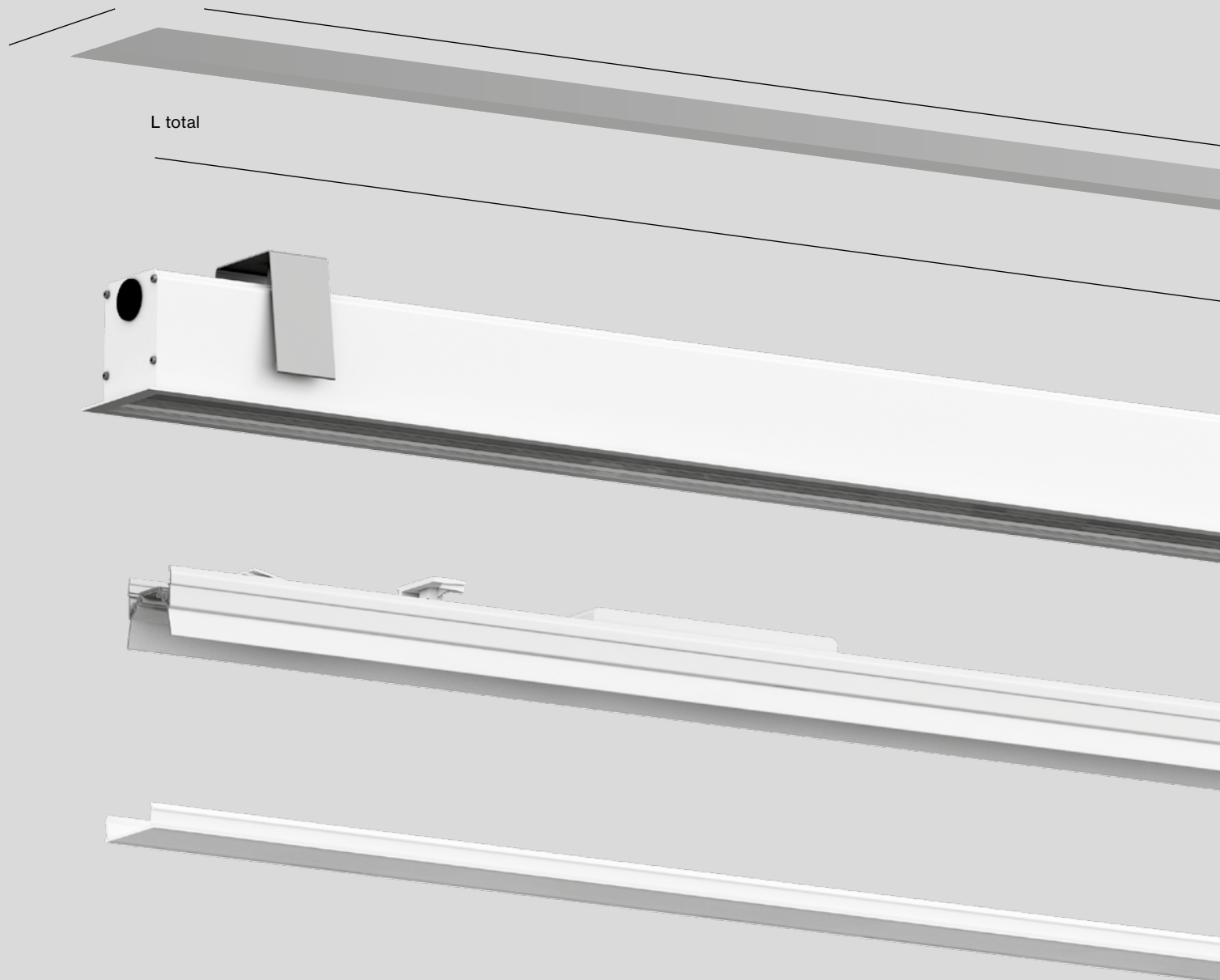
PROFILES 60

FRAME 80 / CANYON FRAME 80 SYSTEM

W cutout

L cutout (Lc)

L total



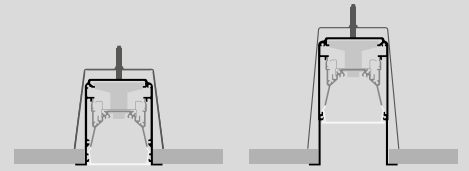
L total = L + L + L + ... + end caps

FRAME 80 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm	L total + 19 mm
W cutout =	66 mm						

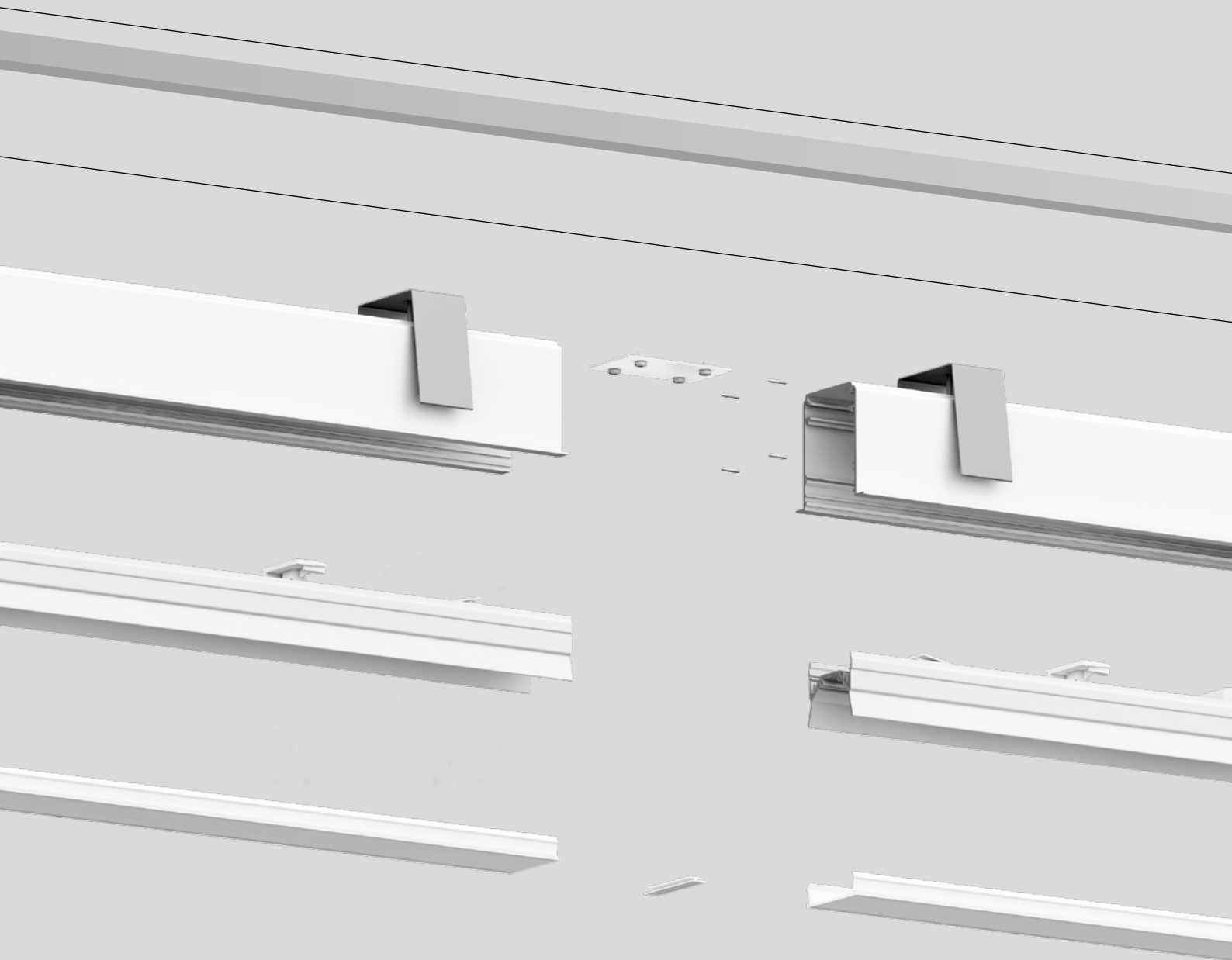
CANYON FRAME 80 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm	L total + 19 mm
W cutout =	70 mm						



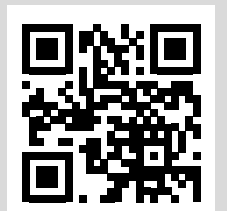
FRAME 80

**CANYON
FRAME 80**



**Online System
Configurator**

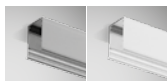
Generate your light
system with the XAL
online configurator
systems.xal.com



PROFILES 60 FRAME 80 SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55 mm breitem Lichtaustritt, Einbauleuchte mit umlaufendem Rand, Oberfläche weiß pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 55 mm wide light exit, recessed luminaire with with trim, surface powder coated in white or natural aluminium anodised finish, designed for continuous lighting systems, 90° angle connectors for flexible system design

PROFILE 60 CURVE

[page 410](#)



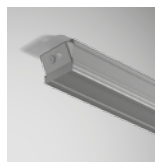
PROFILES 60 INSETS

[page 404](#)



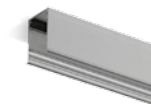
CONCRETE HOUSING

[page 482](#)



INSTALLATION CHANNEL LINEAR

L (mm)	ORDER CODE
572	035 - 0063
872	035 - 0093
1172	035 - 0123
1472	035 - 0153
2344	035 - 0253
3000	035 - 0303
custom cut	E 8 2 1 4 0



BLIND COVER

L (mm)	ORDER CODE
572	006 - 1806
872	006 - 1809
1172	006 - 1812
1472	006 - 1815
2344	006 - 1824
3000	006 - 1830
custom cut	E 8 0 6 3 0



END CAPS (pair)

TYPE	ORDER CODE
end caps	035 - 1313



MOUNTING BRACKET 2-18 mm

TYPE	ORDER CODE
1 piece	035 - 10200
25 pieces	035 - 10200 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

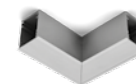
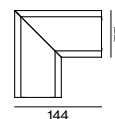
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40046
linear connector (10 pieces)	005 - 40046 . 10
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	035 - 1263
opal high performance	035 - 1263 H
microprismatic	035 - 1263 P

maximum length of 10m per leg. X- and T-connector on request



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

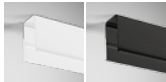
10 pieces per pack



PROFILES 60 CANYON FRAME 80 SYSTEM

Order options

MATERIAL COLOUR	
white	7
black	8



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55 mm breitem Lichtaustritt, zurückversetzte Leuchtenebene, Einbauleuchte mit umlaufendem Rand, Oberfläche weiß oder schwarz pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 55mm wide light exit, recessed lighting level, recessed luminaire with with trim, surface powder coated in white or black, designed for continuous lighting systems, 90° angle connectors for flexible system design

Features



ball-impact-resistant
(DIN 57710-13)

PROFILES 60 INSETS

[page 404](#)



INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	038 - 5067
872	038 - 5097
1172	038 - 5127
1472	038 - 5157
2344	038 - 5257
3000	038 - 5307
custom cut	E 8 2 3 3 0



BLIND COVER

L (mm)	ORDER CODE
572	006 - 1806
872	006 - 1809
1172	006 - 1812
1472	006 - 1815
2344	006 - 1824
3000	006 - 1830
custom cut	E 8 0 6 3 0 B



END CAPS (pair)

TYPE	ORDER CODE
end caps	038 - 6307



MOUNTING BRACKET 8-25mm

TYPE	ORDER CODE
1 piece	038 - 60700
25 pieces	038 - 60700 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

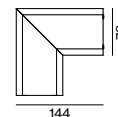
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40046
linear connector (10 pieces)	005 - 40046 . 10
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	038 - 6267
opal high performance	038 - 6267 H
microprismatic	038 - 6267 P

maximum length of 10 m per leg. X- and T-connector on request



THROUGH WIRE

TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack



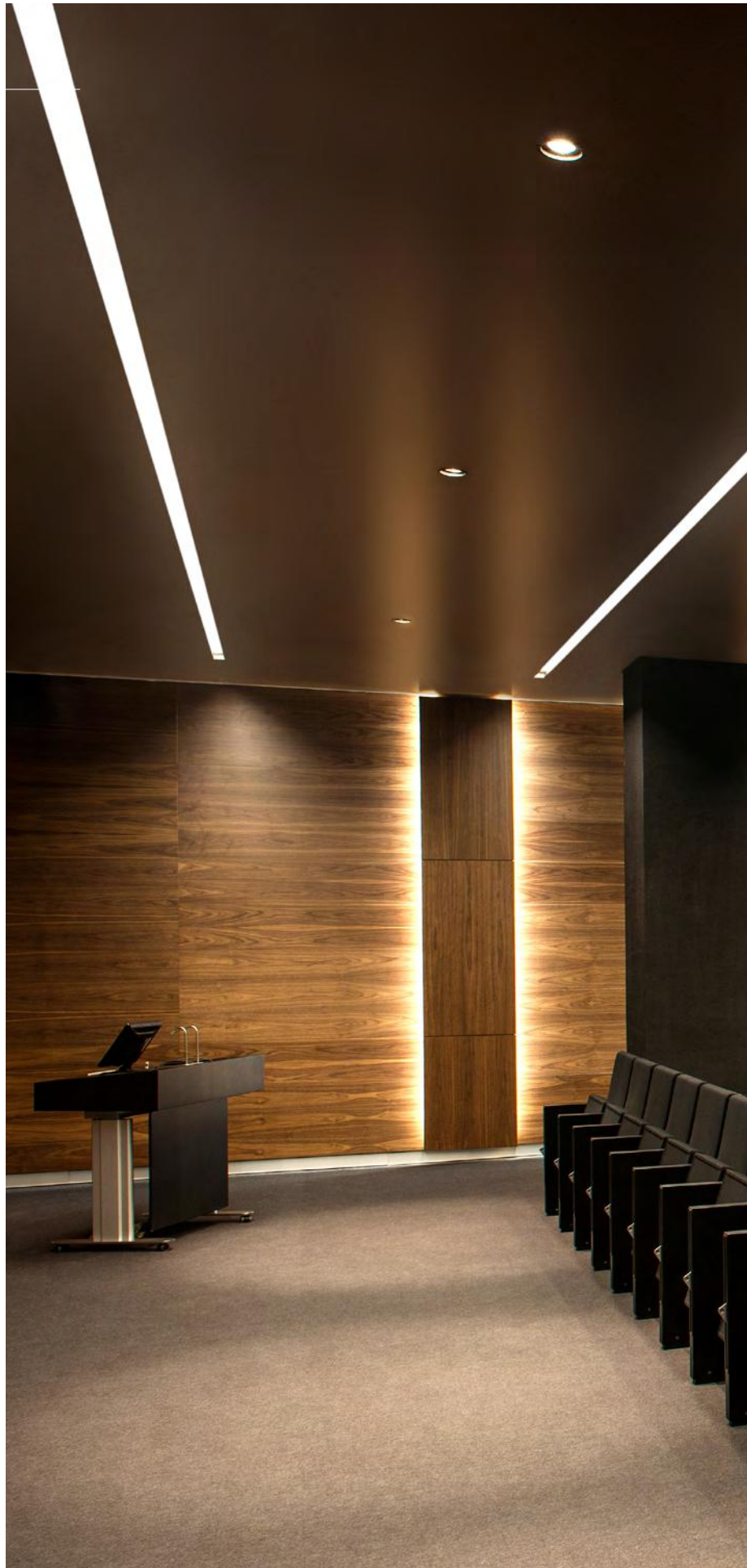
Inspiration

Kommunes Hus
Oslo, Norway

ARCHITECT
RATIO arkitekter as
Oslo, Norway

LIGHTING DESIGN
RATIO arkitekter as, Limelight AS
Oslo, Norway

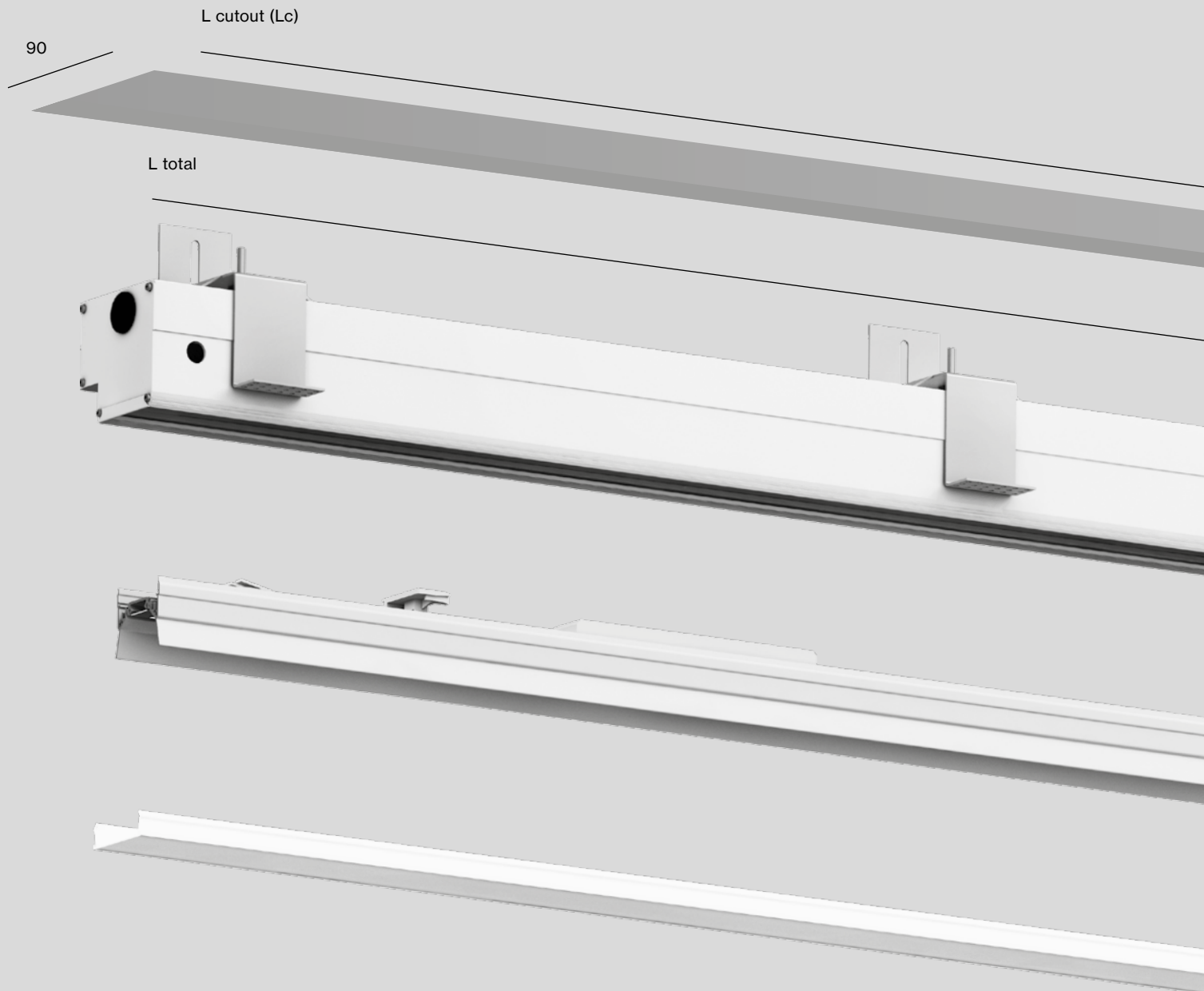
SOLUTION
FRAME 80





PROFILES 60

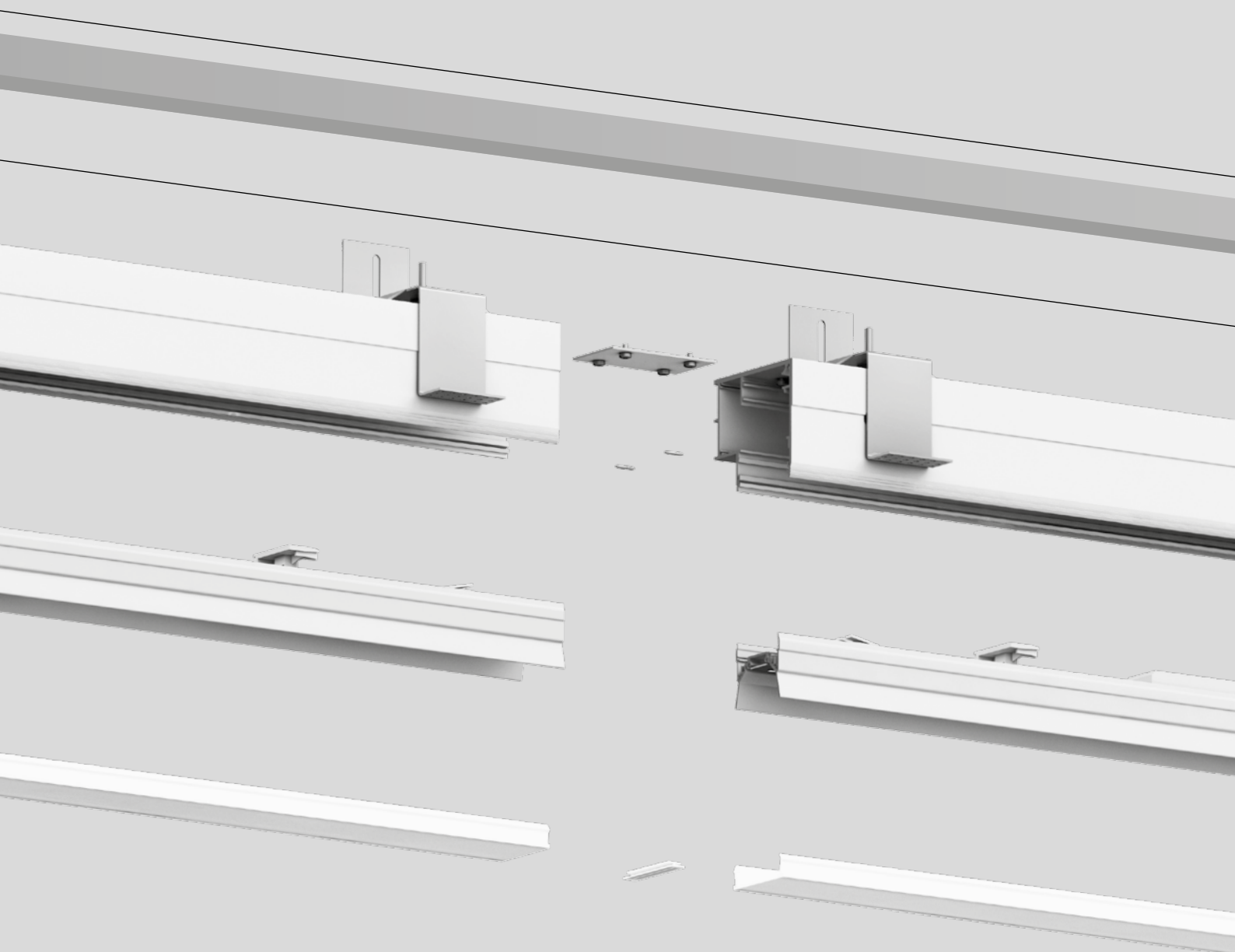
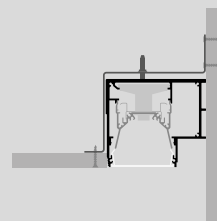
EDGE 60 SYSTEM



$L \text{ total} = L + L + L + \dots + \text{end caps}$

EDGE 60 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 5 mm	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm



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online configurator
systems.xal.com



PROFILES 60 EDGE 60 SYSTEM

Order options

LIGHT OPTIC COVER

opal high performance	H
microprismatic	P

MATERIAL COLOUR

white	
-------	--

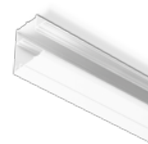
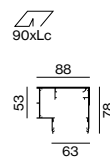
Description

DE Wand- bzw. Deckenan-
schlussleuchte aus Aluminiumpro-
fil mit 55mm breitem Lichtaustritt,
mit Schattenfuge, für den
randlosen Einbau in Gipskarton-
decken, spezielle Randausbildung
mit Rillen für bessere Haftung der
Spachtelmasse, Oberfläche weiß,
für durchgehende Lichtsysteme,
90° Winkelverbinder für flexiblen
Systemaufbau

EN Wall or ceiling luminaire in
aluminium profile with 55 mm
wide light exit, with shadow joint,
for trimless installation in plas-
terboard ceilings, special edge
design with grooves for better
adhesion of filler, surface white,
designed for continuous lighting
systems, 90° angle connectors
for flexible system design

INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	036 - 50647
872	036 - 50947
1172	036 - 51247
1472	036 - 51547
2344	036 - 52547
3000	036 - 53047
custom cut	E 8 2 4 6 0 7



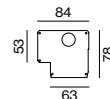
BLIND COVER

L (mm)	ORDER CODE
572	006 - 18067
872	006 - 18097
1172	006 - 18127
1472	006 - 18157
2344	006 - 18247
3000	006 - 18307
custom cut	E 8 0 6 3 0 7 B



END CAPS (pair)

TYPE	ORDER CODE
end caps	036 - 53147

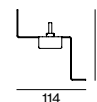


MOUNTING BRACKET 8-25mm

TYPE	ORDER CODE
ceiling bracket (1 piece)	036 - 54200
ceiling bracket (25 pieces)	036 - 54200 . 25

floor bracket (1 piece)	036 - 54300
floor bracket (25 pieces)	036 - 54300 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

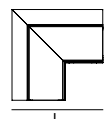
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40046
linear connector (10 pieces)	005 - 40046 . 10

opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
inner corner floor	228	036 - 52647 <input checked="" type="checkbox"/>
outer corner floor	150	036 - 52667 <input checked="" type="checkbox"/>
inner corner ceiling	150	036 - 52747 <input checked="" type="checkbox"/>
outer corner ceiling	150	036 - 52767 <input checked="" type="checkbox"/>



THROUGH WIRE

TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack



PROFILES 60 INSETS

[page 404](#)



Inspiration

Samsung Headquarters
Vienna, Austria

SOLUTION
EDGE 60 SYSTEM

ARCHITECT

INNOCAD Architektur ZT GmbH
Graz, Austria

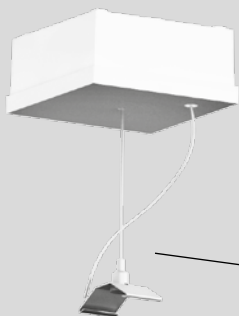
LIGHTING DESIGN

INNOCAD Architektur ZT GmbH
Graz, Austria

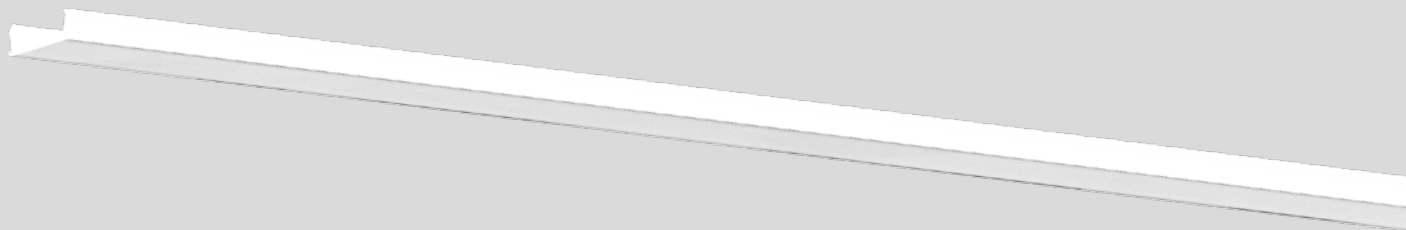
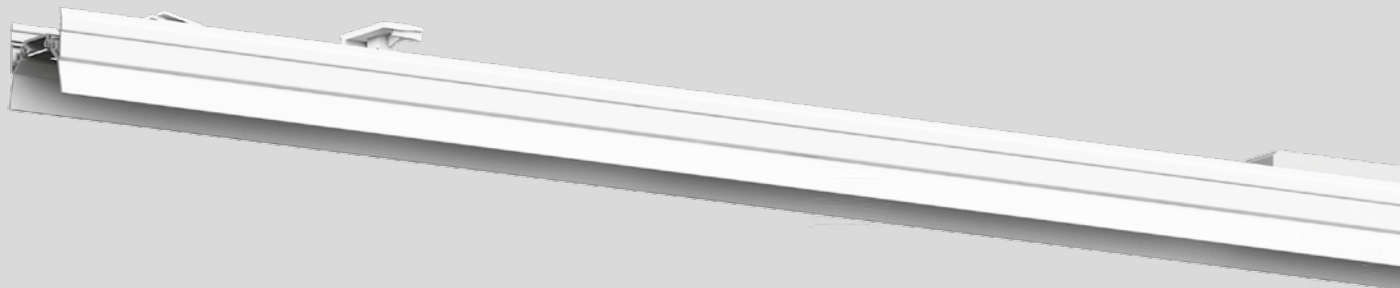
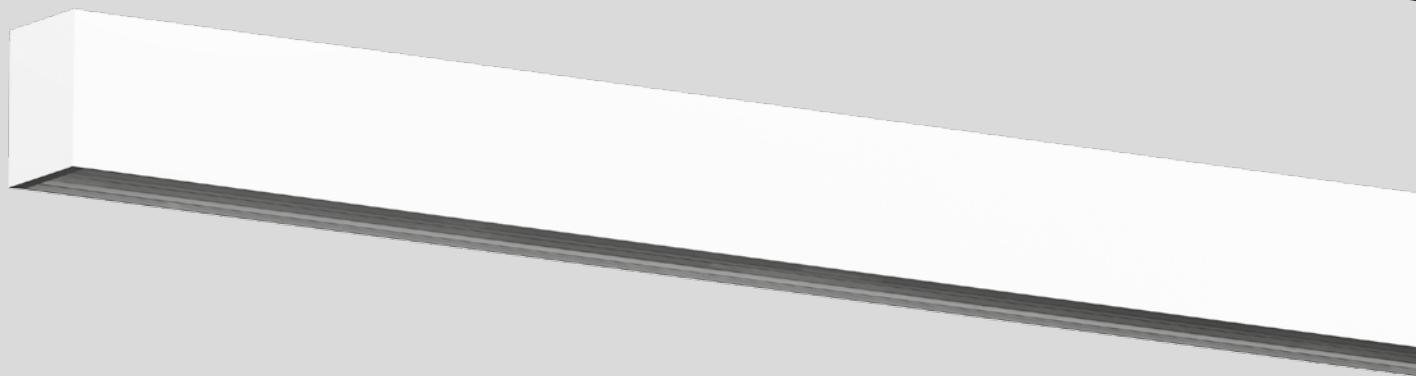


PROFILES 60

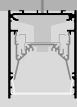
MINO 60 CEILING + MINO 60 SUSPENDED /
STILO 60 SUSPENDED



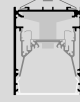
max. 2000 mm



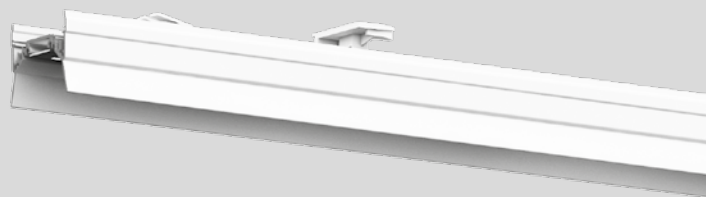
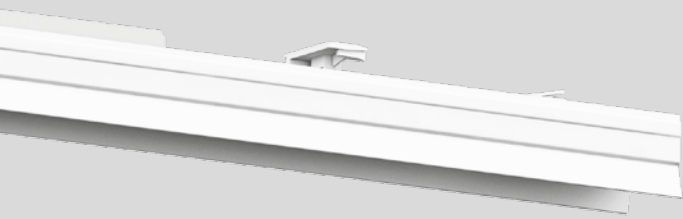
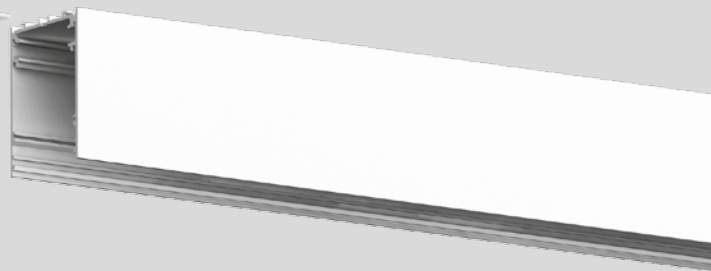
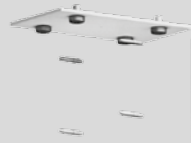
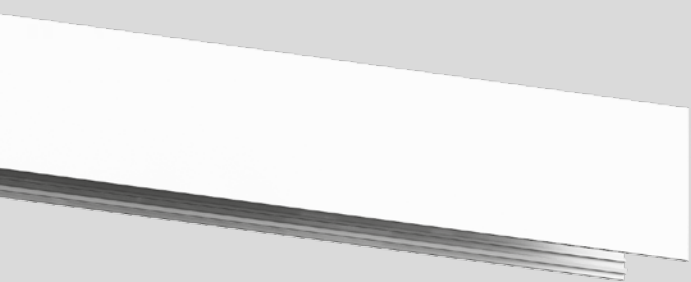
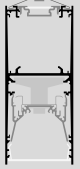
**MINO 60
CEILING**



**MINO 60
SUSPENDED**

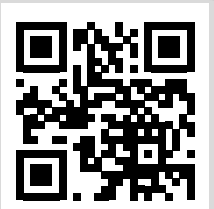


**STILO 60
SUSPENDED**



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systems.xal.com

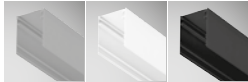


PROFILES 60

MINO 60 CEILING + MINO 60 SUSPENDED

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in kantiger Ausführung mit 55 mm breitem Lichtaustritt, lichtdicht abschließende Enddeckel aus Aluminium ohne sichtbare Schrauben, Oberfläche weiß bzw. schwarz pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme

EN Luminaire housing from extruded aluminium profile in angular design with 55 mm wide light exit, light-tight end cap closure in aluminium without visible screws, surface powder coated in white or black or natural aluminium anodised finish, designed for continuous lighting systems

PROFILE 60 CURVE

[page 410](#)



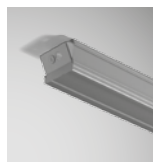
PROFILES 60 INSETS

[page 404](#)



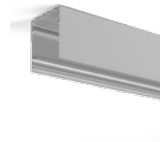
CONCRETE HOUSING

[page 482](#)



INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	034 - 0065
872	034 - 0095
1172	034 - 0125
1472	034 - 0155
2344	034 - 0255
3000	034 - 0305
custom cut	E85030



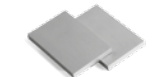
BLIND COVER

L (mm)	ORDER CODE
572	006 - 1806
872	006 - 1809
1172	006 - 1812
1472	006 - 1815
2344	006 - 1824
3000	006 - 1830
custom cut	E80630



END CAPS (pair)

TYPE	ORDER CODE
end caps	034 - 1304



LINEAR CONNECTOR

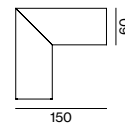
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40046
linear connector (10 pieces)	005 - 40046 . 10
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CORNER CONNECTOR 90°

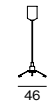
TYPE	ORDER CODE
blind cover	034 - 1264
opal high performance	034 - 1264 H
microprismatic	034 - 1264 P

X- and T-connector on request



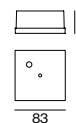
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	034 - 11526
cable suspension	4000	034 - 11626
ceiling clip	10	034 - 11636



POWER FEEDER (suspension only)

TYPE	L (mm)	ORDER CODE
3x1,5 mm ²	2000	005 - 3262
5x1,5 mm ²	2000	005 - 3263
3x1,5 mm ²	4000	005 - 3264
5x1,5 mm ²	4000	005 - 3265



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

10 pieces per pack



PROFILES 60 STILO 60 SUSPENDED

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



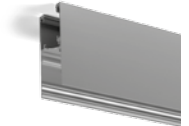
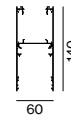
Description

DE Abgehängter Leuchtenkörper aus Aluminiumprofil in kantiger Ausführung mit 55mm breitem Lichtaustritt, lichtdicht abschließende Enddeckel aus Aluminium ohne sichtbare Schrauben, Oberfläche weiß oder bzw. schwarz pulverbeschichtet oder Aluminium Natur eloxiert, für durchgehende Lichtsysteme, optional indirektstrahlend

EN Pendant luminaire housing from aluminium profile in angular design with 55mm wide light exit, light-tight end caps in aluminium without visible screws, surface powder coated in white or black or natural aluminium anodised finish, for continuous lighting systems, optionally with indirect radiation

INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	032 - 0061
872	032 - 0091
1172	032 - 0121
1472	032 - 0151
2344	032 - 0251
3000	032 - 0301
custom cut	E 85 130



BLIND COVER

L (mm)	ORDER CODE
572	006 - 1806
872	006 - 1809
1172	006 - 1812
1472	006 - 1815
2344	006 - 1824
3000	006 - 1830
custom cut	E 80 630



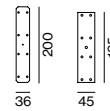
END CAPS (pair)

TYPE	ORDER CODE
end caps	032 - 1301



LINEAR CONNECTOR

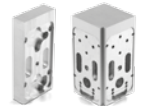
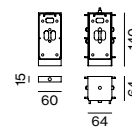
TYPE	ORDER CODE
linear connector (1 piece)	032 - 12136
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CONNECTOR

TYPE	ORDER CODE
visible linear connector	032 - 1201
90° corner	032 - 1261
T-connector	032 - 1321

X-connector on request



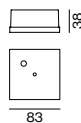
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	032 - 10536
cable suspension	4000	032 - 10636



POWER FEEDER (suspension only)

TYPE	L (mm)	ORDER CODE
3 x 1,5 mm ²	2000	005 - 3262
5 x 1,5 mm ²	2000	005 - 3263
3 x 1,5 mm ²	4000	005 - 3264
5 x 1,5 mm ²	4000	005 - 3265



INSETS 60 DIRECT

page 404



INSETS 40 INDIRECT

page 376



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

10 pieces per pack



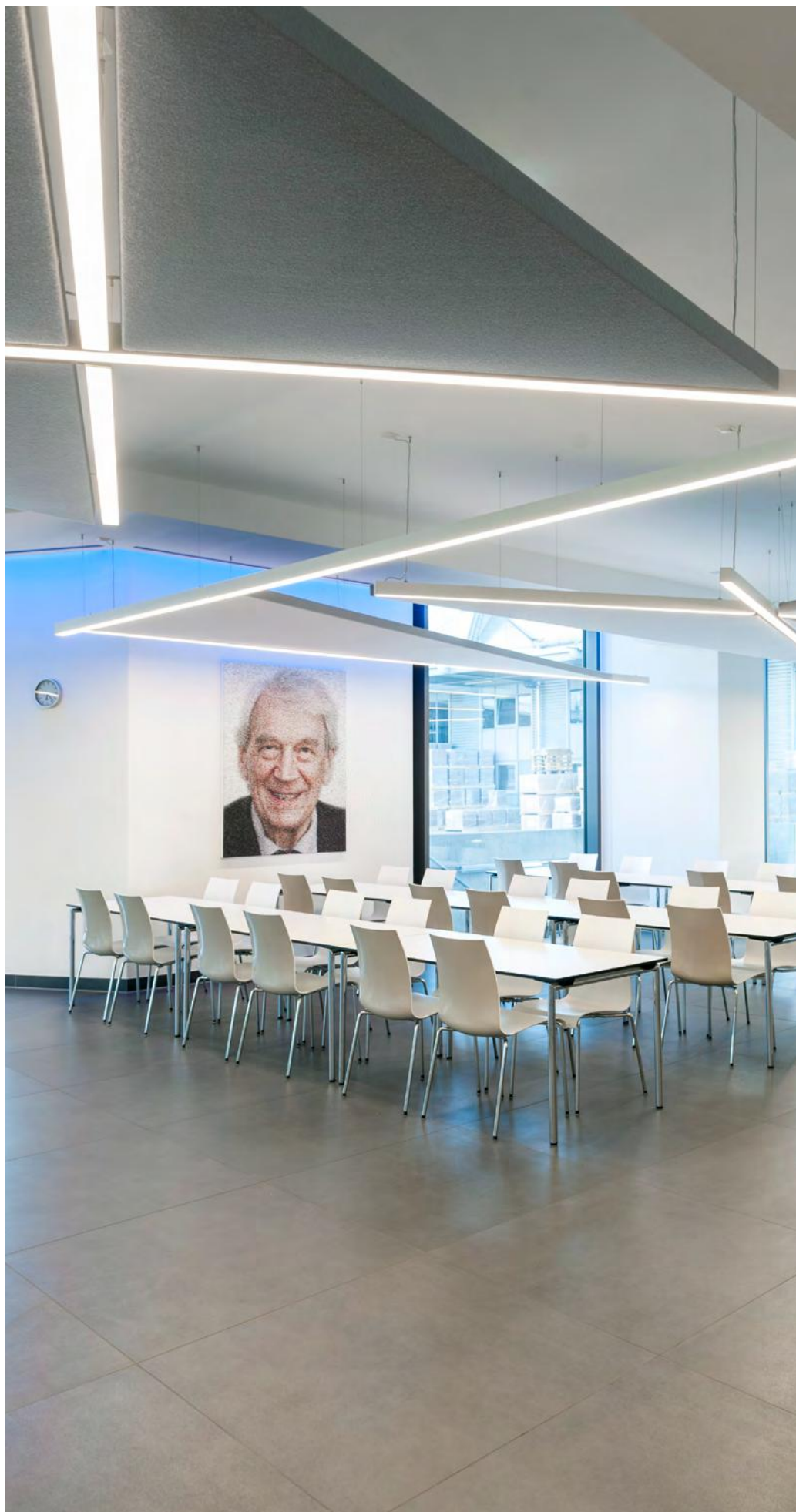
Inspiration

Bauer Group
Geretsried, Germany

SOLUTION
MINO 60

ARCHITECT
designfunktion
Munich, Germany





INSET 60

Order options

COLOUR TEMPERATURE	••
3000K	5
4000K	6

CONTROL	◆
non DIM	1
DIM DALI	3

EMERGENCY	●
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3

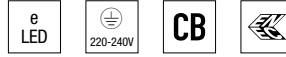
Description

DE Inset aus hochreflektierend lackiertem Aluminiumprofil, bauseits kürzbare Variante für flexible Anwendungen

EN Inset consisting of highly reflective coated aluminium profile, can be individually shortened on site for flexible use



INSET 60 e LED non DIM



STANDARD

SYSTEM POWER	L (mm)	ORDER CODE
9 W	572	007 - 9322 : 17
14 W	872	007 - 9323 : 17
18 W	1172	007 - 9324 : 17
23 W	1464	007 - 9325 : 17
37 W	2344	007 - 9328 : 17
46 W	2926	007 - 9329 : 17
18 W	1172	007 - 9324 : 17 ●
23 W	1464	007 - 9325 : 17 ●



FLEXIBLE

SYSTEM POWER	L (mm)	ORDER CODE
18 W	660-1172	007 - 932 F : 17

flexible inset can be cut every 73 mm to make total lengths from 660 up to 1172 mm



INSET 60 e² LED



STANDARD

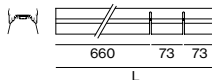
SYSTEM POWER	L (mm)	ORDER CODE
14 W	572	007 - 9332 : 7
20 W	872	007 - 9333 : 7
27 W	1172	007 - 9334 : 7
34 W	1464	007 - 9335 : 7
54 W	2344	007 - 9338 : 7
68 W	2926	007 - 9339 : 7
27 W	1172	007 - 9334 : 7 ●
34 W	1464	007 - 9335 : 7 ●



FLEXIBLE

SYSTEM POWER	L (mm)	ORDER CODE
27 W	660-1172	007 - 933 F : 7

flexible inset can be cut every 73 mm to make total lengths from 660 up to 1172 mm

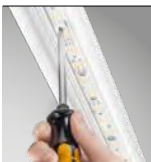


TUNABLE WHITE 3000-6000K / DIM DALI (2 Addr.)

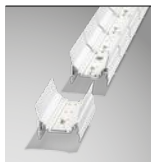
SYSTEM POWER	L (mm)	ORDER CODE
20 W	872	007 - 9333037
27 W	1172	007 - 9334037
34 W	1464	007 - 9335037
54 W	2344	007 - 9338037
68 W	2926	007 - 9339037



Features



quick lock



flex insets can be shortened

COVER 60

Description

DE HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; durch spezielle Materialzusammensetzung mit erhöhter Transmission und Diffusion; wahlweise mit mikrop-rismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte

EN HPO (High Performance Opal) cover for uniform illumination through special material composition, with increased transmission and diffusion, also available with microprismatic PMMA cover for reducing luminance



COVER 60 OPAL

PMMA

L (mm)

570
870
1170
1470
2342
2997
custom cut

ORDER CODE

006 - 14063
006 - 14093
006 - 14123
006 - 14153
006 - 14233
006 - 14303
E80630 ····0H



COVER 60 MICROPRISMATIC

PMMA

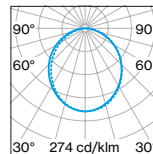
L (mm)

570
870
1170
1470
2342
2997
custom cut

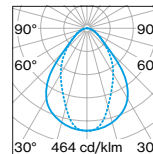
ORDER CODE

006 - 16062
006 - 16092
006 - 16122
006 - 16152
006 - 16232
006 - 16302
E80630 ····0P

Light distribution



Opal
direct
LOR 71%



Microprismatic
direct
LOR 69%

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
PROFILE 60 opal cover	e LED	16 W/m	3000 K	1577 lm/m	71%	101 lm/W
			4000 K	1652 lm/m	71%	106 lm/W
	e ² LED	23 W/m	3000 K	2326 lm/m	71%	100 lm/W
			4000 K	2437 lm/m	71%	105 lm/W
PROFILE 60 microprismatic cover	e LED	16 W/m	3000 K	1539 lm/m	69%	99 lm/W
			4000 K	1612 lm/m	69%	103 lm/W
	e ² LED	23 W/m	3000 K	2270 lm/m	69%	98 lm/W
			4000 K	2378 lm/m	69%	102 lm/W

for CANYON and CANYON FRAME subtract 15% (white profile) or 50% (black profile) lumen output

INSET 60 IP65

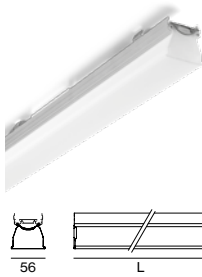
Order options

OPTIC	
opal high performance	H
microprismatic	P

Description

DE Vergossene LED Platine, in geschlossenes Gehäuse aus PMMA eingeschoben, Enddeckel aus PMMA dicht mit Gehäuse verklebt, PMMA wahlweise satiniert für homogene Ausleuchtung, oder mit mikroprismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte

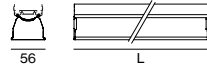
EN Encapsulated LED circuit board, inserted in closed housing made of PMMA, PMMA end caps bonded sealed to housing, PMMA optionally satinised for uniform illumination or with microprismatic PMMA cover for reducing luminance



INSET 60 IP65 e LED, 3400K



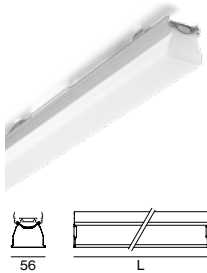
SYSTEM POWER	L (mm)	ORDER CODE
9 W	572	807 - 9522517 □
14 W	872	807 - 9523517 □
18 W	1172	807 - 9524517 □



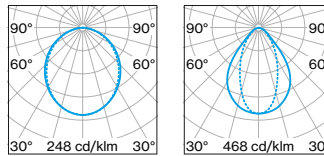
INSET 60 IP65 e² LED, 3400K



SYSTEM POWER	L (mm)	ORDER CODE
14 W	572	807 - 9532517 □
20 W	872	807 - 9533517 □
27 W	1172	807 - 9534517 □



Light distribution



Opal
direct
LOR 64%

Microprismatic
direct
LOR 61%

Electrical accessories

POWER FEEDER / PROTECTION CAP

TYPE	L (mm)	ORDER CODE
power feeder 3x1,5mm ²	2000	007 - 9982010
power feeder 3x1,5mm ²	4000	007 - 9984010
protection cap		007 - 9989110



INSET 60 WALLWASHER

Order options

COLOUR TEMPERATURE	
3000 K	5
4000 K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR

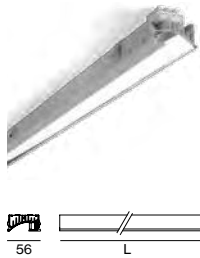
anodised aluminium



Description

DE Inset mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken, Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar

EN Inset with specially computed, asymmetrical reflector for homogeneous vertical lighting intensity, reflector in matt anodised pure aluminium, installation without tools

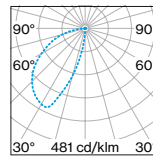


INSET 60 WALLWASHER e² LED



SYSTEM POWER	L (mm)	ORDER CODE
12 W	572	007 - 9042 : 6
18 W	872	007 - 9043 : 6
24 W	1172	007 - 9044 : 6
30 W	1472	007 - 9045 : 6

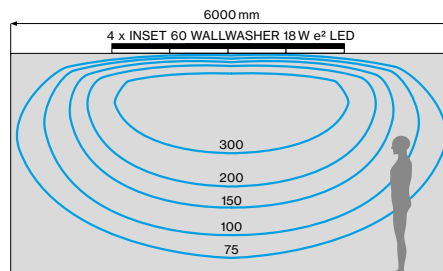
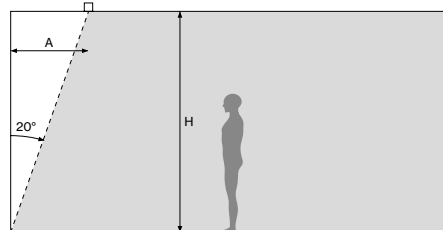
Light distribution



Asymmetric

direct
LOR 58 %

Technical data



ROOM DIMENSIONS

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Em (lx)	E _{max} (lx)
191	566
173	501
145	404

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
PROFILE 60 IP65 opal cover	e LED	16 W/m	3400 K	1577 lm/m	71%	101 lm/W
	e ² LED	23 W/m	3400 K	2326 lm/m	71%	100 lm/W
PROFILE 60 IP65 microprismatic cover	e LED	16 W/m	3400 K	1539 lm/m	69%	99 lm/W
	e ² LED	23 W/m	3400 K	2270 lm/m	69%	98 lm/W
PROFILE 60 WALLWASHER	e ² LED	21 W/m	3000 K	1236 lm/m	58%	60 lm/W
			4000 K	1236 lm/m	58%	60 lm/W

INSET 60 JUST + DOT

Order options

COLOUR TEMPERATURE	☼☼
3000K	5
4000K	6

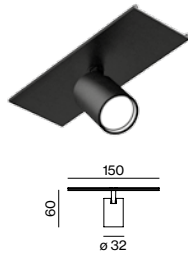
MATERIAL COLOUR	☑
anodised aluminium	6
white	7
black	8

LED LENS	▲
spot 19°	S
medium 27°	M
flood 42°	F

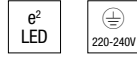
Description

DE Inset mit Strahlerkopf aus Aluminium, 352° dreh- und 90° schwenkbar, passiv gekühlt, inkl. Konverter

EN Inset with spotlight head made of aluminium, rotatable 352° and tiltable 90°, passive cooling, incl. converter



INSET 60 JUST 32



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
1 × 3,5W	3000K	300lm	150	0 0 7 - 9 6 2 1 ☼☼ 1 ☑▲
	4000K	330lm		

Light distribution

spot 19°			LOR 85%			medium 27°			LOR 84%			flood 42°			LOR 91%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1747	ø 0,34	1	918	ø 0,48	1	560	ø 0,77	1	140	ø 1,54	1	22	ø 3,86			
2	437	ø 0,68	2	229	ø 0,97	2	62	ø 2,32	2	35	ø 3,09						
3	194	ø 1,03	3	102	ø 1,45	3	22	ø 3,86									
4	109	ø 1,37	4	57	ø 1,94												
5	70	ø 1,71	5	37	ø 2,42												

Optical accessories

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	30-4	0 0 7 - 1 9 6 5 1 6 8
elliptical sculpture foil	30-4	0 0 7 - 1 9 6 5 2 6 0
snoot	30-15	0 0 7 - 1 9 6 5 3 6 8
colour filter (red, blue, green, etc.)	30-4	on request

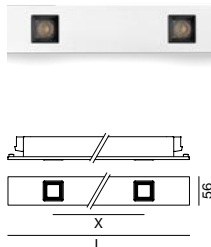
use only 1 optical accessory

Order options

COLOUR TEMPERATURE	☼☼
3000K	5
4000K	6

CONTROL	◆
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑
anodised aluminium	6
white	7
black	8

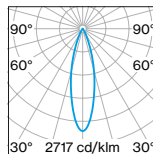


INSET 60 DOT



SYS. POWER	COLOUR TEMP.	LUM. FLUX	x · L (mm)	ORDER CODE
1 × 2,3W	3000K	120lm	150	0 0 7 - 9 8 0 0 ☼☼ 1 ☑M
	4000K	120lm		
2 × 2,3W	3000K	250lm	150-300	0 0 7 - 9 8 0 1 ☼☼ 1 ☑M
	4000K	250lm		
2 × 2,3W	3000K	250lm	195-300	0 0 7 - 9 8 0 2 ☼☼ 1 ☑M
	4000K	250lm		
6 × 2,3W	3000K	750lm	195-1171	0 0 7 - 9 8 0 5 ☼☼ ◆ ☑M
	4000K	750lm		

Light distribution



Medium 26°
direct
LOR 70%

Description

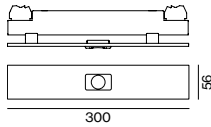
DE Inset mit zurückversetzten Einzellichtpunkten, optimale Entblendung durch schwarzen Stufenreflektor

EN Inset with recessed single light points, optimum glare-free lighting by black layered reflector

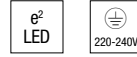
INSET 60 EMERGENCY

Order options

COLOUR	
anodised aluminium	6
white	7
black	8

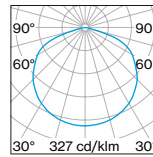


INSET 60 EMERGENCY

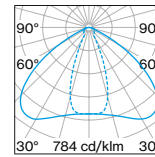


SYSTEM POWER	LUM. FLUX	L (mm)	ORDER CODE
1,2W symmetric	100 lm	300	0 14 - 0 0 0 1 <input checked="" type="checkbox"/> NL 3
1,2W asymmetric	120 lm	300	0 14 - 0 0 1 1 <input checked="" type="checkbox"/> NL 3

Light distribution



Symmetric
direct



Asymmetric
direct

Description

DE Inset mit einzelner LED Lichtpunkt, inklusive hochwertiger Linsenoptik mit symmetrischer oder asymmetrischer Lichtverteilung, ausgelegt als Sicherheitsbeleuchtung, inkl. Notlichtbaustein mit Selbstüberwachung und Akku

EN Inset with single LED light point, incl. high quality lens system with symmetrical or asymmetrical light distribution, designed as security lighting, incl. emergency light element with self test and battery

PROFILES 60 CURVE

MINIMAL 60 / FRAME 80 / MINO 60

Order options

TYPE	
MINIMAL 60	6
FRAME 80	5
MINO 60	4

COLOUR TEMPERATURE	
3000 K	5
4000 K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black (only for MINO 60)	8

LIGHT OPTIC COVER	
opal high performance	H
microprismatic	P

Description

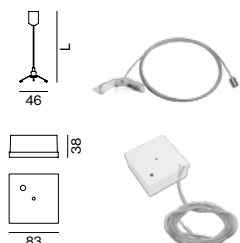
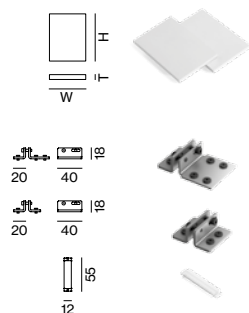
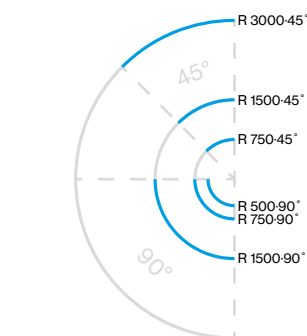
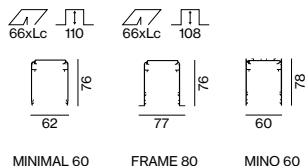
DE Kreissegment aus gerolltem Aluminiumprofil, pulverbeschichtet, nahtlos verschweißt, Inset aus hochreflektierend lackiertem Aluminiumdruckguss, HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung oder mikroprismatische PMMA Abdeckung zur Reduktion der Leuchtdichte

EN Circular segment from rolled aluminium profile, powder coated, seamlessly welded, inset consisting of highly reflective coated die-cast aluminium, HPO (High Performance Opal) cover for uniform illumination or microprismatic PMMA cover for reducing luminance

Order options

PIECE	
1 piece	
10 pieces	10

Example: **034-0901010** (1 piece)
034-0901010.10 (10 pieces)



PROFILE 60 CURVE e LED, non DIM



SYSTEM POWER	R (mm)	ORDER CODE
11 W	500-90°	03 11 - 09 45 :: 1
9 W	750-45°	03 11 - 09 40 :: 1
18 W	750-90°	03 11 - 09 41 :: 1
18 W	1500-45°	03 11 - 09 42 :: 1
36 W (2 DALI)	1500-90°	03 11 - 09 43 :: 1
36 W (2 DALI)	3000-45°	03 11 - 09 44 :: 1

PROFILE 60 CURVE e² LED

SYSTEM POWER	R (mm)	ORDER CODE
16 W	500-90°	03 11 - 09 55 :: 1
13 W	750-45°	03 11 - 09 50 :: 1
26 W	750-90°	03 11 - 09 51 :: 1
26 W	1500-45°	03 11 - 09 52 :: 1
52 W (2 DALI)	1500-90°	03 11 - 09 53 :: 1
52 W (2 DALI)	3000-45°	03 11 - 09 54 :: 1

Accessories

END CAPS (pair)

TYPE	W x H (mm)	ORDER CODE
MINIMAL 60	62-76-2	036 - 13047
FRAME 80	80-78-12	035 - 13137
MINO 60	60-78-8	034 - 13047

LINEAR CONNECTOR

TYPE	ORDER CODE
linear to curve profile	005 - 40157
curve to curve profile	005 - 40156
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000

10 pieces per pack on request

INSTALLATION TEMPLATE

TYPE	ORDER CODE
500 / 90°	034 - 0901310
750 / 90° (2x45°)	034 - 0901010
1500 / 45°	034 - 0901110
3000 / 22,5°	034 - 0901210

THROUGH WIRE

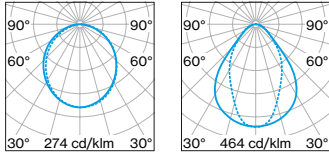
TYPE	ORDER CODE
3x1,5mm²	004 - 90003
5x1,5mm²	004 - 90005

10 pieces per pack

MINO 60 MOUNTING / POWER FEEDER FOR SUSPENSION

TYPE	L (mm)	ORDER CODE
cable suspension	2000	034 - 11526
cable suspension	4000	034 - 11626
ceiling clip	10	034 - 11636
power feeder 3x1,5mm²	2000	005 - 3262
power feeder 5x1,5mm²	2000	005 - 3263
power feeder 3x1,5mm²	4000	005 - 3264
power feeder 5x1,5mm²	4000	005 - 3265

Light distribution



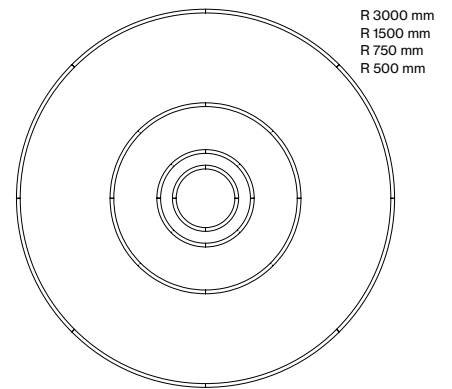
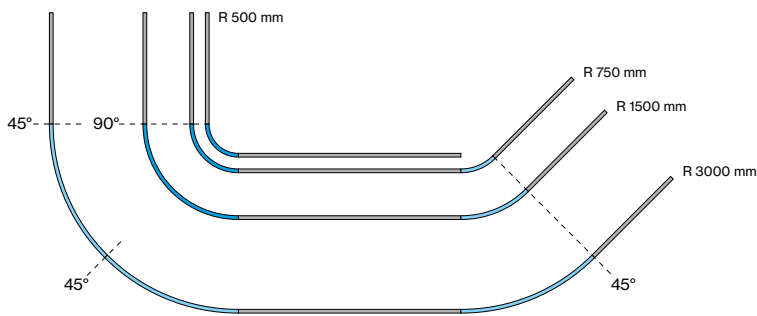
Opal
direct
LOR 72%

Microprismatic
direct
LOR 71%

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
CURVE 60 / 80 opal cover	e LED	18 W/m	3000K	1577 lm/m	72%	168 lm/W
	e ² LED	27 W/m	4000K	1652 lm/m	72%	176 lm/W
CURVE 60 / 80 microprismatic cover	e LED	18 W/m	3000K	2326 lm/m	72%	166 lm/W
	e ² LED	27 W/m	4000K	2437 lm/m	72%	174 lm/W
	e LED	18 W/m	3000K	1539 lm/m	71%	168 lm/W
	e ² LED	27 W/m	4000K	1612 lm/m	71%	176 lm/W
	e LED	18 W/m	3000K	2270 lm/m	71%	166 lm/W
	e ² LED	27 W/m	4000K	2378 lm/m	71%	174 lm/W

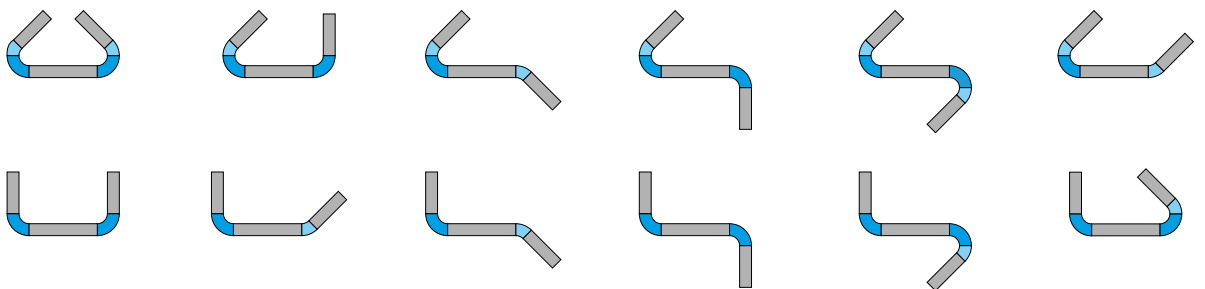
Configuration



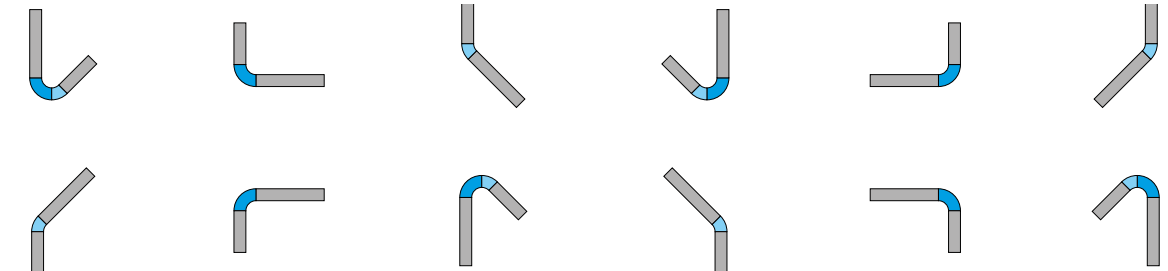
radius measured at the centre of the profile

Examples of possible Forms

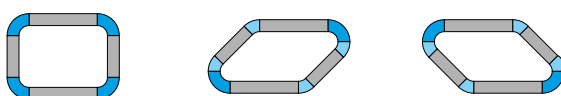
U & Z
FORMS



L
FORMS



O
FORMS



CURVE 90°
CURVE 45°
LINEAR

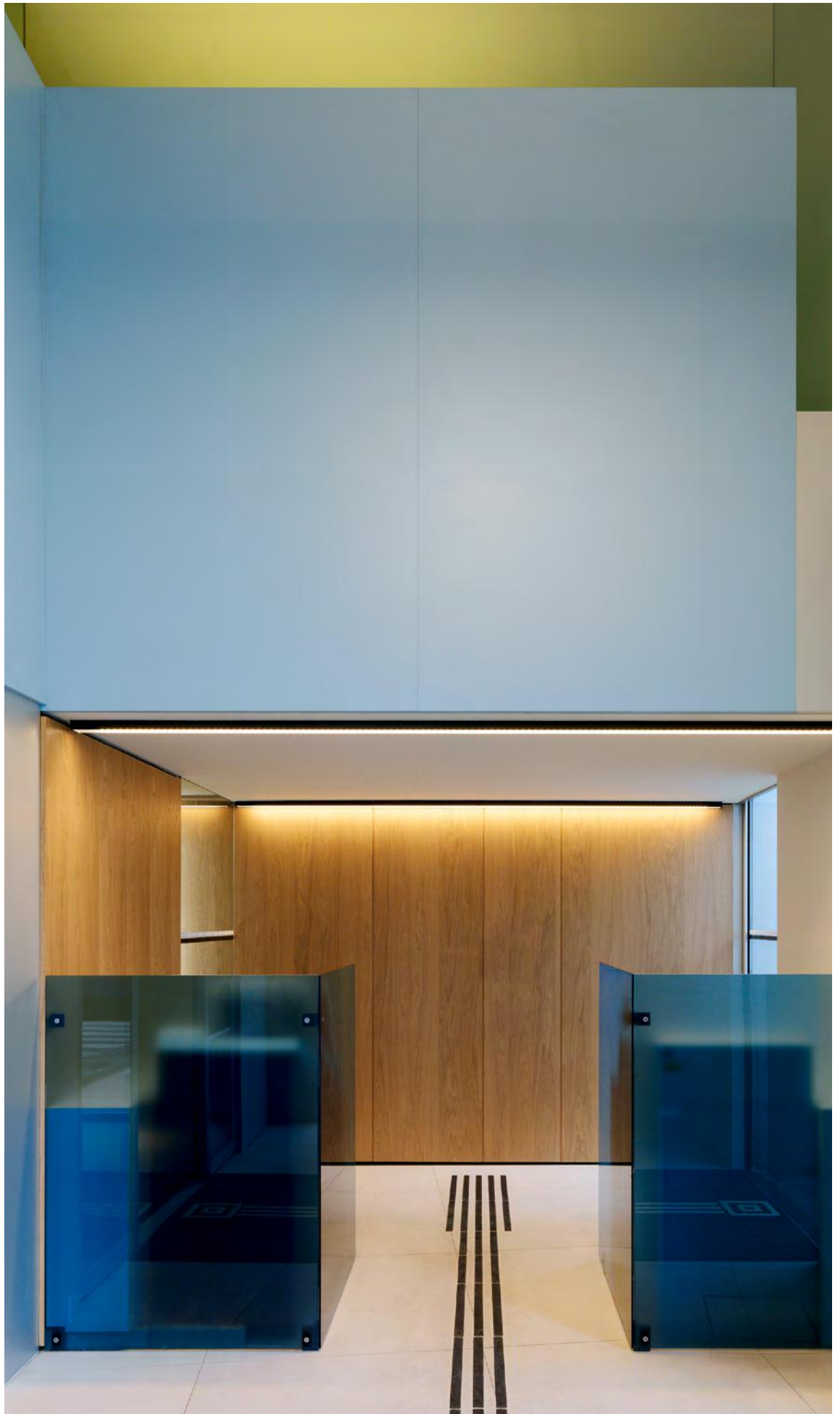
Inspiration

Erste Bank Group
Vienna, Austria

SOLUTION
MINO 60 CURVE
MINO 100 SURFACE

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria





PROFILES 100

CHANNEL

MINIMAL 100

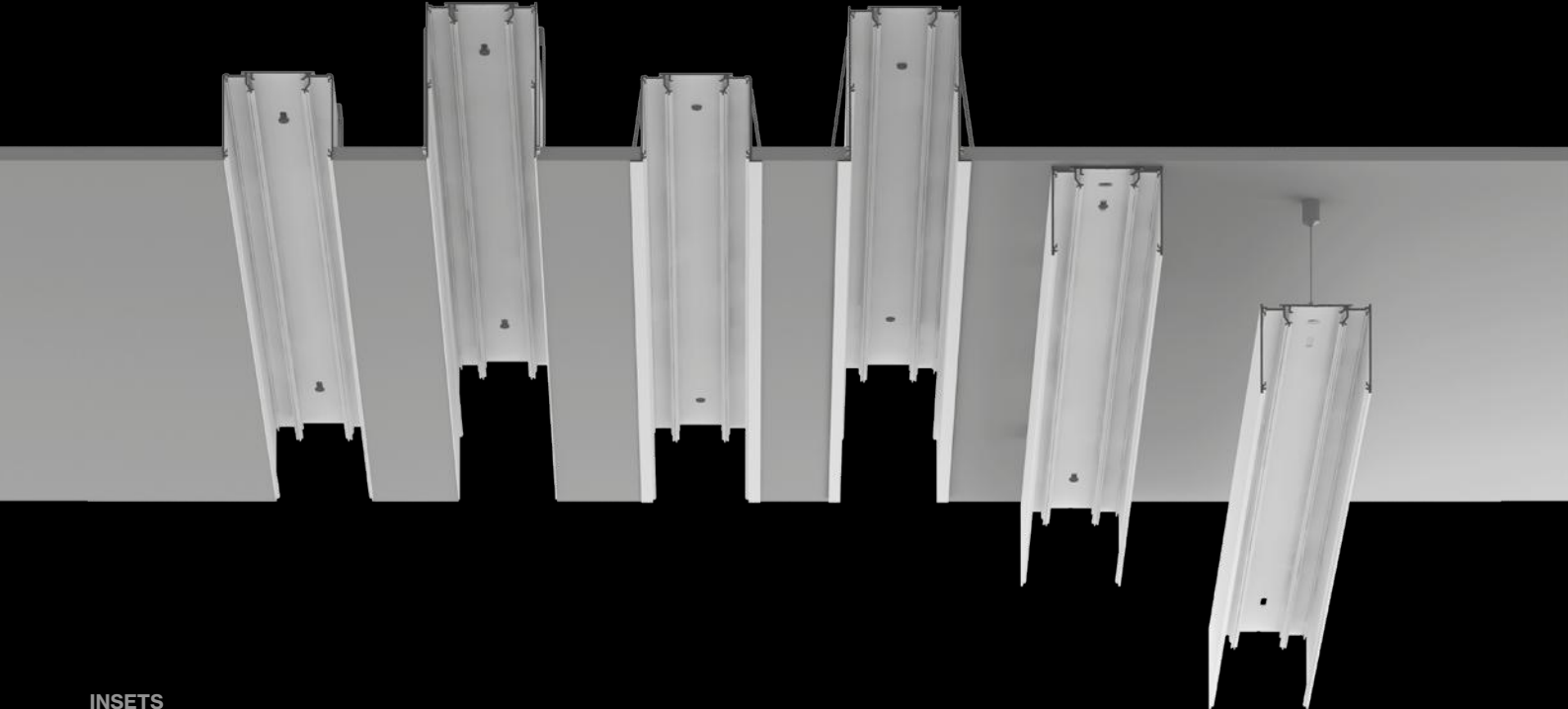
CANYON 100

FRAME 120

CANYON FRAME 120

MINO 100
CEILING

MINO 100
SUSPENDED



INSETS

e / e²
e² TUNABLE WHITE

e / e² FLEXIBLE

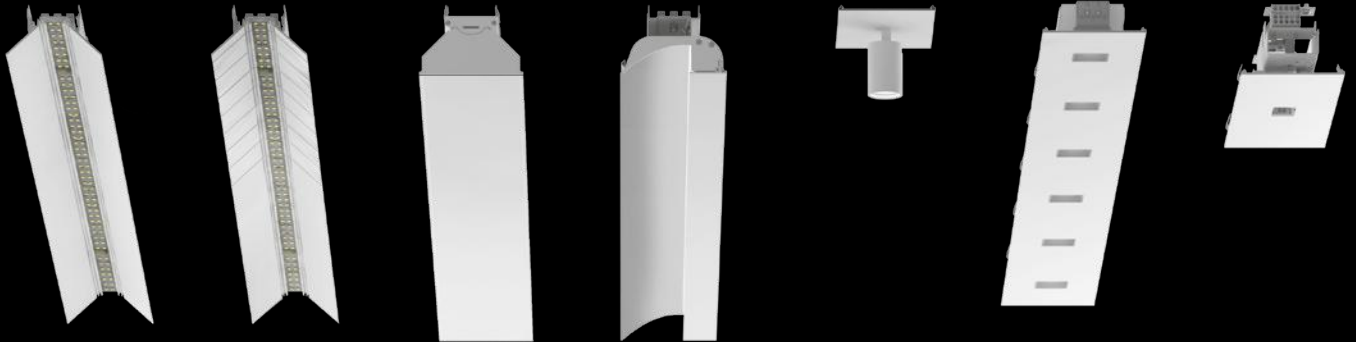
IP 65

WALLWASHER

JUST 32

DOT

EMERGENCY



COVERS

OPAL HIGH PERFORMANCE

MICROPRISMATIC

BLIND COVER



Overview

	MINIMAL 100	CANYON 100	FRAME 120	CANYON FRAME 120	MINO 100
INSET					
e LED
e ² LED
e LED FLEXIBLE
e ² LED FLEXIBLE
e ² LED TUNABLE WHITE
COVER					
OPAL HIGH PERFORMANCE
MICROPRISMATIC
BLIND COVER
INSET IP65					
e LED
e ² LED
INSET WALLWASHER					
e ² LED
INSET JUST 32					
e ² LED
INSET DOT					
e ² LED
INSET LED EMERGENCY / 3H					
symmetric
asymmetric

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 95 mm breitem Lichtaustritt; ausgelegt für durchgehende Lichtsysteme; hohe Variantenvielfalt für projektspezifische Anforderungen: wahlweise für aufgebaute oder abgehängte Variante; oder als Einbauvariante (randlos oder mit umlaufendem Rand) mit deckenbündiger oder zurückversetzte Leuchtenebene; Oberfläche Aluminium Natur eloxiert oder weiß bzw. schwarz pulverbeschichtet; wahlweise mit verschiedenen Lichteinsätzen; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Luminaire housing from extruded aluminium profile with 95 mm wide light exit; designed for continuous lighting systems; large range of versions for specific project requirements: either flush mounted or pendant versions; or as recessed version (trimless or with trim) with flush or recessed lighting level; surface with natural anodised aluminium finish or powder coated in white or black; optionally with different light insets; binning <3 step MacAdam; available in the light colours 3000K and 4000K or tunable white; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP 20; PC I; optional DALI dimmable

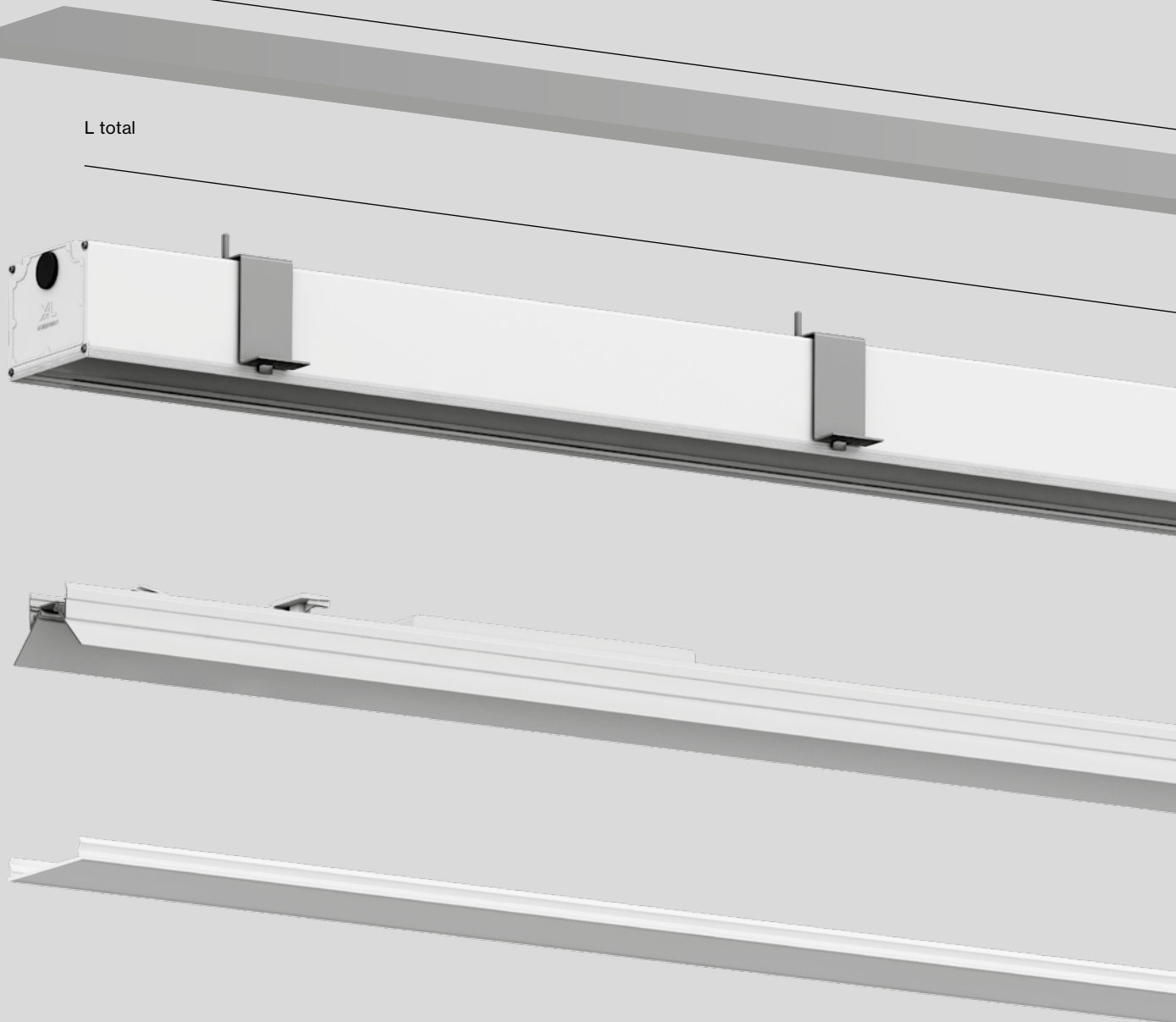
PROFILES 100

MINIMAL 100 / CANYON 100 SYSTEM

W cutout

L cutout (Lc)

L total



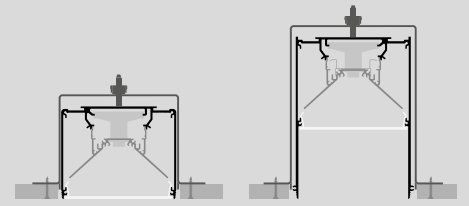
L total = L + L + L + ... + end caps

MINIMAL 100 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 5 mm	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm
W cutout = 106 mm							

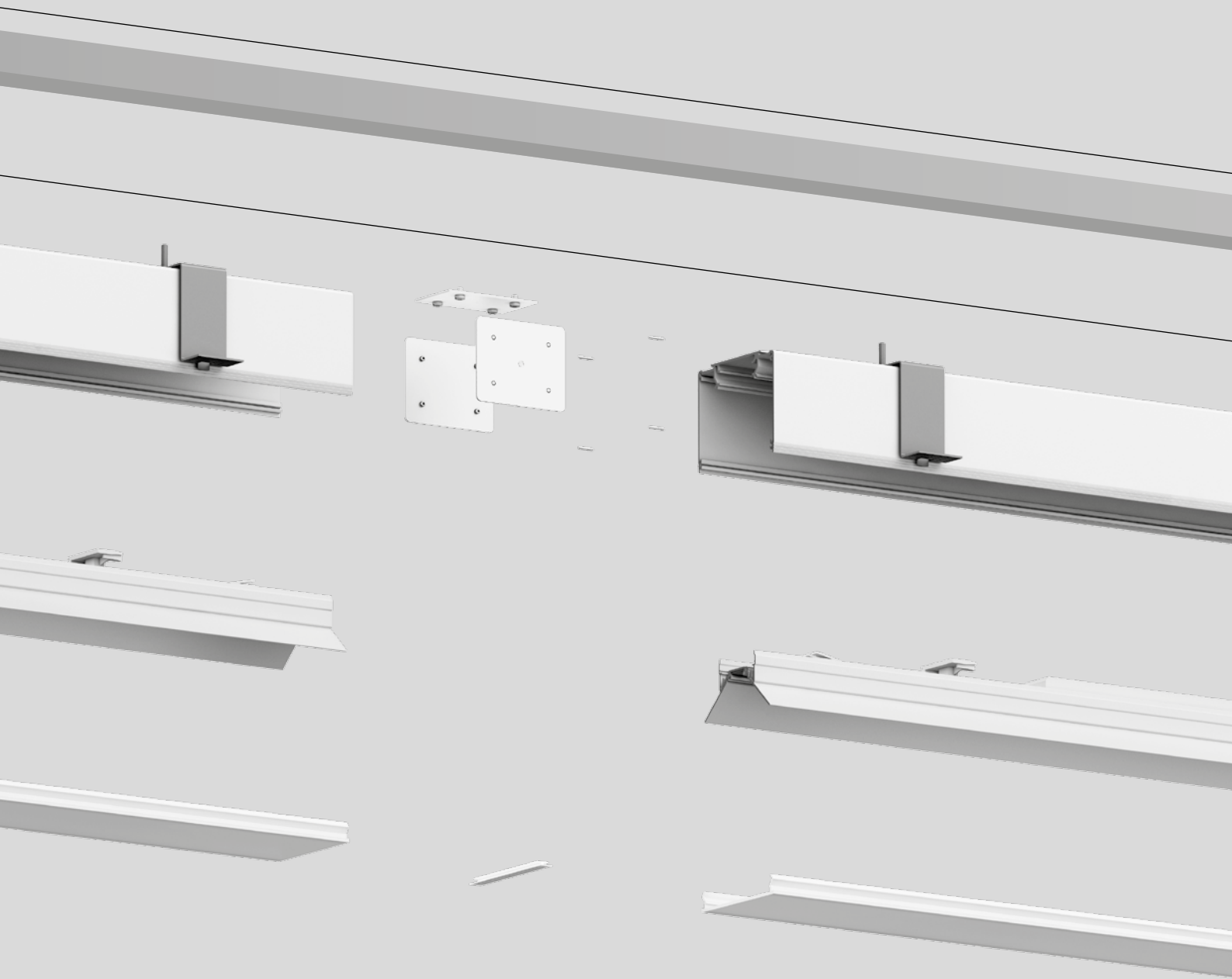
CANYON 100 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm	L total + 19 mm
W cutout = 112 mm							



MINIMAL 100

CANYON 100



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



PROFILES 100 MINIMAL 100 SYSTEM

MATERIAL COLOUR

white only

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 95 mm breitem Lichtaustritt, geeignet für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse, Oberfläche weiß pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 95 mm wide light exit, suitable for trimless installation in plasterboard ceilings, special edge design with grooves for better adhesion of filler, surface powder coated in white, designed for continuous lighting systems, 90° angle connectors for flexible system design

INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	036 - 00667
872	036 - 00967
1172	036 - 01267
1472	036 - 01567
2344	036 - 02567
3000	036 - 03067
custom cut	E 82050 7



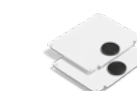
BLIND COVER

L (mm)	ORDER CODE
572	006 - 11067
872	006 - 11097
1172	006 - 11127
1472	006 - 11157
2344	006 - 11247
3000	006 - 11307
custom cut	E 80650 7 B



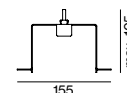
END CAPS (pair)

TYPE	ORDER CODE
end caps	036 - 13067



MOUNTING BRACKET 8-25mm

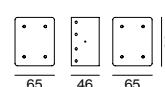
TYPE	ORDER CODE
1 piece	036 - 10300
25 pieces	036 - 10300 . 25



number of brackets required: length of your system in metres+1

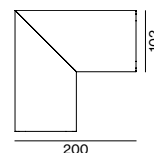
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005 - 40066
linear connector (10 pieces)	005 - 40066 . 10
opal cover linear connector	006 - 10000
clear cover linear connector	006 - 12000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	036 - 12667
opal high performance	036 - 12667H
microprismatic	036 - 12667P



maximum length of 10m per leg. X- and T-connector on request

THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005



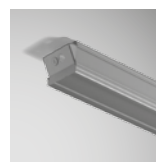
10 pieces per pack

PROFILES 100 INSETS

[page 432](#)

CONCRETE HOUSING

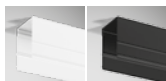
[page 482](#)



PROFILES 100 CANYON 100 SYSTEM

Order options

MATERIAL COLOUR	
white	7
black	8



Description

DE Leuchtenkörper aus Aluminiumprofil mit 95 mm breitem Lichtaustritt, zurückversetzte Leuchtenebene, für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse, Oberfläche weiß oder schwarz, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing made of aluminium profile with 95 mm wide light exit, recessed lighting level, for trimless installation in plasterboard ceilings, special edge design with grooves for better adhesion of filler, surface white or black, for continuous lighting systems, 90° angle connectors for flexible system design

Features



ball-impact-resistant
(DIN 57710-13)

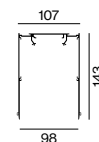
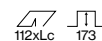
PROFILES 100 INSETS

[page 432](#)



INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	038 - 5065
872	038 - 5095
1172	038 - 5125
1472	038 - 5155
2344	038 - 5255
3000	038 - 5305
custom cut	E 8 2 2 5 0



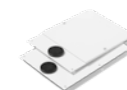
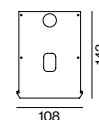
BLIND COVER

L (mm)	ORDER CODE
572	006 - 1106
872	006 - 1109
1172	006 - 1112
1472	006 - 1115
2344	006 - 1124
3000	006 - 1130
custom cut	E 8 0 6 5 0 B



END CAPS (pair)

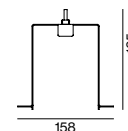
TYPE	ORDER CODE
white	038 - 63067
black	038 - 63068



MOUNTING BRACKET 8-25 mm

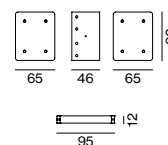
TYPE	ORDER CODE
1 piece	038 - 60300
25 pieces	038 - 60300 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

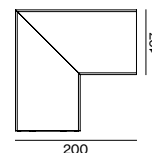
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40286
linear connector (10 pieces)	005 - 40286 . 10
opal cover linear connector	006 - 10000
clear cover linear connector	006 - 12000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
opal high performance	038 - 6266 H
microprismatic	038 - 6266 P

maximum length of 10 m per leg. X- and T-connector on request



THROUGH WIRE

TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack



Inspiration

SNS Headquarters
Moscow, Russia

SOLUTION
CANYON 100

ARCHITECT
ABD Architects
Moscow, Russia

LIGHTING DESIGN
Light & Design
Moscow, Russia





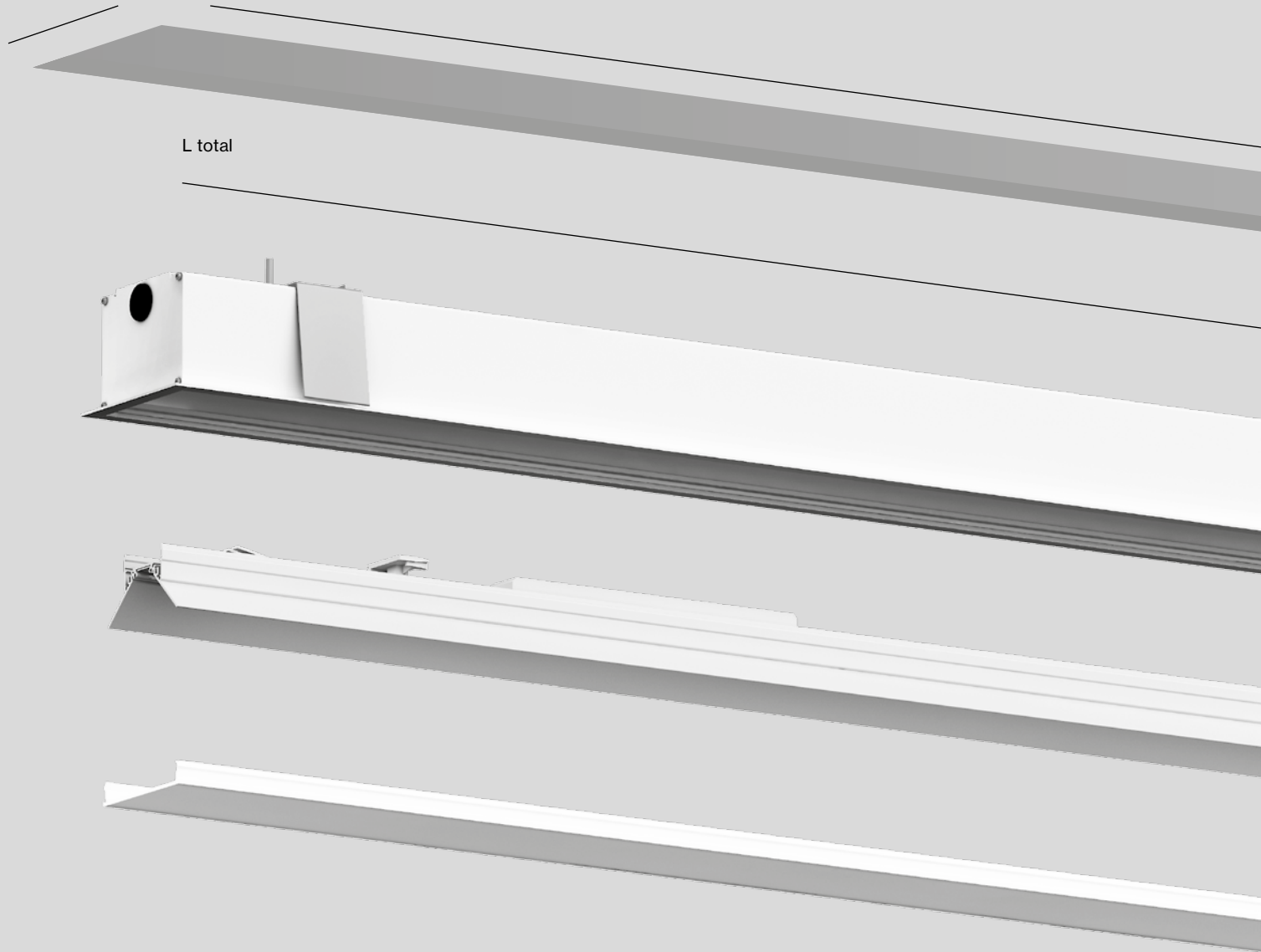
PROFILES 100

FRAME 120 / CANYON FRAME 120 SYSTEM

W cutout

L cutout (Lc)

L total



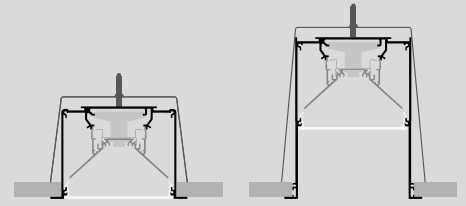
L total = L + L + L + ... + end caps

FRAME 120 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm	L total + 19 mm
W cutout = 108 mm							

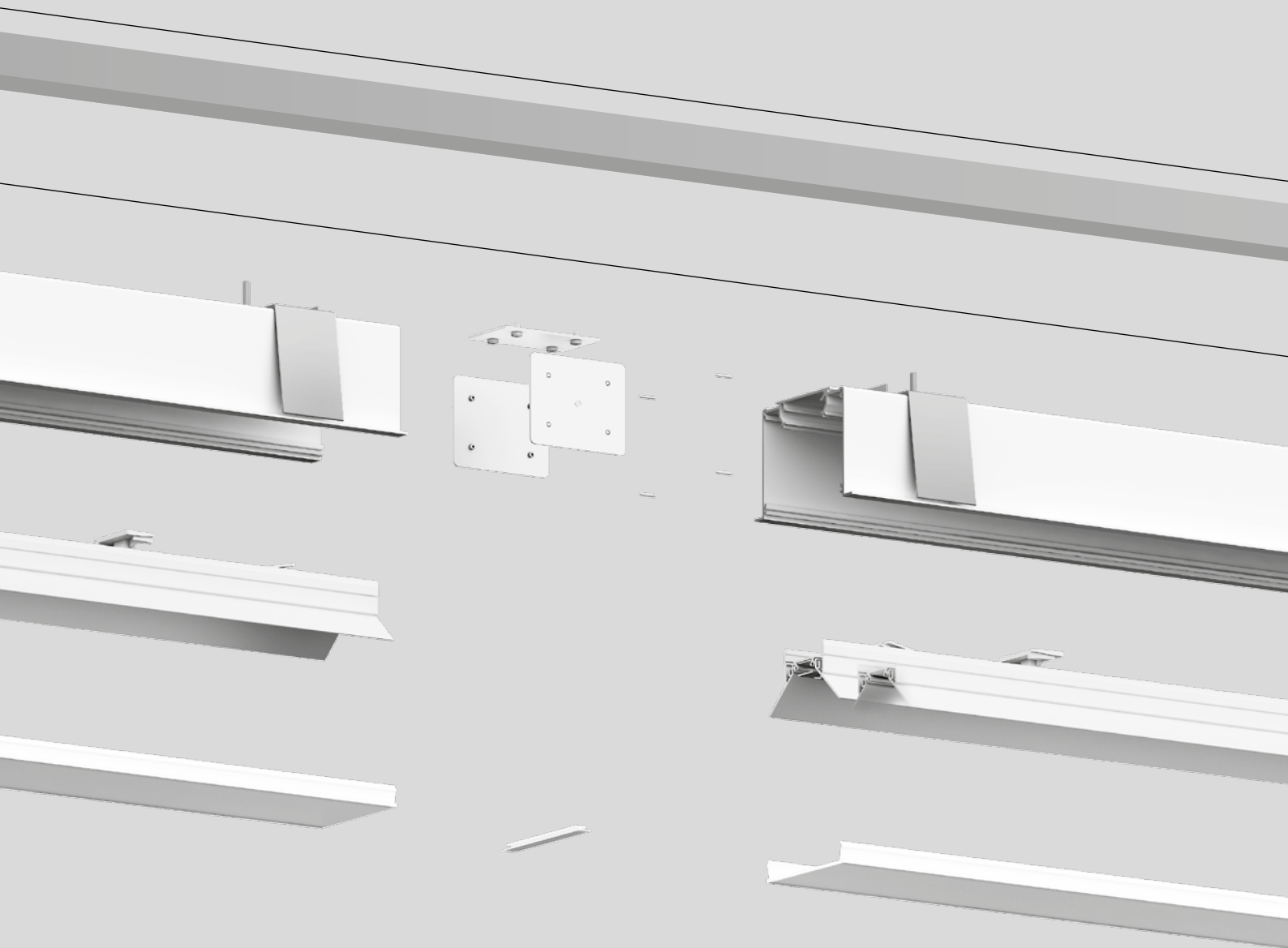
CANYON FRAME 120 SYSTEM

L total	-2000mm	-4000mm	-6000mm	-8000mm	-10000mm	-12000mm	-14000mm
L cutout (Lc) =	L total + 7 mm	L total + 9 mm	L total + 11 mm	L total + 13 mm	L total + 15 mm	L total + 17 mm	L total + 19 mm
W cutout = 112 mm							



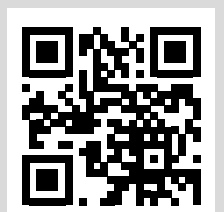
FRAME 120

**CANYON
FRAME 120**



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system with the XAL
online configurator
systems.xal.com



PROFILES 100 FRAME 120 SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7



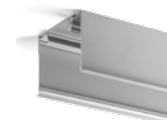
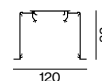
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 95 mm breitem Lichtaustritt, Einbauleuchte mit umlaufendem Rand, Oberfläche weiß pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 95 mm wide light exit, recessed luminaire with with trim, surface powder coated in white or natural anodised aluminium, designed for continuous lighting systems, 90° angle connectors for flexible system design

INSTALLATION CHANNEL LINEAR

L (mm)	ORDER CODE
572	035 - 0065
872	035 - 0095
1172	035 - 0125
1472	035 - 0155
2344	035 - 0255
3000	035 - 0305
custom cut	E 8 2 1 5 0



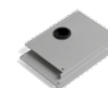
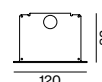
BLIND COVER

L (mm)	ORDER CODE
572	006 - 1106
872	006 - 1109
1172	006 - 1112
1472	006 - 1115
2344	006 - 1124
3000	006 - 1130
custom cut	E 8 0 6 5 0



END CAPS (pair)

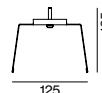
TYPE	ORDER CODE
end caps	035 - 1315



MOUNTING BRACKET 2-18 mm

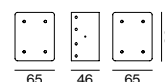
TYPE	ORDER CODE
1 piece	035 - 10230
25 pieces	035 - 10230 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

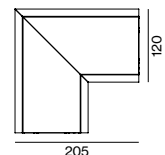
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40066
linear connector (10 pieces)	005 - 40066 . 10
opal cover linear connector	006 - 10000
clear cover linear connector	006 - 12000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	035 - 1265
opal high performance	035 - 1265 H
microprismatic	035 - 1265 P

maximum length of 10m per leg. X- and T-connector on request



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

10 pieces per pack



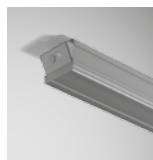
PROFILES 100 INSETS

[page 432](#)



CONCRETE HOUSING

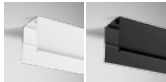
[page 482](#)



PROFILES 100 CANYON FRAME 120 SYSTEM

Order options

MATERIAL COLOUR	
white	7
black	8



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 95 mm breitem Lichtaustritt, zurückversetzte Leuchtenebene, Einbauleuchte mit umlaufendem Rand, Oberfläche weiß oder schwarz pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau

EN Luminaire housing from extruded aluminium profile with 95mm wide light exit, recessed lighting level, recessed luminaire with with trim, surface powder coated in white or black, designed for continuous lighting systems, 90° angle connectors for flexible system design

Features



ball-impact-resistant
(DIN 57710-13)

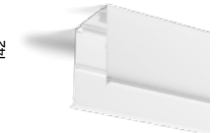
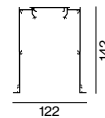
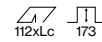
PROFILES 100 INSETS

[page 432](#)



INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	038 - 5068
872	038 - 5098
1172	038 - 5128
1472	038 - 5158
2344	038 - 5258
3000	038 - 5308
custom cut	E 8 2 3 5 0



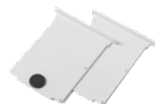
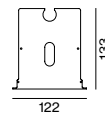
BLIND COVER

L (mm)	ORDER CODE
572	006 - 1106
872	006 - 1109
1172	006 - 1112
1472	006 - 1115
2344	006 - 1124
3000	006 - 1130
custom cut	E 8 0 6 5 0 B



END CAPS (pair)

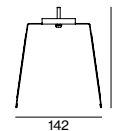
TYPE	ORDER CODE
end caps	038 - 6308



MOUNTING BRACKET 8-25 mm

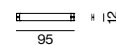
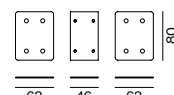
TYPE	ORDER CODE
1 piece	038 - 60800
25 pieces	038 - 60800 . 25

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

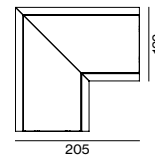
TYPE	ORDER CODE
linear connector (1 piece)	005 - 40286
linear connector (10 pieces)	005 - 40286 . 10
opal cover linear connector	006 - 10000
clear cover linear connector	006 - 12000



CORNER CONNECTOR 90°

TYPE	ORDER CODE
blind cover	038 - 6268
opal high performance	038 - 6268 H
microprismatic	038 - 6268 P

maximum length of 10 m per leg. X- and T-connector on request



THROUGH WIRE

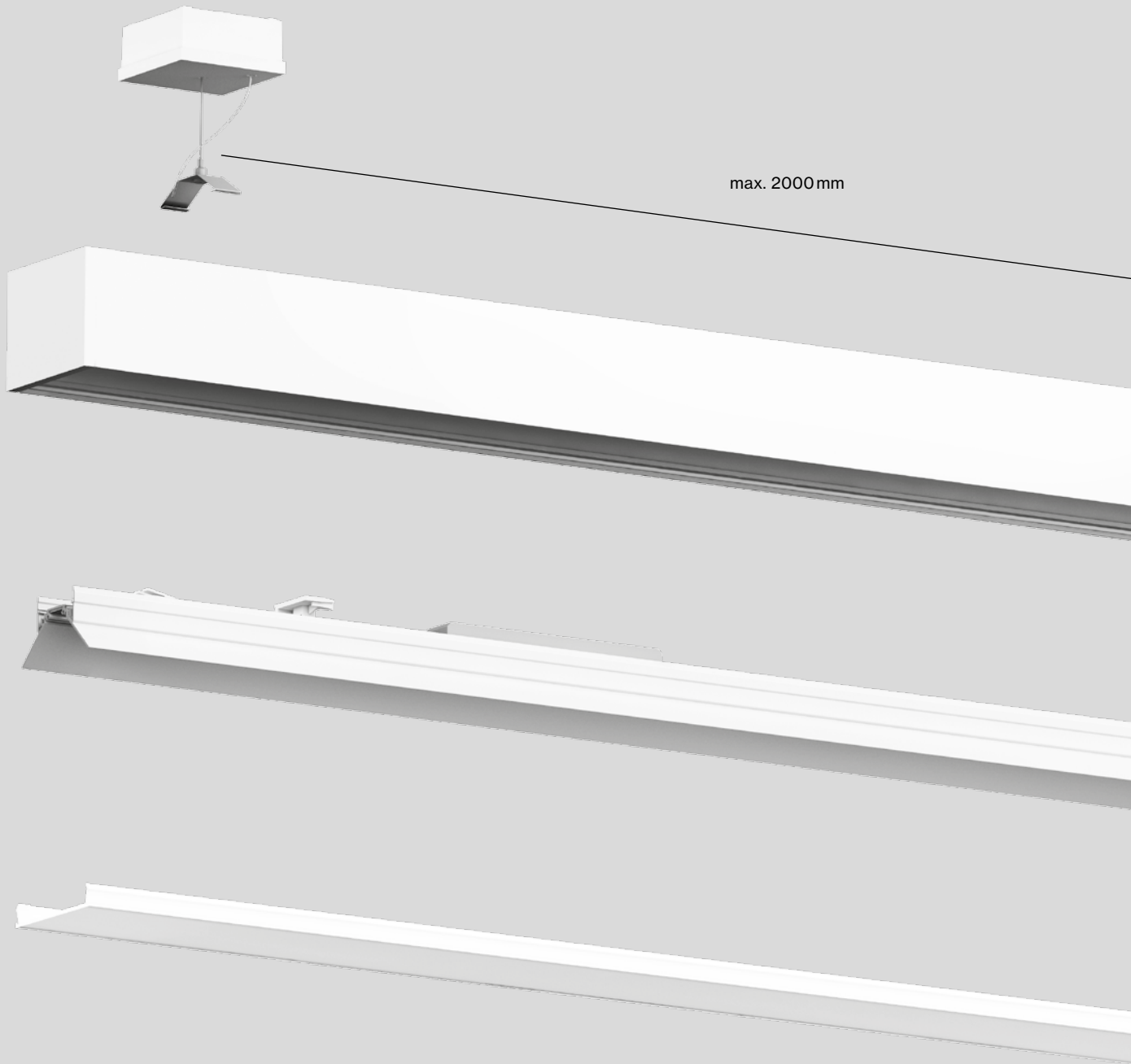
TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack

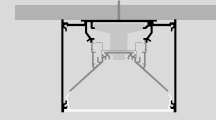


PROFILES 100

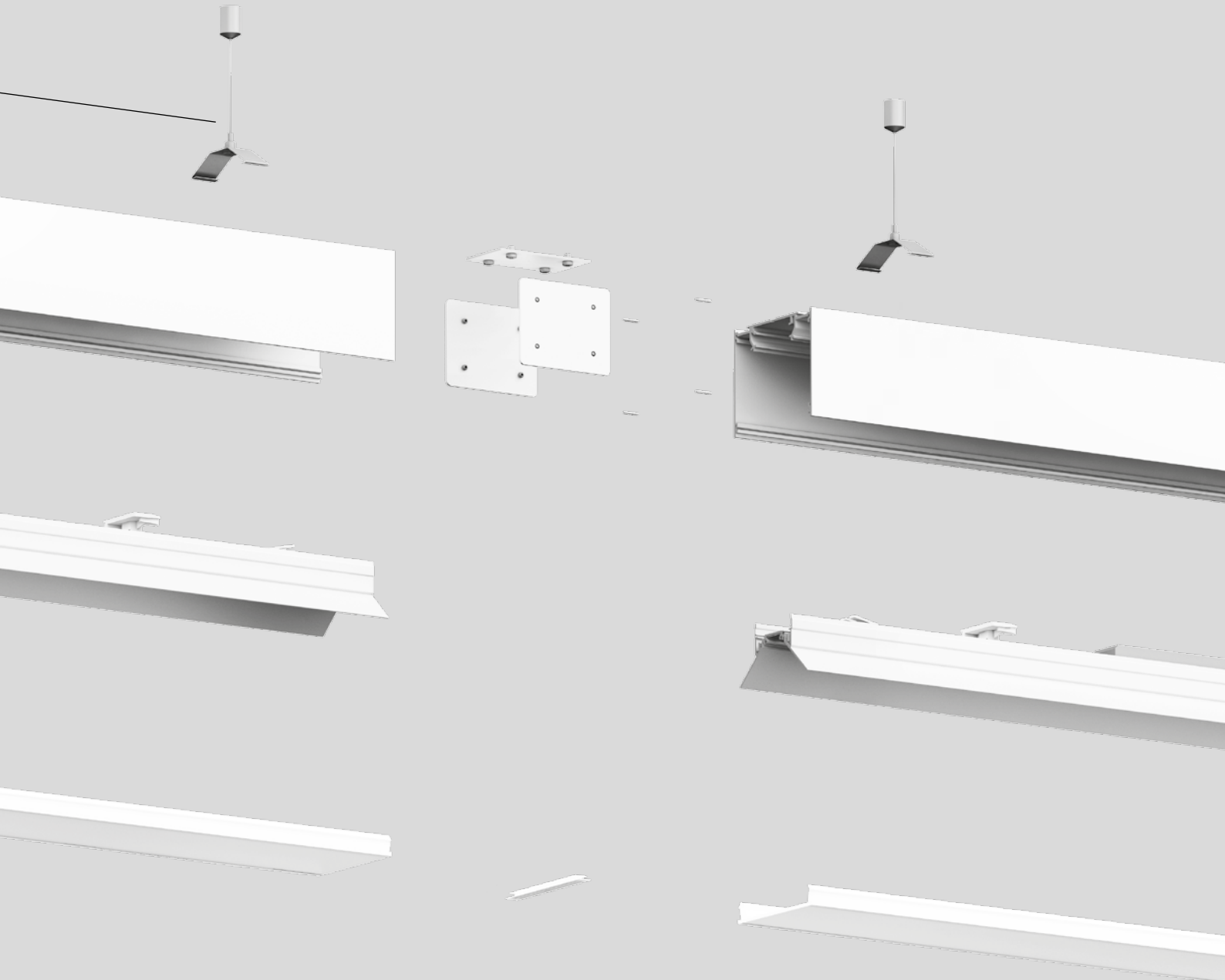
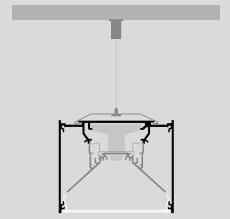
MINO 100 CEILING / SUSPENDED SYSTEM



MINO 100
CEILING

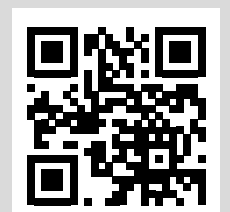


MINO 100
SUSPENDED



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online configurator
systems.xal.com



PROFILES 100

MINO 100 CEILING / SUSPENDED SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



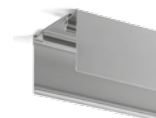
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in kantiger Ausführung mit 95 mm breitem Lichtaustritt, lichtdicht abschließende Enddeckel aus Aluminium ohne sichtbare Schrauben, Oberfläche weiß bzw. schwarz pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme

EN Luminaire housing from extruded aluminium profile in angular design with 95 mm wide light exit, light-tight end cap closure in aluminium without visible screws, surface powder coated in white or black or natural aluminium anodised finish, designed for continuous lighting systems

INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	034 - 0066
872	034 - 0096
1172	034 - 0126
1472	034 - 0156
2344	034 - 0256
3000	034 - 0306
custom cut	E 85050



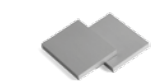
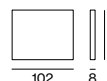
BLIND COVER

L (mm)	ORDER CODE
572	006 - 1106
872	006 - 1109
1172	006 - 1112
1472	006 - 1115
2344	006 - 1124
3000	006 - 1130
custom cut	E 80650



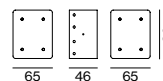
END CAPS (pair)

TYPE	ORDER CODE
end caps	034 - 1306



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005 - 40066
linear connector (10 pieces)	005 - 40066 . 10



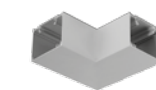
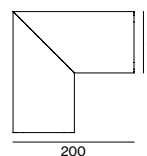
opal cover linear connector	006 - 10000
clear cover linear connector	006 - 12000



10 pieces per pack on request

CORNER CONNECTOR 90°

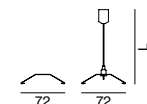
TYPE	ORDER CODE
blind cover	034 - 1266
opal high performance	034 - 1266 H
microprismatic	034 - 1266 P



maximum length of 10m per leg X- and T-connector on request

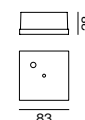
MOUNTING

TYPE	L (mm)	ORDER CODE
ceiling clip	10	034 - 11836
cable suspension	2000	034 - 11726
cable suspension	4000	034 - 11826



POWER FEEDER (suspension only)

TYPE	L (mm)	ORDER CODE
3x1,5mm ²	2000	005 - 3262
5x1,5mm ²	2000	005 - 3263
3x1,5mm ²	4000	005 - 3264
5x1,5mm ²	4000	005 - 3265

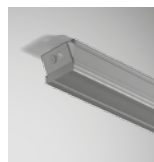


PROFILES 100 INSETS

[page 432](#)

CONCRETE HOUSING

[page 482](#)



THROUGH WIRE

TYPE	ORDER CODE
3-pole	004 - 90003
5-pole	004 - 90005

10 pieces per pack



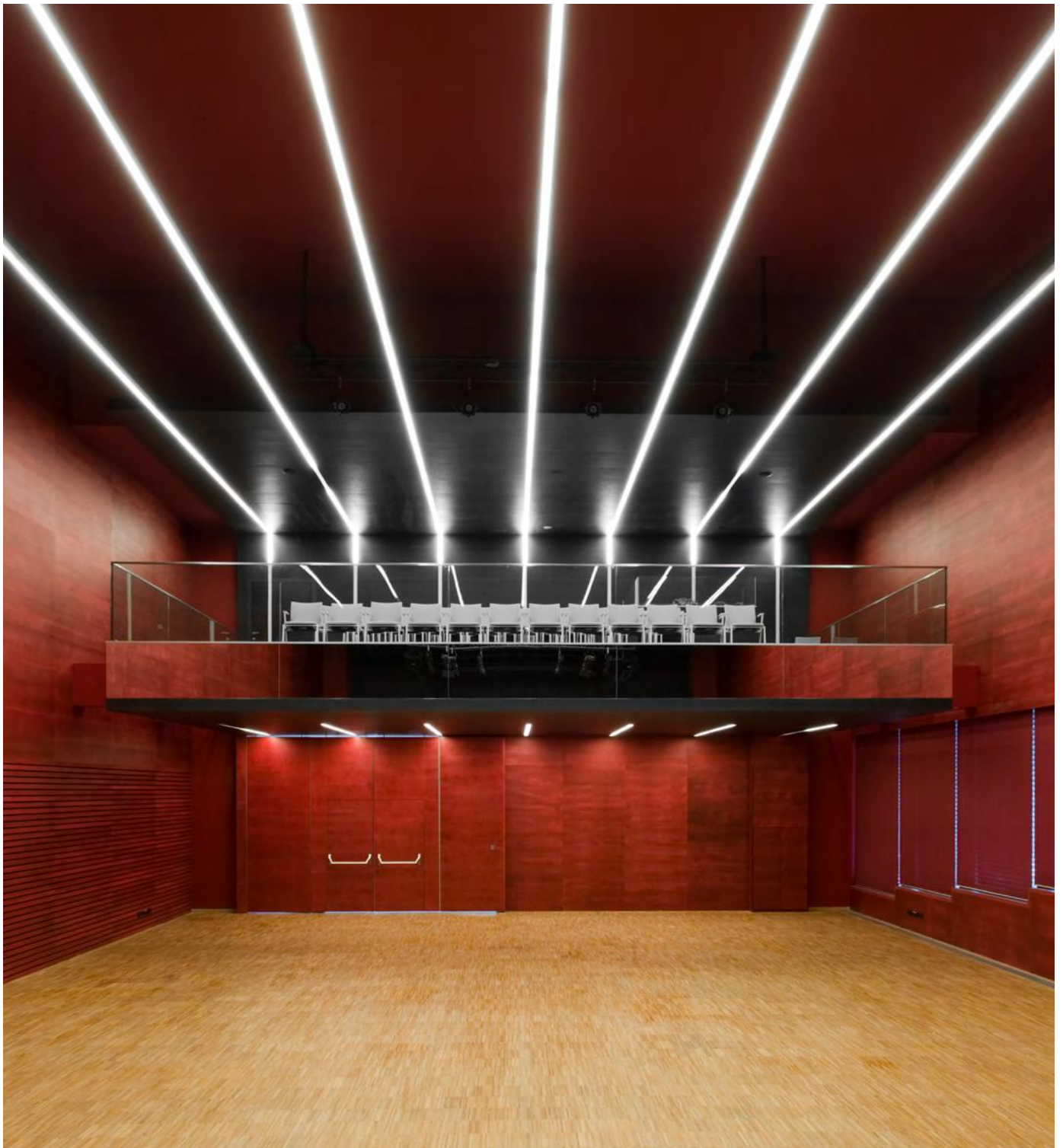
Inspiration

Association and Culture House
Engerwitzdorf, Austria

SOLUTION
MINO 100

ARCHITECT

Gärtner + Neururer
Vöcklabruck



Inspiration

Cadence
Israel

SOLUTION
MINO 100

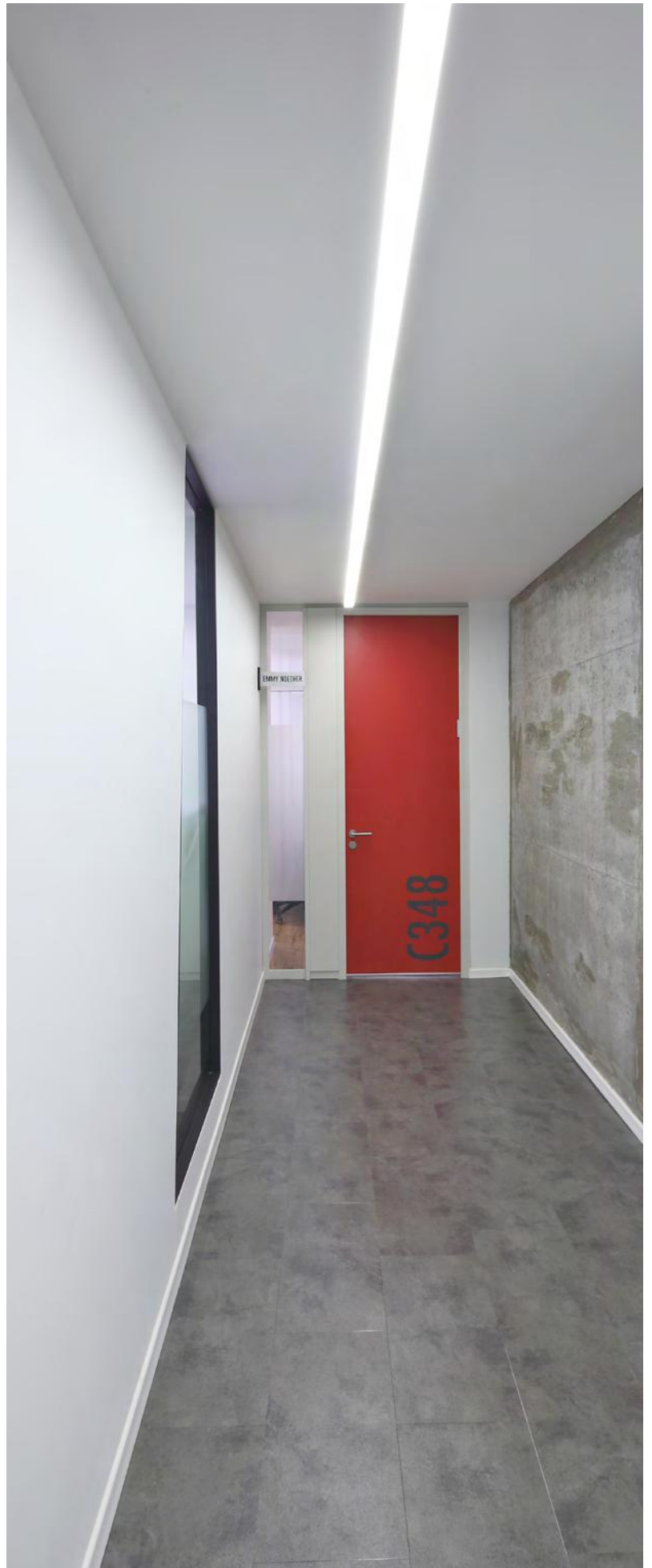
ARCHITECT

Hadas Makov
Kadima Tzoran, Israel

LIGHTING DESIGN

Orly Avron Alkabes
Tel Aviv, Israel





INSET 100

Order options

COLOUR TEMPERATURE	☼☼
3000K	5
4000K	6

CONTROL	⬆️⬆️
non DIM	1
DIM DALI	3

EMERGENCY	●
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3

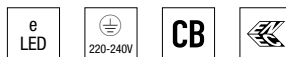
Description

DE Inset aus hochreflektierend lackiertem Aluminiumprofil, bauseits kürzbare Variante für flexible Anwendungen

EN Inset consisting of highly reflective coated aluminium profile, can be individually shortened on site for flexible use



INSET 100 e LED, non DIM



STANDARD

SYSTEM POWER	L (mm)	ORDER CODE
9 W	572	007 - 8622 ☼☼ 17
14 W	872	007 - 8623 ☼☼ 17
18 W	1172	007 - 8624 ☼☼ 17
23 W	1464	007 - 8625 ☼☼ 17
37 W	2344	007 - 8628 ☼☼ 17
46 W	2926	007 - 8629 ☼☼ 17
18 W	1172	007 - 8624 ☼☼ 17 ●
23 W	1464	007 - 8625 ☼☼ 17 ●



FLEXIBLE

SYSTEM POWER	L (mm)	ORDER CODE
18 W	660-1172	007 - 862 F ☼☼ 17

flexible inset can be cut every 73 mm to make total lengths from 660 up to 1172 mm



INSET 100 e² LED



STANDARD

SYSTEM POWER	L (mm)	ORDER CODE
14 W	572	007 - 8632 ☼☼ 7
20 W	872	007 - 8633 ☼☼ 7
27 W	1172	007 - 8634 ☼☼ 7
34 W	1464	007 - 8635 ☼☼ 7
54 W	2344	007 - 8638 ☼☼ 7
68 W	2926	007 - 8639 ☼☼ 7
27 W	1172	007 - 8634 ☼☼ 7 ●
34 W	1464	007 - 8635 ☼☼ 7 ●



FLEXIBLE

SYSTEM POWER	L (mm)	ORDER CODE
27 W	660-1172	007 - 863 F ☼☼ 7

flexible inset can be cut every 73 mm to make total lengths from 660 up to 1172 mm

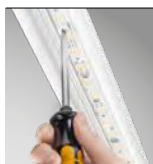


TUNABLE WHITE 3000–6000K / DIM DALI (2 Addr.)

SYS. POWER	L (mm)	ORDER CODE
20 W	872	007 - 8633037
27 W	1172	007 - 8634037
34 W	1464	007 - 8635037
54 W	2344	007 - 8638037
68 W	2926	007 - 8639037



Features



quick lock



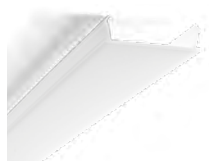
flex insets can be shortened

COVER 100

Description

DE HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; durch spezielle Materialzusammensetzung mit erhöhter Transmission und Diffusion; wahlweise mit mikrop-rismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte

EN HPO (High Performance Opal) cover for uniform illumination through special material composition, with increased transmission and diffusion, also available as microprismatic PMMA cover for reducing luminance



COVER 100 OPAL

PMMA

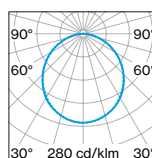
L (mm)

570
870
1170
1470
2342
2997
custom cut

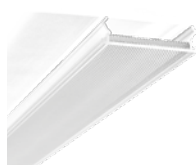
ORDER CODE

006 - 10063
006 - 10093
006 - 10123
006 - 10153
006 - 10233
006 - 10303
E80650 ····0H

Light distribution



Opal
direct
LOR 77 %



COVER 100 MICROPRISMATIC

PMMA

UGR < 19
eLED microprism.

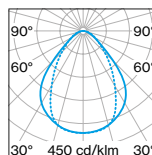
L (mm)

570
870
1170
1470
2342
2997
custom cut

ORDER CODE

006 - 12062
006 - 12092
006 - 12122
006 - 12152
006 - 12232
006 - 12302
E80650 ····0P

Light distribution



Microprismatic
direct
LOR 77 %

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	UGR	EFFICACY
PROFILE 100 opal cover	e LED	16 W/m	3000K	1719 lm/m	77%	<25	110 lm/W
			4000K	1801 lm/m	77%	<25	115 lm/W
	e ² LED	23 W/m	3000K	2535 lm/m	77%	<25	109 lm/W
			4000K	2656 lm/m	77%	<25	114 lm/W
PROFILE 100 microprismatic cover	e LED	16 W/m	3000K	1708 lm/m	77%	<19	110 lm/W
			4000K	1790 lm/m	77%	<19	115 lm/W
	e ² LED	23 W/m	3000K	2520 lm/m	77%	<22	108 lm/W
			4000K	2640 lm/m	77%	<22	114 lm/W

for CANYON and CANYON FRAME subtract 15% (white profile) or 50% (black profile) lumen output

INSET 100 IP65

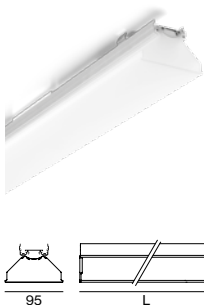
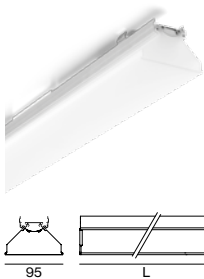
Order options

OPTIC	
opal high performance	H
microprismatic	P

Description

DE Vergossene LED Platine, in geschlossenes Gehäuse aus PMMA eingeschoben, Enddeckel aus PMMA dicht mit Gehäuse verklebt, PMMA wahlweise satiniert für homogene Ausleuchtung, oder mit mikroprismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte

EN Encapsulated LED circuit board, inserted in closed housing made of PMMA, PMMA end caps bonded sealed to housing, PMMA optionally satinised for uniform illumination or with microprismatic PMMA cover for reducing luminance



INSET 100 IP65 e LED, 3400 K



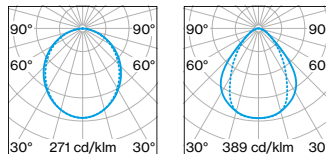
SYSTEM POWER	L (mm)	ORDER CODE
9 W	572	807 - 8522517 □
14 W	872	807 - 8523517 □
18 W	1172	807 - 8524517 □

INSET 100 IP65 e² LED , 3400 K



SYSTEM POWER	L (mm)	ORDER CODE
14 W	572	807 - 8532517 □
20 W	872	807 - 8533517 □
27 W	1172	807 - 8534517 □

Light distribution



Opal
direct
LOR 70%

Microprismatic
direct
LOR 66%

Electrical accessories



POWER FEEDER / PROTECTION CAP

TYPE	L (mm)	ORDER CODE
power feeder 3x1,5mm ²	2000	007 - 9982010
power feeder 3x1,5mm ²	4000	007 - 9984010
protection cap		007 - 9989110

INSET 100 WALLWASHER

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

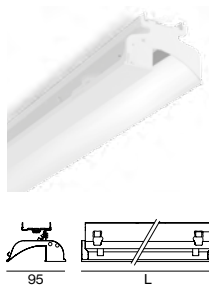
MATERIAL COLOUR	
anodised aluminium	6
white	7



Description

DE Inset mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken, Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar

EN Inset with specially computed, asymmetrical reflector for homogeneous vertical lighting intensity, reflector in matt anodised pure aluminium, installation without tools

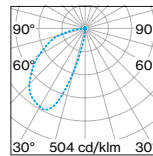


INSET 100 WALLWASHER e² LED



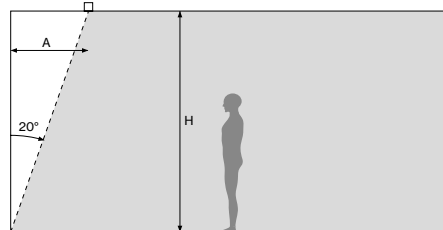
SYSTEM POWER	L (mm)	ORDER CODE
21W	572	007 - 9052
32W	872	007 - 9053
42W	1172	007 - 9054
53W	1464	007 - 9055

Light distribution



Asymmetric
direct
LOR 63 %

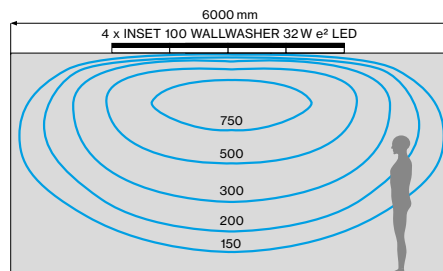
Technical data



ROOM DIMENSIONS

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Em (lx)	E _{max} (lx)
461	1340
417	1190
348	956



Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
PROFILE 100 IP65 opal cover	e LED	16 W/m	3400 K	1560 lm/m	70 %	100 lm/W
	e ² LED	23 W/m	3400 K	2301 lm/m	70 %	99 lm/W
PROFILE 100 IP65 microprismatic cover	e LED	16 W/m	3400 K	1476 lm/m	66 %	95 lm/W
	e ² LED	23 W/m	3400 K	2177 lm/m	66 %	94 lm/W
PROFILE 100 WALLWASHER	e ² LED	36 W/m	3000 K	2798 lm/m	63 %	78 lm/W
	e ² LED	36 W/m	4000 K	2932 lm/m	63 %	81 lm/W

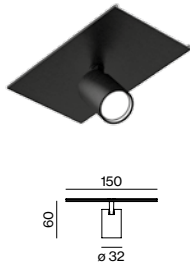
INSET 100 JUST 32 + DOT

Order options

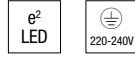
COLOUR TEMPERATURE	☼☼
3000 K	5
4000 K	6

MATERIAL COLOUR	▣
anodised aluminium	6
white	7
black	8

LED LENS	▲
spot 19°	S
medium 27°	M
flood 42°	F



INSET 100 JUST 32



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
1 × 3,5 W	3000 K	300 lm	150	0 0 7 - 9 6 5 1 ☼☼ 1 ▣▲
	4000 K	330 lm		

Light distribution

spot 19°			LOR 85%			medium 27°			LOR 84%			flood 42°			LOR 91%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1747	ø 0,34	1	918	ø 0,48	1	560	ø 0,77	1	140	ø 1,54	1	35	ø 3,09	1	22	ø 3,86
2	437	ø 0,68	2	229	ø 0,97	2	62	ø 2,32	2	35	ø 3,09	2	14	ø 4,62	2	11	ø 5,77
3	194	ø 1,03	3	102	ø 1,45	3	35	ø 3,09	3	14	ø 4,62	3	7	ø 6,87	3	6	ø 8,12
4	109	ø 1,37	4	57	ø 1,94	4	22	ø 3,86	4	9	ø 5,46	4	5	ø 6,87	4	5	ø 8,12
5	70	ø 1,71	5	37	ø 2,42	5	14	ø 4,62	5	5	ø 6,87	5	3	ø 9,14	5	3	ø 11,39

Description

DE Inset mit Strahlerkopf aus Aluminium, 352° dreh- und 90° schwenkbar, passiv gekühlt, inkl. Konverter

EN Inset with spotlight head made of aluminium, rotatable 352° and tiltable 90°, passive cooling, incl. converter

Optical accessories

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	30-4	0 0 7 - 1 9 6 5 1 6 8
elliptical sculpture foil	30-4	0 0 7 - 1 9 6 5 2 6 0
snoot	30-15	0 0 7 - 1 9 6 5 3 6 8
colour filter (red, blue, green, etc.)	30-4	on request

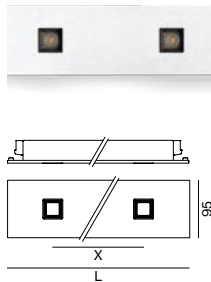
use only 1 optical accessory

Order options

COLOUR TEMPERATURE	☼☼
3000 K	5
4000 K	6

CONTROL	◄►
non DIM	1
DIM DALI	3

MATERIAL COLOUR	▣
anodised aluminium	6
white	7
black	8

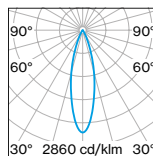


INSET 100 DOT



SYS. POWER	COLOUR TEMP.	LUM. FLUX	x-L (mm)	ORDER CODE
1 × 2,3 W	3000 K	130 lm	150	0 0 7 - 9 8 3 0 ☼☼ 1 ▣M
	4000 K	130 lm		
2 × 2,3 W	3000 K	260 lm	150-300	0 0 7 - 9 8 3 1 ☼☼ 1 ▣M
	4000 K	260 lm		
2 × 2,3 W	3000 K	260 lm	195-300	0 0 7 - 9 8 3 2 ☼☼ 1 ▣M
	4000 K	260 lm		
6 × 2,3 W	3000 K	790 lm	195-1171	0 0 7 - 9 8 3 5 ☼☼◄► ▣M
	4000 K	790 lm		

Light distribution



Medium 26°

direct
LOR 74 %

Description

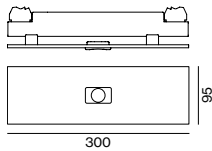
DE Inset mit zurückversetzten Einzellichtpunkten, optimale Entblendung durch schwarzen Stufenreflektor

EN Inset with recessed single light points, optimum glare-free lighting by black layered reflector

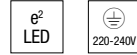
INSET 100 EMERGENCY

Order options

COLOUR	
anodised aluminium	6
white	7
black	8

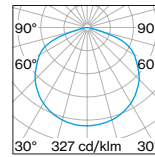


INSET 100 EMERGENCY

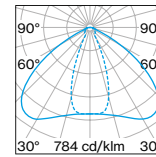


SYSTEM POWER	LUM. FLUX	L (mm)	ORDER CODE
1,2W symmetric	100 lm	300	0 14 - 0 0 0 2 <input checked="" type="checkbox"/> NL 3
1,2W asymmetric	120 lm	300	0 14 - 0 0 1 2 <input checked="" type="checkbox"/> NL 3

Light distribution



Symmetric
direct



Asymmetric
direct

Description

DE Inset mit einzelner LED Lichtpunkt, inklusive hochwertiger Linsenoptik mit symmetrischer oder asymmetrischer Lichtverteilung, ausgelegt als Sicherheitsbeleuchtung, inkl. Notlichtbaustein mit Selbstüberwachung und Akku

EN Inset with single LED light point, incl. high quality lens system with symmetrical or asymmetrical light distribution, designed as security lighting, incl. emergency light element with self test and battery

TUBO

CHANNEL

TUBO 100
CEILING

TUBO 100
SUSPENDED

TUBO 150
CEILING

TUBO 150
SUSPENDED



INSETS

e² LED



COVERS

OPAL HIGH PERFORMANCE
100

OPAL HIGH PERFORMANCE
150



Overview

TUBO 100

TUBO 150

INSET

e² LED

•

•

COVER

OPAL HIGH PERFORMANCE

•

•

Description

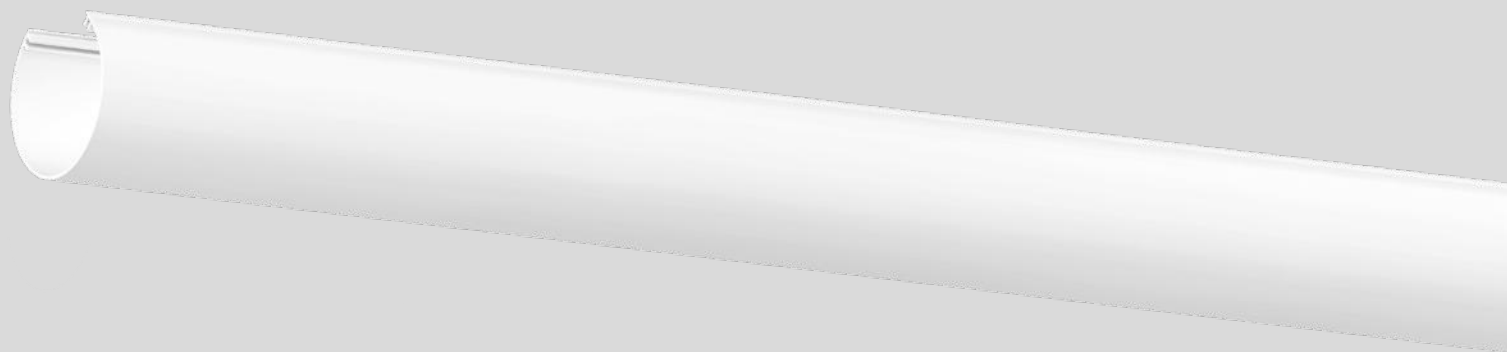
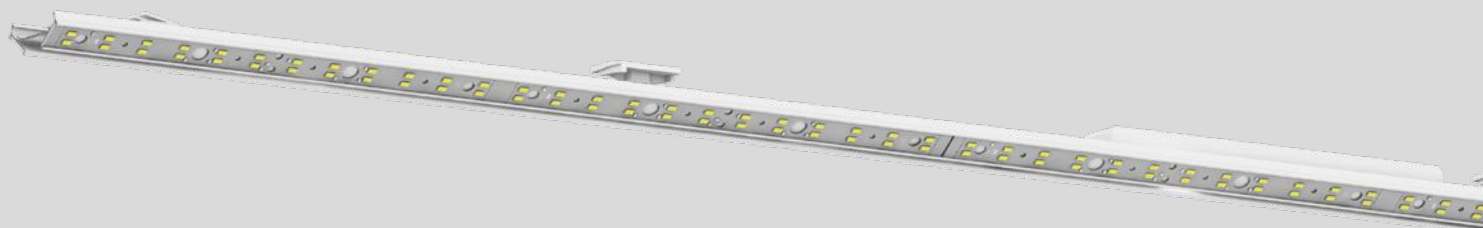
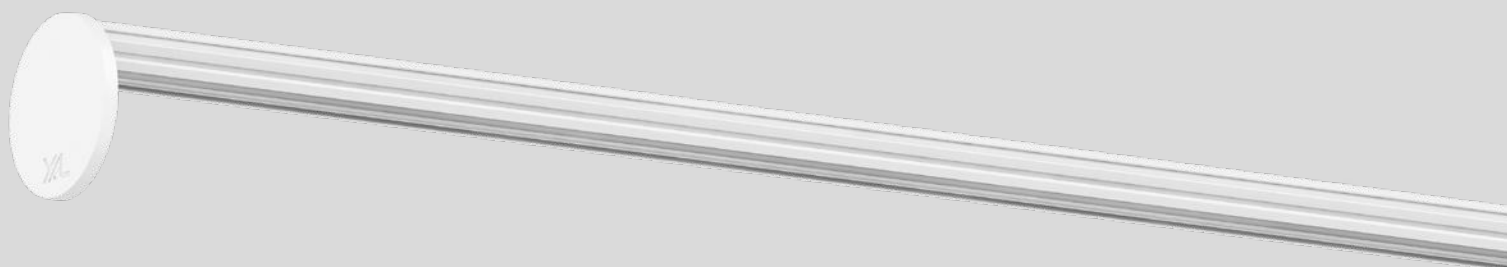
DE Tragprofil aus stranggepresstem Aluminium; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; hohe Variantenvielfalt für projektspezifische Anforderungen: wahlweise für aufgebaute oder abgehängte Variante; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; large range of versions for specific project requirements: either flush mounted or pendant versions; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile and aluminium PCB for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

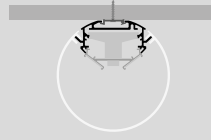
TUBO 100 / 150 SYSTEM



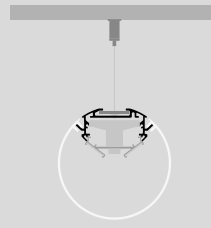
max. 2000 mm



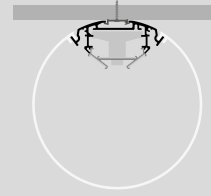
TUBO 100
CEILING



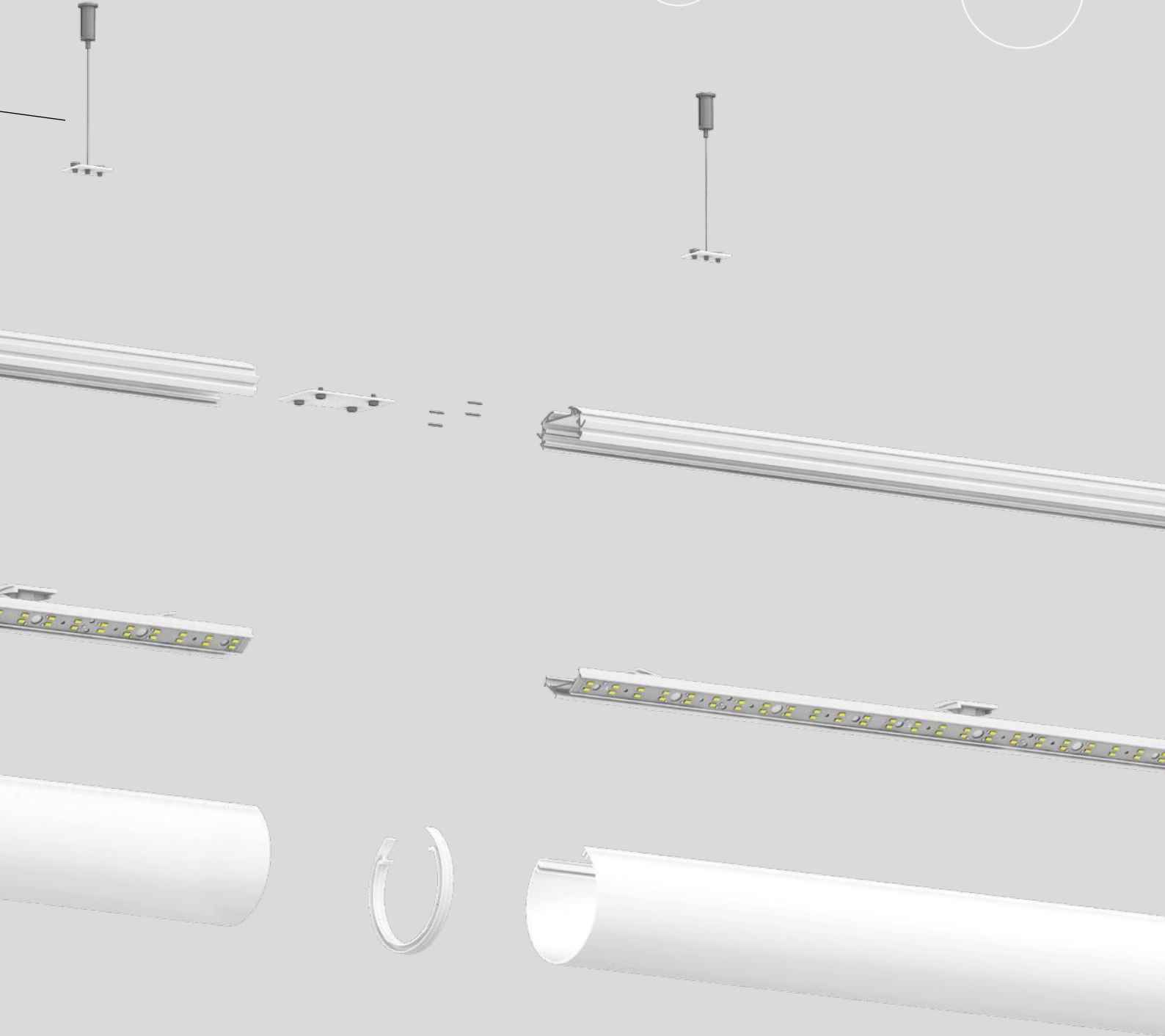
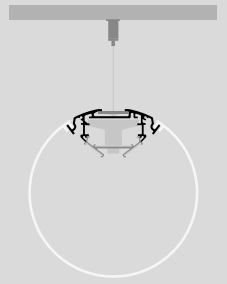
TUBO 100
SUSPENDED



TUBO 150
CEILING



TUBO 150
SUSPENDED



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



TUBO 100 SYSTEM

MATERIAL COLOUR

white only

Description

DE Tragprofil aus Aluminium strang gepresst, Enddeckel aus Aluminium, keine sichtbaren Schrauben, Oberfläche weiß pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, geeignet für Wand- bzw. Deckenaufbaumontage oder für abgehängte Montage, Abhängung mittels frei positionierbaren Federclips und werkzeugloser Höhenverstellung

EN Supporting profile made of extruded aluminium profile, end cap in aluminium, no visible screws, surface white powder coated, designed for continuous lighting systems, suitable for wall or ceiling surface mounting or suspended mounting, suspension with freely positionable spring clips and height adjustment without tools

INSTALLATION CHANNEL

L (mm)	ORDER CODE
582	0 2 9 - 0 0 6 6 7
882	0 2 9 - 0 0 9 6 7
1182	0 2 9 - 0 1 2 6 7
1482	0 2 9 - 0 1 5 6 7
2364	0 2 9 - 0 2 5 6 7
3000	0 2 9 - 0 3 0 6 7
custom cut	E 8 5 9 5 0 7



END CAPS (pair)

TYPE	ORDER CODE
white	0 2 9 - 1 4 0 6 7



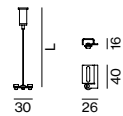
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 2 9 - 1 2 0 2 7
linear connector (10 pieces)	0 2 9 - 1 2 0 2 7 . 1 0



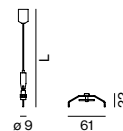
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	0 2 9 - 0 0 5 2 7
cable suspension	4000	0 2 9 - 0 0 6 2 7
ceiling mounting set	40	0 2 9 - 0 0 4 4 6



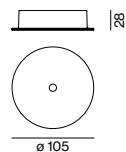
ANGULAR CABLE SUSPENSION (max. 60°)

TYPE	L (mm)	ORDER CODE
angular cable susp.	2000	0 2 9 - 0 0 5 3 7
angular cable susp.	4000	0 2 9 - 0 0 6 3 7
anti-slip protection (per cover)		0 2 9 - 0 0 3 4 7



POWER FEEDER

TYPE	L (mm)	ORDER CODE
3x1,5 mm ²	2000	0 2 9 - 1 7 0 2 7
	4000	0 2 9 - 1 7 0 4 7
5x1,5 mm ²	2000	0 2 9 - 1 7 1 2 7
	4000	0 2 9 - 1 7 1 4 7



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	0 0 4 - 9 0 0 0 3
5x1,5 mm ²	0 0 4 - 9 0 0 0 5

10 pieces per pack



ACRYLIC LINEAR CONNECTOR FOR COVER

TYPE	ORDER CODE
white	0 2 9 - 1 2 9 2 7



INSET + COVER

Order options

COLOUR TEMPERATURE	••
3000 K	5
4000 K	6

CONTROL	◀▶
non DIM	1
DIM DALI	3

EMERGENCY	●
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3

Description

DE LED Inset bestehend aus hochreflektierend lackiertem Strangpressprofil, zylindrische Abdeckung mit 100mm Durchmesser aus satiniertem PMMA für homogene Ausleuchtung, mit 340° Lichtabstrahlung und leichter Deckenaufhellung

EN LED inset consisting of highly reflective coated extruded profile, cylindrical cover with 100 mm diameter made of satinised PMMA for homogeneous illumination, with 340° light emission and gentle ceiling illumination

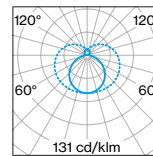


INSET e² LED

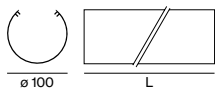


SYSTEM POWER	L (mm)	ORDER CODE
18 W	572	0 2 9 - 8 8 3 2 : 7
27 W	872	0 2 9 - 8 8 3 3 : 7
37 W	1172	0 2 9 - 8 8 3 4 : 7
46 W	1464	0 2 9 - 8 8 3 5 : 7
73 W	2344	0 2 9 - 8 8 3 8 : 7
37 W	1172	0 2 9 - 8 8 3 4 : 7 ●
46 W	1464	0 2 9 - 8 8 3 5 : 7 ●

Light distribution



Opal
direct
LOR 85 %



COVER OPAL



L (mm)	ORDER CODE
577	0 0 6 - 5 2 0 5 7 0 0
877	0 0 6 - 5 2 0 8 7 0 0
1177	0 0 6 - 5 2 1 1 7 0 0
1477	0 0 6 - 5 2 1 4 7 0 0
2359	0 0 6 - 5 2 2 3 4 0 0
2995	0 0 6 - 5 2 3 0 0 0 0
custom cut	E 8 5 9 1 0 0 0

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
TUBO 100	e ² LED	31 W/m	3000 K	3789 lm/m	85 %	121 lm/W
opal cover			4000 K	3969 lm/m	85 %	127 lm/W

Features



quick lock



all side light distribution

TUBO 150 SYSTEM

MATERIAL COLOUR

white only

Description

DE Tragprofil aus Aluminium strang gepresst, Enddeckel aus Aluminium, keine sichtbaren Schrauben, Oberfläche weiß pulverbeschichtet, ausgelegt für durchgehende Lichtsysteme, geeignet für Wand- bzw. Deckenaufbaumontage oder für abgehängte Montage, Abhängung mittels frei positionierbaren Federclips und werkzeugloser Höhenverstellung

EN Supporting profile made of extruded aluminium profile, end cap in aluminium, no visible screws, surface white powder coated, designed for continuous lighting systems, suitable for wall or ceiling surface mounting or suspended mounting, suspension with freely positionable spring clips and height adjustment without tools

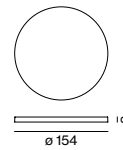
INSTALLATION CHANNEL

L (mm)	ORDER CODE
582	0 2 9 - 0 0 6 7 7
882	0 2 9 - 0 0 9 7 7
1182	0 2 9 - 0 1 2 7 7
1482	0 2 9 - 0 1 5 7 7
2364	0 2 9 - 0 2 5 7 7
3000	0 2 9 - 0 3 0 7 7
custom cut	E 8 5 9 6 0 7



END CAPS (pair)

TYPE	ORDER CODE
white	0 2 9 - 1 3 0 7 7



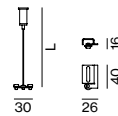
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 2 9 - 1 2 0 2 7
linear connector (10 pieces)	0 2 9 - 1 2 0 2 7 . 1 0



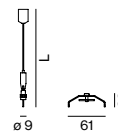
MOUNTING

TYPE	L (mm)	ORDER CODE
cable suspension	2000	0 2 9 - 0 0 5 2 7
cable suspension	4000	0 2 9 - 0 0 6 2 7
ceiling mounting set	40	0 2 9 - 0 0 4 4 6



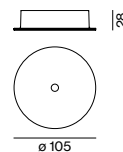
ANGULAR CABLE SUSPENSION (max. 60°)

TYPE	L (mm)	ORDER CODE
angular cable susp.	2000	0 2 9 - 0 0 5 3 7
angular cable susp.	4000	0 2 9 - 0 0 6 3 7
anti-slip protection (per cover)		0 2 9 - 0 0 3 5 7



POWER FEEDER

TYPE	L (mm)	ORDER CODE
3x1,5 mm ²	2000	0 2 9 - 1 7 0 2 7
	4000	0 2 9 - 1 7 0 4 7
5x1,5 mm ²	2000	0 2 9 - 1 7 1 2 7
	4000	0 2 9 - 1 7 1 4 7



THROUGH WIRE

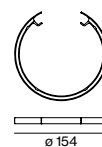
TYPE	ORDER CODE
3x1,5 mm ²	0 0 4 - 9 0 0 0 3
5x1,5 mm ²	0 0 4 - 9 0 0 0 5

10 pieces per pack



ACRYLIC LINEAR CONNECTOR FOR COVER

TYPE	ORDER CODE
white	0 2 9 - 1 1 9 2 7



INSET + COVER

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

EMERGENCY	
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3

Description

DE LED Inset bestehend aus hochreflektierend lackiertem Strangpressprofil, zylindrische Abdeckung mit 150mm Durchmesser aus satiniertem PMMA für homogene Ausleuchtung, mit 340° Lichtabstrahlung und leichter Deckenaufhellung

EN LED inset consisting of highly reflective coated extruded profile, cylindrical cover with 150 mm diameter made of satinised PMMA for homogeneous illumination, with 340° light emission and gentle ceiling illumination

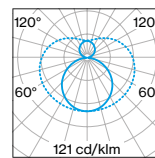


INSET e² LED



SYSTEM POWER	L (mm)	ORDER CODE
18 W	572	0 2 9 - 8 8 3 2 : : 7
27 W	872	0 2 9 - 8 8 3 3 : : 7
37 W	1172	0 2 9 - 8 8 3 4 : : 7
46 W	1464	0 2 9 - 8 8 3 5 : : 7
73 W	2344	0 2 9 - 8 8 3 8 : : 7
37 W	1172	0 2 9 - 8 8 3 4 : : 7 ●
46 W	1464	0 2 9 - 8 8 3 5 : : 7 ●

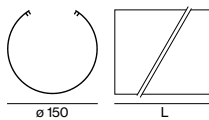
Light distribution



Opal
direct
LOR 87 %



COVER OPAL



L (mm)	ORDER CODE
577	0 0 6 - 5 3 0 5 7 0 0
877	0 0 6 - 5 3 0 8 7 0 0
1177	0 0 6 - 5 3 1 1 7 0 0
1477	0 0 6 - 5 3 1 4 7 0 0
2359	0 0 6 - 5 3 2 3 4 0 0
2995	0 0 6 - 5 3 3 0 0 0 0
custom cut	E 8 5 9 2 0 0 0

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
TUBO 150	e ² LED	31 W/m	3000 K	3856 lm/m	87 %	124 lm/W
opal cover			4000 K	4040 lm/m	87 %	129 lm/W

Features



quick lock



all side light distribution

Inspiration

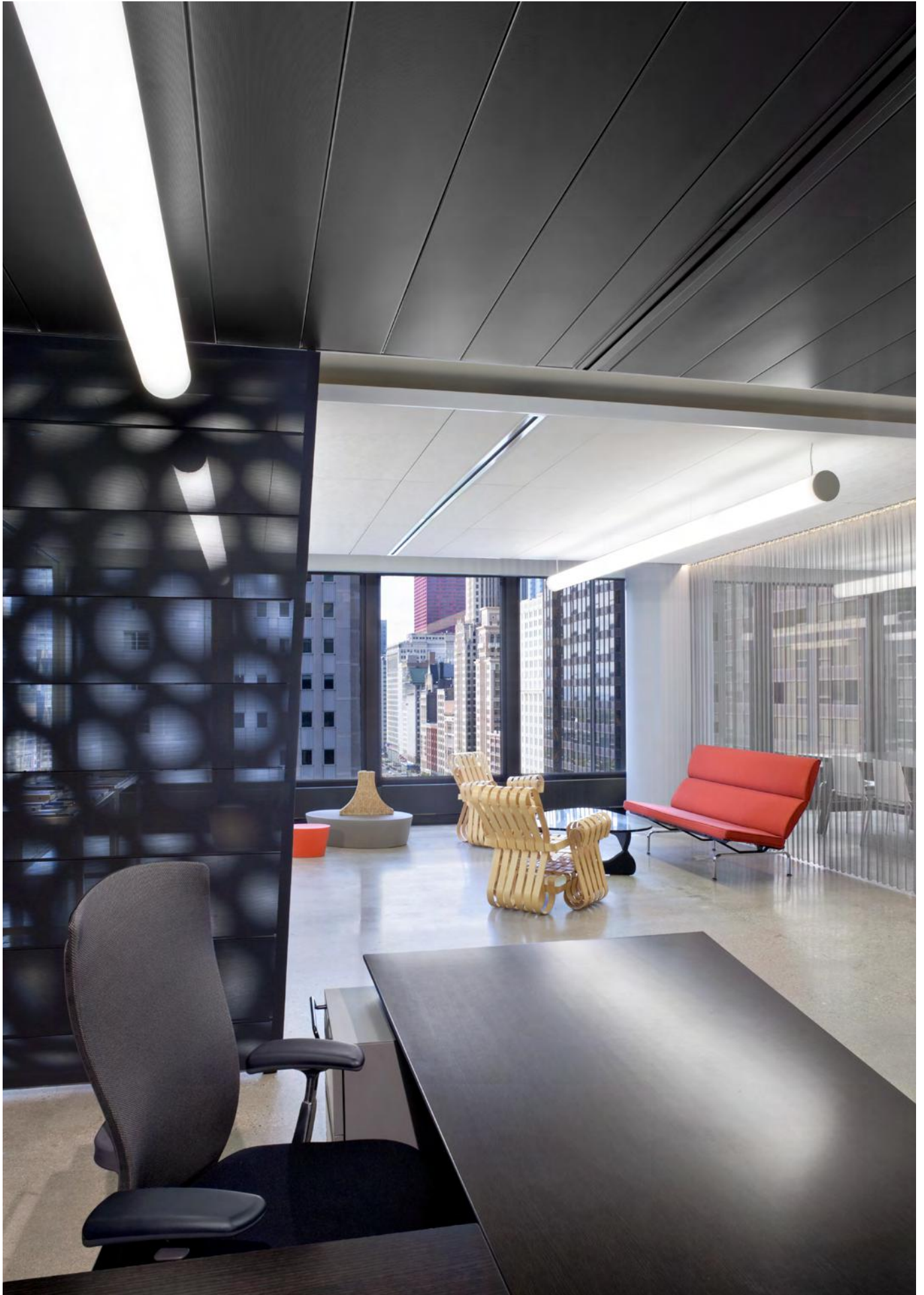
American Planning Association
Chicago, USA

SOLUTION
TUBO 150

ARCHITECT

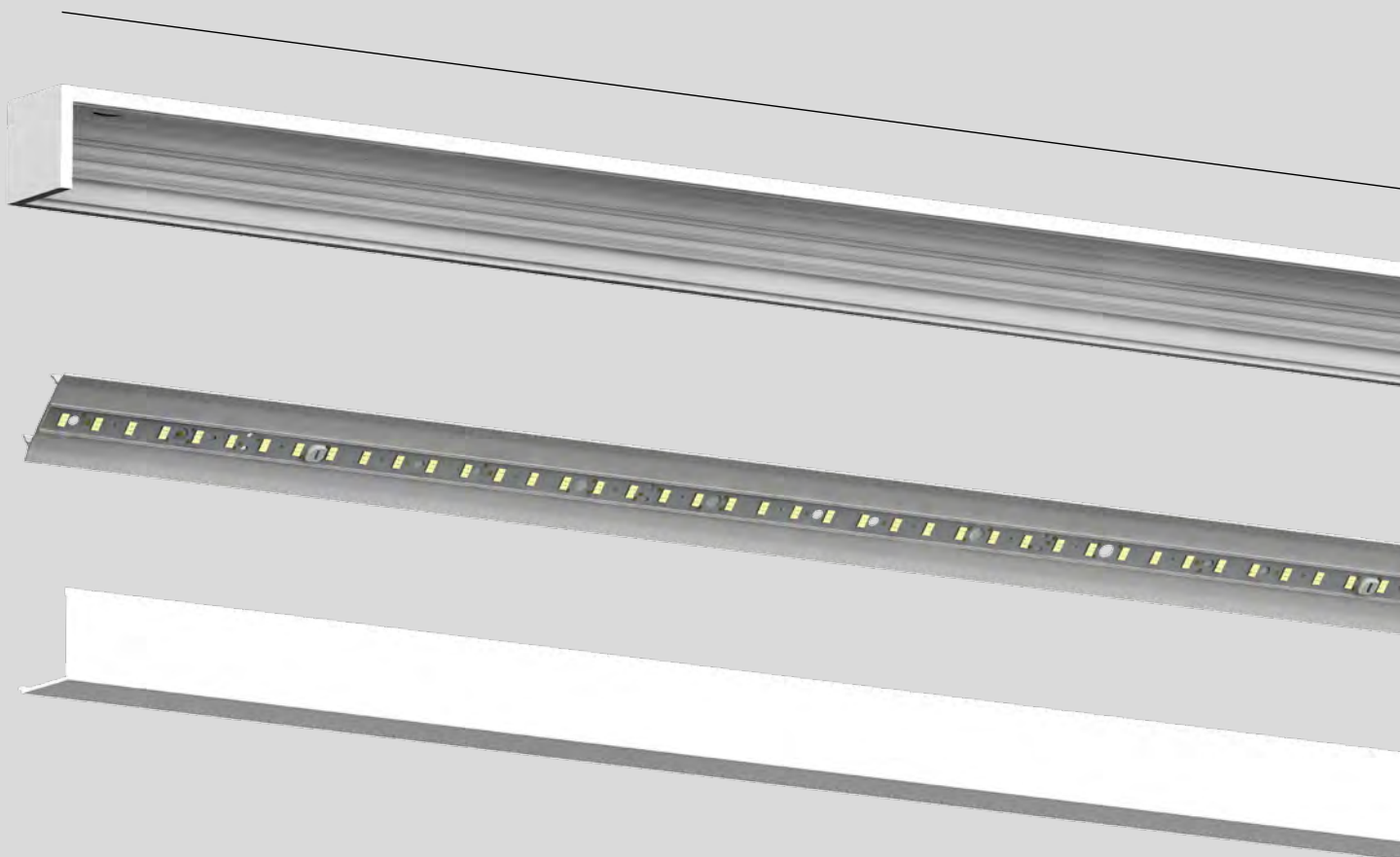
Valerio Dewalt Train Associates
Chicago, USA



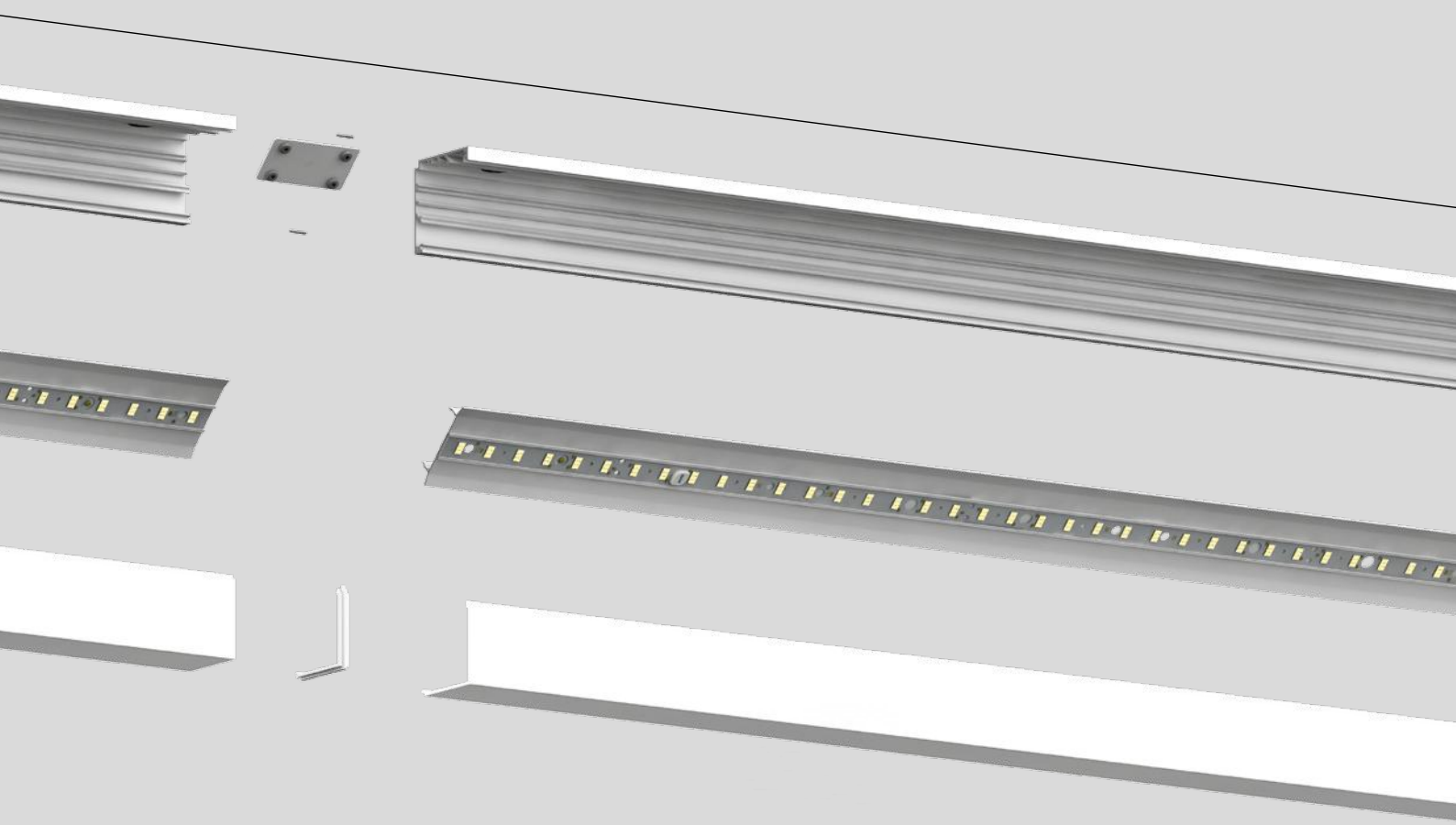
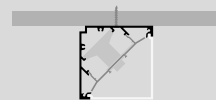


CORNER 65 SYSTEM

L total

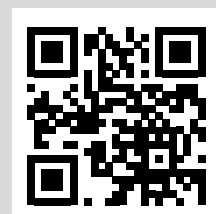


L total = L + L + L + ... + end caps



**Online System
Configurator**

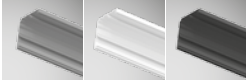
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CORNER 65 SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in kantiger Ausführung, mit 2-seitiger Lichtabstrahlung, lichtdicht abschließende Enddeckel aus Aluminium ohne sichtbare Schrauben, Oberfläche weiß bzw. schwarz pulverbeschichtet oder Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme

EN Luminaire housing from extruded aluminium profile in angular design with double-sided light emission, light-tight end cap closure in aluminium without visible screws, surface powder coated in white or black or natural aluminium anodised finish, designed for continuous lighting systems

INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	040 - 0064
872	040 - 0094
1172	040 - 0124
1472	040 - 0154
2344	040 - 0254
3000	040 - 0304
custom cut	E 85560



END CAPS (pair)

TYPE	ORDER CODE
anodised aluminium	040 - 00036
white	040 - 00037
black	040 - 00038



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	040 - 00015
linear connector (10 pieces)	040 - 00015 . 10
opal cover linear connector	006 - 14005



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

10 pieces per pack



INSET + COVER

Order options

TYPE	
e LED	2
e ² LED	3

COLOUR TEMPERATURE	
3000K	5
4000K	6

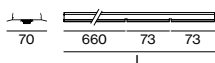
CONTROL	
non DIM	1
DIM DALI (only for e ² LED)	3

EMERGENCY	
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3

Description

DE LED Inset bestehend aus hochreflektierend lackiertem Strangpressprofil und Aluminiumplatte für verbessertes Thermomanagement, HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; durch spezielle Materialzusammensetzung mit erhöhter Transmission und Diffusion

EN LED inset consisting of highly reflective coated extruded profile and aluminium PCB for improved thermal management, HPO (High Performance Opal) cover for uniform illumination through special material composition, with increased transmission and diffusion



INSET CORNER 65



STANDARD

SYSTEM POWER e LED / e ² LED	L (mm)	ORDER CODE
9 W / 14 W	572	0 4 0 - 9 1 0 2 7
14 W / 21 W	872	0 4 0 - 9 1 0 3 7
18 W / 27 W	1172	0 4 0 - 9 1 0 4 7
23 W / 34 W	1464	0 4 0 - 9 1 0 5 7
37 W / 55 W	2344	0 4 0 - 9 1 0 8 7
46 W / 69 W	2926	0 4 0 - 9 1 0 9 7
18 W / 27 W	1172	0 4 0 - 9 1 0 4 7 ●
23 W / 34 W	1464	0 4 0 - 9 1 0 5 7 ●

FLEXIBLE

SYSTEM POWER	L (mm)	ORDER CODE
18 W / 27 W	1172	0 4 0 - 9 1 0 F 7

flexible inset can be cut every 73mm to make total lengths from 660 up to 1172mm

TUNABLE WHITE 3000–6000K / DIM DALI (2 Addr.)

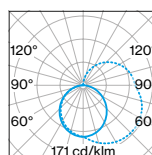
SYS. POWER	L (mm)	ORDER CODE
21 W	872	0 4 0 - 9 1 3 3 0 3 7
27 W	1172	0 4 0 - 9 1 3 4 0 3 7
34 W	1464	0 4 0 - 9 1 3 5 0 3 7
55 W	2344	0 4 0 - 9 1 3 8 0 3 7
69 W	2926	0 4 0 - 9 1 3 9 0 3 7

COVER OPAL



L (mm)	ORDER CODE
570	0 0 6 - 1 4 0 6 5
870	0 0 6 - 1 4 0 9 5
1170	0 0 6 - 1 4 1 2 5
1470	0 0 6 - 1 4 1 5 5
2342	0 0 6 - 1 4 2 3 5
2997	0 0 6 - 1 4 3 0 5
custom cut	E 8 5 5 1 0 0 0

Light distribution

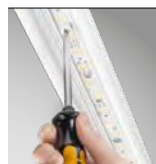


Opal
direct
LOR 73%

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
CORNER 65	e LED	16 W/m	3000K	1627 lm/m	73%	104 lm/W
			4000K	1704 lm/m	73%	109 lm/W
opal cover	e ² LED	23 W/m	3000K	2440 lm/m	73%	104 lm/W
			4000K	2557 lm/m	73%	109 lm/W

Features

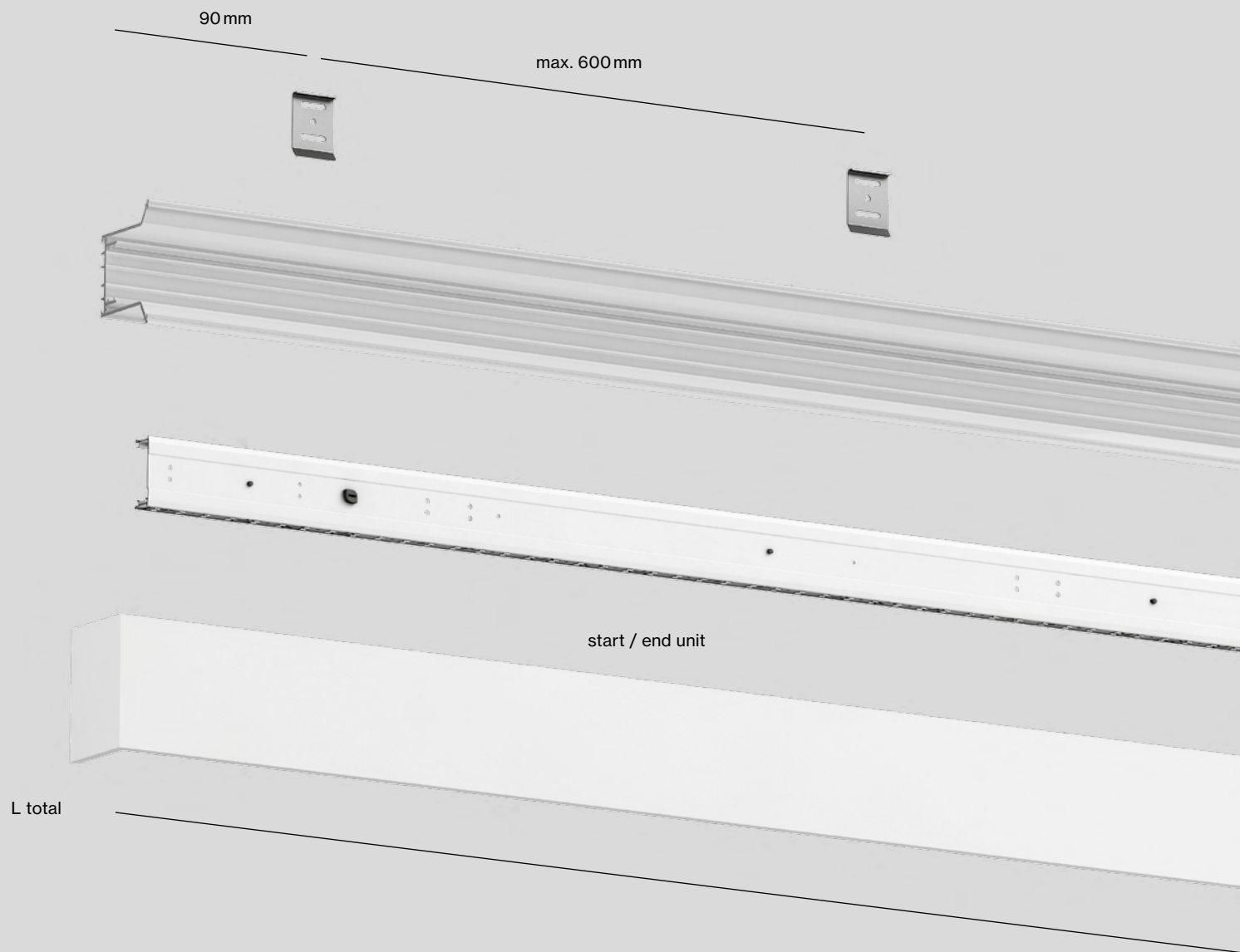


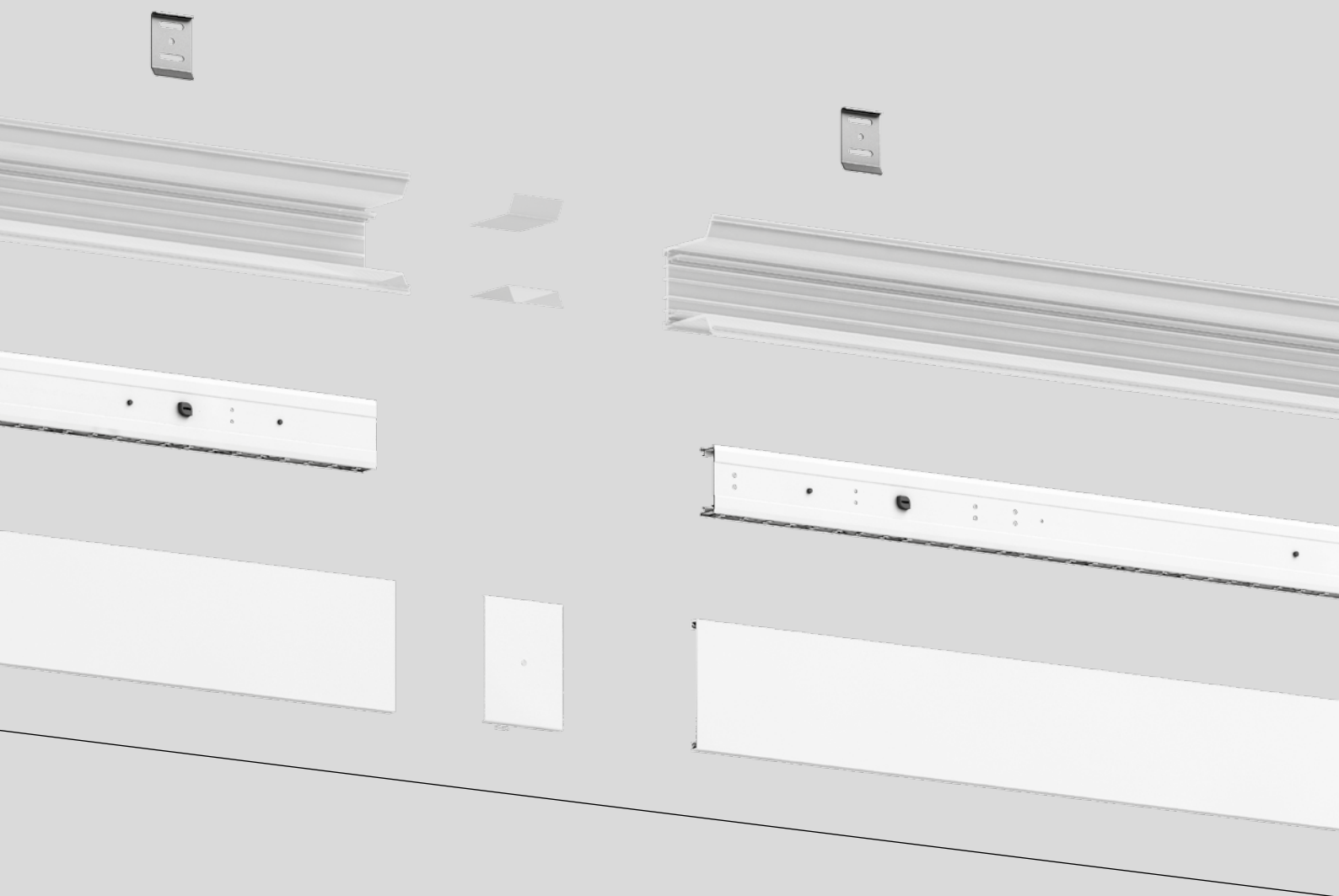
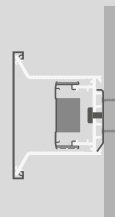
quick lock



flex insets can be shortened

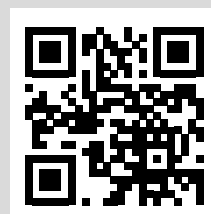
LINEA SYSTEM





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LINEA SYSTEM

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



Description

DE Leuchtenkörper aus satiniertem PMMA Profil, Frontabdeckung aus Aluminiumprofil, lichtdicht abschließende Aluminium-Enddeckel, keine sichtbaren Schrauben, Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium Natur eloxiert, ausgelegt für durchgehende Lichtsysteme

EN Luminaire housing from satinised PMMA profile, front cover made of aluminium profile, light-tight end cap closure in aluminium, no visible screws, surface powder coated in white or black or natural anodised aluminium, designed for continuous lighting systems

INSTALLATION CHANNEL

L (mm)	ORDER CODE
1498	031 - 11150
2995	031 - 11300
custom cut	E85610 ····00



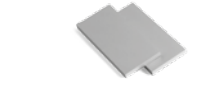
COVER

TYPE	ORDER CODE
2x1500 (start end unit)	031 - 1320
1500	031 - 1015
3000	031 - 1030
custom cut	E85660 ····



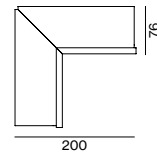
END CAPS (pair)

TYPE	ORDER CODE
anodised aluminium	031 - 13106
white	031 - 13107
black	031 - 13108



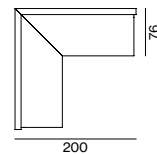
INNER CORNER CONNECTOR 90°

TYPE	ORDER CODE
Inner corner connector 90°	031 - 1200



OUTER CORNER CONNECTOR 90°

TYPE	ORDER CODE
outer corner connector 90°	031 - 1205



MOUNTING BRACKETS

TYPE	ORDER CODE
3 pieces (1500 mm)	031 - 13303
6 pieces (3000 mm)	031 - 13305



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	031 - 1340
linear connector (10 pieces)	031 - 1340 · 10



THROUGH WIRE

TYPE	ORDER CODE
3x1,5mm ²	004 - 90003
5x1,5mm ²	004 - 90005

10 pieces per pack



INSET

Order options

COLOUR TEMPERATURE	
3000 K	5
4000 K	6

CONTROL	
non DIM	1
DIM DALI	3

EMERGENCY	
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3

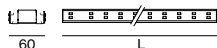
Description

DE LED Inset bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement, Inset mit 2 seitiger Lichtabstrahlung für homogene Wandaufhellung und gleichmäßige direkt/indirekte Lichtverteilung

EN LED inset consisting of highly reflective coated extruded profile for improved thermal management, inset with double-sided light beam for uniform wall illumination and uniform direct/indirect light distribution

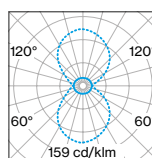


INSET LINEA



SYSTEM POWER	L (mm)	ORDER CODE
18 W	572	0 3 1 - 9 4 3 2 : : 7
27 W	872	0 3 1 - 9 4 3 3 : : 7
37 W	1172	0 3 1 - 9 4 3 4 : : 7
46 W	1464	0 3 1 - 9 4 3 5 : : 7
73 W	2344	0 3 1 - 9 4 3 8 : : 7
37 W	1172	0 3 1 - 9 4 3 4 : : 7 ●
46 W	1464	0 3 1 - 9 4 3 5 : : 7 ●

Light distribution

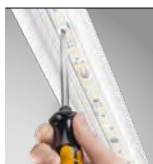


Opal
direct / indirect
LOR 79%

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
LINEA	e ² LED	31W/m	3000 K	3532 lm/m	79%	113 lm/W
			4000 K	3700 lm/m	79%	119 lm/W

Features



quick lock

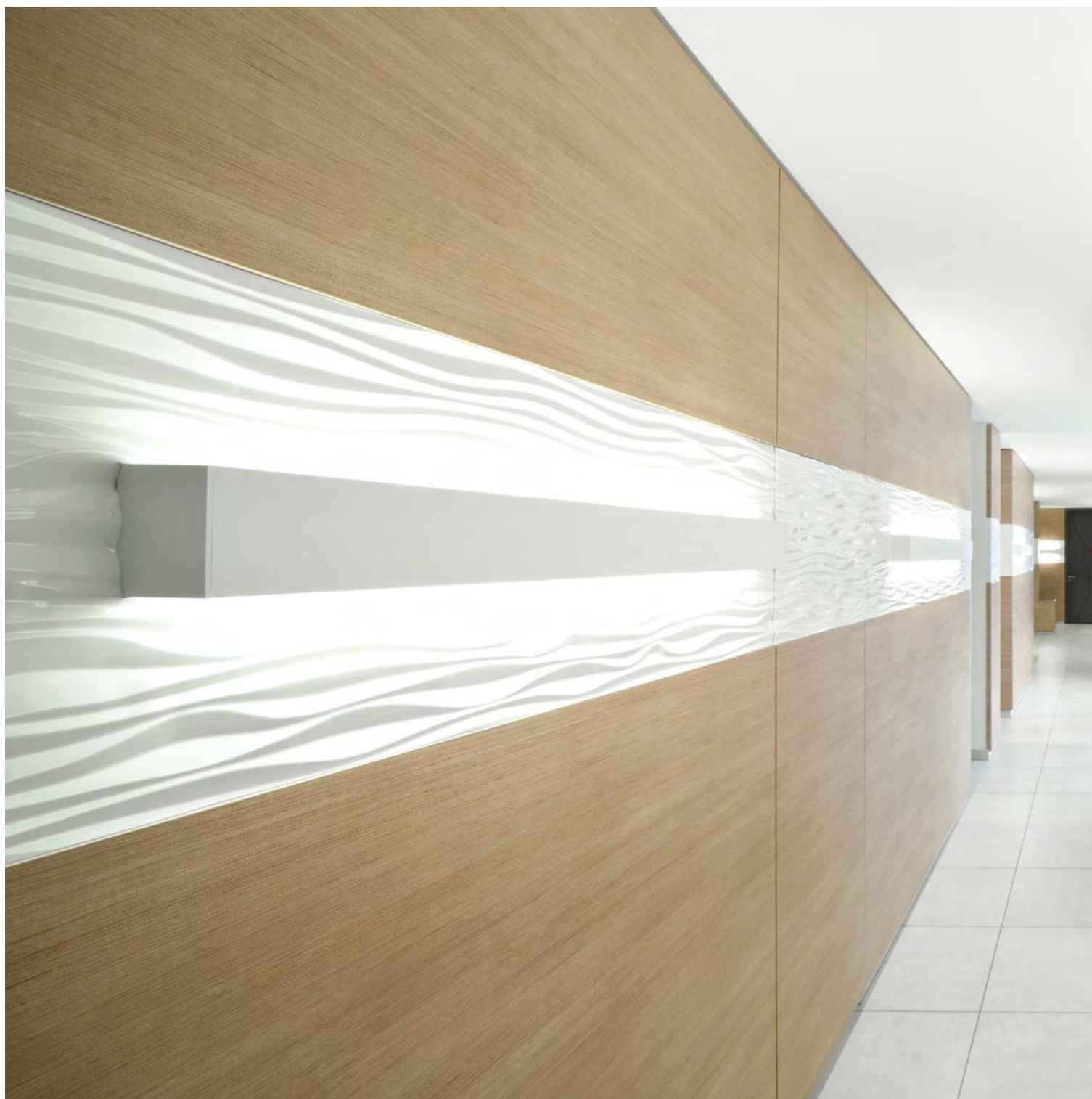
Inspiration

Cardiology
Cologne, Germany

SOLUTION
LINEA

ARCHITECT
hell und freundlich
Cologne, Germany

LIGHTING DESIGN
hell und freundlich
Cologne, Germany





JANE

CHANNEL

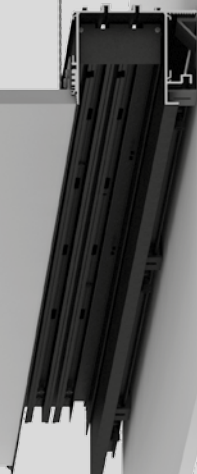


JANE
RECESSED

JANE
CEILING



JANE WALL



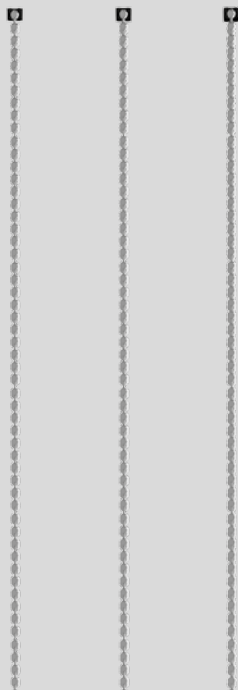
INSET



INSET NANO+TURN

CHAIN

BALL CHAIN



Overview

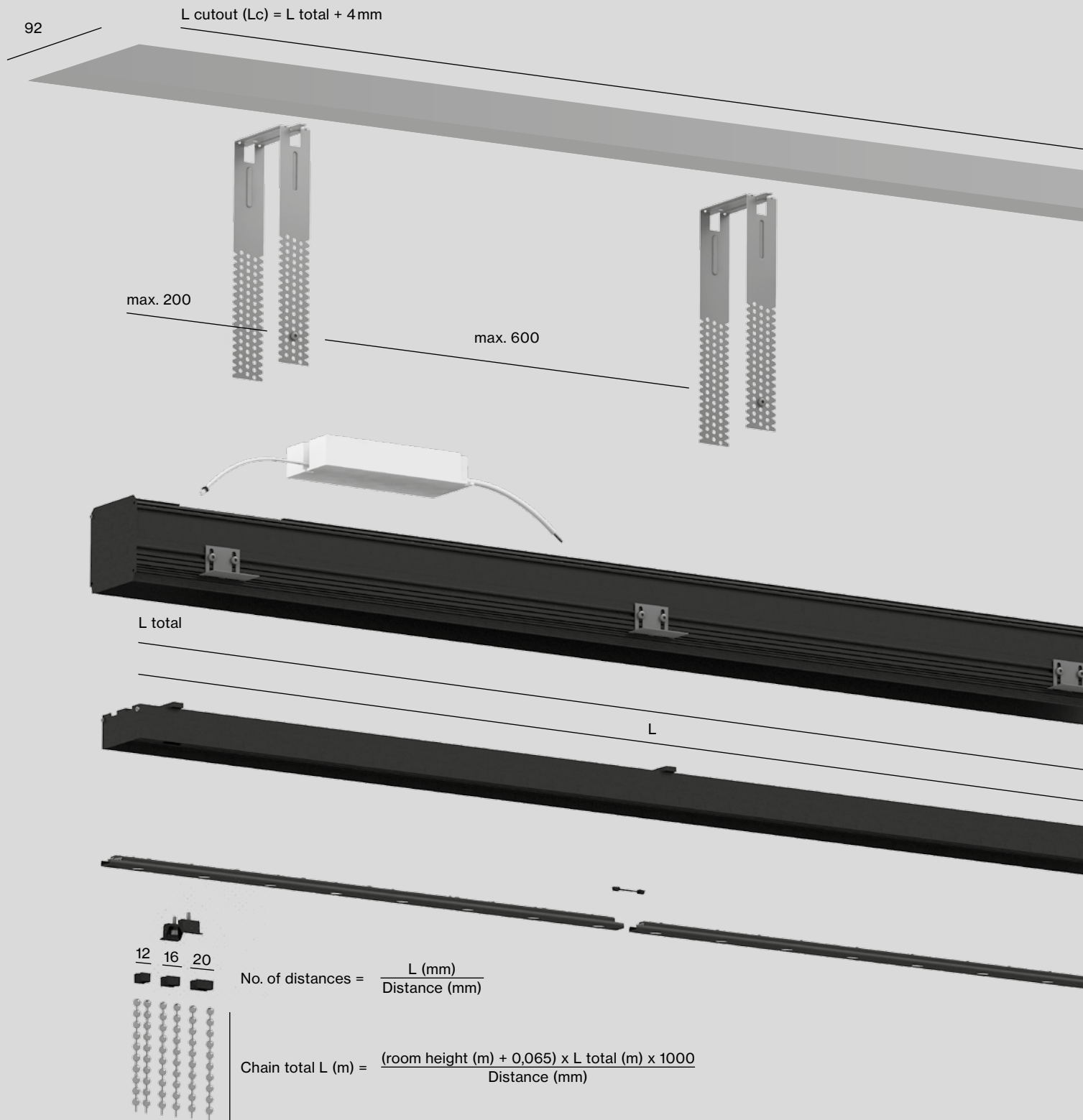
	JANE RECESSED	JANE WALL	JANE CEILING
INSET			
NANO+ TURN 300 mm	.	.	.
NANO+ TURN 600 mm	.	.	.
BALL CHAIN			
chrome	.	.	.
gun metal	.	.	.
DISTANCE			
12 mm	.	.	.
16 mm	.	.	.
20 mm	.	.	.

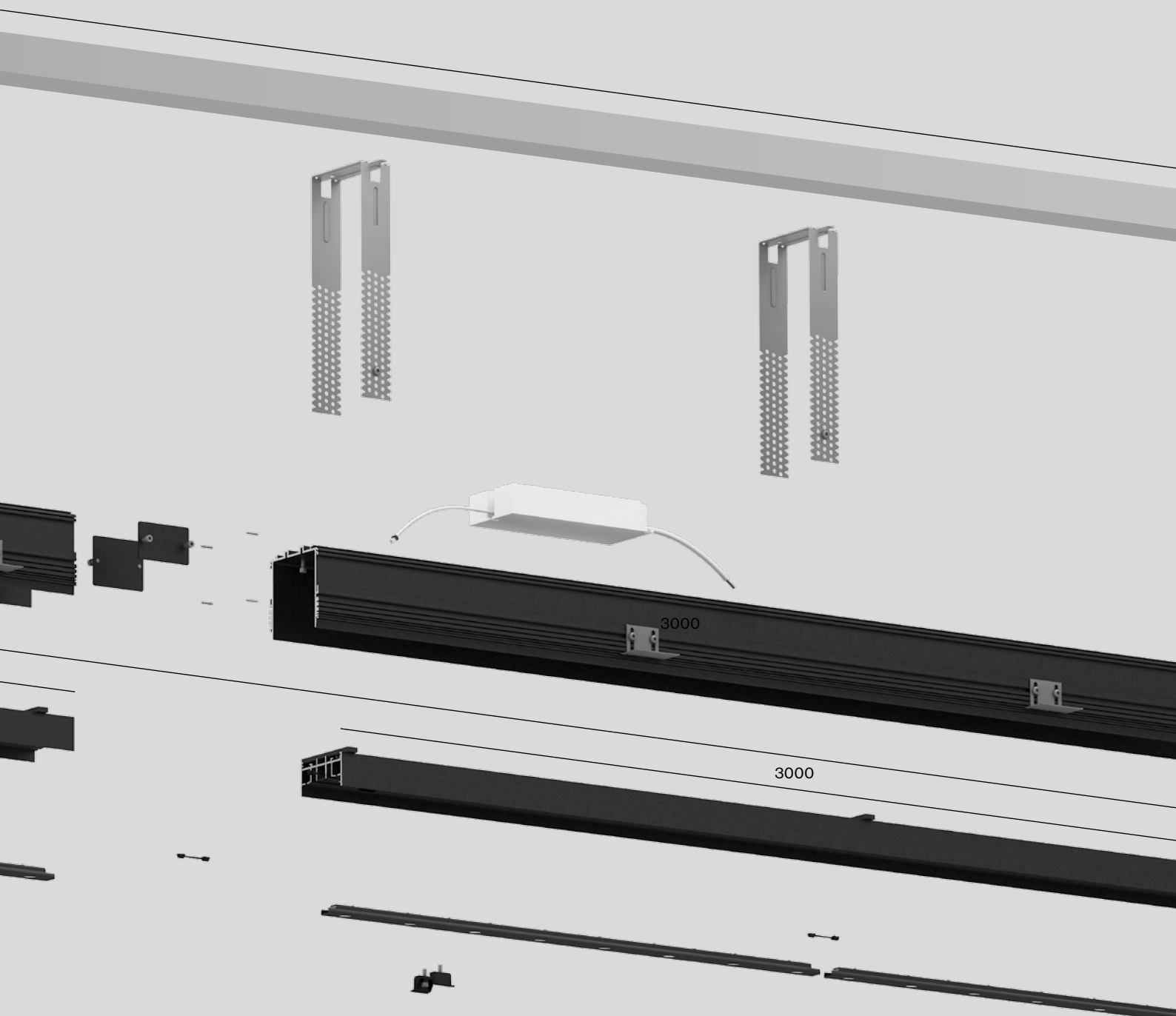
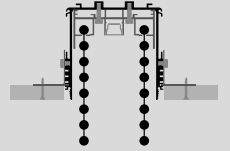
Description

DE Einbau- oder Aufbauprofil aus stranggepresstem Aluminium, schwarz eloxiert; Innenkontur zur Aufnahme von Vorhanghaken bzw. Dekorketten und eines NANO+ Insets; geeignet als Raumteiler, ausgelegt für durchgehende Lichtsysteme; Insets mit durchkontaktiertem elektrischem Stecksystem für werkzeuglose Montage; passiv gekühltes High-Power-LED System; erhältlich in 2 verschiedenen Lichtfarben; inkl. hochwertiger Linsenoptik mit Spot-Abstrahlcharakteristik

EN Recessed or surface mounted profile in extruded aluminium, black anodised; inner contour for mounting of curtain hooks or decorative chains and a NANO+ inset; suitable as room partition, designed for continuous lighting systems; insets with plug and play electrical connector system for tool-less mounting; high power LED system with passive cooling; available in 2 different light colours; incl. high-quality lens system with spot radiation characteristic

JANE RECESSED SYSTEM



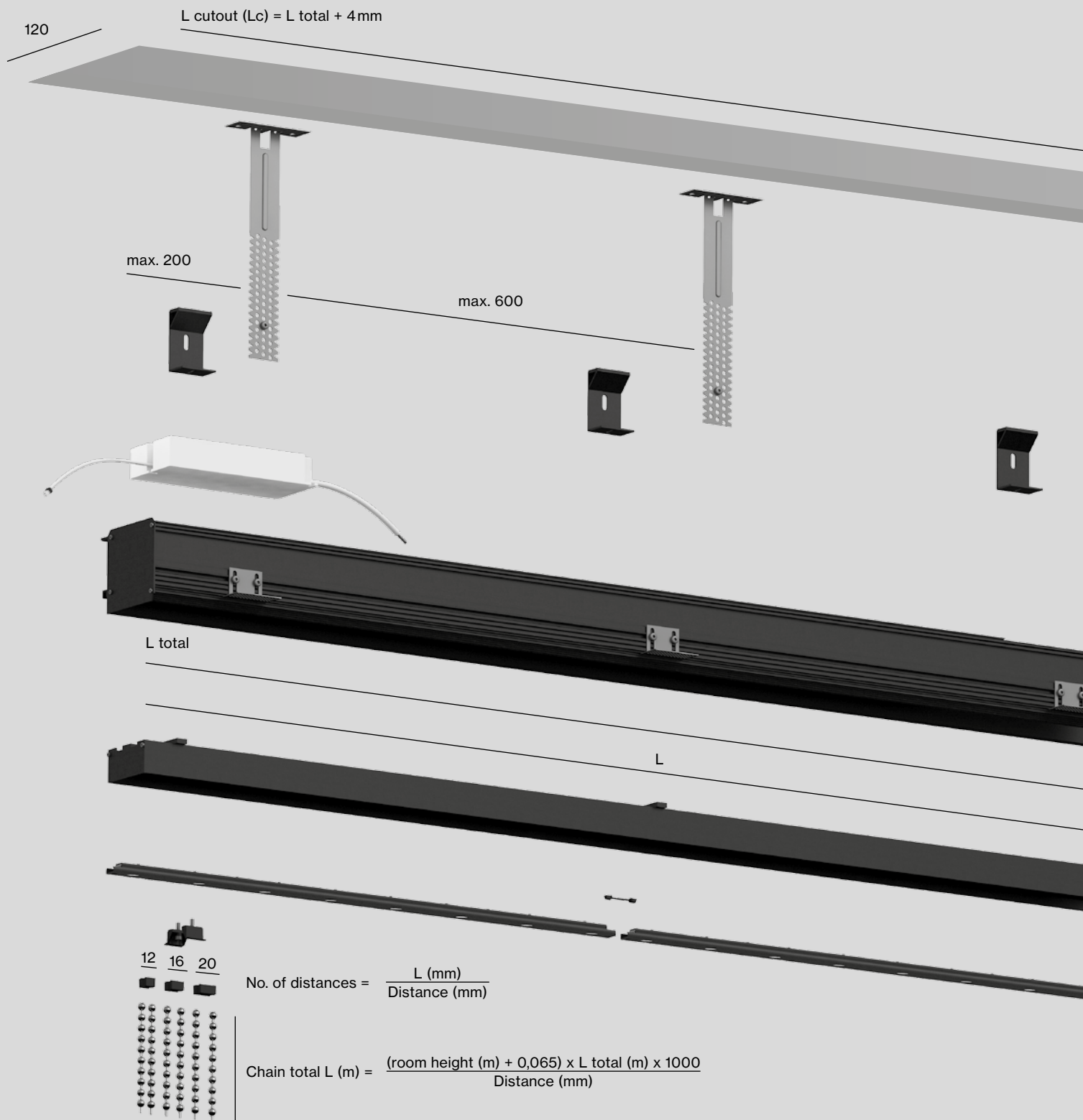


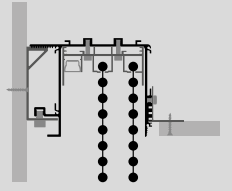
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JANE WALL SYSTEM

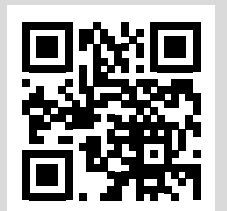




3000

**Online System
Configurator**

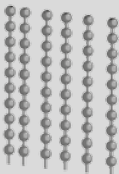
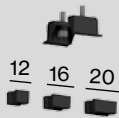
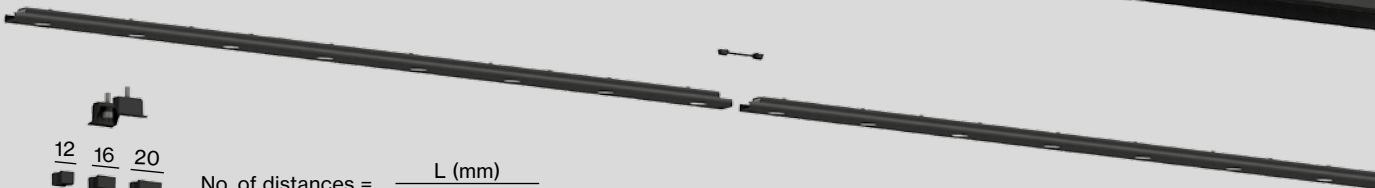
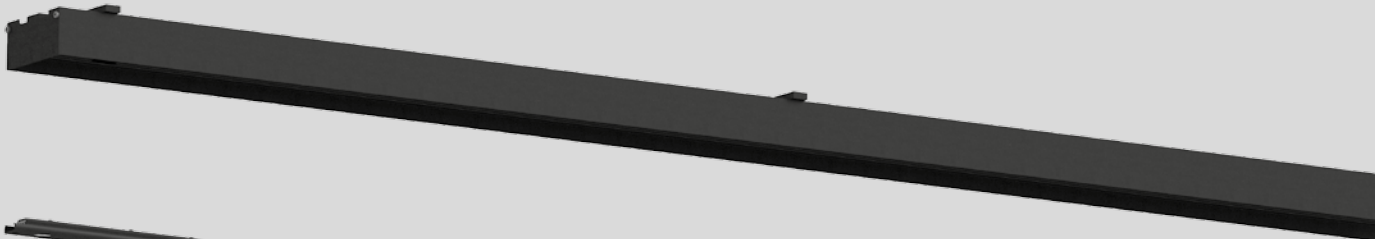
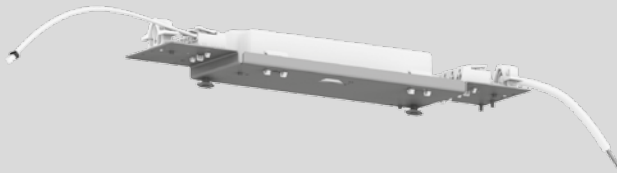
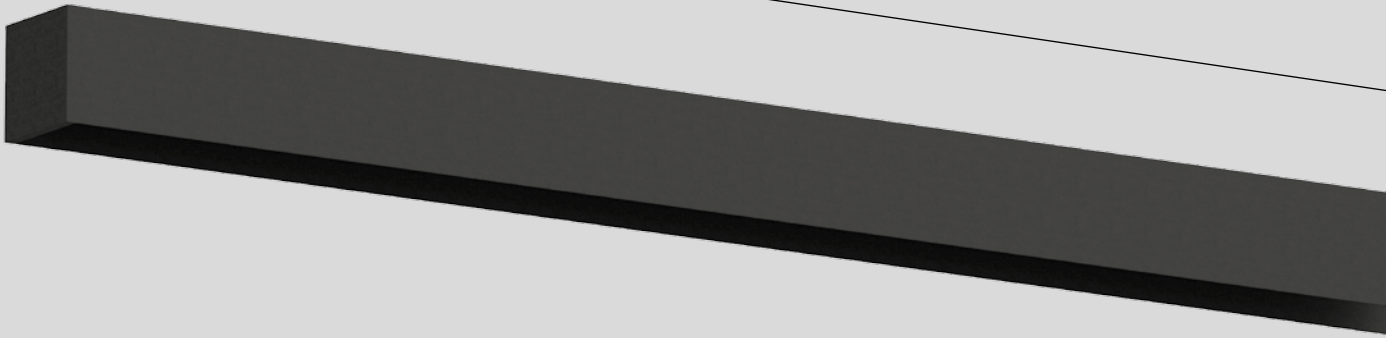
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JANE CEILING SYSTEM

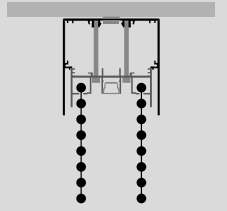
L total

L

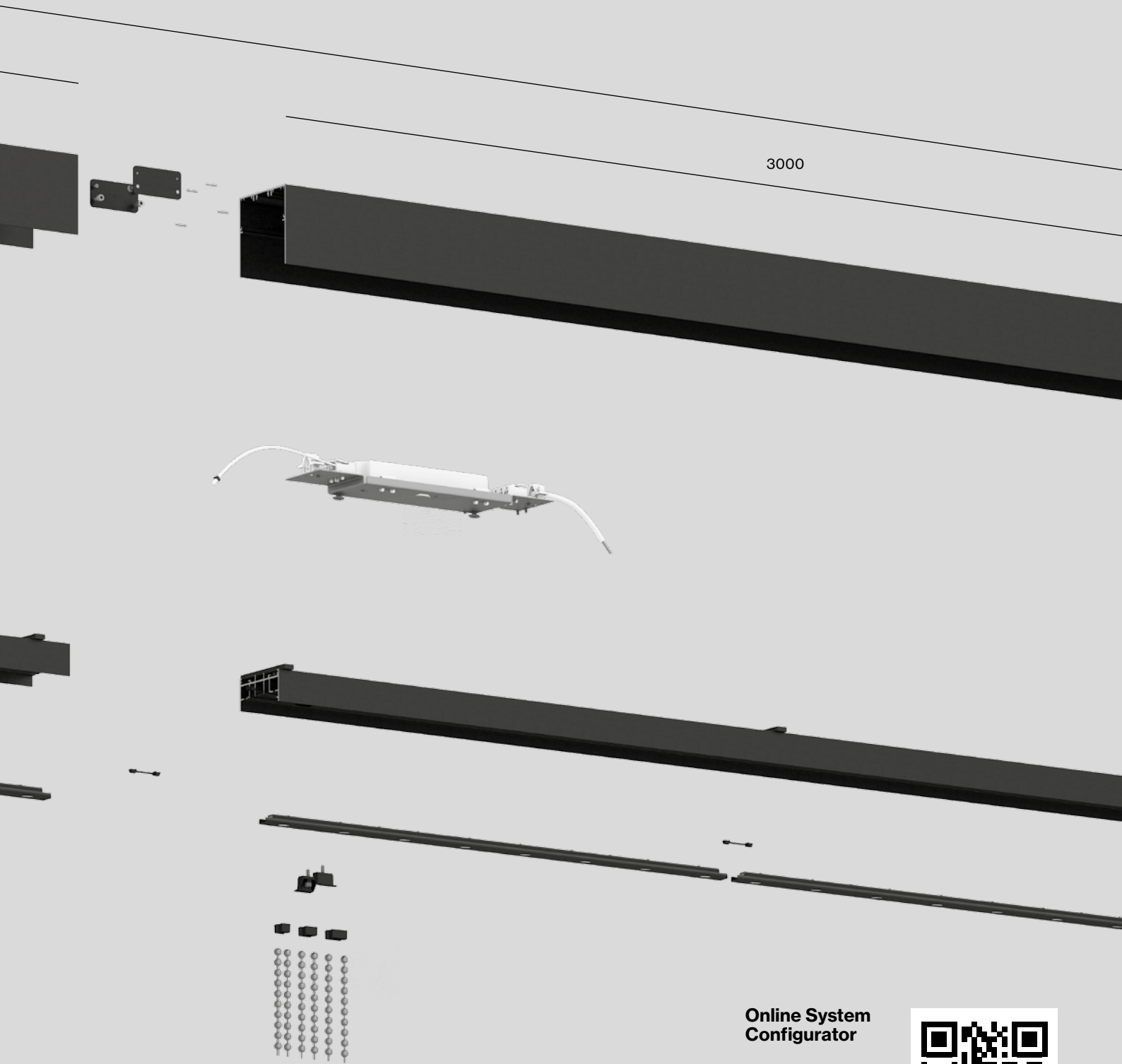


$$\text{No. of distances} = \frac{L \text{ (mm)}}{\text{Distance (mm)}}$$

$$\text{Chain total L (m)} = \frac{(\text{room height (m)} + 0,065) \times L \text{ total (m)} \times 1000}{\text{Distance (mm)}}$$

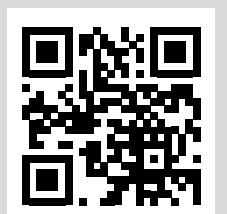


3000



**Online System
Configurator**

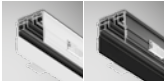
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systems.xal.com



JANE RECESSED SYSTEM

Order options

MATERIAL COLOUR	
white/black	7
black/black	8



Description

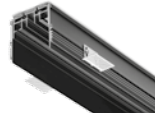
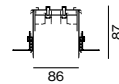
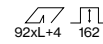
DE Einbauprofil aus stranggepresstem Aluminium, Innenkontur zur Aufnahme von Vorhanghaken bzw. Dekorketten und eines NANO+ Insets, geeignet als Raumteiler, ausgelegt für durchgehende Lichtsysteme

EN Recessed profile in extruded aluminium, inner contour for mounting of curtain hooks or decorative chains and a NANO+ inset, suitable as room partition, designed for continuous lighting systems

INSTALLATION CHANNEL INCL. END CAPS

L (mm)	ORDER CODE
616	031 - 2061
916	031 - 2091
1216	031 - 2121
1516	031 - 2151
2116	031 - 2191
2416	031 - 2251
3000 system (without end caps)	031 - 2301
custom cut	E 85710

Weight: 2,91 kg per meter



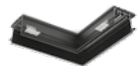
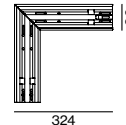
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	031 - 16910
linear connector (10 pieces)	031 - 16910 . 10



CORNER CONNECTOR 90°

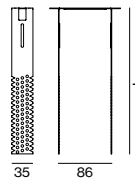
TYPE	ORDER CODE
symmetric	031 - 1711



FIXING UNIT

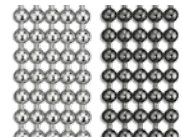
L (mm)	ORDER CODE
160-250	031 - 16750
160-250 (10 pieces)	031 - 16750 . 10
250-350	031 - 16760
250-350 (10 pieces)	031 - 16760 . 10
350-500	031 - 16770
350-500 (10 pieces)	031 - 16770 . 10

number of brackets required: length of your system in metres+1



BALL CHAIN

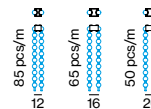
COLOUR	L (m)	ORDER CODE
chrome	20	031 - 14004 . 20
gun metal	20	031 - 14005 . 20



DISTANCE

DISTANCE (mm)	ORDER CODE
12 (100 pieces)	031 - 16110 . 100
16 (100 pieces)	031 - 16120 . 100
20 (100 pieces)	031 - 16130 . 100

See page 471 for weight specification

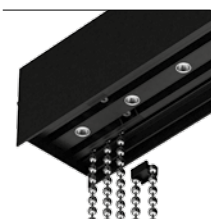


CURTAIN HOOKS

TYPE	ORDER CODE
curtain hooks (50 pieces)	031 - 15102 . 50
clip curtain hooks (50 pieces)	031 - 15101 . 50



Features

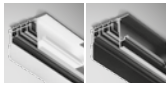


easy hooking
of chains

JANE WALL SYSTEM

Order options

MATERIAL COLOUR	
white/black	7
black/black	8



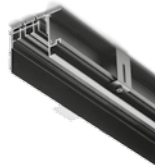
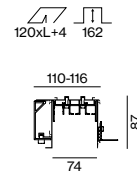
Description

DE Einbauprofil aus stranggepresstem Aluminium, geeignet als Wandanschlussprofil, mit Innenkontur zur Aufnahme von Vorhanghaken bzw. Dekorketten und eines NANO+ Insets, geeignet als Raumteiler, ausgelegt für durchgehende Lichtsysteme

EN Recessed profile in extruded aluminium, suitable as wall installation profile, with inner contour for mounting of curtain hooks or decorative chains and a NANO+ inset, suitable as room partition, designed for continuous lighting systems

INSTALLATION CHANNEL INCL. END CAPS

L (mm)	ORDER CODE
616	031 - 2064
916	031 - 2094
1216	031 - 2124
1516	031 - 2154
2116	031 - 2194
2416	031 - 2254
3000 system (without end caps)	031 - 2304
custom cut	E 85740



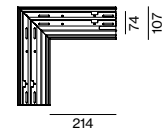
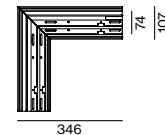
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	031 - 16920
linear connector (10 pieces)	031 - 16920 . 10



CORNER CONNECTOR 90°

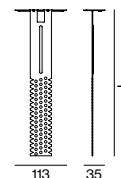
TYPE	L (mm)	ORDER CODE
inner corner	346	031 - 1813
outer corner	214	031 - 1823



FIXING UNIT

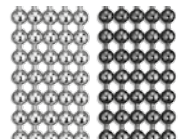
L (mm)	ORDER CODE
160-250	031 - 16710
160-250 (10 pieces)	031 - 16710 . 10
250-350	031 - 16720
250-350 (10 pieces)	031 - 16720 . 10
350-500	031 - 16730
350-500 (10 pieces)	031 - 16730 . 10

number of brackets required: length of your system in metres+1



BALL CHAIN

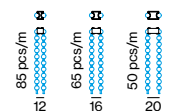
COLOUR	L (m)	ORDER CODE
chrome	20	031 - 14004 . 20
gun metal	20	031 - 14005 . 20



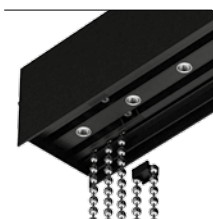
DISTANCE

DISTANCE (mm)	ORDER CODE
12 (100 pieces)	031 - 16110 . 100
16 (100 pieces)	031 - 16120 . 100
20 (100 pieces)	031 - 16130 . 100

See page 471 for weight specification



Features



easy hooking
of chains

CURTAIN HOOKS

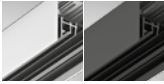
TYPE	ORDER CODE
curtain hooks (50 pieces)	031 - 15102 . 50
clip curtain hooks (50 pieces)	031 - 15101 . 50



JANE CEILING SYSTEM

Order options

MATERIAL COLOUR	
white	7
black	8



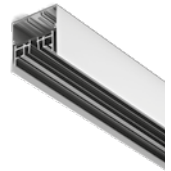
Description

DE Aufbauprofil aus stranggepresstem Aluminium, Innenkontur zur Aufnahme von Vorhanghaken bzw. Dekorketten und eines NANO+ Insets, geeignet als Raumteiler, ausgelegt für durchgehende Lichtsysteme

EN Surface mounted profile made of extruded aluminium, inner contour for mounting of curtain hooks or decorative chains and a NANO+ inset, suitable as room partition, designed for continuous lighting systems

INSTALLATION CHANNEL INCL. END CAPS

L (mm)	ORDER CODE
628	031 - 2065
928	031 - 2095
1228	031 - 2125
1528	031 - 2155
2128	031 - 2195
2428	031 - 2255
3000 system (without end caps)	031 - 2305
custom cut	E 85750



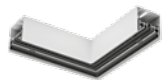
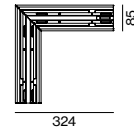
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	031 - 16930
linear connector (10 pieces)	031 - 16930 . 10



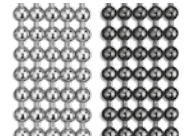
CORNER CONNECTOR 90°

TYPE	ORDER CODE
symmetric	031 - 1911



BALL CHAIN

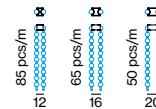
COLOUR	L (m)	ORDER CODE
chrome	20	031 - 14004 . 20
gun metal	20	031 - 14005 . 20



DISTANCE

DISTANCE (mm)	ORDER CODE
12 (100 pieces)	031 - 16110 . 100
16 (100 pieces)	031 - 16120 . 100
20 (100 pieces)	031 - 16130 . 100

See page 471 for weight specification

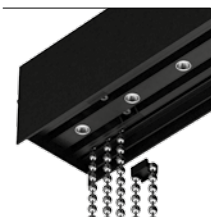


CURTAIN HOOKS

TYPE	ORDER CODE
curtain hooks (50 pieces)	031 - 15102 . 50
clip curtain hooks (50 pieces)	031 - 15101 . 50



Features



easy hooking
of chains

INSET

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

MATERIAL COLOUR

anodised black only

BEAM ANGLE

spot 21° only

Description

DE Miniaturleuchtenprofil aus Aluminium, durchkontaktiertes elektrisches Stecksystem für werkzeuglose Montage, passiv gekühltes High-Power-LED System, erhältlich in 2 verschiedenen Lichtfarben, inkl. hochwertiger Linsenoptik mit Spot-Abstrahlcharakteristik

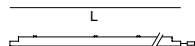
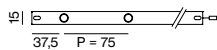
EN Miniature luminaire profile in aluminium, plug and play electrical connector system for toolless mounting, high power LED system with passive cooling, available in 2 different light colours, incl. high-quality lens system with spot radiation characteristic



INSET NANO+ TURN

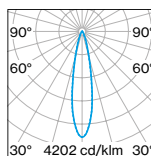


SYSTEM POWER / VOLTAGE	NO. OF LEDS	L P (mm)	ORDER CODE
4x1,2W / 6V	4	300 75	007 - 4003 18 S
8x1,2W / 12V	8	600 75	007 - 4006 18 S



P = LED pitch

Light distribution



Spot 21°
direct
LOR 87 %

JANE RECESSED / WALL electrical accessories

LED CONVERTER 700mA INCL. POWER CABLE 2m + CONNECTION CABLE WITH PLUG 1m, SUPPLY 220-240V AC, 50-60Hz, ENEC APPROVED

TYPE	LEDS	CABLE (m)	L·W·H (mm)	ORDER CODE
20 W / 10-28 V non DIM	8-16	max.10	184-40-25	007 - 1953310
30 W / 10-43 V non DIM	8-24	max.11	127-67-28	007 - 1953410
40 W / 20-57 V non DIM	14-32	max.11	225-47-28	007 - 1953510
66 W / 18-48 V non DIM	2x14-2x24	max.2x18	148-77-33	007 - 1954410
20 W / 10-28 V DIM DALI	8-16	max.10	184-40-25	007 - 1953330
30 W / 10-43 V DIM DALI	8-24	max.11	127-67-28	007 - 1953430
40 W / 20-57 V DIM DALI	14-32	max.11	225-47-28	007 - 1953530
66 W / 18-48 V DIM DALI	2x14-2x24	max.2x18	148-77-33	007 - 1954430

EXTENSION CABLE

TYPE	INPUT / OUTPUT	L (mm)	ORDER CODE
extension cable	1x socket / 1x plug	1000	007 - 1961210
extension cable	1x socket / 1x plug	2000	007 - 1961410
extension cable	1x socket / 1x plug	4000	007 - 1961610

See page 471 for wiring examples

JANE CEILING electrical accessories

LED CONVERTER 700mA + CONNECTION CABLE WITH PLUG 1m, SUPPLY 220-240V AC, 50-60Hz, ENEC APPROVED

TYPE	LEDS	CABLE (m)	L·W·H (mm)	ORDER CODE
20 W / 10-28 V non DIM	8-16	max.10	370-68-38	007 - 1953319
40 W / 20-57 V non DIM	14-32	max.11	370-68-38	007 - 1953519
20 W / 10-28 V DIM DALI	8-16	max.10	370-68-38	007 - 1953339
40 W / 20-57 V DIM DALI	14-32	max.11	370-68-38	007 - 1953539

See page 471 for wiring examples

OVERVIEW LINE ENTRY

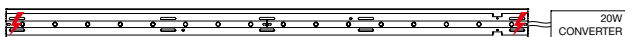
RECESSED | WALL CHANNEL 616
8 LED | 700mA | 1x20W CONVERTER



RECESSED | WALL CHANNEL 916
12 LED | 700mA | 1x20W CONVERTER



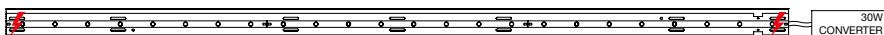
RECESSED | WALL CHANNEL 1216
16 LED | 700mA | 1x20W CONVERTER



RECESSED | WALL CHANNEL 1516
20 LED | 700mA | 1x30W CONVERTER



RECESSED | WALL CHANNEL 1816
24 LED | 700mA | 1x30W CONVERTER



RECESSED | WALL CHANNEL 2116
28 LED | 700mA | 1x40W CONVERTER



RECESSED | WALL CHANNEL 2416
32 LED | 700mA | 1x40W CONVERTER



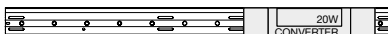
RECESSED | WALL CHANNEL 3000
40 LED | 700mA | 1x66W CONVERTER



CEILING CHANNEL 628
8 LED | 700mA | 20W CONVERTER INSET



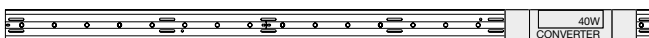
CEILING CHANNEL 928
12 LED | 700mA | 20W CONVERTER INSET



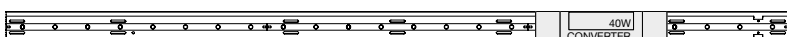
CEILING CHANNEL 1228
16 LED | 700mA | 20W CONVERTER INSET



CEILING CHANNEL 1528
20 LED | 700mA | 40W CONVERTER INSET



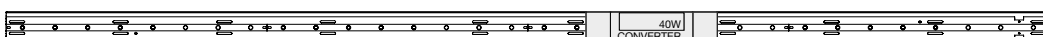
CEILING CHANNEL 1828
24 LED | 700mA | 40W CONVERTER INSET



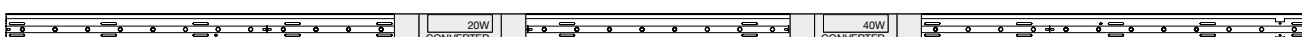
CEILING CHANNEL 2128
28 LED | 700mA | 40W CONVERTER INSET



CEILING CHANNEL 2428
32 LED | 700mA | 40W CONVERTER INSET

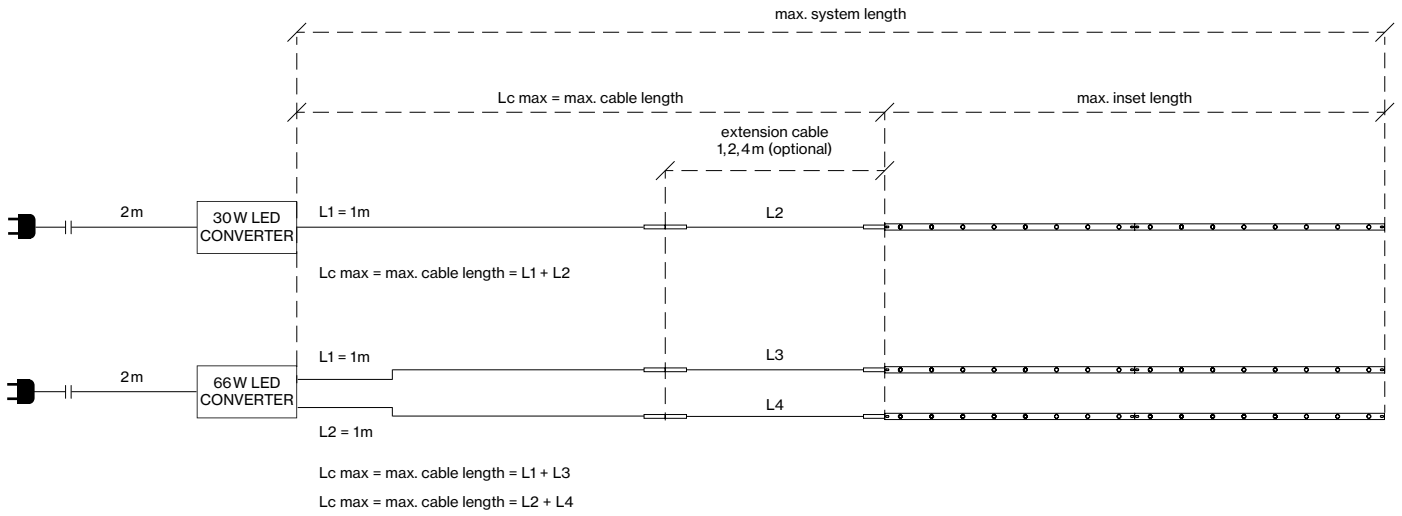


CEILING CHANNEL 3000
40 LED | 700mA | 20W + 40W CONVERTER INSET

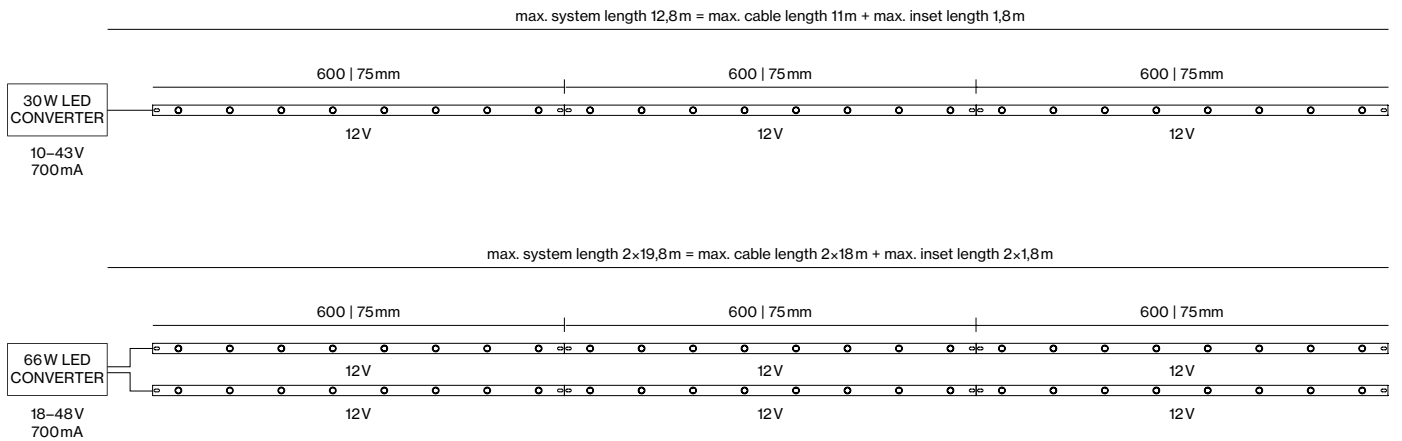


WIRING EXAMPLE JANE

GENERAL



NANO+ TURN



		LEDs	Lc max (m)	LED distance 75 mm (inset length)	
				min.	max.
CONVERTER 700mA					
20W / 10-28V	non DIM / DIM DALI	8-16	10	600	1200
30W / 10-43V	non DIM / DIM DALI	8-24	11	600	1800
40W / 20-57V	non DIM / DIM DALI	14-32	11	1050	2400
66W / 18-48V	non DIM / DIM DALI	2x14-2x24	2x18	2x1050	2x1800

WEIGHT SPECIFICATION

CHAIN	DISTANCE (mm)	Ball Chain Length (mm)							
		4000	3500	3000	2500	2000	1500	1000	500
		WEIGHT (KG/1000mm)							
Ball	8	50	44	39	33	33	28	16	10
Ball	12	35	31	28	28	24	20	13	9
Ball	16	28	25	22	22	19	16	11	8
Ball	20	23	21	19	19	16	14	10	7

Maximum weight: 50kg/m

Inspiration

Microsoft Headquarters
Vienna, Austria

SOLUTION
JANE CEILING

ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria

LIGHTING DESIGN
INNOCAD Architektur ZT GmbH
Graz, Austria

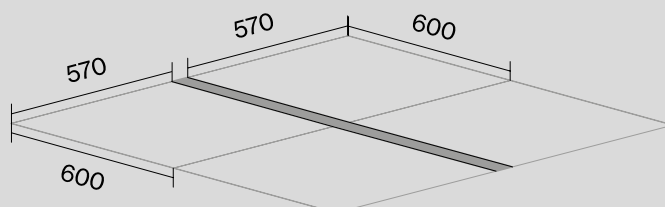
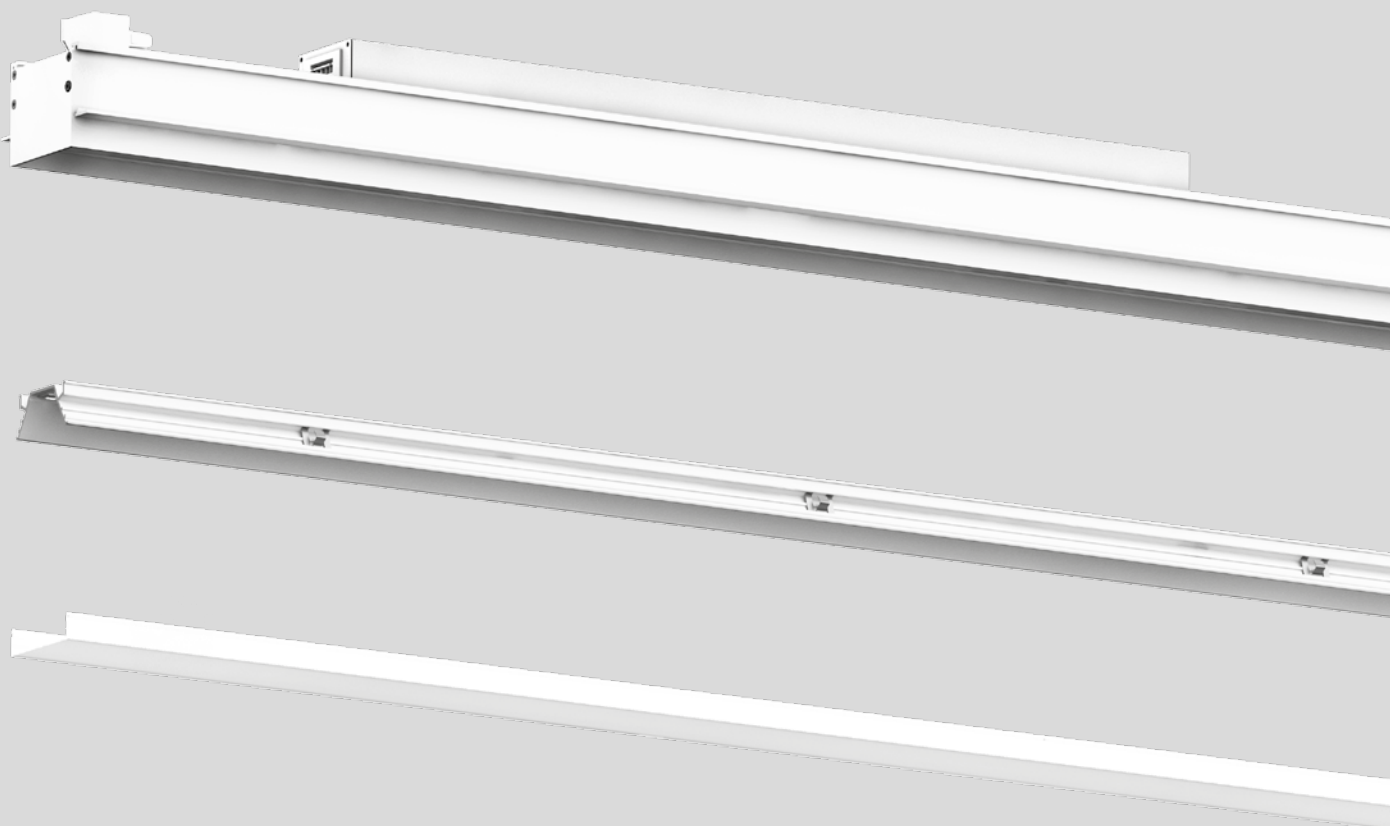




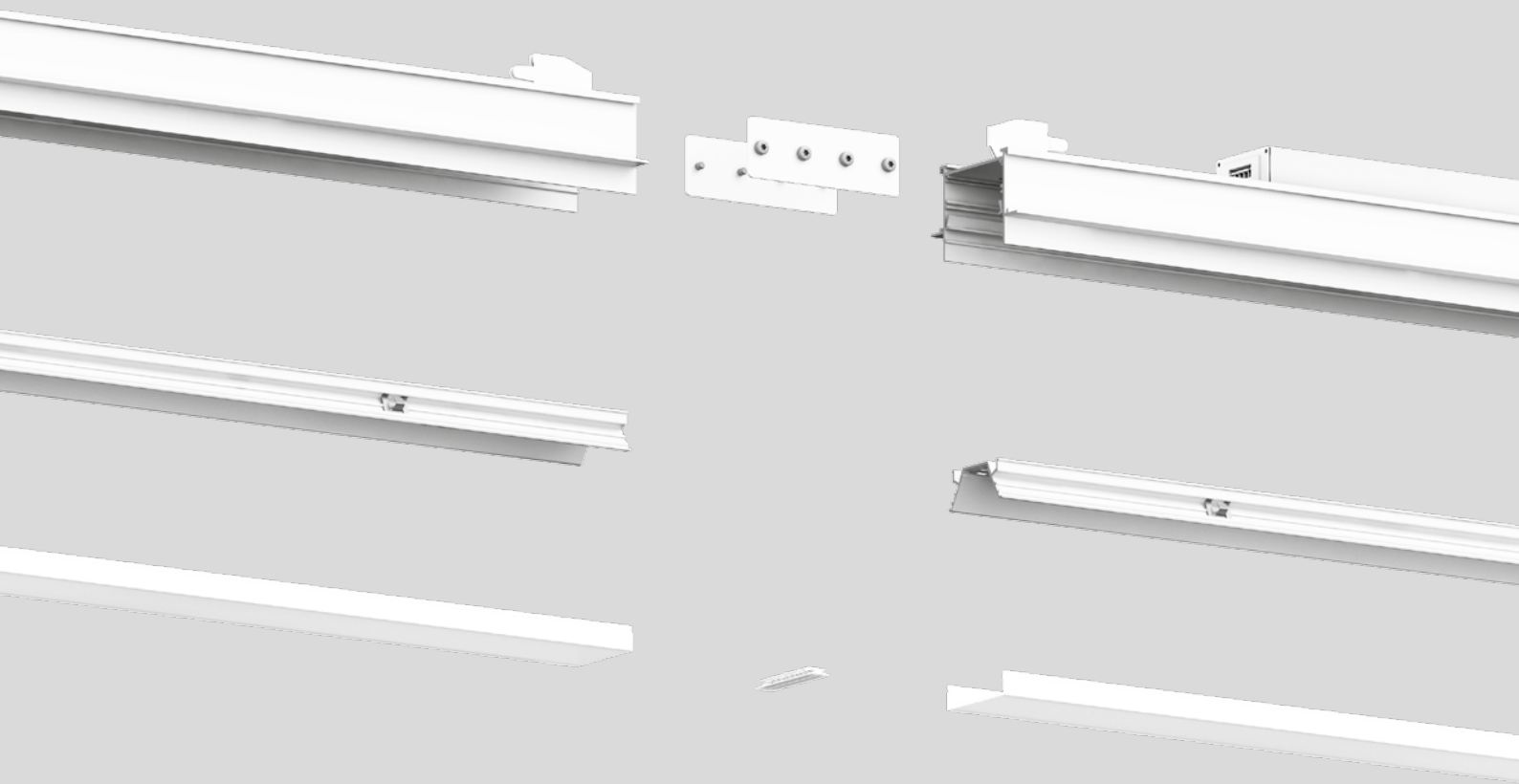
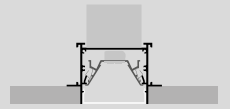
MINO X SYSTEM

Made for „Rockfon System X“ | Plug & Play installation

Rockfon
ACTIVATE YOUR CEILING



L total = L + L + L + ... + end caps



**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



MINO X SYSTEM

Made for „Rockfon System X“ | Plug & Play installation

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

UNIT	
middle (run)	4
start / end	5

MATERIAL COLOUR	
white only	

POLE	
3-pole	1
5-pole	2

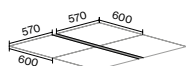
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, Oberfläche weiß pulverbeschichtet, speziell für Einsatz in Rockfon X Deckeneinbausystemen konzipiert, individuelle Anpassung möglich, mit Snap-In Einbaubügel für einfache und werkzeuglose Montage

EN Luminaire housing from extruded aluminium profile, surface white powder-coated, specially developed for use in Rockfon X recessed ceiling systems, individual adjustment possible, with snap-in mounting brackets for easy mounting without tools

Features

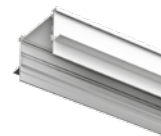
Rockfon
ACTIVATE YOUR CEILING



Made for "Rockfon®
System X". Plug &
Play installation.

INSTALLATION CHANNEL WITHOUT LED INSET

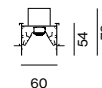
L (mm)	ORDER CODE
600	0 5 9 - 4 4 3 2 1 1 7
1200	0 5 9 - 4 8 0 4 1 1 7
custom cut	E 8 5 4 6 1 7



INSTALLATION CHANNEL WITH LED INSET

TYPE	L (mm)	ORDER CODE
13W e ² LED	600	0 5 9 - 4 4 3 2 : : : 7
25W e ² LED	1200	0 5 9 - 4 4 3 4 : : : 7
38W e ² LED	1800	0 5 9 - 4 4 3 6 : : : 7
50W e ² LED	2400	0 5 9 - 4 4 3 8 : : : 7
63W e ² LED	3000	0 5 9 - 4 4 3 9 : : : 7

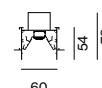
1 DALI Addr.



INSTALLATION CHANNEL WITH TUNABLE WHITE INSET

TYPE	L (mm)	ORDER CODE
25W e ² LED	1200	0 5 9 - 4 4 3 4 0 3 7
38W e ² LED	1800	0 5 9 - 4 4 3 6 0 3 7
50W e ² LED	2400	0 5 9 - 4 4 3 8 0 3 7

3000-6000K / DIM DALI (2 DALI Addr.)



END CAPS (pair)

TYPE	H (mm)	ORDER CODE
end caps	50	0 5 9 - 4 8 2 0 1 1 7
end caps for jut-out	58	0 5 9 - 4 8 2 0 1 2 7



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 5 9 - 4 8 1 0 1 1 0
linear connector (10 pieces)	0 5 9 - 4 8 1 0 1 1 0 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 3



BLIND COVER

L (mm)	ORDER CODE
600	0 5 9 - 4 8 9 0 4 2 7
1200	0 5 9 - 4 8 9 0 4 4 7
custom cut	E 8 0 6 3 1 7 B



POWER FEEDER 220-240V | 13A

TYPE	ORDER CODE
power feeder	0 5 8 - 2 9 1 1 : 1 0



CONNECTION CABLE 220-240V | 13A

L (mm)	ORDER CODE
1000	0 5 9 - 4 8 4 1 : 1 0
2000	0 5 9 - 4 8 4 2 : 1 0
3000	0 5 9 - 4 8 4 3 : 1 0



COVER

Order options

UNIT	
middle (run)	4
start / end	5

Description

DE HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; durch spezielle Materialzusammensetzung mit erhöhter Transmission und Diffusion; wahlweise mit mikroprismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte

EN HPO (High Performance Opal) cover for uniform illumination through special material composition, with increased transmission and diffusion, also available in protruding variant or as microprismatic PMMA cover for reducing luminance



COVER OPAL



L (mm)

599	059 - 4890420H
1199	059 - 4890440H
1798	059 - 4890460H
2397	059 - 4890480H
2997	059 - 4890490H
custom cut	E80631...0H



COVER MICROPRISMATIC



L (mm)

599	059 - 4890420P
1199	059 - 4890440P
1798	059 - 4890460P
2397	059 - 4890480P
2997	059 - 4890490P
custom cut	E80631...0P



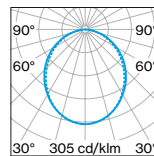
COVER OPAL JUT-OUT



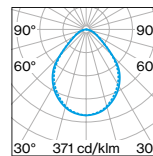
L (mm)

599	059 - 4890420J
1199	059 - 4890440J
1798	059 - 4890460J
2397	059 - 4890480J
2997	059 - 4890490J
custom cut	E80631...0J

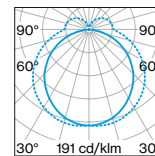
Light distribution



Opal
direct
LOR 78%



Microprismatic
direct
LOR 69%



Jut out
direct
LOR 81%

Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	LOR	EFFICACY
MINO X opal cover	e ² LED	21W/m	3000K	2349 lm/m	78%	112 lm/W
			4000K	2461 lm/m	78%	117 lm/W
MINO X microprismatic cover	e ² LED	21W/m	3000K	2074 lm/m	69%	99 lm/W
			4000K	2173 lm/m	69%	103 lm/W
MINO X jut-out cover	e ² LED	21W/m	3000K	2420 lm/m	81%	115 lm/W
			4000K	2535 lm/m	81%	121 lm/W

Inspiration

DTU Space Institute
Denmark

SOLUTION
MINO X

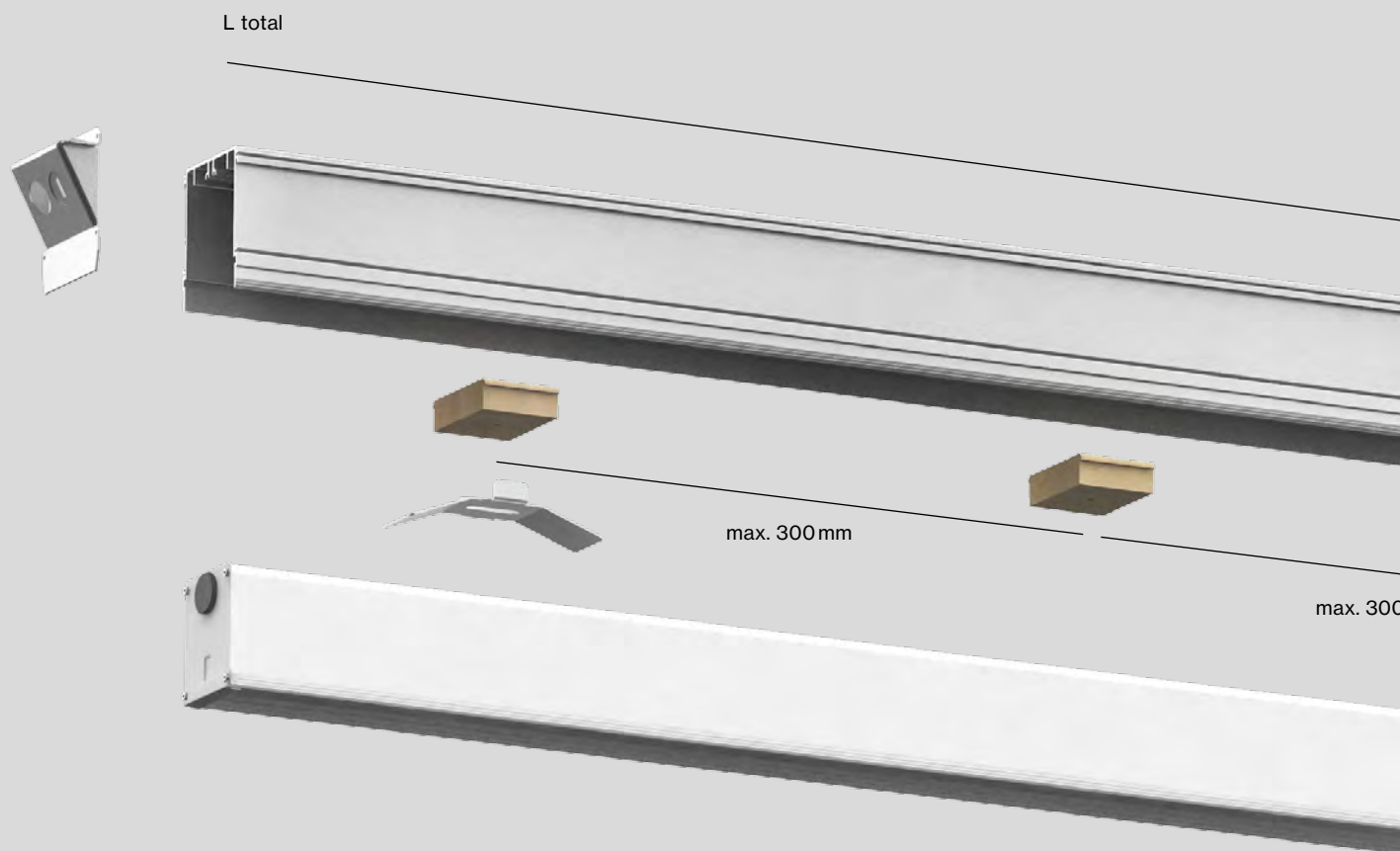
ARCHITECT
Erik Moller Arkitekter A/S
Copenhagen, Denmark

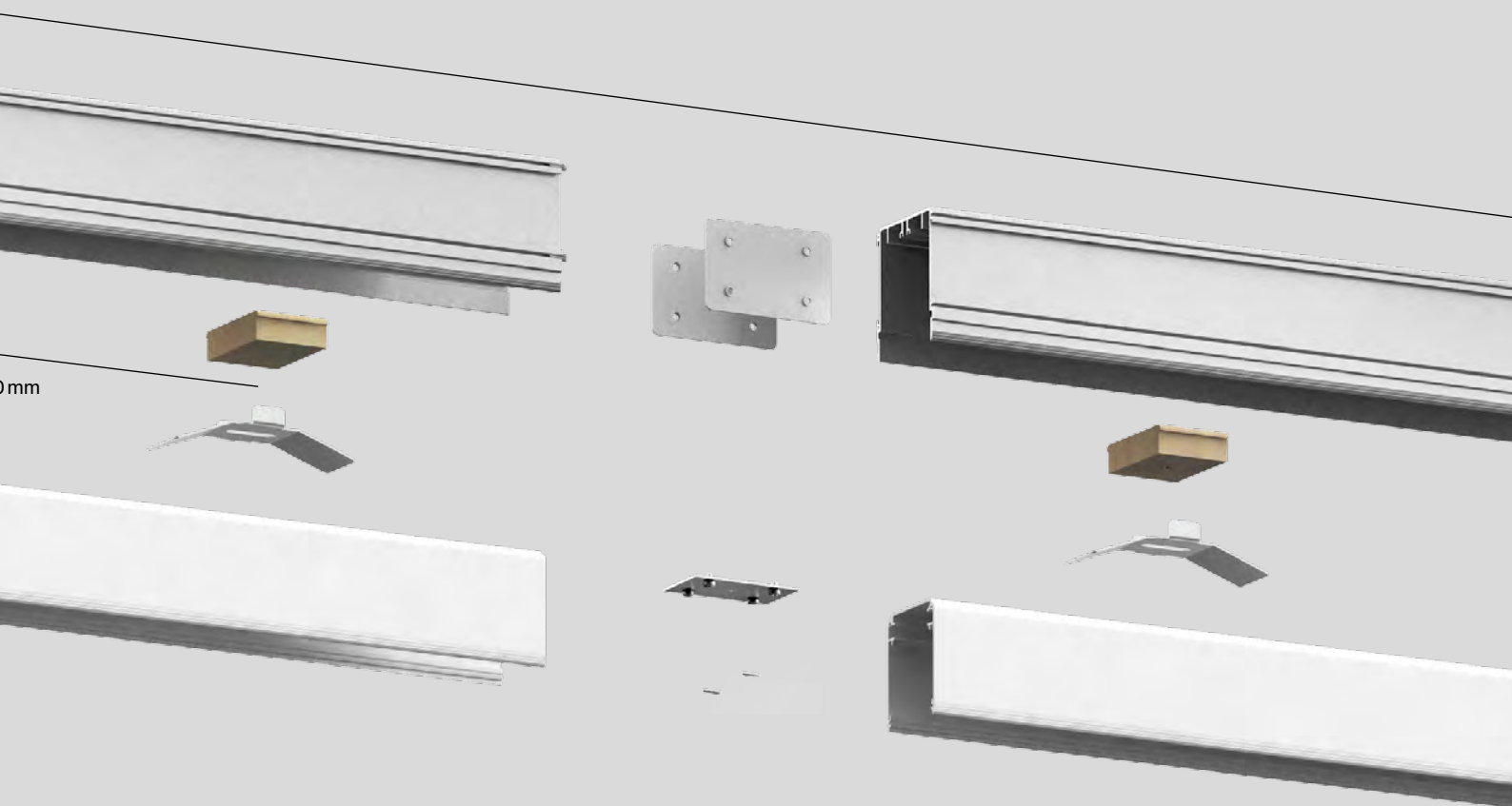
LIGHTING DESIGN
LUCEPLAN Scandinavia A/S





CONCRETE INSTALLATION HOUSING

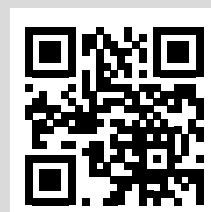




0 mm

**Online System
Configurator**

Generate your light
system with the XAL
online configurator
systems.xal.com



CONCRETE INSTALLATION HOUSING

Order options

PIECE	
2 pieces	2
3 pieces	3

Description

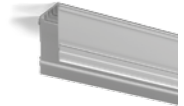
DE Betoneingießgehäuse aus Aluminiumprofil, ausgelegt für durchgehende Lichtsysteme

EN Concrete casting made of aluminium profile, designed for continuous lighting systems

MINIMAL 40 / FRAME 55 / MINO 40

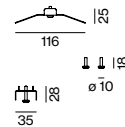
HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
MINIMAL 40	3000	0 0 5 - 4 1 3 3 6
FRAME 55	3000	0 0 5 - 4 1 3 3 6
MINO 40	3000	0 0 5 - 4 1 3 3 6



MOUNTING SET

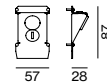
TYPE	ORDER CODE
MINIMAL 40	0 3 6 - 0 6 0 0
FRAME 55	0 3 5 - 0 6 0 0
MINO 40	0 3 4 - 0 6 0 0



up to 900mm: 2 pieces / up to 1500mm: 3 pieces / up to 3000mm: 2x2 pieces

END CAPS (pair)

TYPE	ORDER CODE
end caps	0 0 5 - 4 1 2 3 6



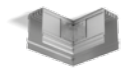
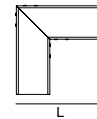
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 1 1 6 6
linear connector (10 pieces)	0 0 5 - 4 1 1 6 6 . 1 0



CORNER CONNECTOR 90°

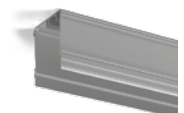
TYPE	L (mm)	ORDER CODE
MINIMAL 40	147	0 3 6 - 0 6 0 1 6
FRAME 55	140	0 3 5 - 0 6 0 1 6
MINO 40	157	0 3 4 - 0 6 0 1 6



MINIMAL 60 / FRAME 80 / MINO 60

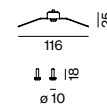
HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
MINIMAL 60	3000	0 0 5 - 4 1 3 4 6
FRAME 80	3000	0 0 5 - 4 1 3 4 6
MINO 60	3000	0 0 5 - 4 1 4 4 6



MOUNTING SET

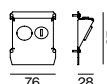
TYPE	ORDER CODE
MINIMAL 60	0 3 6 - 0 4 0 0
FRAME 80	0 3 5 - 0 6 0 0
MINO 60	0 3 4 - 0 4 0 0



up to 900mm: 2 pieces / up to 1500mm: 3 pieces / up to 3000mm: 2x2 pieces

END CAPS (pair)

TYPE	ORDER CODE
end caps	0 0 5 - 4 1 2 4 6



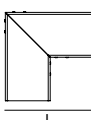
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 1 1 6 6
linear connector (10 pieces)	0 0 5 - 4 1 1 6 6 . 1 0



CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
MINIMAL 60	146	0 3 6 - 0 4 0 1 6
FRAME 80	142	0 3 5 - 0 4 0 1 6
MINO 60	157	0 3 4 - 0 4 0 1 6



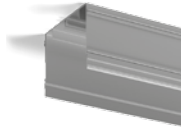
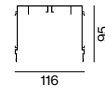
Order options

PIECE	
2 pieces	2
3 pieces	3

MINIMAL 100 / FRAME 120 / MINO 100

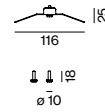
HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
MINIMAL 100	3000	005 - 41366
FRAME 120	3000	005 - 41366
MINO 100	3000	005 - 41466



MOUNTING SET

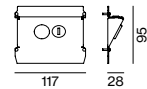
TYPE	ORDER CODE
MINIMAL 100	036 - 0500
FRAME 120	035 - 0600
MINO 100	034 - 0400



up to 900mm: 2 pieces / up to 1500mm: 3 pieces / up to 3000mm: 2x2 pieces

END CAPS (pair)

TYPE	ORDER CODE
end caps	005 - 41266



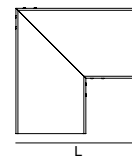
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005 - 41166
linear connector (10 pieces)	005 - 41166 . 10



CORNER CONNECTOR 90°

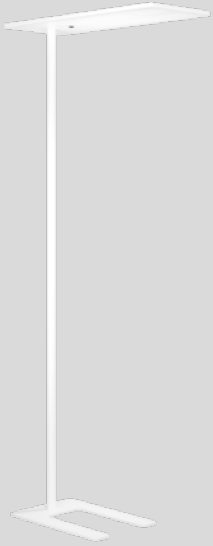
TYPE	L (mm)	ORDER CODE
MINIMAL 100	207	036 - 05016
FRAME 120	202	035 - 05016
MINO 100	207	034 - 05016



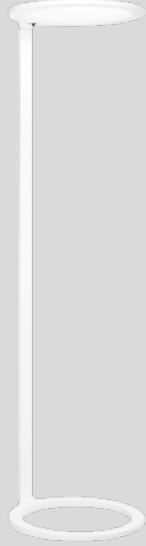
06



STEHLEUCHTEN FREE STANDING LUMINAIRES



TASK
FREE STANDING
➔ 486



HELIOS
FREE STANDING
➔ 490



SONIC
FREE STANDING
SOUNDCAP
➔ 494



SONIC
FREE STANDING
ABSORBER
➔ 496

TASK FREE STANDING

xal.com/task-free-standing



reddot award 2015
winner



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 100lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated

TASK CEILING

[page 302](#)



TASK SUSPENDED

[page 306](#)



Description

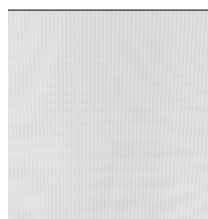
DE Stehleuchte mit rechteckigem Leuchtenkopf und abgerundeten Kanten aus Aluminium; extrem flache Bauform (nur 15 mm); moderne Formensprache im edlen Design für höchste Ansprüche; Stahlrohr rund; Standfuß mit Ausnehmung für Tischfuß; Oberfläche grau oder weiß pulverbeschichtet; direkt/indirekte Lichtverteilung durch LGP- (Light Guiding Prism) Body; seitlich eingekoppeltes Licht durch integrierte Prismen nach oben und unten gelenkt; mit einem Direktanteil von 57% und einem Indirektanteil von 43%; mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; einfache Regelung durch integrierte touch DIM-Funktion am Leuchtenkopf oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; inkl. Anschlussleitung (3m) mit Schutzkontaktstecker

EN Free standing luminaire with rectangular luminaire head and rounded edges in aluminium; ultra low-profile design (only 15 mm); modern shape in an elegant design for high demands; steel round downpipe; pedestal with recess for table base; surface coated grey or white; direct/indirect light distribution by LGP- (Light Guiding Prism) body; side coupled light, directed up and down by integrated prisms; with 57% direct and 43% indirect component; micro prismatic PMMA cover, completely homogeneous illumination; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I; easy control through integrated touch DIM function on light head or through integrated infrared daylight and movement sensor; incl. connection cable (3m) with safety plug

Features



flat design (15 mm)



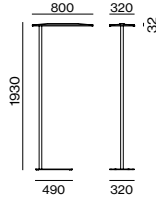
microprismatic
(UGR < 19)

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
touch DIM	5
daylight & movement sensor	7

MATERIAL COLOUR	
grey	6
white	7

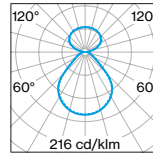


TASK FREE STANDING

e ² LED	220-240V	UGR < 19	13,5 kg
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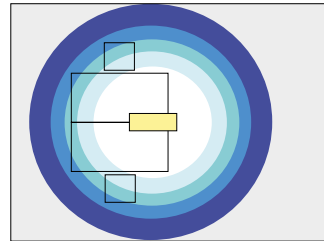
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
75 W	3000K 4000K	7100lm 7500lm	0 5 9 - 2 9 3 6 : : : P

Light distribution



Microprismatic
direct / indirect
LOR 76 %

Technical data



TASK STANDING 75 W GLARE EVALUATION

Room dimensions	5.4x4.05x2.7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	< 19
UGR axial	< 19

65° < 3000 cd/m²



Inspiration

Krafft Planungsbüro
Darmstadt, Germany

SOLUTION
TASK FREE STANDING

ARCHITECT
Krafft Planungsbüro
Darmstadt, Germany





HELIOS FREE STANDING

xal.com/helios-free-standing



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 106lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct/indirect illumination
circular de-glaring prism (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated

HELIOS

SUSPENDED

[page 330](#)



Description

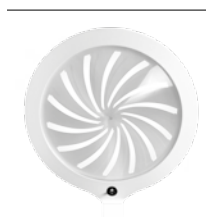
DE Stehleuchte mit ringförmigem, schlanken Leuchtenkopf (nur 17mm) und Standfuß; Aluminiumstandrohr trapezförmig; Oberfläche weiß oder schwarz pulverbeschichtet; Kühlkörper in Leuchtengeometrie für optimales Thermomanagement und passive Kühlung der LEDs integriert; direkt/indirekte Lichtverteilung durch LGP- (Light Guiding Prism) Body; seitlich eingekoppeltes Licht durch integrierte Prismen nach oben und unten gelenkt; Direktanteil: zirkularprismatische PMMA Abdeckung, absolut homogene Ausleuchtung; optional: Lichtverteilung durch patentierten Rotorreflektor aus hochreflektierendem Material regelbar; Verteilung Direkt- zu Indirektanteil stufenlos von 70:30 % auf 100 % Direktanteil einstellbar; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; einfache Regelung durch integrierte touch DIM-Funktion am Standrohr oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; inkl. Anschlussleitung (3m) mit Schutzkontaktstecker

EN Free standing luminaire with an annular, slim luminaire head (only 17mm) and stand; surface white or black powder coated; Heatsink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; direct/indirect light distribution by LGP- (Light Guiding Prism) body; side coupled light, directed up and down by integrated prisms; Direct component: circular prismatic PMMA cover, completely homogeneous illumination; optional: light distribution controlled by patented rotor reflector in highly reflective material; distribution of direct to indirect component continuously variable from 70:30 % to 100 % direct; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP 20; PC I; easy control through integrated touch DIM function on downpipe or through integrated infrared daylight and movement sensor; incl. connection cable (3m) with safety plug

Features



flat design (17mm)



patented rotor reflector



touch DIM switch



high quality chrome

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
touch DIM	5
daylight & movement sensor	7

MATERIAL COLOUR	
white	7
black	8

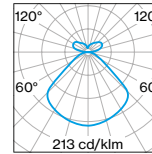


HELIOS ROTOR REFLECTOR

e ² LED	220-240V	UGR < 19	18 kg
-----------------------	----------	-------------	----------

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
64W	3000K	6300lm	0 5 9 - 8 9 2 6
	4000K	6600lm	

Light distribution



Reflector open
direct / indirect
LOR 73 %



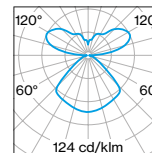
HELIOS

e ² LED	220-240V	UGR < 19	18 kg
-----------------------	----------	-------------	----------

DIRECT / INDIRECT

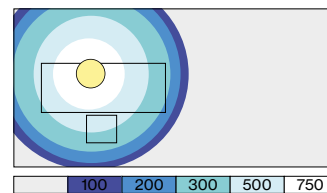
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
64W	3000K	6500lm	0 5 9 - 8 9 3 6
	4000K	6800lm	

Light distribution



Circular prism.
direct / indirect
LOR 76 %

Technical data

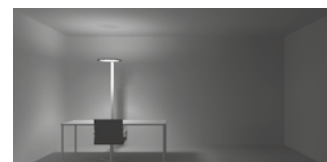


HELIOS 64W rotor reflector open GLARE EVALUATION

Room dimensions	5,4x2,7x2,7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	< 19
UGR axial	< 19

65° < 3000 cd/m²



Inspiration

Praxis am Bahnhof
Bremgarten, Switzerland

ARCHITECT

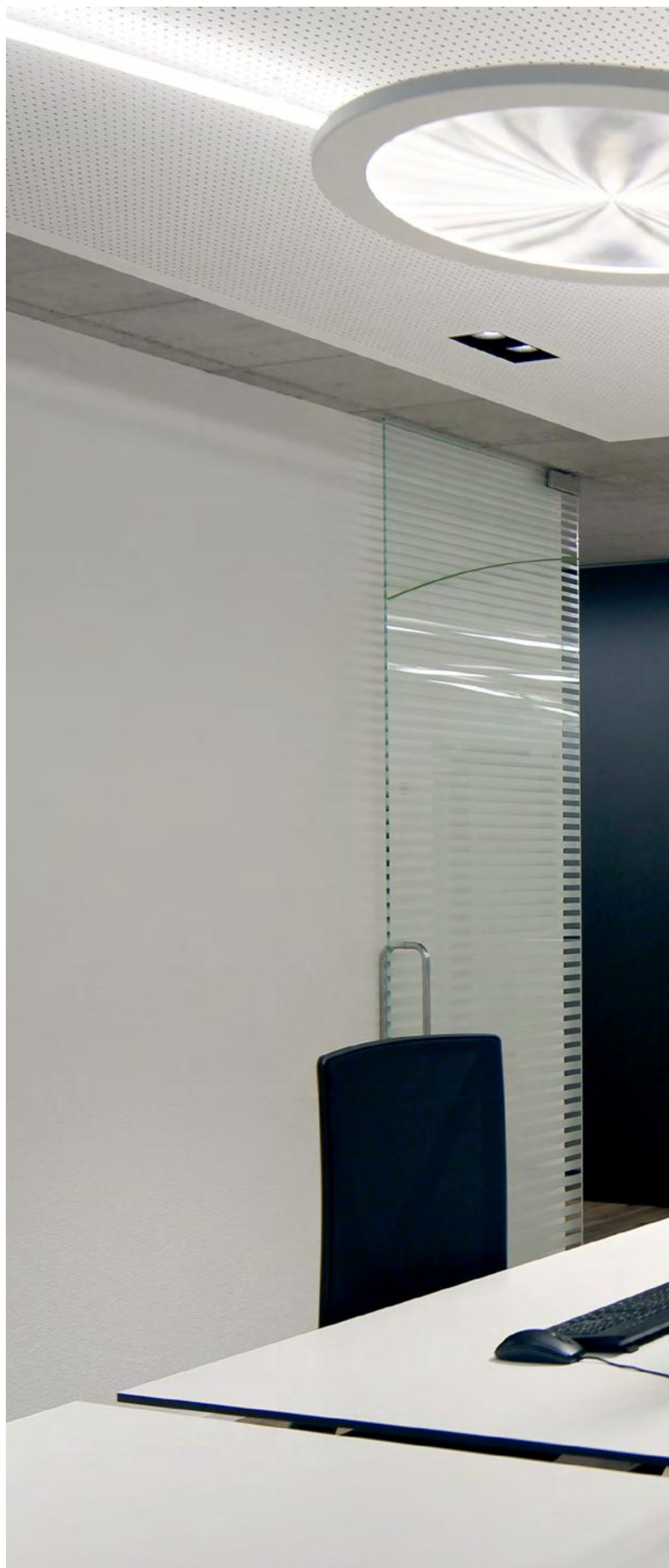
Outlog Architektur + Planung AG
Lenzburg, Switzerland

LIGHTING DESIGN

Outlog Architektur + Planung AG
Lenzburg, Switzerland

SOLUTION

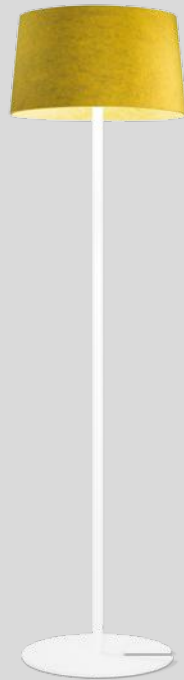
HELIOS FREE STANDING





SONIC FREE STANDING SOUNDCAP

xal.com/sonic-soundcap



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 116lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated
acoustically effective

SONIC SUSPENDED

[page 264](#)

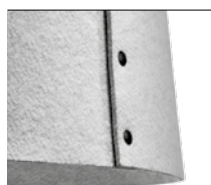


Description

DE Stehleuchte mit konischem Leuchtenkopf aus gerolltem Aluminiumprofil; Oberfläche weiß oder dunkelgrau pulverbeschichtet; rundes Aluminiumstandrohr wahlweise zentral oder dezentral angeordnet; runder Standfuß mit Ausnehmung für Tischfuß; mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; Indirektanteil mit klarem Acrylglas abgedeckt; Direktanteil: Mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; inkl. Reflektor aus hochreflektierendem Material (96% Reflexionsgrad); bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional einfache Regelung durch integrierte touch DIM-Funktion am Leuchtenkopf oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; inkl. Anschlussleitung (3m) mit Schutzkontaktstecker; schallreduzierendes Zubehör erhältlich: Schallschutzelement aus mehrschichtigem Filz

EN Free standing luminaire with conical luminaire head from rolled aluminium profile; surface white or dark grey powder coated; round aluminium downpipe arranged centralised or decentralised; round pedestal with recess for table base; with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; indirect component covered with clear acrylic glass; Direct component: micro prismatic PMMA cover, completely homogeneous illumination; no multiple shadows; incl. reflector in high reflectance material (96% reflectance); workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional easy control through integrated touch DIM function on luminaire head or with integrated infrared daylight and movement sensor; incl. connection cable (3m) with safety plug; noise reducing accessories available: soundproofing element made of multi-layered felt

Features



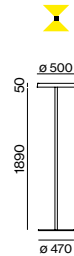
detail soundcap
made of felt

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
touch DIM	5
daylight & movement sensor	7

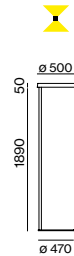
MATERIAL COLOUR	
dark grey	6
white	7



SONIC CENTRIC POLE 1800 mm

e ² LED	220-240V	UGR <19	19,5 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
49W	3000K	5400lm	0 5 9 - 6 9 3 2
	4000K	5700lm	◆ ◆ ◆ P

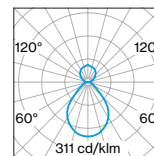


SONIC EXCENTRIC POLE 1800 mm

e ² LED	220-240V	UGR <19	19,5 kg
--------------------	----------	---------	---------

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
49W	3000K	5400lm	0 5 9 - 6 9 8 2
	4000K	5700lm	◆ ◆ ◆ P

Light distribution



Microprismatic
direct / indirect
LOR 81%

Order options

MATERIAL COLOUR	
Lime 64	
Curry 61	
Pink 65	
OffWhite 63	
Anthracite 68	

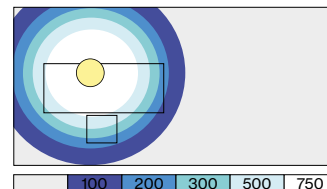


Accessory

SOUNDCAP

TYPE	ORDER CODE
Lime 64	0 5 9 - 6 9 9 8 1 6 4
Curry 61	0 5 9 - 6 9 9 8 1 6 1
Pink 65	0 5 9 - 6 9 9 8 1 6 5
OffWhite 63	0 5 9 - 6 9 9 8 1 6 3
Anthracite 68	0 5 9 - 6 9 9 8 1 6 8

Technical data



SONIC STANDING 49 W GLARE EVALUATION

Room dimensions	5.4x2.7x2.7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	< 19
UGR axial	< 19

65° < 3000 cd/m²

SONIC FREE STANDING ABSORBER

xal.com/sonic-absorber



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 116lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated
acoustically effective

SONIC SUSPENDED

➔ [page 264](#)

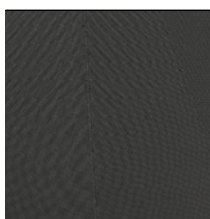


Description

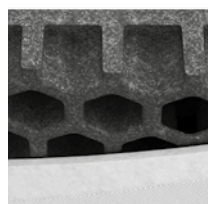
DE Stehleuchte mit konischem Leuchtenkopf aus gerolltem Aluminiumprofil; Oberfläche weiß oder dunkelgrau pulverbeschichtet; rundes Aluminiumstandrohr wahlweise zentral oder dezentral angeordnet; runder Standfuß mit Ausnehmung für Tischfuß; mit direkt / indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; Indirektanteil mit klarem Acrylglas abgedeckt; Direktanteil: Mikroprismatische PMMA Abdeckung; absolut homogene Ausleuchtung; keine Mehrfachschattenbildung; inkl. Reflektor aus hochreflektierendem Material (96% Reflexionsgrad); bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR<19); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional einfache Regelung durch integrierte touch DIM-Funktion am Leuchtenkopf oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; inkl. Anschlussleitung (3m) mit Schutzkontaktstecker; schallreduzierendes Zubehör erhältlich: Schallschutzelement aus mehrschichtigem Filz

EN Free standing luminaire with conical luminaire head from rolled aluminium profile; surface white or dark grey powder coated; round aluminium downpipe arranged centralised or decentralised; round pedestal with recess for table base; with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; indirect component covered with clear acrylic glass; Direct component: micro prismatic PMMA cover, completely homogeneous illumination; no multiple shadows; incl. reflector in high reflectance material (96% reflectance); workplace light suitable for VDUs according to DIN EN 12464-1 (UGR <19); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional easy control through integrated touch DIM function on luminaire head or with integrated infrared daylight and movement sensor; incl. connection cable (3m) with safety plug; noise reducing accessories available: soundproofing element made of multi-layered felt

Features



one piece acoustic ring, in 2 colours



patented honeycomb structure

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
touch DIM	5
daylight & movement sensor	7

MATERIAL COLOUR	
dark grey	6
white	7



SONIC CENTRIC POLE 2050mm



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
49W	3000K	5400lm	0 5 9 - 6 9 3 4 : : : P
	4000K	5700lm	

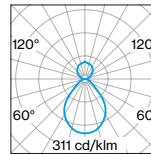


SONIC EXCENTRIC POLE 2050mm



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
49W	3000K	5400lm	0 5 9 - 6 9 8 4 : : : P
	4000K	5700lm	

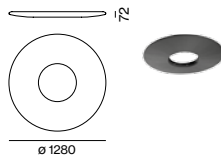
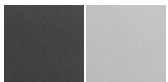
Light distribution



Microprismatic
direct / indirect
LOR 81%

Order options

MATERIAL COLOUR	
bazalt grey	
light grey	

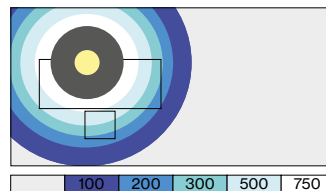


Accessory

ABSORBER

TYPE	ORDER CODE
bazalt grey	9 5 9 - 6 9 9 9 1 1 6
light grey	9 5 9 - 6 9 9 9 1 1 7

Technical data

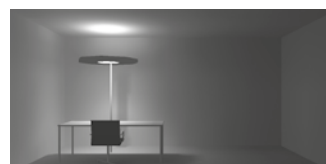


**SONIC STANDING 49W
GLARE EVALUATION**

Room dimensions	5.4x2.7x2.7m
Reflection factors	0.7 0.5 0.2
Maintenance factor	0.8
X=4H Y=8H	S=0.25H

UGR transversal	< 19
UGR axial	< 19

65° < 3000 cd/m²



Inspiration

XALcc
Graz, Austria

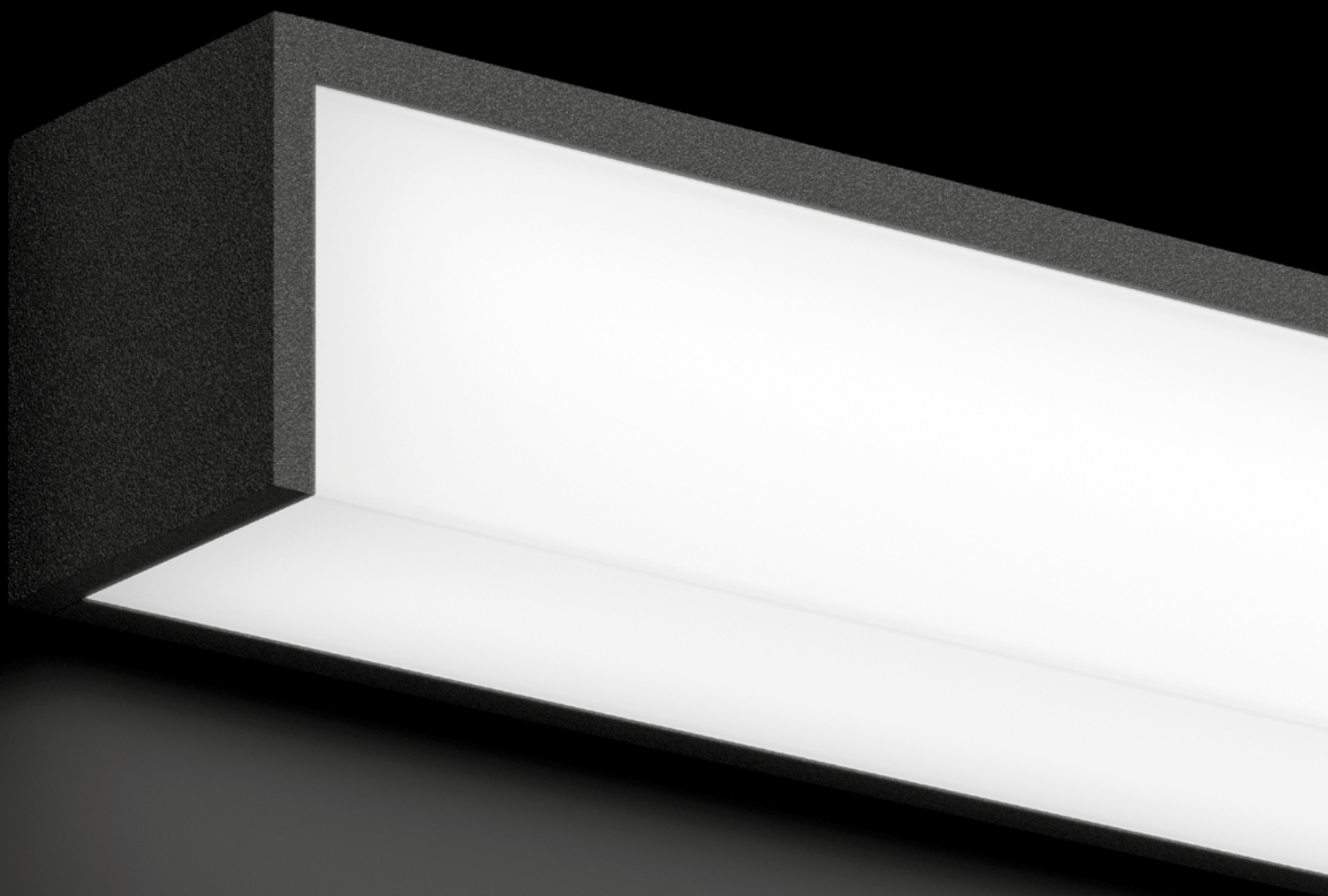
ARCHITECT
INNOCAD Architektur ZT GmbH
Graz, Austria

SOLUTION
SONIC FREE STANDING ABSORBER
MINIMAL 100





07



WANDANBAU- / WANDEINBAULEUCHTEN WALL MOUNTED / RECESSED WALL LUMINAIRES



CORNER MINI

→ 502



CORNER

→ 504



STRETTA MINI

→ 506



STRETTA

→ 508



LINO

→ 512



LIN

→ 514



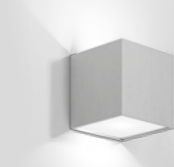
TUBO

→ 518



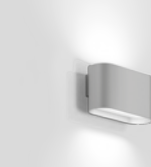
SOL / LUN

→ 520



CUBU 120 / 150

→ 524



MARA

→ 526



ASMO READ

→ 530



WISE

→ 532

CORNER MINI

xal.com/corner-mini



Quickinfo

GENERAL

wall mounted
IP20

LED

Low-power LED
up to 98 lm/W
2700K, 3000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

asymmetric illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

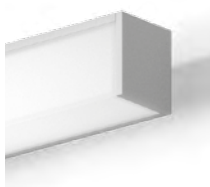
aluminium
chrome
anodised aluminium matt

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche chrom poliert oder Aluminium natur eloxiert; geeignet für Wandmontage; mit zweiseitiger Lichtabstrahlung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface polished chrome or with natural anodised aluminium finish; suitable for wall mounting; with double-sided light beam; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2700K and 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I

Features

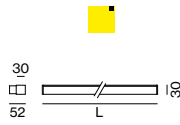


high quality
aluminium end caps

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

MATERIAL COLOUR	
chrome	4
anodised aluminium matt	J



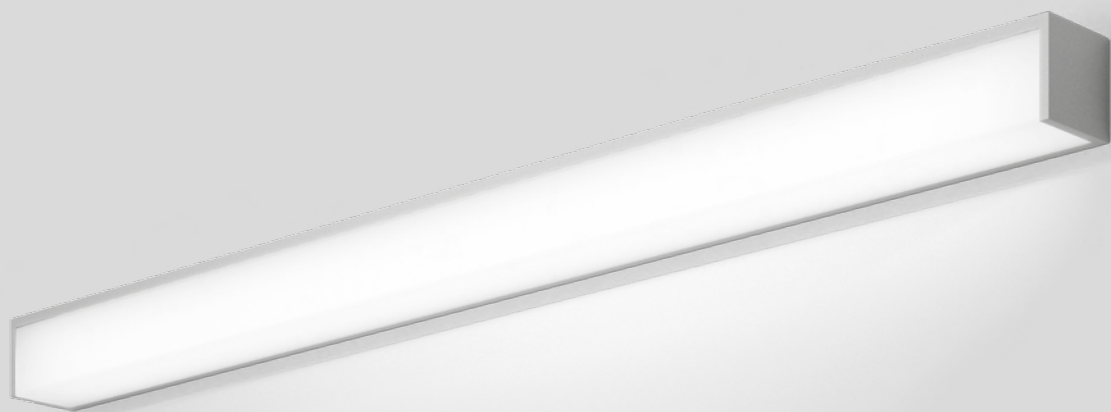
CORNER MINI



TYPE	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5W	2700 K	460 lm	626	0 5 7 - 2 8 4 2 :: 1 ▣ H
	3000 K	460 lm		
7W	2700 K	690 lm	926	0 5 7 - 2 8 4 3 :: 1 ▣ H
	3000 K	690 lm		
10W	2700 K	920 lm	1226	0 5 7 - 2 8 4 4 :: 1 ▣ H
	3000 K	920 lm		

CORNER

xal.com/corner



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 111lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

asymmetric illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
anodised
powder-coated

CORNER SYSTEM

[page 448](#)

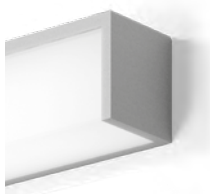


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet oder Aluminium natur eloxiert; geeignet für Wand- oder Deckenmontage; mit zweiseitiger Lichtabstrahlung; Leuchtenprofil für Montage vorab lieferbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white or black or natural aluminium anodised finish; suitable for wall or ceiling mounting; with double-sided light beam; luminaire profile for mounting available in advance; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



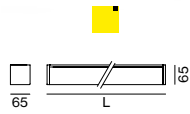
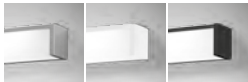
high quality
aluminium end caps

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



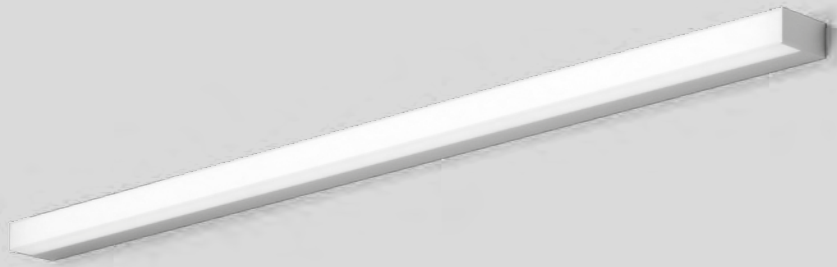
CORNER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3000K	1400lm	588	0 4 0 - 8 9 3 2 :: 3 O
	4000K	1500lm		
21 W e ²	3000K	2100lm	888	0 4 0 - 8 9 3 3 :: 3 O
	4000K	2200lm		
18 W e	3000K	1900lm	1188	0 4 0 - 8 9 2 4 :: 1 O
	4000K	2000lm		
27 W e ²	3000K	2900lm	1188	0 4 0 - 8 9 3 4 :: 3 O
	4000K	3000lm		
23 W e	3000K	2400lm	1488	0 4 0 - 8 9 2 5 :: 1 O
	4000K	2500lm		
34 W e ²	3000K	3600lm	1488	0 4 0 - 8 9 3 5 :: 3 O
	4000K	3700lm		
37 W e	3000K	3800lm	2360	0 4 0 - 8 9 2 8 :: 1 O
	4000K	4000lm		
55 W e ²	3000K	5700lm	2360	0 4 0 - 8 9 3 8 :: 3 O
	4000K	6000lm		

STRETТА MINI

xal.com/stretta-mini



Quickinfo

GENERAL

wall mounted
IP20

LED

Low-power LED
up to 108lm/W
2700K, 3000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

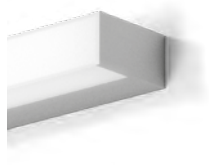
aluminium
chrome
anodised aluminium matt

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche chrom poliert oder Aluminium natur eloxiert; geeignet für Wandmontage; mit dreiseitiger Lichtabstrahlung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface polished chrome; suitable for wall mounting; with three sided light beam; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP20; PC I

Features

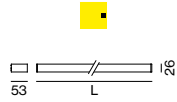
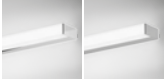


high quality
aluminium end caps

Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

MATERIAL COLOUR	
chrome	4
anodised aluminium matt	J



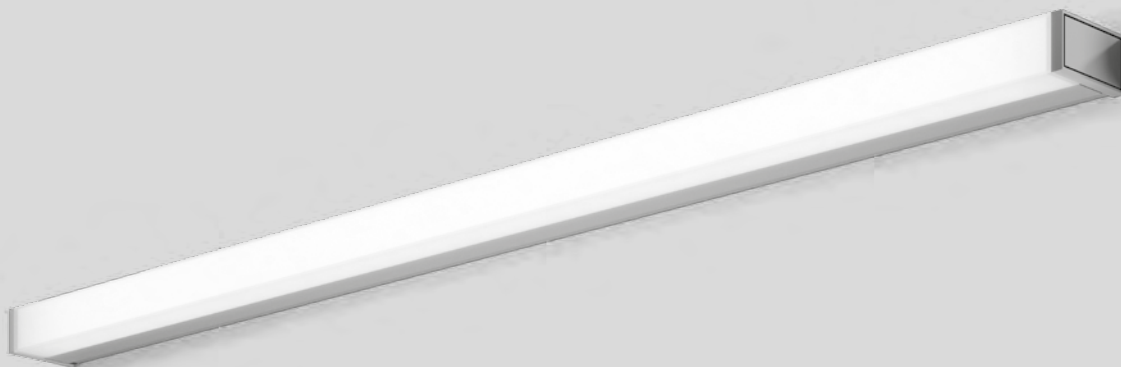
STRETTA MINI



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	510 lm	606	0 5 7 - 2 0 4 2 :: 1 ▣ H
	3000 K	510 lm		
7 W	2700 K	760 lm	906	0 5 7 - 2 0 4 3 :: 1 ▣ H
	3000 K	760 lm		
10 W	2700 K	1000 lm	1206	0 5 7 - 2 0 4 4 :: 1 ▣ H
	3000 K	1000 lm		

STRETTA

xal.com/stretta



Quickinfo

GENERAL

surface mounted
IP40 / IP44

LED

Mid-power LED
up to 115lm/W
3000 K, 3400 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
anodised
powder-coated

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Enddeckel galvanisch verchromt; geeignet für Wand- oder Deckenmontage; mit dreiseitiger Lichtabstrahlung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K oder 3400 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP40 (SK I) oder IP44 (SK II)

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; end cap chrome plated; suitable for wall or ceiling mounting; with three sided light beam; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K or 3400 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP40 (PC I) or IP44 (PC II)

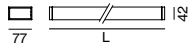
Features



IP (weatherproof protection)

Order options

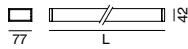
COLOUR TEMPERATURE	
3000K	5
4000K	6



STRETTA IP40



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1500lm	610	0 5 7 - 0 3 3 2 :: 1 E H
	4000K	1600lm		
20 W	3000K	2300lm	908	0 5 7 - 0 3 3 3 :: 1 E H
	4000K	2400lm		
27 W	3000K	3100lm	1208	0 5 7 - 0 3 3 4 :: 1 E H
	4000K	3200lm		



STRETTA IP44 3400K



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3400K	1300lm	610	0 5 7 - 0 6 3 2 5 1 E H
20 W	3400K	2000lm	908	0 5 7 - 0 6 3 3 5 1 E H
27 W	3400K	2700lm	1208	0 5 7 - 0 6 3 4 5 1 E H

Inspiration

Private Residence
Graz, Austria

SOLUTION
STRETTA MINI
MOVE IT 45 ROUND

ARCHITECT
GSarchitects ZT g.m.b.H.
Graz, Austria





LINO

xal.com/lino



Quickinfo

GENERAL

wall mounted
IP20

LED

High-power LED
up to 53 lm/W
2700K, 3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct/indirect illumination
microprismatic

ELECTRICAL

non DIM

PHYSICAL

aluminium
anodised
powder-coated

Description

DE Leuchtenkörper und Frontabdeckung aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium natur eloxiert; geeignet für Wandmontage; homogene Wandaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing and front cover from extruded aluminium profile, angular version; no visible screws; surface white or black powder coated or natural anodised aluminium; suitable for wall mounting; with double-sided light beam; homogeneous wall illumination through uniform direct/indirect light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2700 K and 3000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I

Features

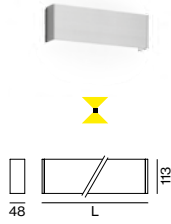


high quality
aluminium end caps

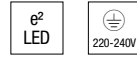
Order options

COLOUR TEMPERATURE	
2700 K	4
3000 K	5

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



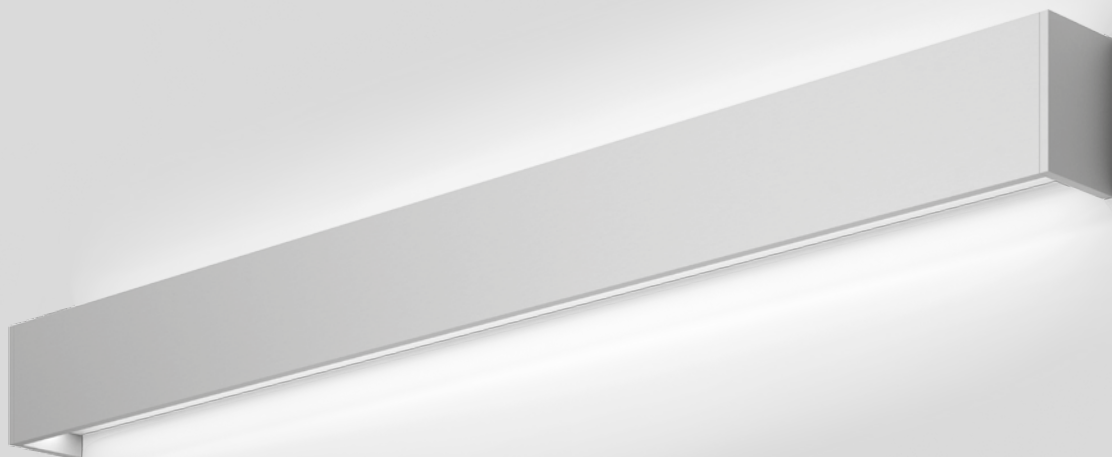
LINO



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	2700 K	600 lm	180	0 5 8 - 6 3 0 3 :: 1 <input checked="" type="checkbox"/>
	3000 K	640 lm		
25 W	2700 K	1200 lm	350	0 5 8 - 6 3 2 3 :: 1 <input checked="" type="checkbox"/>
	3000 K	1300 lm		

LIN

xal.com/lin



Quickinfo

GENERAL

wall mounted
IP20

LED

Mid-power LED
up to 116lm/W
3000K, 4000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct/indirect illumination
PMMA cover opal

ELECTRICAL

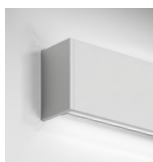
non DIM, DIM DALI

PHYSICAL

aluminium
anodised
powder-coated

LINEA SYSTEM

[page 454](#)

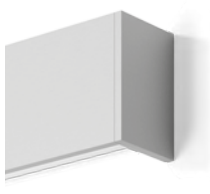


Description

DE Leuchtenkörper aus satiniertem PMMA Profil; Frontabdeckung aus Aluminiumstrangpressprofil; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium natur eloxiert; geeignet für Wandmontage; homogene Wandaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing from satinised PMMA profile; front cover made of extruded aluminium profile; no visible screws; surface white or black powder coated or natural anodised aluminium; suitable for wall mounting; with double-sided light beam; homogeneous wall illumination through uniform direct/indirect light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



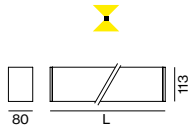
high quality
aluminium end caps

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
anodised aluminium	6
white	7
black	8



LIN



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18 W	3000K	2100lm	591	0 5 8 - 6 4 2 2
	4000K	2200lm		
27 W	3000K	3100lm	891	0 5 8 - 6 4 3 2
	4000K	3300lm		
37 W	3000K	4100lm	1191	0 5 8 - 6 4 4 2
	4000K	4300lm		
73 W	3000K	8300lm	2363	0 5 8 - 6 4 8 2
	4000K	8700lm		

Inspiration

Praxis Dr. Schindler
Straubing, Germany

ARCHITECT
pd raumplan gmbh
Cologne, Germany

LIGHTING DESIGN
pd raumplan gmbh
Cologne, Germany

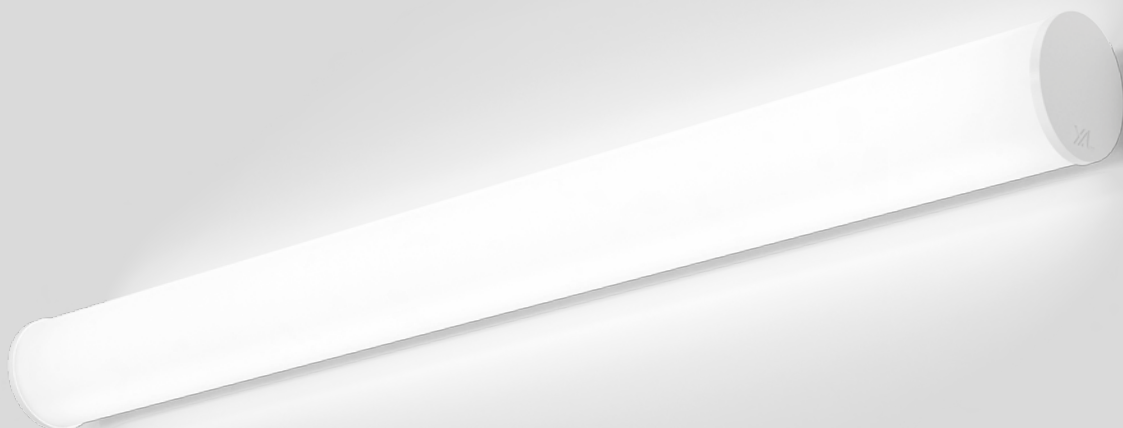
SOLUTION
LIN customised





TUBO

xal.com/tubo



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 129lm/W
3000 K, 4000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

TUBO SYSTEM

[page 442](#)



Description

DE Tragprofil aus stranggepresstem Aluminium; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; suitable for wall or ceiling mounting; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile and aluminium PCB for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

Features



detail end cap

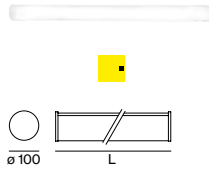
Order options

COLOUR TEMPERATURE ◆◆

3000K	5
4000K	6

CONTROL ◆

non DIM	1
DIM DALI	3



TUBO 100



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000K	3300lm	877	0 5 8 - 1 1 3 3 ◆◆ 7 0
	4000K	3500lm		
37 W	3000K	4400lm	1177	0 5 8 - 1 1 3 4 ◆◆ 7 0
	4000K	4600lm		
46 W	3000K	5500lm	1477	0 5 8 - 1 1 3 5 ◆◆ 7 0
	4000K	5800lm		
73 W	3000K	8900lm	2347	0 5 8 - 1 1 3 8 ◆◆ 7 0
	4000K	9300lm		

SOL / LUN

xal.com/sol
xal.com/lun



Quickinfo

GENERAL

wall mounted
IP20

LED

Mid-power LED
up to 72 lm/W
3000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

ambient illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
semi-matt varnish

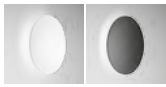
Description

DE Runde Aufbauleuchte, Leuchtenkörper aus Aluminiumdruckguss; keine Blendung durch runde Abdeckung, optional mit Ausschnitt; Leuchten als "System" kombinierbar für kreative Wandgestaltung; Distanzring für überlappende Montage als Zubehör erhältlich; Oberfläche weiß oder schwarz seidenmatt lackiert; homogene Wandaufhellung durch gleichmäßige Lichtverteilung (360°); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I

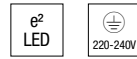
EN Round surface mounted luminaire, housing in die-cast aluminium; no glare due to round cover, with optional cut-out; luminaires combinable as system for creative wall design; spacer ring for overlapping mounting available as an accessory; surface white or black semi-matt varnish; homogeneous wall illumination through uniform light distribution (360°); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; protection class IP20; PC I

Order options

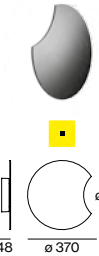
MATERIAL COLOUR	
white matt	7
black matt	8



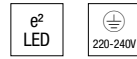
SOL 280



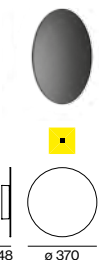
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	860lm	058 - 761051



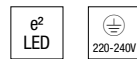
LUN 370/280



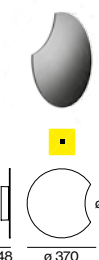
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	860lm	058 - 767051



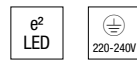
SOL 370



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	860lm	058 - 762051



LUN 370/370



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	860lm	058 - 766051

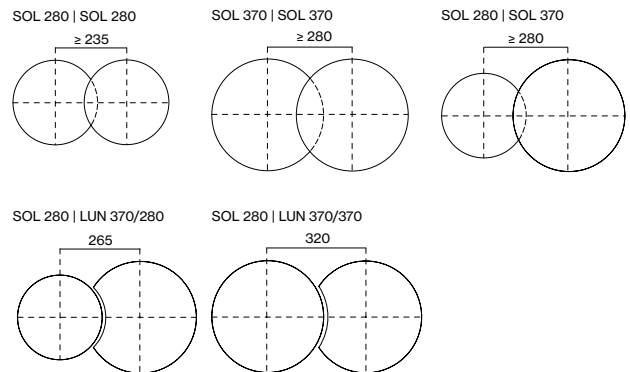
Accessory

SPACER RING FOR DIFFUSER



Type	ORDER CODE
white	058 - 7600007
black	058 - 7600008

Technical data



	SOL 280	SOL 370	LUN 370/280	LUN 370/370
COMBINATIONS				
SOL 280	> 235	> 280	265	-
SOL 370	> 280	> 280	-	320
LUN 370/280	265	-	-	-
LUN 370/370	-	320	-	-

Inspiration

Doctor's Practice
Feistritz, Austria

SOLUTION
SOL / LUN

INTERIOR DESIGN

ROOMS Atelier ARMW GmbH
Ebenthal, Austria

LIGHTING DESIGN

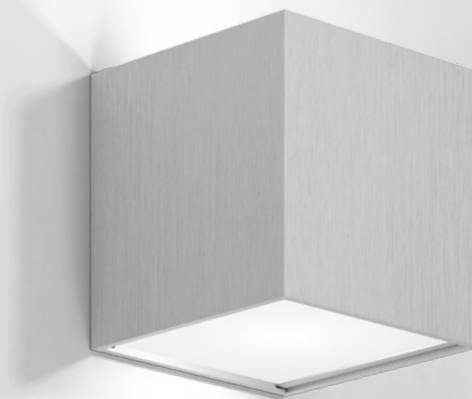
ROOMS Atelier ARMW GmbH
Ebenthal, Austria





CUBU 120 / 150

xal.com/cubu



Quickinfo

GENERAL

wall mounted
IP20

LED

COB LED module
up to 54 lm/W
3000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct/indirect illumination

ELECTRICAL

non DIM

PHYSICAL

aluminium
anodised
powder-coated

Description

DE Kubische Wandaufbauleuchte aus Aluminium in 2 Größen; Oberfläche weiß pulverbeschichtet oder Aluminium geschliffen natur eloxiert; geeignet für Wandmontage; gleichmäßige Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; mit COB (Chip on Board) Technologie für höchste Effizienz; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I

EN Cubic wall mounted aluminium luminaire in 2 sizes; surface white powder coated or natural anodised aluminium; suitable for wall mounting; with double-sided light beam; uniform light distribution; energy-efficient LEDs with high colour rendering; COB (Chip on Board) technology for maximum efficiency; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP20; PC I

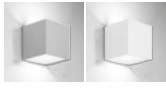
CUBU WALL / CEILING

[page 618](#)



Order options

MATERIAL COLOUR	
anodised aluminium	6 <input checked="" type="checkbox"/>
white	7



CUBU 120



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15W	3000K	810lm	058 - 721051 <input checked="" type="checkbox"/>



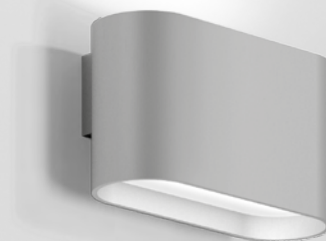
CUBU 150



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21W	3000K	1200lm	058 - 726051 <input checked="" type="checkbox"/>

MARA

xal.com/mara



Quickinfo

GENERAL

wall mounted
IP20

LED

High-power LED
up to 46 lm/W
3000 K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct/indirect illumination
microprismatic

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
anodised aluminium matt

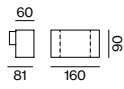
Description

DE Wandaufbauleuchte aus Aluminium mit abgerundeten Kanten; Oberfläche wahlweise schwarz bzw. weiß pulverbeschichtet, champagner oder Aluminium natur eloxiert; homogene Wandaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I

EN Surface mounted wall luminaire in aluminium with rounded edges; surface optional powder coated black or white, champagne or natural anodised aluminium finish; homogeneous wall illumination through uniform direct/indirect light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP20; PC I

Order options

MATERIAL COLOUR	<input checked="" type="checkbox"/>
anodised aluminium matt	J
anodised champagne matt	N
white	7
black	8



MARA



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	550lm	058 - 742051 <input checked="" type="checkbox"/>

Inspiration

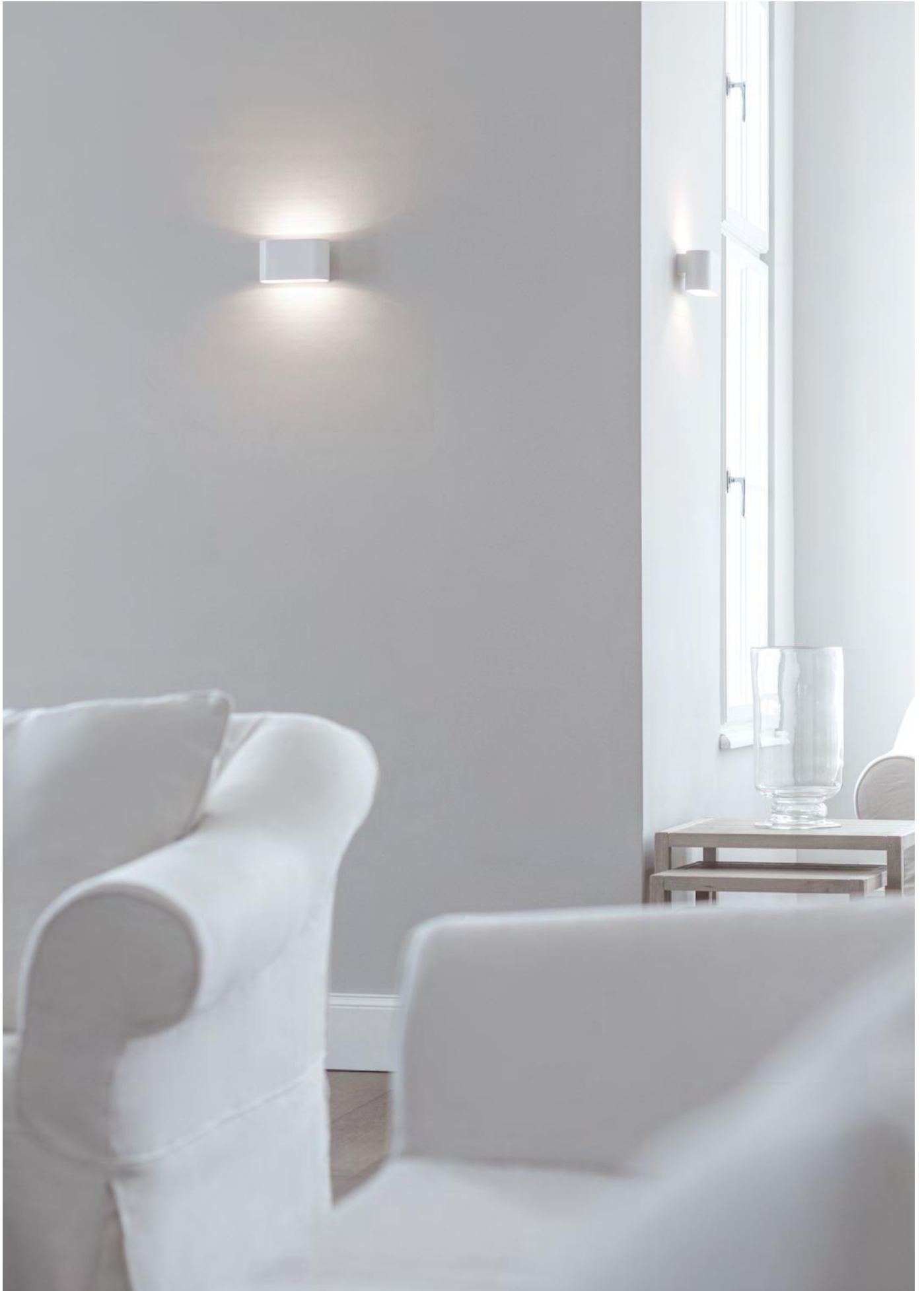
Private Residence
Vienna, Austria

SOLUTION
MARA

ARCHITECT
SCM Gmbh
Vienna, Austria

LIGHTING DESIGN
SCM Gmbh
Vienna, Austria





ASMO READ

xal.com/asm



Quickinfo

GENERAL

wall recessed
IP20

LED

Mid-power LED
up to 67lm/W
3000K
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

beam angle 38°
lens optics

ELECTRICAL

push-button

PHYSICAL

aluminium
powder-coated
glass cover

ASMO

[page 96](#)



Description

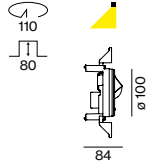
DE Rundes Strahlerelement aus Aluminiumdruckguss, optional mit umlaufendem Rand; geeignet für Wandstärken von 5-25 mm; Oberfläche weiß pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit e2 LED Technologie für höchste Effizienz; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige plan-konvexe Glaslinse; asymmetrische Lichtverteilung durch geneigte Linsenposition im Strahler; Schutzart IP20; SK II; dimmbar mittels integriertem Taster

EN Round spotlight element of die-cast aluminium, optional with edge; suitable for wall thickness of 5-25mm; surface white powder coated; passive cooling of LEDs with optimised heat sink geometry; with e2 LED technology for maximum efficiency; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; high quality plano-convex glass lens; asymmetrical light distribution through inclined lens position in the spotlight; protection class IP20; PC II; dimmable via an integrated push-button

Features



push-button

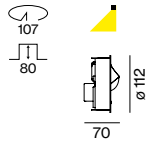


ASMO READ TURN TRIMLESS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000 K	230 lm	048 - 0931557

integrated push-button



ASMO READ TURN WITH TRIM

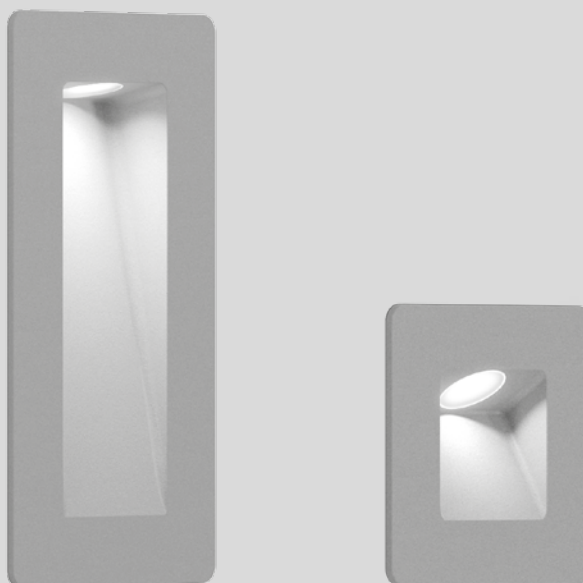


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000 K	230 lm	048 - 0941557

integrated push-button

WISE

xal.com/wise



Quickinfo

GENERAL

wall recessed

IP54

optional concrete install. housing

LED

High-power LED

up to 67lm/W

3000K

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

asymmetric illumination

lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

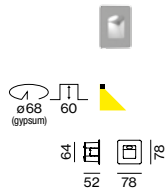
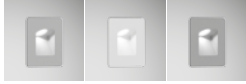
Description

DE Wandeinbauleuchte aus Aluminiumdruckguss, schutzeloxiert, mit umlaufendem Rand; Oberfläche grau, weiß oder dunkelgrau pulverbeschichtet; geeignet für Wandstärken von 10-25 mm; Einputzgehäuse für massive Wände als Zubehör erhältlich; inkl. hochwertiger Linsenoptik; asymmetrische Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP54; SK I

EN Recessed wall luminaire made of anodised die-cast aluminium with trim, surface powder coated in grey, white or dark grey; suitable for wall thickness of 10-25mm, flush housing for solid walls available as accessory; incl. high quality lens system; asymmetrical light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP54; PC I

Order options

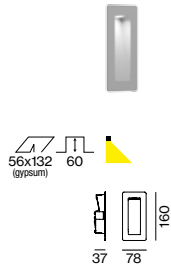
MATERIAL COLOUR	
grey	6
white	7
dark grey	D



WISE MINI



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,2 W	3000 K	80 lm	0 5 2 - 7 4 5 0 5 1



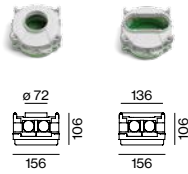
WISE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,2 W	3000 K	80 lm	0 5 2 - 7 4 6 0 5 1

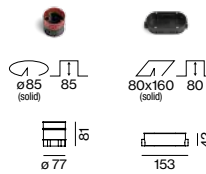
Accessory

INSTALLATION HOUSING FOR CONCRETE



TYPE	ORDER CODE
WISE MINI	0 5 2 - 7 4 1 9 9 1 0
WISE	0 5 2 - 7 4 3 9 9 1 0

INSTALLATION HOUSING FOR SOLID WALLS

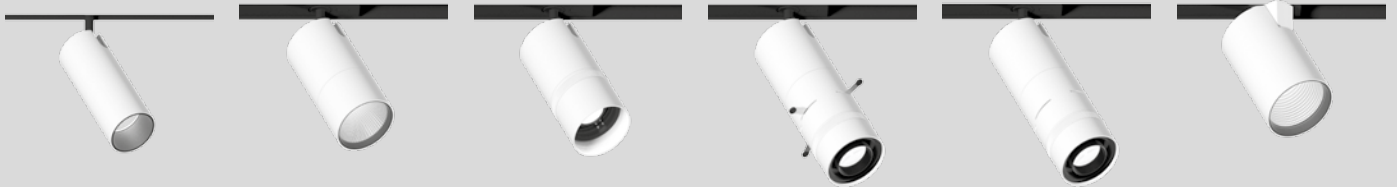


TYPE	ORDER CODE
WISE MINI	0 5 2 - 7 4 1 9 9 2 0
WISE	0 5 2 - 7 4 3 9 9 2 0

08



STRAHLER UND STROMSCHIENEN TRACK LIGHTS AND TRACKS



BO 55 BASIC

→ 538

BO 70 BASIC

→ 542

BO 70 FOCUS

→ 546

BO 70 SHUTTER

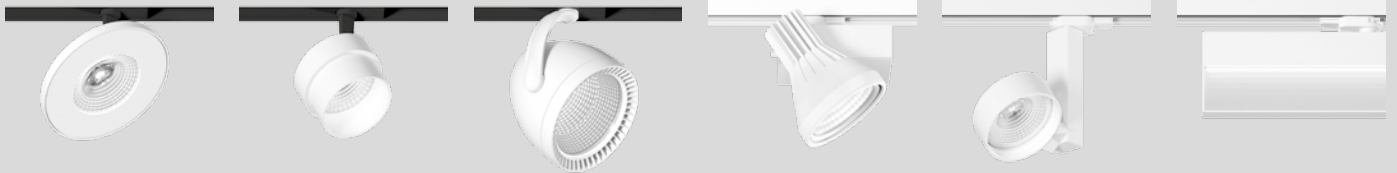
→ 548

BO IRIS / GOBO

→ 552

TIMO 80 FREE

→ 554



DIS TRACK

→ 558

KIS TRACK

→ 560

ARGO TRACK

→ 562

STUDIO

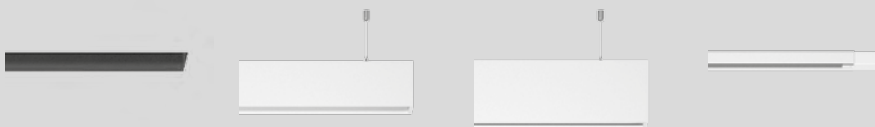
→ 566

STRAIGHT

→ 570

**STRAIGHT
WALLWASHER**

→ 572



**CANYON
TRACK 50**

→ 574

**MINYON
TRACK 50**

→ 578

**STILO RAIL 60
SYSTEM**

→ 582

TRACK

→ 588

BO OVERVIEW



Quickinfo

	BO 55 BASIC page 538	BO 70 BASIC page 542	BO 70 FOCUS page 546
SYSTEM POWER	9W	14 W / 23W	14 W / 23W
LUMINOUS FLUX	720lm (3000K)	2000lm (4000K)	1400lm (4000K)
COLOUR RENDERING INDEX	CRI > 90	CRI > 90	CRI > 90
COLOUR TEMPERATURE	2700K, 3000K	3000K, 4000K	3000K, 4000K
BEAM ANGLE	6°, 14°, 23°, 33°	17°, 24°, 36°	adjustable 17°-47°
HEAD DIMENSIONS	ø55mm / H 140mm	ø70mm / H 136mm	ø70mm / H 147mm
SUITABLE FOR	CANYON 15 / TRACK	CANYON MINYON 50 / TRACK	CANYON MINYON 50 / TRACK



BO 70 SHUTTER

page 548

14 W / 23 W

1402 cd

CRI > 90

3000 K, 4000 K

adjustable square light illumination

ø 70 mm / H 198 mm

CANYON | MINYON 50 / TRACK

BO 70 IRIS

page 552

14 W / 23 W

1597 cd

CRI > 90

3000 K, 4000 K

adjustable round light illumination

ø 70 mm / H 198 mm

CANYON | MINYON 50 / TRACK

BO 70 GOBO

page 552

14 W / 23 W

on request

CRI > 90

3000 K, 4000 K

customised logo

ø 70 mm / H 198 mm

CANYON | MINYON 50 / TRACK

BO 55 BASIC

xal.com/bo-55-basic



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 80lm/W
2700K, 3000K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 6°, 14°, 23°, 33°

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
adapter plastic

BO 55 BASIC

SURFACE /
CEILING

[page 210](#)



Description

DE Stromschieneustrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON 15 Kanal, Adapter deckenbündig; Konverter im Strahlerkopf integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 2700K und 3000K; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit vier verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; 3 Phasen Adapter für werkzeugloses Einsetzen bzw. Verschieben in einer Eutrac Stromschiene

EN Track light made of die-cast aluminium; surface white or black powder coated; Spotlight head rotatable 355° and tiltable 180°; optimised for flush ceiling installation in a CANYON 15 channel adapter; Converter integrated into spotlight head; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 2700K and 3000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality aluminium reflector with spherical facet finish; precise radiation characteristic with four different beam angles; installed and exchanged without tools; protection class IP20; PC I; 3 phase adapter for toolless installation or movement on Eutrac power track

Features



glare-free due to recessed LED



optimised adapter for CANYON 15

Order options

COLOUR TEMPERATURE	☐☐
2700K	4
3000K	5

MATERIAL COLOUR	☑
white	7
black	8
white/black adaptor housing	P

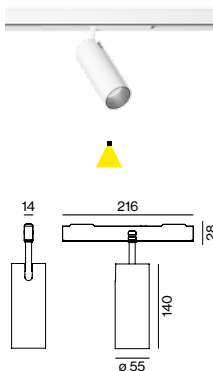
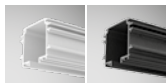


REFLECTOR	▲
spot 14°	S
medium 23°	M
flood 33°	F

LED LENS	▲
super spot 6°	V

Order options

MATERIAL COLOUR	☑
white	7
black	8



BO 55 BASIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	2700K	720lm	0 5 3 - 3 0 2 0 ☐☐ 1 ▲
	3000K	720lm	

Light distribution for 3000K

super spot 6° LOR 85% spot 14° LOR 74%

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	24238	ø 0,10	1	6792	ø 0,25
2	6060	ø 0,21	2	1698	ø 0,50
3	2693	ø 0,31	3	755	ø 0,75
4	1515	ø 0,42	4	425	ø 1,00
5	970	ø 0,52	5	272	ø 1,25

medium 23° LOR 73% flood 33° LOR 71%

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2959	ø 0,40	1	1835	ø 0,60
2	740	ø 0,80	2	459	ø 1,19
3	329	ø 1,20	3	204	ø 1,79
4	185	ø 1,60	4	115	ø 2,39
5	118	ø 2,00	5	73	ø 2,98

CANYON TRACK 15

INSTALLATION CHANNEL

L (mm)	ORDER CODE
1075	0 3 3 - 6 4 1 0 ☑
2075	0 3 3 - 6 4 2 0 ☑
custom cut	E 8 2 4 2 0 · · · · ☑

see page 588 for track. install track in channel before final mounting

END CAPS

TYPE	ORDER CODE
white	0 3 3 - 6 4 0 4 7
black	0 3 3 - 6 4 0 4 8

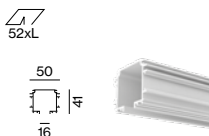
MOUNTING BRACKET

CEILING THICKNESS (mm)	ORDER CODE
12,5/15/25	0 3 3 - 6 4 0 1 0

number of brackets required: length of your system in metres+1

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector	0 3 3 - 6 4 0 2 0
track mounting set (10 pieces)	0 3 3 - 6 4 0 3 0



Inspiration

Visualisation

SOLUTION
CANYON TRACK 15
BO 55 BASIC





BO 70 BASIC

xal.com/bo-70-basic



Quickinfo

GENERAL

track light
IP 20

LED

COB LED module
up to 100lm/W
3000 K, 4000 K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 17°, 24°, 36°

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschienen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface white or black powder coated; Spotlight head rotatable 355° and tiltable 180°; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON TRACK 50

[page 574](#)



MINYON TRACK 50

[page 578](#)



Features



optimised adapter for
MINYON/CANYON 50

Order options

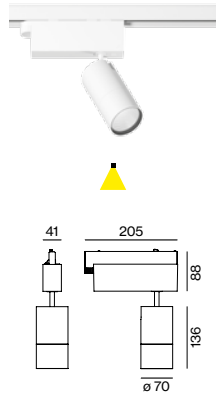
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black	8
white/black adaptor housing	P



REFLECTOR	
spot 17°	S
medium 24°	M
flood 36°	F



BO 70 BASIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1300 lm	0 5 3 - 3 2 4 0
	4000 K	1400 lm	
23 W	3000 K	1800 lm	0 5 3 - 3 2 4 1
	4000 K	2000 lm	

Light distribution for 23 W, 4000 K

spot 17°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	12591	ø 0,31	1	8154	ø 0,42	1	4779	ø 0,65
2	3148	ø 0,61	2	2038	ø 0,84	2	1195	ø 1,30
3	1399	ø 0,92	3	906	ø 1,26	3	531	ø 1,95
4	787	ø 1,22	4	510	ø 1,69	4	299	ø 2,60
5	504	ø 1,53	5	326	ø 2,11	5	191	ø 3,25

Inspiration

BANG & OLUFSEN
Herning, Denmark

ARCHITECT

Johannes Torpe Studio
Copenhagen, Denmark

LIGHTING DESIGN

SENSA by Thomas Skovby
Frederiksberg, Denmark

SOLUTION
CANYON TRACK 50
BO 70 BASIC





BO 70 FOCUS

xal.com/bo-70-focus



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 68lm/W
3000K, 4000K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
adjustable beam angle 17°–47°

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; inkl. hochwertiger plan-konvexer Glaslinse; exakte Objekt-Fokussierung durch justierbare Linse; Ausstrahlwinkel von 17-47° einstellbar; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface white or black powder coated; Spotlight head rotatable 355° and tiltable 180°; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality plano-convex glass lens; exact object focusing by adjustable lens; beam angle adjustable from 17-47°; focus using rubber adjustment ring on spotlight head; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON TRACK 50

➔ [page 574](#)



MINYON TRACK 50

➔ [page 578](#)



Features



adjustable beam
angle 17°–47°



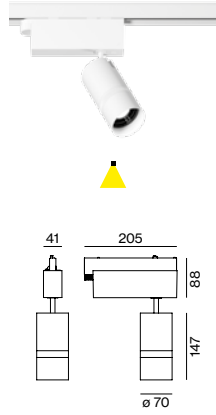
optimised adapter for
MINYON/CANYON 50

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black	8
white/black adaptor housing	P



BO 70 FOCUS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	890 lm	0 5 3 - 3 4 4 0
	4000 K	960 lm	
23 W	3000 K	1300 lm	0 5 3 - 3 4 4 1
	4000 K	1400 lm	

Light distribution for 23 W, 4000 K

min. angle 17°			medium 47°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	5707	ø 0,30	1	2348	ø 0,87
2	1427	ø 0,59	2	587	ø 1,73
3	634	ø 0,89	3	261	ø 2,60
4	357	ø 1,18	4	147	ø 3,46
5	228	ø 1,48	5	94	ø 4,33

BO 70 SHUTTER

xal.com/bo-70-shutter



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 1402cd
3000 K, 4000 K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
form illumination

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; Konturstrahler für exakte rechteckige Formgebung; einfache Einstellung durch 4 Abschattenelemente aus Edelstahl; inkl. hochwertiger bikonvexer Glaslinse; scharfe Objekt-Fokussierung durch justierbare Linse; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimbar

EN Track light made of die-cast aluminium; surface white or black powder coated; Spotlight head rotatable 355° and tiltable 180°; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; Contour spotlight for precise rectangular shape; easy adjustment by 4 stainless steel shading elements; incl. high quality bi-convex glass lens; sharp object focusing through adjustable lens; focus using rubber adjustment ring on spotlight head; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON TRACK 50

➔ page 574



MINYON TRACK 50

➔ page 578



Features



shutter element



adjustable lens



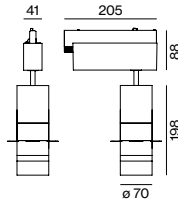
optimised adapter for
MINYON/CANYON 50

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black	8
white/black adaptor housing	P



BO 70 SHUTTER



SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
14 W	3000 K	823 cd	0 5 3 - 3 7 4 0
	4000 K	883 cd	
23 W	3000 K	1132 cd	0 5 3 - 3 7 4 1
	4000 K	1217 cd	

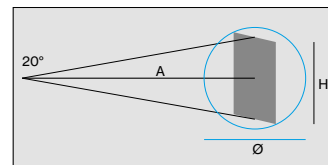
Light distribution for 23W, 4000K

adjustable LOR 16%

h (m)	E (lx)	ø (m)
1	1217	ø 0,54
2	304	ø 1,09
3	135	ø 1,63
4	76	ø 2,17
5	49	ø 2,72

illuminance (lm) = luminous intensity (cd) / distance (m)²

Illumination size



DIMENSIONS

A (mm)	H (mm)	ø (mm)
1000	330	466
2000	660	933
3000	990	1400

Possible forms of illumination



Inspiration

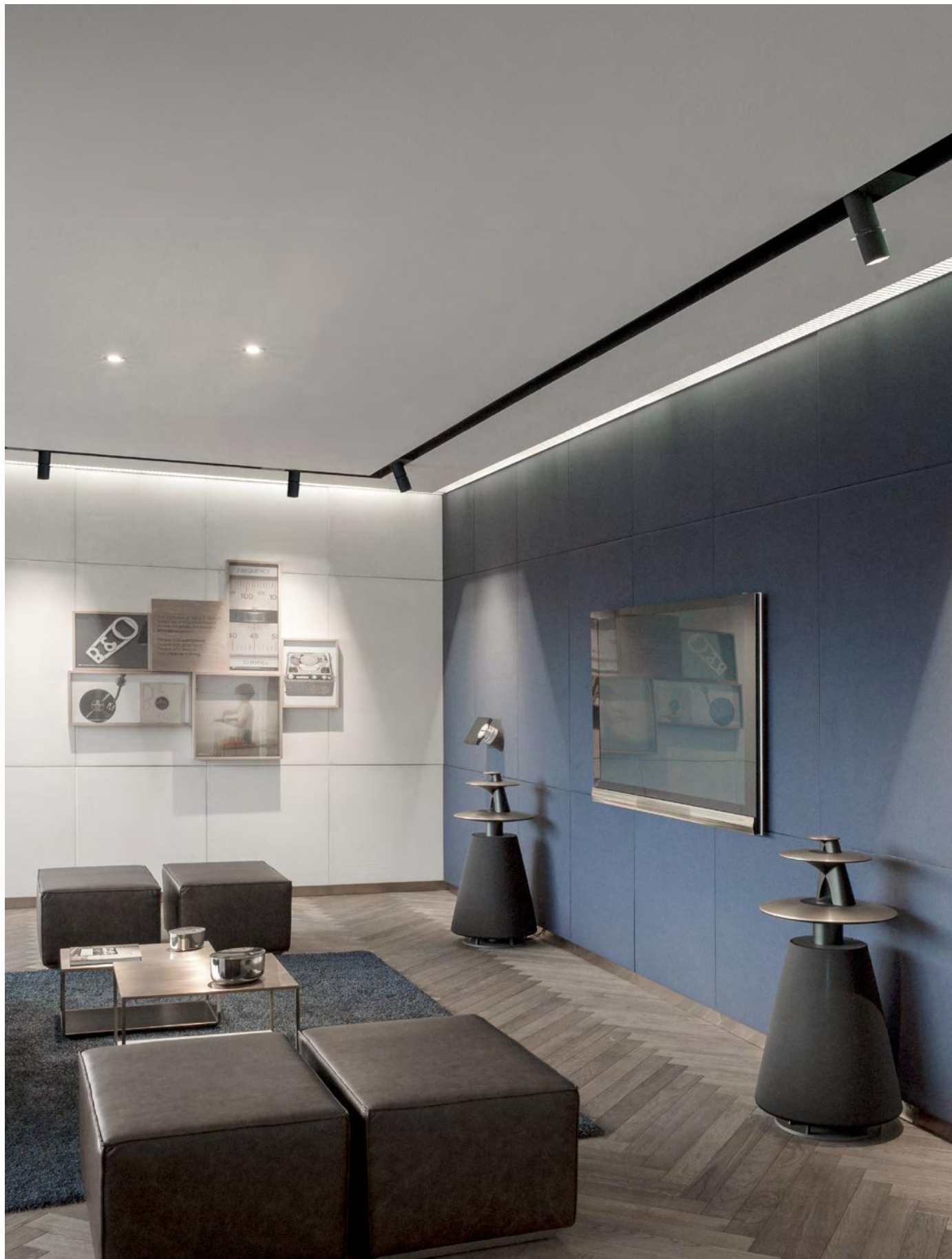
BANG & OLUFSEN
Herning, Denmark

SOLUTION
CANYON TRACK 50
BO 70 SHUTTER

ARCHITECT
Johannes Torpe Studio
Copenhagen, Denmark

LIGHTING DESIGN
SENSA by Thomas Skovby
Frederiksberg, Denmark





BO 70

IRIS / GOBO

xal.com/bo-70-iris
xal.com/bo-70-gobo



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 1374 cd
3000 K, 4000 K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
form illumination

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; Konturstrahler für exakte runde Formgebung; einfache Einstellung durch irisförmige Abschatter aus Edelstahl; inkl. hochwertiger bikonvexer Glaslinse; scharfe Objekt-Fokussierung durch justierbare Linse; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface white or black powder coated; Spotlight head rotatable 355° and tiltable 180°; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; Contour spotlight for precise round shape; easy adjustment by iris-shaped stainless steel shade; incl. high quality bi-convex glass lens; sharp object focusing through adjustable lens; focus using rubber adjustment ring on spotlight head; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON TRACK 50

[page 574](#)



MINYON TRACK 50

[page 578](#)



Features



adjustable lens



optimised adapter for MINYON/CANYON 50

Order options

COLOUR TEMPERATURE ⚡

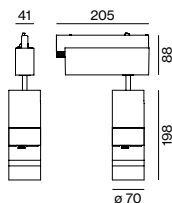
3000K	5
4000K	6

CONTROL ⬆️⬆️

non DIM	1
DIM DALI	3

MATERIAL COLOUR ☑️

white	7
black	8
white/black adaptor housing	P



BO 70 IRIS

COB LED	220-240V	CRI > 90	1 DALI ADDR.
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SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
14 W	3000 K	938 cd	0 5 3 - 3 8 4 0 ⚡ ⬆️⬆️ ☑️
23 W	3000 K	1289 cd	0 5 3 - 3 8 4 1 ⚡ ⬆️⬆️ ☑️
	4000 K	1387 cd	

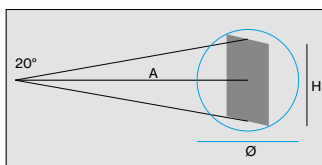
Light distribution for 23 W, 4000 K

adjustable LOR 16 %

h (m)	E (lx)	ø (m)
1	1387	ø 0,56
2	347	ø 1,12
3	154	ø 1,69
4	87	ø 2,25
5	55	ø 2,81

illuminance (lm) = luminous intensity (cd) / distance (m)²

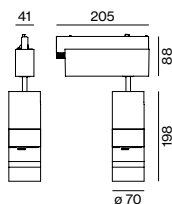
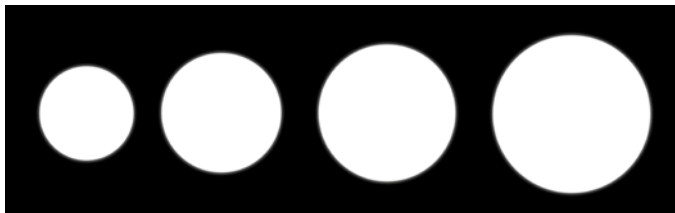
Illumination size



DIMENSIONS

A (mm)	H (mm)	Ø (mm)
1000	330	466
2000	660	933
3000	990	1400

Illumination form



BO 70 GOBO

COB LED	220-240V	CRI > 90
---------	----------	----------

SYSTEM POWER	ORDER CODE
14 W	on request

Illumination form



TIMO 80 FREE

xal.com/timo-80-free



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 96 lm/W
3000 K, 4000 K
CRI > 80, CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 18°, 28°, 38°
optical accessories

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; 355° dreh- und 90° ausschwenkbar; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Oberfläche weiß oder schwarz pulverbeschichtet; Konverter im Kunststoffadapter integriert; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80 oder CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; 355° rotatable and 90° tiltable outward; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; surface white or black powder coated; Integrated converter in the plastic adapter; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON TRACK 50

➔ [page 574](#)



MINYON TRACK 50

➔ [page 578](#)



Features



optimised adapter for
MINYON/CANYON 50

Order options

COLOUR RENDERING INDEX	+
CRI > 80	3
CRI > 90 (only 3000 K)	4

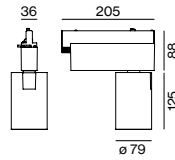
COLOUR TEMPERATURE	::
3000 K	5
4000 K	6

CONTROL	◆
non DIM	1
DIM DALI	3

MATERIAL COLOUR	☑
white	7
black	8
white/black adaptor housing	P



REFLECTOR	▲
spot 18°	S
medium 28°	M
flood 38°	F



TIMO 80 FREE



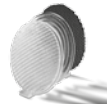
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19 W	3000 K	1800 lm	0 5 3 - 0 3 + 0 :: ◆ ◆ ▲
	4000 K	1800 lm	
29 W	3000 K	2500 lm	0 5 3 - 0 3 + 1 :: ◆ ◆ ▲
	4000 K	2500 lm	

Light distribution for 29 W, 4000 K

spot 18°			medium 28°			flood 38°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	12545	ø 0,32	1	8537	ø 0,49	1	5307	ø 0,68
2	3136	ø 0,65	2	2134	ø 0,98	2	1327	ø 1,37
3	1394	ø 0,97	3	949	ø 1,47	3	590	ø 2,05
4	784	ø 1,30	4	534	ø 1,97	4	332	ø 2,74
5	502	ø 1,62	5	341	ø 2,46	5	212	ø 3,42

Optical accessories

LENSES AND HONEYCOMB LOUVER



TYPE	Ø-H (mm)	ORDER CODE
linear prismatic lens	72·3	0 0 6 - 9 2 2 0 7
honeycomb louver	72·3	0 0 6 - 9 3 1 0 2

Inspiration

Max Dietl
Munich, Germany

SOLUTION
MINYON TRACK 50
TIMO 80 FREE

ARCHITECT
Cornelia Zollner, Gregor Baur
Interior Design
Munich, Germany

LIGHTING DESIGN
Schmidt König Lichtplaner
Munich, Germany





DIS TRACK

xal.com/dis-track



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 63lm/W
3000 K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

beam angle 23°, 36°
lens optics

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

CANYON TRACK 50

[page 574](#)



MINYON TRACK 50

[page 578](#)

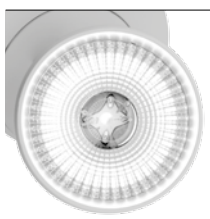


Description

DE Stromschiennenstrahler aus Aluminiumdruckguss mit scheibenförmigen Kopf; 355° dreh- und 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium with disk-shaped head; 355° rotatable and 85° tiltable; surface white or black powder coated; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000 K; CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality single glass lens; precise radiation characteristic with two different beam angles; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

Features



lens optics

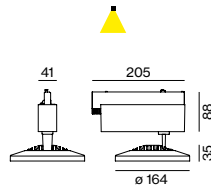
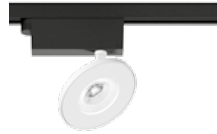
Order options

CONTROL	
non DIM	3
DIM DALI	2

MATERIAL COLOUR	
black	8
black/chrome	9
white/black adapter	P



LED LENS	
medium 23°	M
flood 36°	F



DIS TRACK



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	690 lm	0 4 9 - 1 2 2 1 5
16 W	3000 K	910 lm	0 4 9 - 1 2 2 2 5

Light distribution for 16 W

medium 23°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	3581	ø 0,40	1	1657	ø 0,65
2	895	ø 0,81	2	414	ø 1,30
3	398	ø 1,21	3	184	ø 1,95
4	224	ø 1,61	4	104	ø 2,60
5	143	ø 2,02	5	66	ø 3,25

KIS TRACK

xal.com/kis-track



Quickinfo

GENERAL

track light
IP 20

LED

COB LED module
up to 50 lm/W
3000 K
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination
beam angle 23°, 36°

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

CANYON TRACK 50

➔ [page 574](#)



MINYON TRACK 50

➔ [page 578](#)

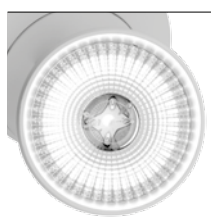


Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; 355° dreh- und 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 90; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP 20; SK II; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; 355° rotatable and 85° tiltable; surface white or black powder coated; optimised for installation in CANYON or MINYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000 K; CRI > 90; min. 80 % of the luminous flux after 50,000 hours; incl. high quality single glass lens; precise radiation characteristic with two different beam angles; protection class IP 20; PC II; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

Features



high quality lens

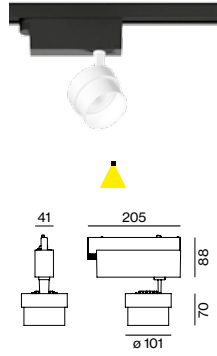
Order options

CONTROL	
non DIM	3
DIM DALI	2

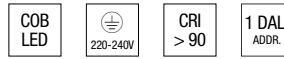
MATERIAL COLOUR	
black	8
white/black adapter	P



LED LENS	
medium 23°	M
flood 36°	F



KIS TRACK



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	3000K	540lm	0 4 9 - 1 7 2 1 5
16W	3000K	700lm	0 4 9 - 1 7 2 2 5

Light distribution for 16W

medium 23°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2757	ø 0,40	1	1193	ø 0,65
2	689	ø 0,81	2	298	ø 1,30
3	306	ø 1,21	3	133	ø 1,95
4	172	ø 1,61	4	75	ø 2,60
5	110	ø 2,02	5	48	ø 3,25

ARGO TRACK

xal.com/argo-track



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 100lm/W
3000K, 4000K, special colour
CRI > 90
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; Konverter im Strahlergehäuse aus Aluminium verbaut; 365° dreh- und 90° schwenkbar; optimiert für Einbau in einem CANYON bzw. MINYON 50 Kanal, Adapter verschwindet im Kanal; Oberfläche weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; Optional als High Performance Variante mit erhöhtem Lichtstrom bei reduzierter Leistungsaufnahme; CRI > 90; min. 80% des Lichtstromes nach 50.000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; Converter installed in aluminium spotlight housing; 365° rotatable and 90° tiltable; optimised for installation in CANYON or MINYON 100 channel, adapter disappears into channel; surface white or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000K and 4000K; optional as high performance version with increased luminous flux at low power; CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON TRACK 50

➔ page 574



MINYON TRACK 50

➔ page 578



Features



tiltable due to bow

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

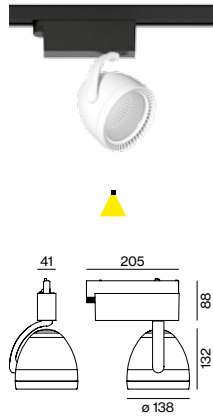
SPECIAL COLOUR			
vogue	CRI > 90	S	
gallery	CRI 98	K	
gourmet		M	
fresh meat & fish		F	
pastry		C	
brilliant white	CRI > 90	W	

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black	8
white/black adaptor	P



REFLECTOR	
spot 14°	S
medium 25°	M
flood 41°	F



ARGO TRACK



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W	3000K	2600 lm	0 5 3 - 8 1 3 0
	4000K	2800 lm	
28W	special colour		0 5 3 - 8 0 3 0
45W	3000K	3400 lm	0 5 3 - 8 1 3 1
	4000K	3600 lm	
44W	special colour		0 5 3 - 8 0 3 1

Light distribution for 45W, 4000K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32547	ø 0,24	1	14792	ø 0,44	1	6528	ø 0,74	1	6528	ø 0,74	1	6528	ø 0,74	1	6528	ø 0,74
2	8137	ø 0,48	2	3698	ø 0,87	2	1632	ø 1,48	2	1632	ø 1,48	2	1632	ø 1,48	2	1632	ø 1,48
3	3616	ø 0,73	3	1644	ø 1,31	3	725	ø 2,22	3	725	ø 2,22	3	725	ø 2,22	3	725	ø 2,22
4	2034	ø 0,97	4	925	ø 1,74	4	408	ø 2,96	4	408	ø 2,96	4	408	ø 2,96	4	408	ø 2,96
5	1302	ø 1,21	5	592	ø 2,18	5	261	ø 3,70	5	261	ø 3,70	5	261	ø 3,70	5	261	ø 3,70

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K	3600 lm	0 5 3 - 9 1 3 1
	4000K	3900 lm	
42W	vogue	2700 lm	0 5 3 - 9 0 3 1 S

Light distribution for 42W, 4000K

spot 14°			LOR 82%			medium 25°			LOR 84%			flood 41°			LOR 82%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	26900	ø 0,28	1	13897	ø 0,46	1	6402	ø 0,79	1	6402	ø 0,79	1	6402	ø 0,79	1	6402	ø 0,79
2	6725	ø 0,56	2	3474	ø 0,92	2	1600	ø 1,58	2	1600	ø 1,58	2	1600	ø 1,58	2	1600	ø 1,58
3	2989	ø 0,83	3	1544	ø 1,39	3	711	ø 2,36	3	711	ø 2,36	3	711	ø 2,36	3	711	ø 2,36
4	1681	ø 1,11	4	869	ø 1,85	4	400	ø 3,15	4	400	ø 3,15	4	400	ø 3,15	4	400	ø 3,15
5	1076	ø 1,39	5	556	ø 2,31	5	256	ø 3,94	5	256	ø 3,94	5	256	ø 3,94	5	256	ø 3,94

Optical accessories

COLOUR AND PROTECTION FILTERS

TYPE	Ø/H (mm)	ORDER CODE
■ dichroic colour filter	105/3	0 0 6 - 9 2 2 3 1
■ dichroic colour filter	105/3	0 0 6 - 9 2 2 3 2
■ dichroic colour filter	105/3	0 0 6 - 9 2 2 3 3
■ dichroic colour filter	105/3	0 0 6 - 9 2 2 3 4
UV protection filter	105/3	0 0 6 - 9 2 2 3 5
IR protection filter	105/3	0 0 6 - 9 2 2 3 6

LENSES AND HONEYCOMB LOUVER

TYPE	Ø/H (mm)	ORDER CODE
sculpture lens	105/3	0 0 6 - 9 2 2 3 7
flood lens clear	105/3	0 0 6 - 9 2 2 3 8
honeycomb louver	105/3	0 0 6 - 9 3 1 3 2

ANTI-GLARE ADAPTOR

TYPE	Ø/H (mm)	ORDER CODE
white 65°	106/65	0 0 5 - 0 7 1 0 7
black 65°	106/65	0 0 5 - 0 7 1 0 8
white	106/65	0 0 5 - 0 7 1 1 7
black	106/65	0 0 5 - 0 7 1 1 8

Inspiration

Kastner & Öhler
Ried im Innkreis, Austria

SOLUTION
ARGO TRACK

ARCHITECT
BLOCHER BLOCHER Partners
Stuttgart, Germany

LIGHTING DESIGN
VEDDER.LICHTMANAGEMENT
Munich, Germany





STUDIO

xal.com/studio



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

COB LED module

up to 106 lm/W

3000 K, 4000 K, special colour

CRI > 80, CRI > 90

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

direct illumination

beam angle 14°, 25°, 41°

optical accessories

ELECTRICAL

non DIM, DALI DIM

PHYSICAL

aluminium

powder-coated

TRACK

➔ [page 588](#)



Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; Konverter im Strahlergehäuse aus Aluminium verbaut; Strahler 355° drehbar; Strahlerkopf 85° schwenkbar; Oberfläche grau, weiß, schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80 oder CRI > 90; min. 80% des Lichtstromes nach 50.000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; Converter installed in aluminium spotlight housing; spotlight rotatable 355°; spotlight head tiltable 85°; surface grey, white, black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80 or CRI > 90; min. 80% of the luminous flux after 50,000 hours; incl. high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

Order options

COLOUR RENDERING INDEX +	
CRI > 80	8
CRI > 90	9

COLOUR TEMPERATURE ::	
3000K	5
4000K	6

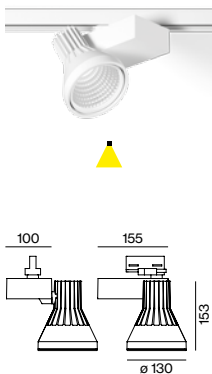
SPECIAL COLOUR ::	
vogue CRI > 90	S
gallery CRI 98	K
gourmet	M
fresh meat & fish	F
pastry	C
brilliant white CRI > 90	W

CONTROL ◆	
non DIM	1
DIM DALI	3

MATERIAL COLOUR ■	
grey	6
white	7
black	8



REFLECTOR ▲	
spot 14°	S
medium 25°	M
flood 41°	F



STUDIO



STANDARD

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2900 lm	0 5 3 - 7 + 2 1 ◆◆◆▲
	4000 K	3100 lm	
28 W	special colour		0 5 3 - 7 8 2 1 ◆◆◆▲
45 W	3000 K	3900 lm	0 5 3 - 7 + 2 2 ◆◆◆▲
	4000 K	4100 lm	
44 W	special colour		0 5 3 - 7 8 2 2 ◆◆◆▲

luminous flux CRI 80

Light distribution for 45 W, CRI > 80, 4000 K

spot 14°			LOR 84%			medium 25°			LOR 85%			flood 41°			LOR 83%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	36431	ø 0,24	1	16558	ø 0,44	1	7307	ø 0,74	1	7307	ø 0,74	1	7307	ø 0,74	1	7307	ø 0,74
2	9108	ø 0,48	2	4139	ø 0,87	2	1827	ø 1,48	2	1827	ø 1,48	2	1827	ø 1,48	2	1827	ø 1,48
3	4048	ø 0,73	3	1840	ø 1,31	3	812	ø 2,22	3	812	ø 2,22	3	812	ø 2,22	3	812	ø 2,22
4	2277	ø 0,97	4	1035	ø 1,74	4	457	ø 2,96	4	457	ø 2,96	4	457	ø 2,96	4	457	ø 2,96
5	1457	ø 1,21	5	662	ø 2,18	5	292	ø 3,70	5	292	ø 3,70	5	292	ø 3,70	5	292	ø 3,70

HIGH PERFORMANCE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42 W	3000 K	4300 lm	0 5 3 - 6 + 2 2 ◆◆◆▲
	4000 K	4400 lm	
42 W	vogue	2700 lm	0 5 3 - 6 8 2 2 S ◆◆◆▲

luminous flux CRI 80

Light distribution for 42 W, CRI > 80, 4000 K

spot 14°			LOR 82%			medium 25°			LOR 84%			flood 41°			LOR 82%		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	30062	ø 0,28	1	15530	ø 0,46	1	7154	ø 0,79	1	7154	ø 0,79	1	7154	ø 0,79	1	7154	ø 0,79
2	7516	ø 0,56	2	3883	ø 0,92	2	1789	ø 1,58	2	1789	ø 1,58	2	1789	ø 1,58	2	1789	ø 1,58
3	3340	ø 0,83	3	1726	ø 1,39	3	795	ø 2,36	3	795	ø 2,36	3	795	ø 2,36	3	795	ø 2,36
4	1879	ø 1,11	4	971	ø 1,85	4	447	ø 3,15	4	447	ø 3,15	4	447	ø 3,15	4	447	ø 3,15
5	1202	ø 1,39	5	621	ø 2,31	5	286	ø 3,94	5	286	ø 3,94	5	286	ø 3,94	5	286	ø 3,94

Optical accessories

LENSES AND HONEYCOMB LOUVER

TYPE	Ø/H (mm)	ORDER CODE
sculpture lens	105/3	0 0 6 - 9 2 2 3 7
flood lens clear	105/3	0 0 6 - 9 2 2 3 8
honeycomb louver	96/4	0 0 6 - 9 3 1 2 3

Mounting accessories

SURFACE HOUSING / POINT OUTLET

COLOUR	ORDER CODE
grey	3 8 6 - 0 7 2 2 8 6
white	3 8 6 - 0 7 2 2 8 7
black	3 8 6 - 0 7 2 2 8 8

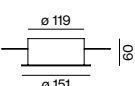
not use with DIM DALI (on request)

RECESSED HOUSING | POINT OUTLET

ceiling thickness: 0-30mm

COLOUR	ORDER CODE
grey	3 8 6 - 0 7 2 2 7 6
white	3 8 6 - 0 7 2 2 7 7
black	3 8 6 - 0 7 2 2 7 8

not use with DIM DALI (on request)



Inspiration

OUI Showroom
Munich, Germany

SOLUTION
STUDIO

ARCHITECT
OUI Gruppe
Munich, Germany





STRAIGHT

xal.com/straight



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

COB LED module

up to 80lm/W

3000K (2700K on request)

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

direct illumination

beam angle 23°, 36°

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

TRACK

[page 588](#)



Description

DE Stromschiennenstrahler aus Aluminium; Strahler 355° drehbar; Strahlerkopf 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Konverter im Strahlergehäuse aus Aluminium verbaut; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen

EN Track spotlight in aluminium; spotlight rotatable 355°; spotlight head tiltable 85°; surface white or black powder coated; Converter installed in aluminium spotlight housing; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no formation of multiple shadows; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; incl. high quality single glass lens; precise radiation characteristic with two different beam angles; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks

Order options

MATERIAL COLOUR	
white	7
black	8



LED Lens	
medium 23°	M
flood 36°	F

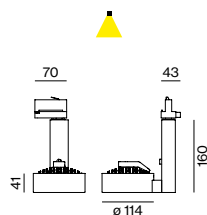


STRAIGHT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	880 lm	0 8 0 - 2 6 5 6
16 W	3000 K	1200 lm	0 8 0 - 2 7 5 6

Light distribution



medium 23°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	4526	ø 0,40	1	2094	ø 0,65
2	1132	ø 0,81	2	523	ø 1,30
3	503	ø 1,21	3	233	ø 1,95
4	283	ø 1,61	4	131	ø 2,60
5	181	ø 2,02	5	84	ø 3,25

Optical accessories

LENSES AND HONEYCOMB LOUVER



TYPE	Ø H (mm)	ORDER CODE
sculpture lens	105-3	0 0 6 - 9 2 2 3 7
flood lens clear	105-3	0 0 6 - 9 2 2 3 8
honeycomb louver	105-3	0 0 6 - 9 3 1 3 2

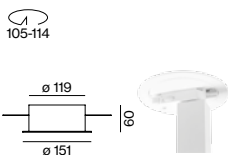
Mounting accessories

SURFACE HOUSING / POINT OUTLET



COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 8 7
black	3 8 6 - 0 7 2 2 8 8

not use with DIM DALI (on request)



RECESSED HOUSING | POINT OUTLET

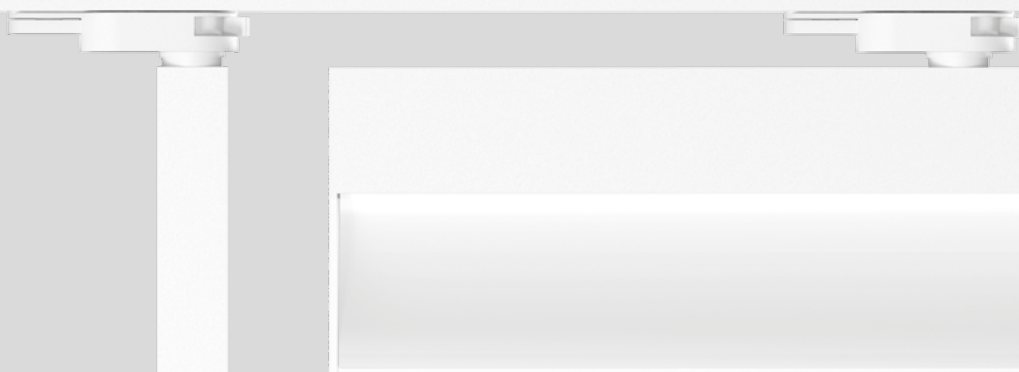
ceiling thickness: 0-30 mm

COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 7 7
black	3 8 6 - 0 7 2 2 7 8

not use with DIM DALI (on request)

STRAIGHT WALLWASHER

xal.com/straight-wallwasher



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

Mid-power LED

up to 77 lm/W

3000 K, 4000 K

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

asymmetric light distribution

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

anodised aluminium

adapter plastic

TRACK

page 588



Description

DE Wandfluter aus Aluminium für StromschieneMontage; 360° drehbar; Oberfläche schwarz oder weiß eloxiert; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken; Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiene; optional DALI-dimmbar

EN Wallwasher in aluminium for power track mounting; 360° rotatable; surface anodised black or white; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 80 % of the luminous flux after 50,000 hours; with specially computed, asymmetrical reflector for homogeneous lighting intensity; reflector in matt anodised aluminium, installation without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

Features



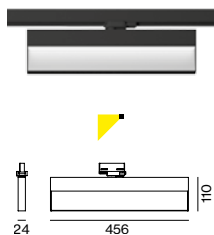
pure aluminium
reflector

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI	3

MATERIAL COLOUR	
white	7
black	8

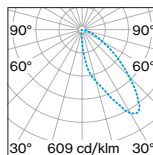


STRAIGHT WALLWASHER



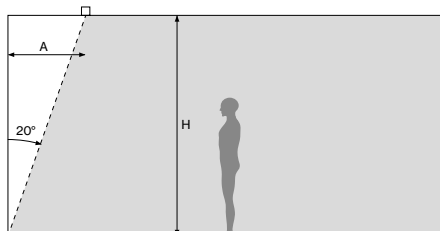
SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22 W	3000K	1600lm	0 8 0 - 4 0
	4000K	1700lm	◆ ◆ A

Light distribution



Wallwasher
direct
LOR 59%

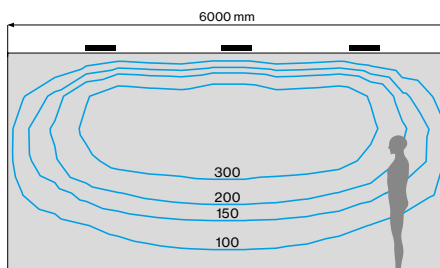
Technical data



ROOM DIMENSIONS

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Em (lx)	E _{max} (lx)
218	535
197	462
165	369



Mounting accessories

SURFACE HOUSING / POINT OUTLET

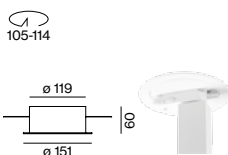


COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 8 7
black	3 8 6 - 0 7 2 2 8 8

not use with DIM DALI (on request)

RECESSED HOUSING | POINT OUTLET

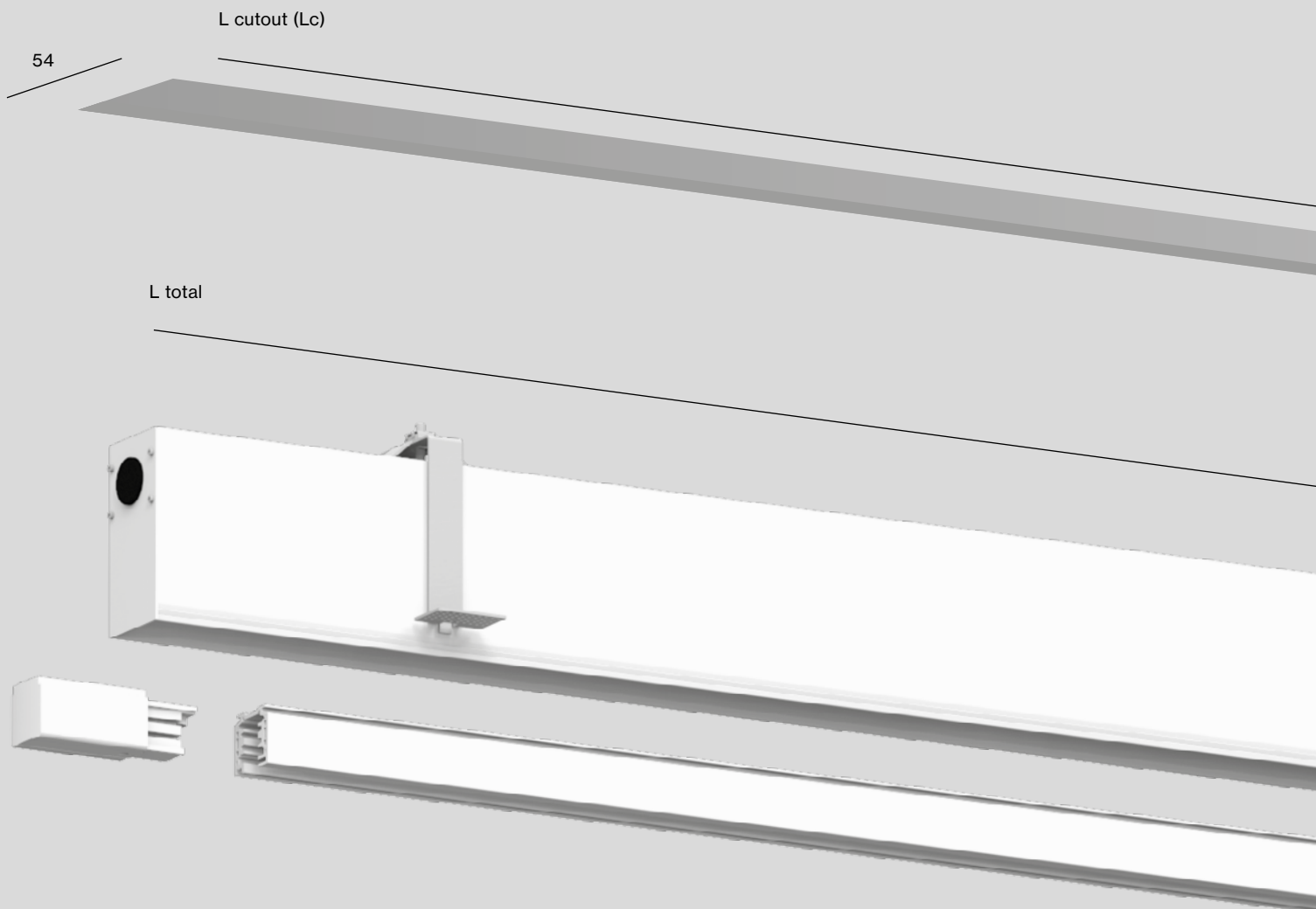
ceiling thickness: 0-30 mm

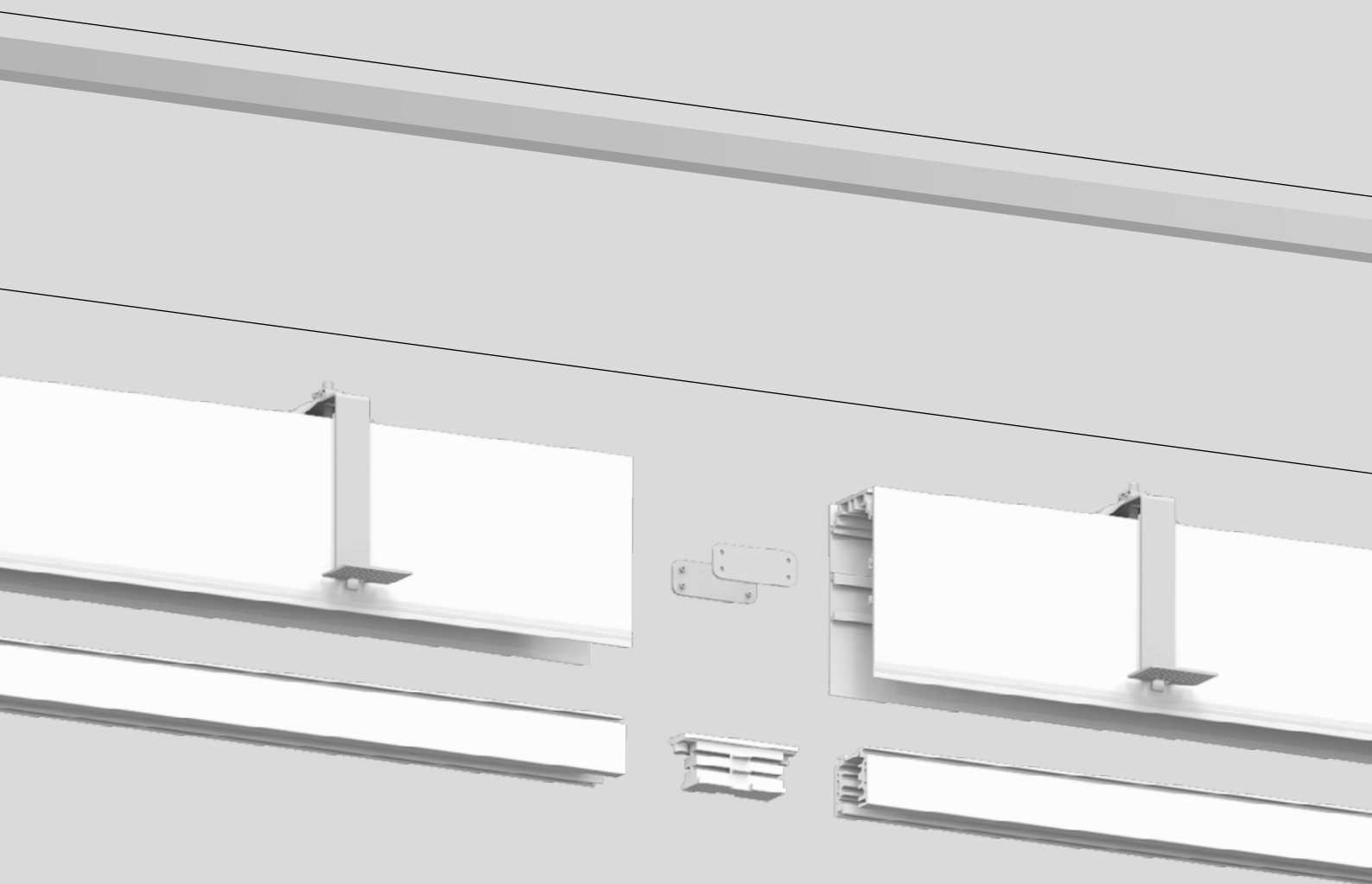


COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 7 7
black	3 8 6 - 0 7 2 2 7 8

not use with DIM DALI (on request)

CANYON TRACK 50





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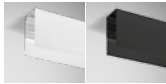
CANYON TRACK 50

Order options

INSTALLATION CHANNEL

MATERIAL COLOUR

white	7
black	8



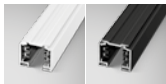
TRACK CONTROL

non DIM	1
DIM DALI	3

TRACK

MATERIAL COLOUR

white	7
black	8



INSTALLATION CHANNEL

L (mm)

L (mm)	ORDER CODE
1075	033 - 6510
2075	033 - 6520
3000	033 - 6530
custom cut	E82400

END CAPS (pair)

TYPE

TYPE	ORDER CODE
white	033 - 65047
black	033 - 65048

MOUNTING BRACKET

CEILING THICKNESS (mm)

CEILING THICKNESS (mm)	ORDER CODE
8-15	033 - 65010
18-25	033 - 65011

number of brackets required: length of your system in metres+1

LINEAR CONNECTOR

TYPE

TYPE	ORDER CODE
linear connector	033 - 65020
track mounting set (10 pieces)	033 - 65030

SUSPENSION KIT FOR HEAVY WEIGHTS

L (mm)

L (mm)	ORDER CODE
2000	033 - 66050

use suspension kit every 2m

CORNER CONNECTOR 90°

TYPE

TYPE	ORDER CODE
corner connector 90°	033 - 6506

3-PHASE/BUS TRACK 240V-16A

L (mm)

L (mm)	ORDER CODE
1000	386 - 01111
2000	386 - 01121
3000	386 - 01131
4000	386 - 01141

END CAP

TRACK

TRACK	ORDER CODE
surface mounted	386 - 021011

LINEAR CONNECTOR 240V-16A

TRACK

TRACK	ORDER CODE
surface mounted	386 - 02111

END / MIDDLE FEED 240V-16A

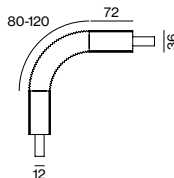
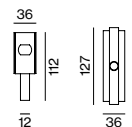
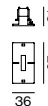
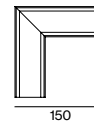
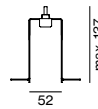
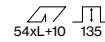
TRACK

TRACK	ORDER CODE
surface mounted right	386 - 02131
surface mounted left	386 - 02141
surface mounted universal	386 - 02032

ADJUSTABLE CONNECTOR 240V-16A

TRACK

TRACK	ORDER CODE
surface mounted	386 - 02116



Inspiration

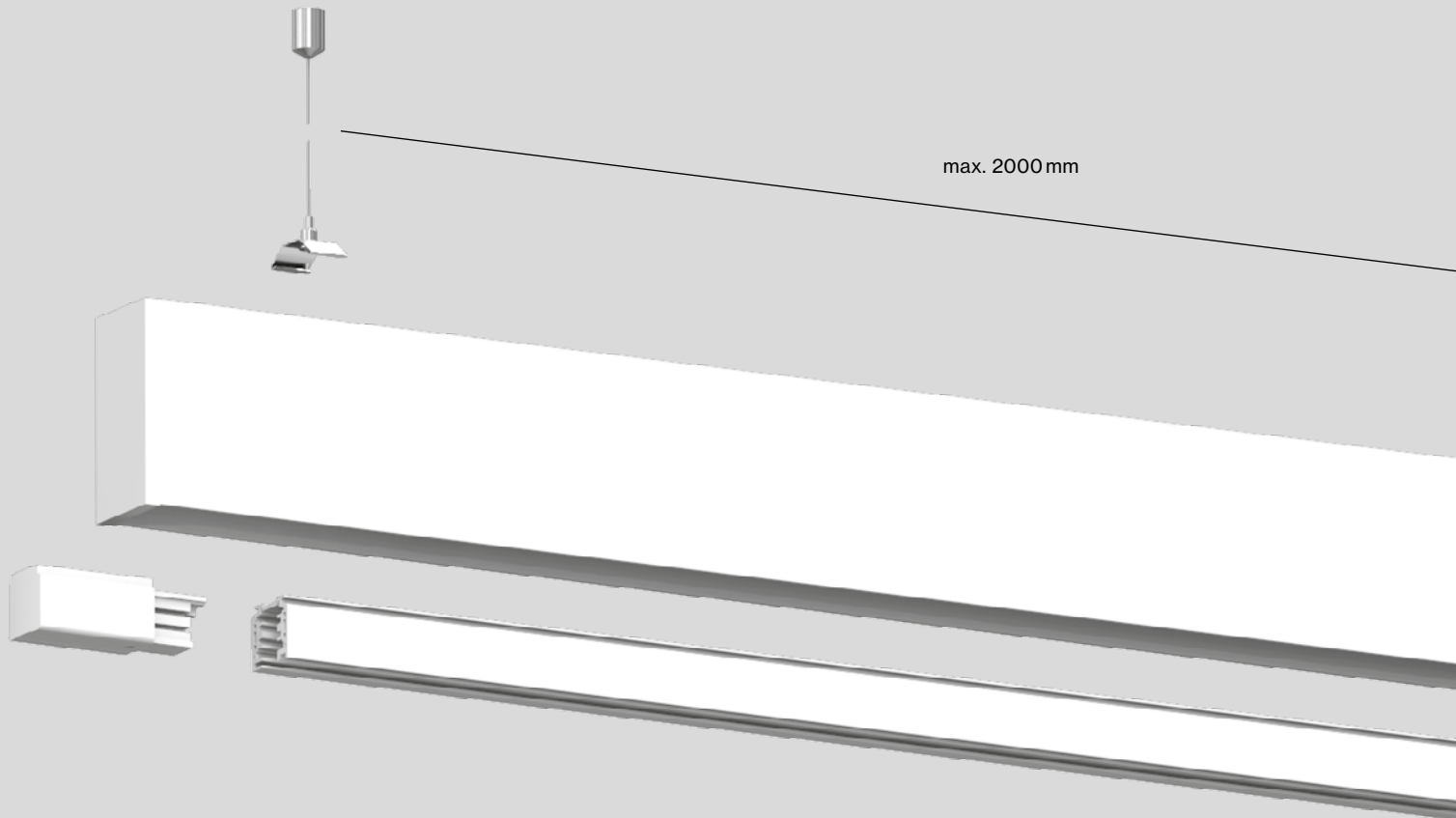
Apotheke zum Schwan
Vienna, Austria

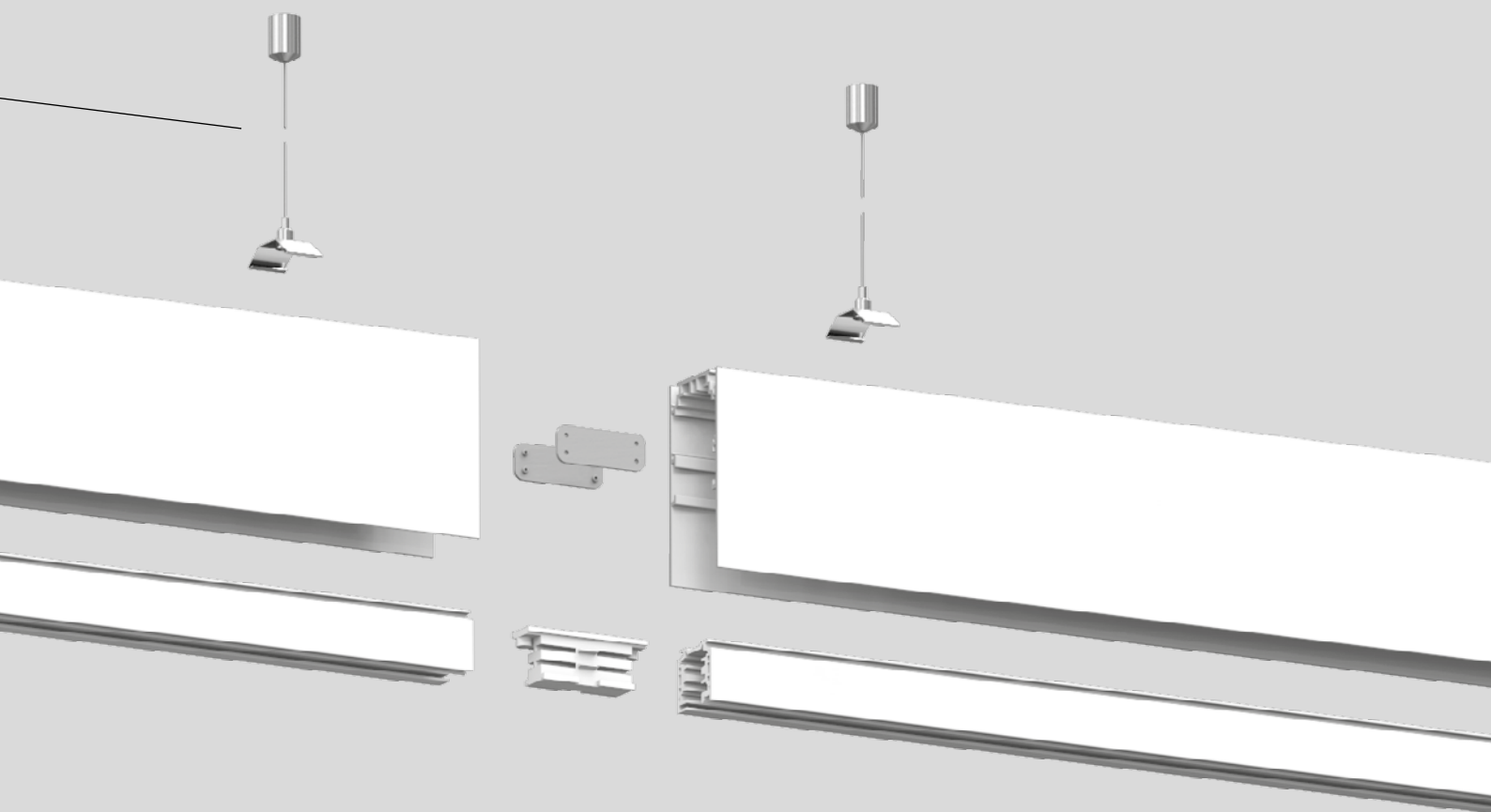
SOLUTION
CANYON TRACK 50
TIMO 80 FREE

ARCHITECT
Mag. arch. Franz Moser
Tischlerei Moser GmbH
Grieskirchen, Austria



MINYON TRACK 50





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MINYON TRACK 50

Order options

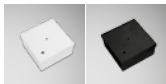
INSTALLATION CHANNEL

MATERIAL COLOUR	<input checked="" type="checkbox"/>
white	7
black	8



POWER FEEDER

MATERIAL COLOUR	<input checked="" type="checkbox"/>
white	7
black	8



TRACK CONTROL

non DIM	1
DIM DALI	3

TRACK MATERIAL COLOUR

white	7
black	8



INSTALLATION CHANNEL

L (mm)	ORDER CODE
1075	033 - 6610 <input checked="" type="checkbox"/>
2075	033 - 6620 <input checked="" type="checkbox"/>
3000	033 - 6630 <input checked="" type="checkbox"/>
custom cut	E 85400 ···· <input checked="" type="checkbox"/>



END CAPS (pair)

TYPE	ORDER CODE
white	033 - 66047
black	033 - 66048



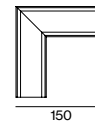
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector	033 - 65020
track mounting set (10 pieces)	033 - 65030



CORNER CONNECTOR 90°

TYPE	ORDER CODE
corner connector 90°	033 - 6606 <input checked="" type="checkbox"/>



3-PHASE/BUS TRACK 240V-16A

L (mm)	ORDER CODE
1000	386 - 01111 <input checked="" type="checkbox"/>
2000	386 - 01121 <input checked="" type="checkbox"/>
3000	386 - 01131 <input checked="" type="checkbox"/>
4000	386 - 01141 <input checked="" type="checkbox"/>



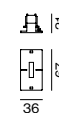
END CAP

TRACK	ORDER CODE
surface mounted	386 - 021011 <input checked="" type="checkbox"/>



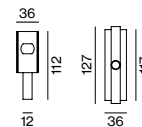
LINEAR CONNECTOR 240V-16A

TRACK	ORDER CODE
surface mounted	386 - 02111 <input checked="" type="checkbox"/>



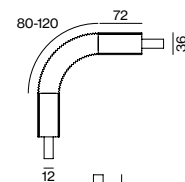
END / MIDDLE FEED 240V-16A

TRACK	ORDER CODE
surface mounted right	386 - 02131 <input checked="" type="checkbox"/>
surface mounted left	386 - 02141 <input checked="" type="checkbox"/>
surface mounted universal	386 - 02032 <input checked="" type="checkbox"/>



ADJUSTABLE CONNECTOR 240V-16A

TRACK	ORDER CODE
surface mounted	386 - 02116 <input checked="" type="checkbox"/>



SUSPENSION

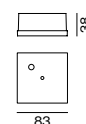
TYPE	L (mm)	ORDER CODE
cable suspension	2000	033 - 66050
cable suspension	4000	033 - 66051

use suspension kit every 2m



POWER FEEDER

TYPE	L (mm)	ORDER CODE
3x1,5 mm ²	2000	005 - 3262 <input checked="" type="checkbox"/>
5x1,5 mm ²	2000	005 - 3263 <input checked="" type="checkbox"/>
3x1,5 mm ²	4000	005 - 3264 <input checked="" type="checkbox"/>
5x1,5 mm ²	4000	005 - 3265 <input checked="" type="checkbox"/>



Inspiration

Max Dietl
Munich, Germany

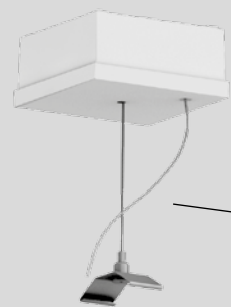
SOLUTION
MINYON TRACK 50
TIMO 80 FREE

ARCHITECT
Cornelia Zollner, Gregor Baur
Interior Design
Munich, Germany

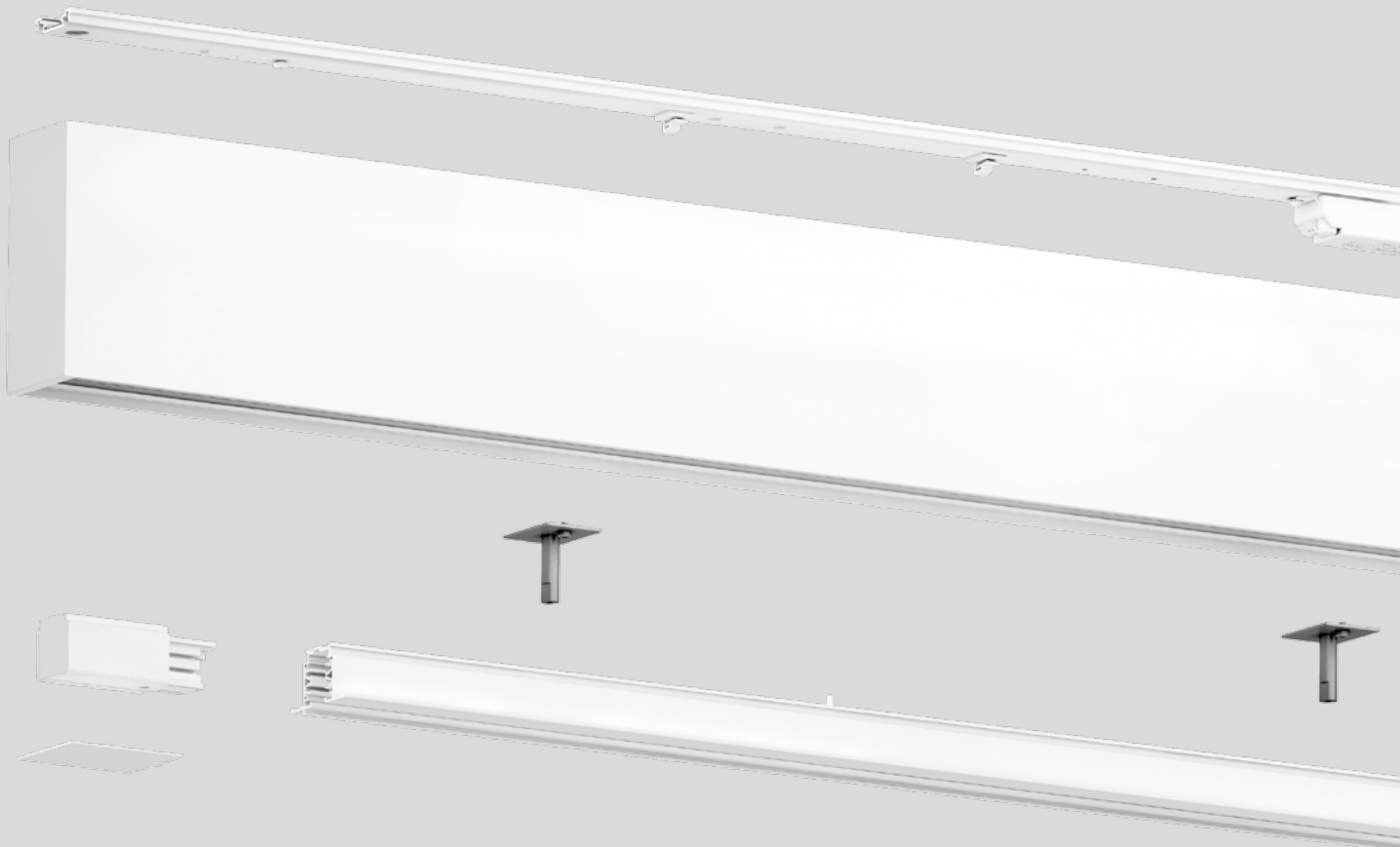
LIGHTING DESIGN
Schmidt König Lichtplaner
Munich, Germany

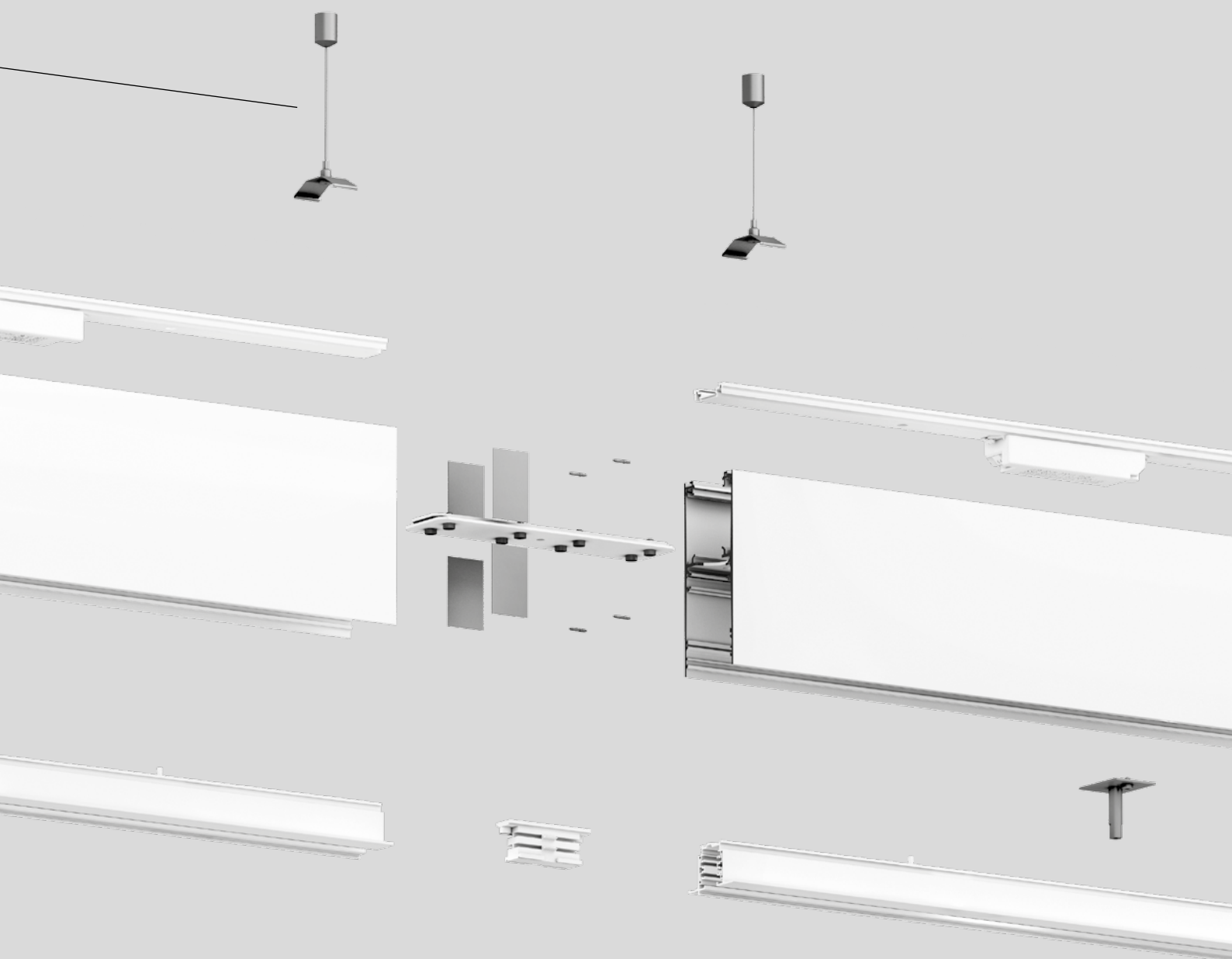


STILO RAIL 60 SYSTEM



max. 2000 mm





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STILO RAIL 60 SYSTEM

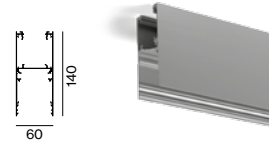
Order options

MATERIAL COLOUR	
anodised aluminium (grey)	6
white	7
black	8



INSTALLATION CHANNEL

L (mm)	ORDER CODE
572	032 - 0061
872	032 - 0091
1172	032 - 0121
1472	032 - 0151
2344	032 - 0251
3000	032 - 0301
custom cut	E85130



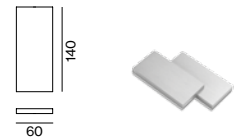
BLIND COVER

L (mm)	ORDER CODE
572	006 - 1806
872	006 - 1809
1172	006 - 1812
1472	006 - 1815
2344	006 - 1824
3000	006 - 1830
custom cut	E80630



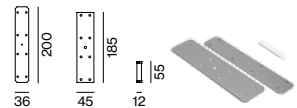
END CAPS (pair)

TYPE	ORDER CODE
anodised aluminium	032 - 13016
white	032 - 13017
black	032 - 13018



LINEAR CONNECTOR

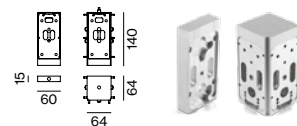
TYPE	ORDER CODE
linear connector (1 piece)	032 - 12136
opal cover linear connector	006 - 14000
clear cover linear connector	006 - 16000



CONNECTOR

TYPE	ORDER CODE
visible linear connector	032 - 1201
90° corner	032 - 1261
T-connector	032 - 1321

X-connector on request



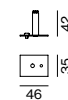
CABLE SUSPENSION

L (mm)	ORDER CODE
2000	032 - 10576
4000	032 - 10676



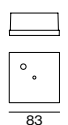
FIXING PIECE FOR TRACKS

TYPE	ORDER CODE
fixing piece for tracks	005 - 40166



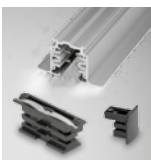
POWER FEEDER

TYPE	L (mm)	ORDER CODE
3x1,5 mm ²	2000	032 - 1104
5x1,5 mm ²	2000	032 - 1154
3x1,5 mm ²	4000	032 - 1114
5x1,5 mm ²	4000	032 - 1164



TRACK + ACCESSORIES

on request
(global/nokia
recessed)



THROUGH WIRE

TYPE	ORDER CODE
3x1,5 mm ²	004 - 90003
5x1,5 mm ²	004 - 90005

10 pieces per pack



INSET + COVER

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

EMERGENCY	
1h Accupack	N L 1
3h Accupack (only 1464mm)	N L 3



INSET DIRECT 60 e² LED, non DIM



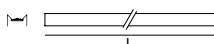
SYSTEM POWER	L (mm)	ORDER CODE
14 W	572	007 - 9332 :: 17
20 W	872	007 - 9333 :: 17
27 W	1172	007 - 9334 :: 17
34 W	1464	007 - 9335 :: 17
54 W	2344	007 - 9338 :: 17
68 W	2926	007 - 9339 :: 17
27 W	1172	007 - 9334 :: 17 ●
34 W	1464	007 - 9335 :: 17 ●



COVER DIRECT 60 OPAL



L (mm)	ORDER CODE
570	006 - 14063
870	006 - 14093
1170	006 - 14123
1470	006 - 14153
2342	006 - 14233
2997	006 - 14303
custom cut	E80630 ···· 0H



INSET INDIRECT 40 e LED, non DIM



SYSTEM POWER	L (mm)	ORDER CODE
9 W	572	007 - 6322 :: 17
14 W	872	007 - 6323 :: 17
18 W	1172	007 - 6324 :: 17
23 W	1464	007 - 6325 :: 17
36 W	2344	007 - 6328 :: 17



COVER INDIRECT 40 CLEAR LINEAR PRISMATIC

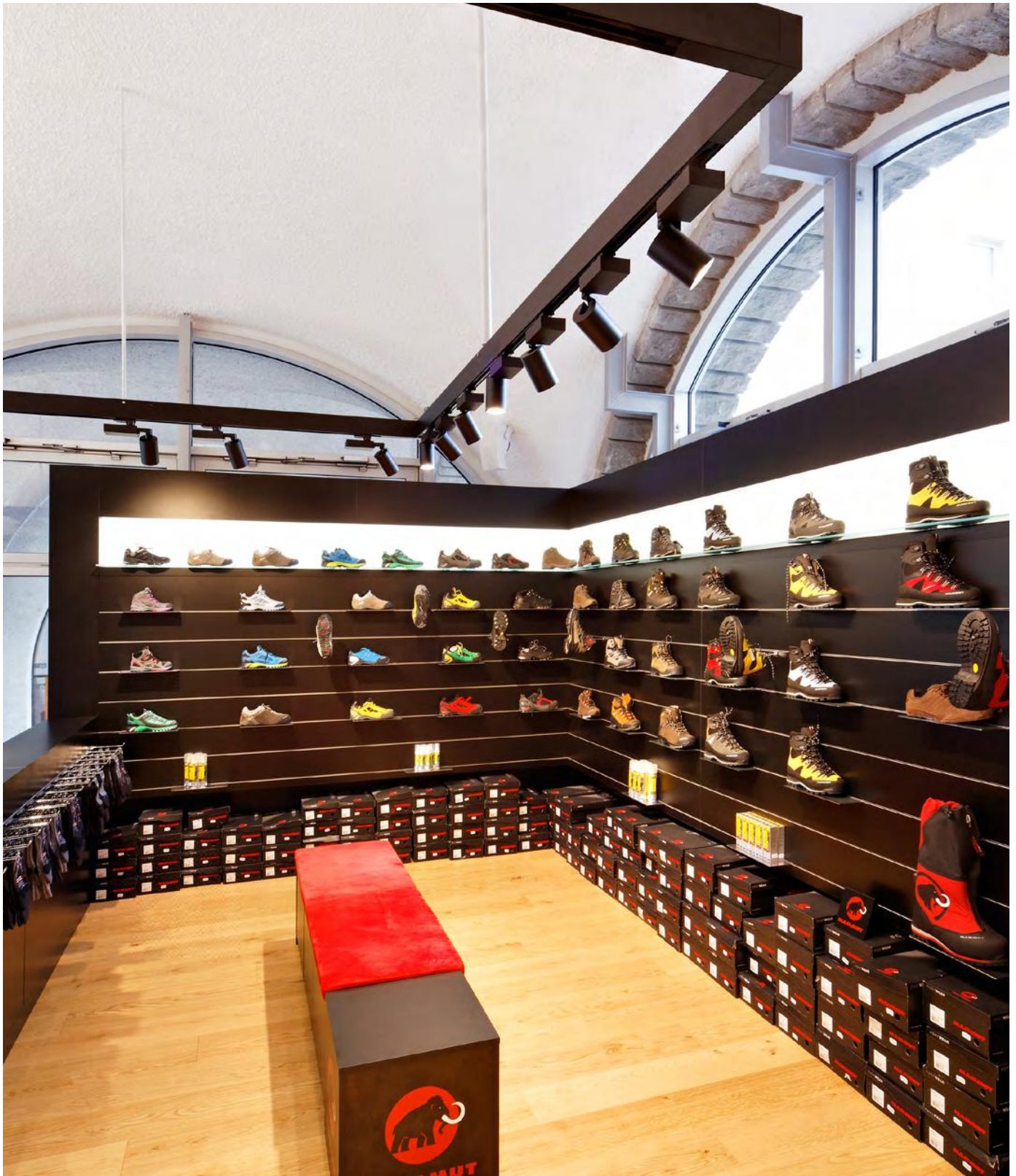
L (mm)	ORDER CODE
570	006 - 06060
870	006 - 06090
1170	006 - 06120
2342	006 - 06240
2997	006 - 06300
custom cut	E80620 ···· 0C

Inspiration

MAMMUT Store
Stuttgart, Germany

SOLUTION
STILO RAIL 60
TIMO 80 FREE customised

ARCHITECT
alteliersv
Munich, Germany





TRACK

Order options

CONTROL

non DIM	1
DIM DALI	3

TRACK

MATERIAL COLOUR

anodised aluminium	6
white	7
black	8



ACCESSORY

MATERIAL COLOUR

grey	0
white	7
black	8



SURFACE MOUNTED 3-PHASE/BUS TRACK 240V-16A

L (mm)	ORDER CODE
1000	386 - 011111
2000	386 - 011211
3000	386 - 011311
4000	386 - 011411



RECESSED 3-PHASE/BUS BUILT-IN TRACK 240V-16A

L (mm)	ORDER CODE
2000	386 - 012211
3000	386 - 012311
4000	386 - 012411



END CAP

TYPE	ORDER CODE
surface mounted	386 - 021011
recessed	386 - 022011



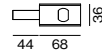
LINEAR CONNECTOR 240V-16A

TYPE	ORDER CODE
surface mounted	386 - 021111
recessed	386 - 022111



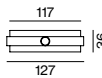
END FEED 240V-16A

TYPE	ORDER CODE
surface mounted right	386 - 021311
surface mounted left	386 - 021411
recessed right	386 - 022311
recessed left	386 - 022411



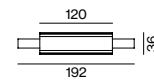
MIDDLE FEED 240V-16A

TYPE	ORDER CODE
universal	386 - 020321



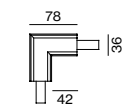
I-CONNECTOR 240V-16A

TYPE	ORDER CODE
surface mounted	386 - 021121
recessed	386 - 022121



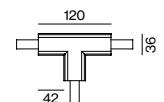
L-CONNECTOR 240V-16A

TYPE	ORDER CODE
surface mounted right	386 - 021131
surface mounted left	386 - 021231
recessed right	386 - 022131
recessed left	386 - 022231



T-CONNECTOR 240V-16A

TYPE	ORDER CODE
surface mounted right	386 - 021141
surface mounted left	386 - 021241
recessed right	386 - 022141
recessed left	386 - 022241



Order options

ACCESSORY CONTROL

non DIM	1
DIM DALI	3

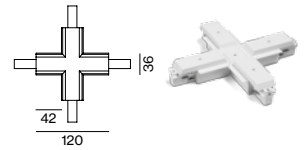
ACCESSORY MATERIAL COLOUR

grey / anodised aluminium	0
white	7
black	8



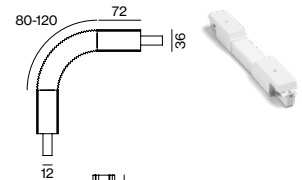
X-CONNECTOR 240V-16A

TYPE	ORDER CODE
surface mounted track	386 - 02115
recessed track	386 - 02215



ADJUSTABLE CORNER CONNECTOR 240V-16A

TYPE	ORDER CODE
surface mounted	386 - 02116



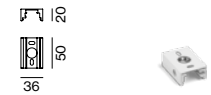
CEILING CLIP

TYPE	ORDER CODE
surface mounted	386 - 021511



PENDANT CLIP

TYPE	ORDER CODE
surface mounted	386 - 021521



JOINER PIECE

TYPE	ORDER CODE
surface mounted	386 - 021531



CLIP

TYPE	ORDER CODE
recessed	386 - 0225110



SUSPENSION ELEMENT

TYPE	ORDER CODE
recessed	386 - 0225210



SUSPENSION WIRE FOR SURFACE MOUNTED TRACK

TYPE	ORDER CODE
600	386 - 021611
1200	386 - 021621

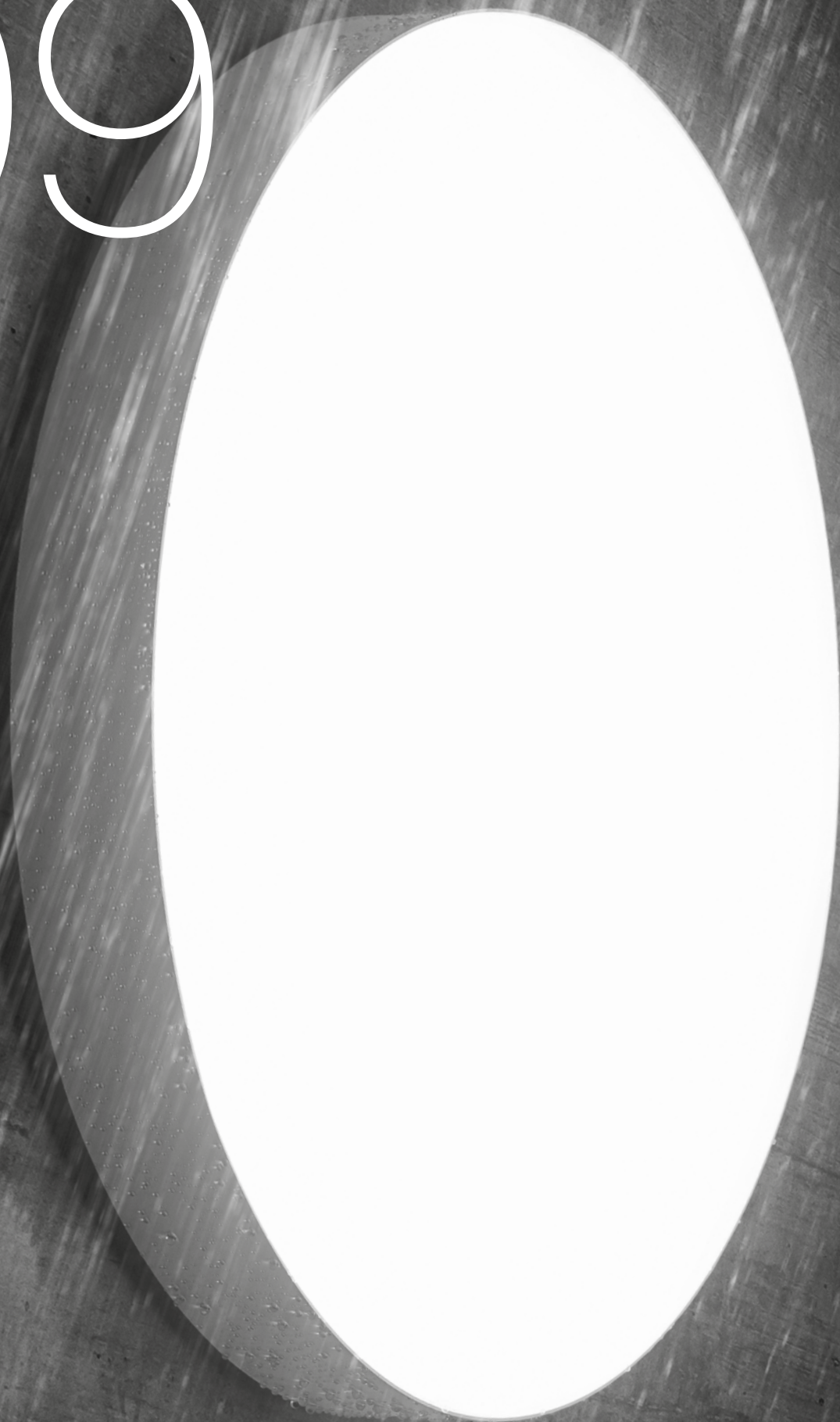


SUSPENSION WIRE FOR SURFACE MOUNTED TRACK

TYPE	ORDER CODE
1500	386 - 0217110
3000	386 - 0217210
6200	386 - 0217310



09



AUSSEN- UND BODENEINBAULEUCHTEN OUTDOOR AND RECESSED FLOOR LUMINAIRES



SONO
SURFACE IP54

➔ 592



SONO LOOP
SURFACE IP54

➔ 594



SONO FLEX
TRIMLESS IP54

➔ 598



SONO FLEX
IP54

➔ 600



STREAMCUT
BOLLARD

➔ 602



STREAMCUT
SURFACE

➔ 604



STREAMCUT
WALL

➔ 606



DOC

➔ 610



SOLIS

➔ 612



PERO
WALL

➔ 614



PERO

➔ 616



CUBU
WALL / CEILING

➔ 618



LETU / LECU
WALL / CEILING

➔ 622



FRAME
80 / 120 IP65

➔ 624



MINO 20
IP54

➔ 628



MINO 60 / 100
IP65

➔ 630



INDO / INDY

➔ 632



STILA

➔ 634



WISE

➔ 638



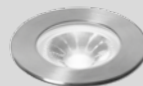
LETU 65 / 110

➔ 640



LECU 65 / 110

➔ 644



FILO 120 / 160

➔ 650

SONO SURFACE IP54

xal.com/sono-IP54



Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 141lm/W
3000 K, 4000 K, tunable white
CRI > 80 (CRI > 90 on request)
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium-druckguss; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion

EN Round luminaire housing in die-cast aluminium; surface white powder coated; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP54; PC I; optional DALI dimmable with CLO or RCS function

SONO SURFACE

[page 226](#)



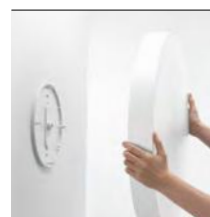
Features



IP54 (waterproof protection)



sturdy design



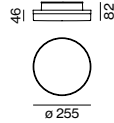
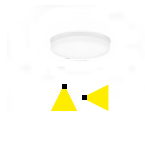
easy mounting by click-mechanism

Order options

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	◆
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

MATERIAL COLOUR	
white	

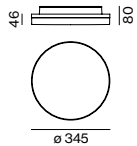
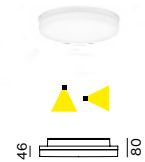


SONO 260 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W e ²	3000K	880lm	8 7 1 - 9 1 2 6 ☐☐ ◆ 7 0
	4000K	920lm	

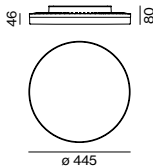
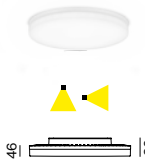


SONO 350 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W e	3000K (☉)	1000lm	8 7 1 - 9 1 3 7 ☐☐ ◆ 7 0
	4000K (☉)	1100lm	
15 W e ²	3000K (☉)	1800lm	8 7 1 - 9 1 3 6 ☐☐ ◆ 7 0
	4000K (☉)	1900lm	
15 W e ²	tunable white (2 DALI)		8 7 1 - 9 1 3 6 0 3 7 0

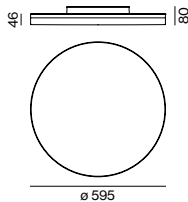
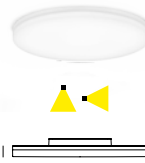


SONO 450 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W e	3000K (☉)	1600lm	8 7 1 - 9 1 4 7 ☐☐ ◆ 7 0
	4000K (☉)	1700lm	
23 W e ²	3000K (☉)	2900lm	8 7 1 - 9 1 4 6 ☐☐ ◆ 7 0
	4000K (☉)	3000lm	
23 W e ²	tunable white (2 DALI)		8 7 1 - 9 1 4 6 0 3 7 0



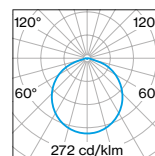
SONO 600 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W e	3000K (☉)	3100lm	8 7 1 - 9 1 5 7 ☐☐ ◆ 7 0
	4000K (☉)	3300lm	
43 W e ²	3000K (☉)	5500lm	8 7 1 - 9 1 5 6 ☐☐ ◆ 7 0
	4000K (☉)	5700lm	
43 W e ²	tunable white (2 DALI)		8 7 1 - 9 1 5 6 0 3 7 0

Light distribution



Opal
direct
LOR 86 %

SONO LOOP SURFACE IP54

xal.com/sono-loop-IP54



Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 125lm/W
3000 K, 4000 K, tunable white
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss, Oberfläche weiß pulverbeschichtet; aufgesetzter Ring aus gerolltem und nahtlos verschweißtem Aluminiumprofil, Oberfläche weiß, grau oder schwarz pulverbeschichtet; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion

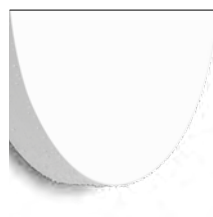
EN Round luminaire housing in die-cast aluminium, surface white powder coated; fitted bezel in rolled, seamless welded aluminium profile, white surface, powder coated grey or black; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP54; PC I; optional DALI dimmable with CLO or RCS function

SONO LOOP SURFACE

[page 230](#)



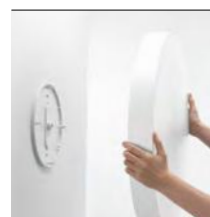
Features



IP54 (waterproof protection)



sturdy design



easy mounting by click-mechanism



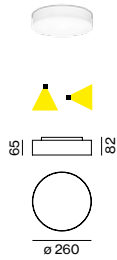
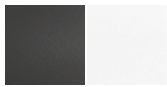
narrow edge

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

MATERIAL COLOUR	
dark grey	D
white	7

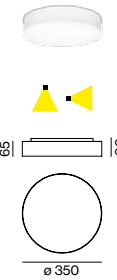


SONO LOOP 260 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W e ²	3000K	810lm	8 7 1 - 8 1 2 6 :: ◆ ◆ □ ○
	4000K	850lm	

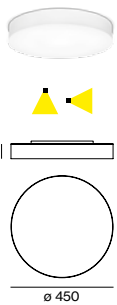


SONO LOOP 350 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W e	3000K (☉)	940lm	8 7 1 - 8 1 3 7 :: ◆ ◆ □ ○
	4000K (☉)	980lm	
15 W e ²	3000K (☉)	1700lm	8 7 1 - 8 1 3 6 :: ◆ ◆ □ ○
	4000K (☉)	1800lm	
15 W e ²	tunable white (2 DALI)		8 7 1 - 8 1 3 6 0 3 □ ○

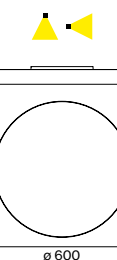


SONO LOOP 450 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W e	3000K (☉)	1400lm	8 7 1 - 8 1 4 7 :: ◆ ◆ □ ○
	4000K (☉)	1500lm	
23 W e ²	3000K (☉)	2600lm	8 7 1 - 8 1 4 6 :: ◆ ◆ □ ○
	4000K (☉)	2800lm	
23 W e ²	tunable white (2 DALI)		8 7 1 - 8 1 4 6 0 3 □ ○



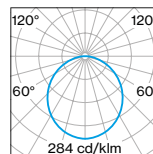
SONO LOOP 600 SURFACE IP54



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W e	3000K (☉)	2900lm	8 7 1 - 8 1 5 7 :: ◆ ◆ □ ○
	4000K (☉)	3000lm	
43 W e ²	3000K (☉)	5000lm	8 7 1 - 8 1 5 6 :: ◆ ◆ □ ○
	4000K (☉)	5200lm	
43 W e ²	tunable white (2 DALI)		8 7 1 - 8 1 5 6 0 3 □ ○

Light distribution



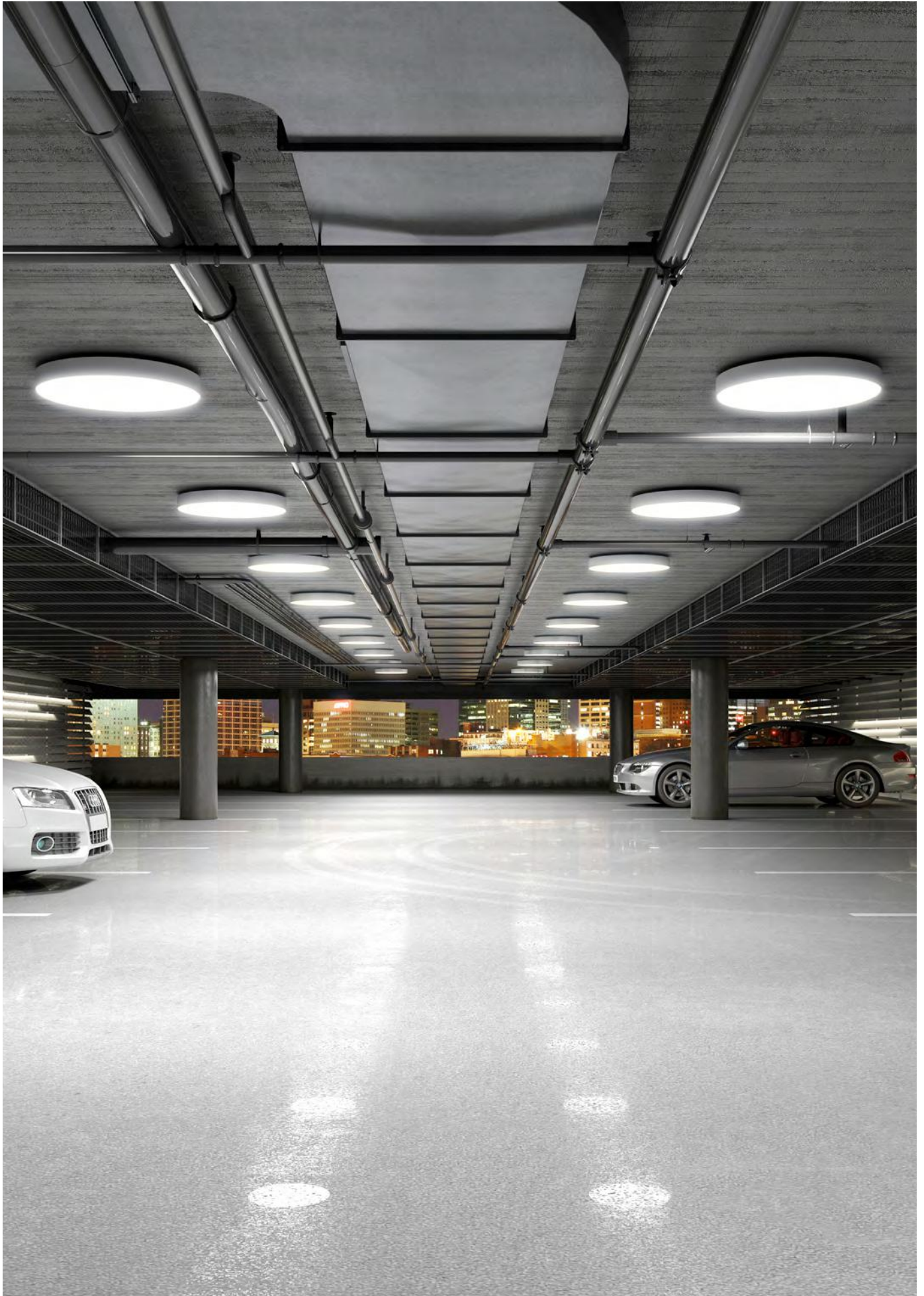
Opal
direct
LOR 79%

Inspiration

Parking Garage
Visualisation

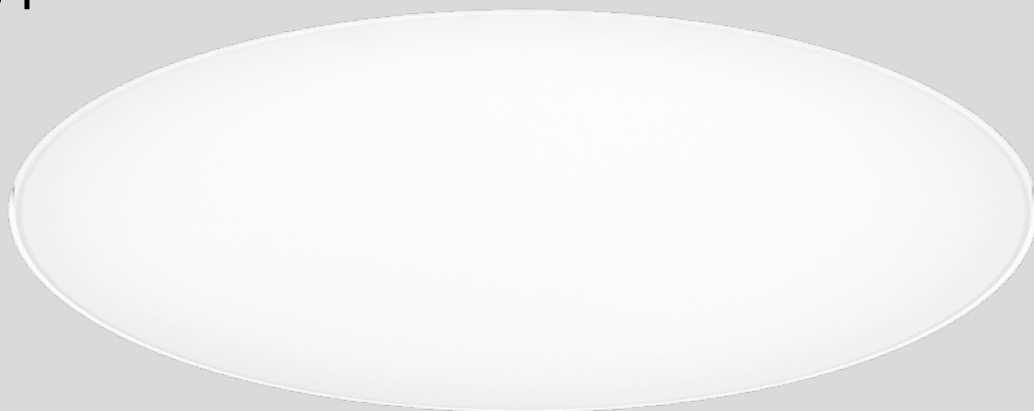
SOLUTION
SONO LOOP SURFACE IP54





SONO FLEX TRIMLESS IP54

xal.com/sono-flex-trimless



Quickinfo

GENERAL

recessed trimless

IP54

opt. concrete installation housing

LED

Mid-power LED

up to 125 lm/W

3000 K, 4000 K, tunable white

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000 h

OPTICAL

direct illumination

uniform illumination

PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

DALI: RCS, CLO

PHYSICAL

aluminium

powder-coated

low mounting depth H=100 mm

halogen-free cable

SONO FLEX TRIMLESS

[page 128](#)



Description

DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25 mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP54; SK I; optional DALI-dimmbar mit CLO oder RCS-Funktion

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing suitable for the trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP54; PC I; optional DALI dimmable with CLO or RCS function

Features



IP54 (waterproof protection)



tool-free installation of light engine



flexible flush or jut-out installation

Order Options

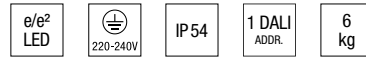
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

MATERIAL COLOUR
white



SONO FLEX 350 TRIMLESS IP54



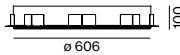
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	940lm	8 6 3 - 2 2 3 9 ☐☐ 7 0
	4000K (☉)	980lm	
15W e ²	3000K (☉)	1700lm	8 6 3 - 2 2 3 8 ☐☐ 7 0
	4000K (☉)	1800lm	
15W e ²	tunable white (2 DALI)		8 6 3 - 2 2 3 8 0 3 7 0



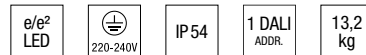
SONO FLEX 450 TRIMLESS IP54



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1400lm	8 6 3 - 2 2 4 9 ☐☐ 7 0
	4000K (☉)	1500lm	
23W e ²	3000K (☉)	2600lm	8 6 3 - 2 2 4 8 ☐☐ 7 0
	4000K (☉)	2800lm	
23W e ²	tunable white (2 DALI)		8 6 3 - 2 2 4 8 0 3 7 0

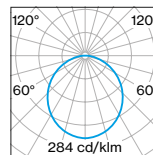


SONO FLEX 600 TRIMLESS IP54



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	2900lm	8 6 3 - 2 2 5 9 ☐☐ 7 0
	4000K (☉)	3000lm	
43W e ²	3000K (☉)	5000lm	8 6 3 - 2 2 5 8 ☐☐ 7 0
	4000K (☉)	5200lm	
43W e ²	tunable white (2 DALI)		8 6 3 - 2 2 5 8 0 3 7 0

Light distribution



Opal
direct
LOR 79%

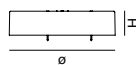
Accessories

INSTALLATION TEMPLATE

TYPE	ORDER CODE
SONO FLEX TRIMLESS 350	0 6 3 - 2 2 3 0 0 0 0
SONO FLEX TRIMLESS 450	0 6 3 - 2 2 4 0 0 0 0
SONO FLEX TRIMLESS 600	0 6 3 - 2 2 5 0 0 0 0

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX TRIMLESS 350	350·107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX TRIMLESS 450	450·107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX TRIMLESS 600	600·107	0 6 3 - 2 2 5 8 1 0 0



SONO FLEX IP54

xal.com/sono-flex



Quickinfo

GENERAL

recessed
IP54
opt. concrete installation housing

LED

Mid-power LED
up to 125lm/W
3000K, 4000K, tunable white
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: RCS, CLO

PHYSICAL

aluminium
powder-coated
low mounting depth H=100mm
halogen-free cable

SONO FLEX

[page 132](#)



Description

DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse mit umlaufendem Rand geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 10-25mm; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED oder e² LED); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP54; SK I; optional DALI-dimmbar mit CLO- oder RCS-Funktion

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing with with trim suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 10-25mm; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25mm; completely homogeneously illuminated, satinised PMMA cover; same light density for all surface lights with the same components (e LED or e² LED); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP54; PC I

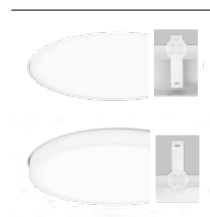
Features



IP54 (waterproof protection)



tool-free installation of light engine



flexible flush or jut-out installation

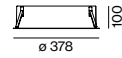
Order Options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI / CLO (only for e ² LED)	3
RCS Master (☉)	M
RCS Slave (☉)	S

MATERIAL COLOUR

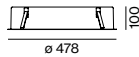
white



SONO FLEX 350 IP54

e/e ² LED	220-240V	IP54	1 DALI ADDR.	6 kg
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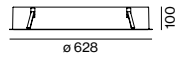
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W e	3000K (☉)	940lm	8 6 3 - 3 2 3 9 ☐ 7 0
	4000K (☉)	980lm	
15W e ²	3000K (☉)	1700lm	8 6 3 - 3 2 3 8 ☐ 7 0
	4000K (☉)	1800lm	
15W e ²	tunable white (2 DALI)		8 6 3 - 3 2 3 8 0 3 7 0



SONO FLEX 450 IP54

e/e ² LED	220-240V	IP54	1 DALI ADDR.	8,1 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e	3000K (☉)	1400lm	8 6 3 - 3 2 4 9 ☐ 7 0
	4000K (☉)	1500lm	
23W e ²	3000K (☉)	2600lm	8 6 3 - 3 2 4 8 ☐ 7 0
	4000K (☉)	2800lm	
23W e ²	tunable white (2 DALI)		8 6 3 - 3 2 4 8 0 3 7 0

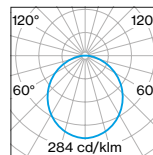


SONO FLEX 600 IP54

e/e ² LED	220-240V	IP54	1 DALI ADDR.	13,2 kg
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SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W e	3000K (☉)	2900lm	8 6 3 - 3 2 5 9 ☐ 7 0
	4000K (☉)	3000lm	
43W e ²	3000K (☉)	5000lm	8 6 3 - 3 2 5 8 ☐ 7 0
	4000K (☉)	5200lm	
43W e ²	tunable white (2 DALI)		8 6 3 - 3 2 5 8 0 3 7 0

Light distribution

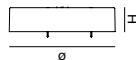


Opal
direct
LOR 79%

Accessories

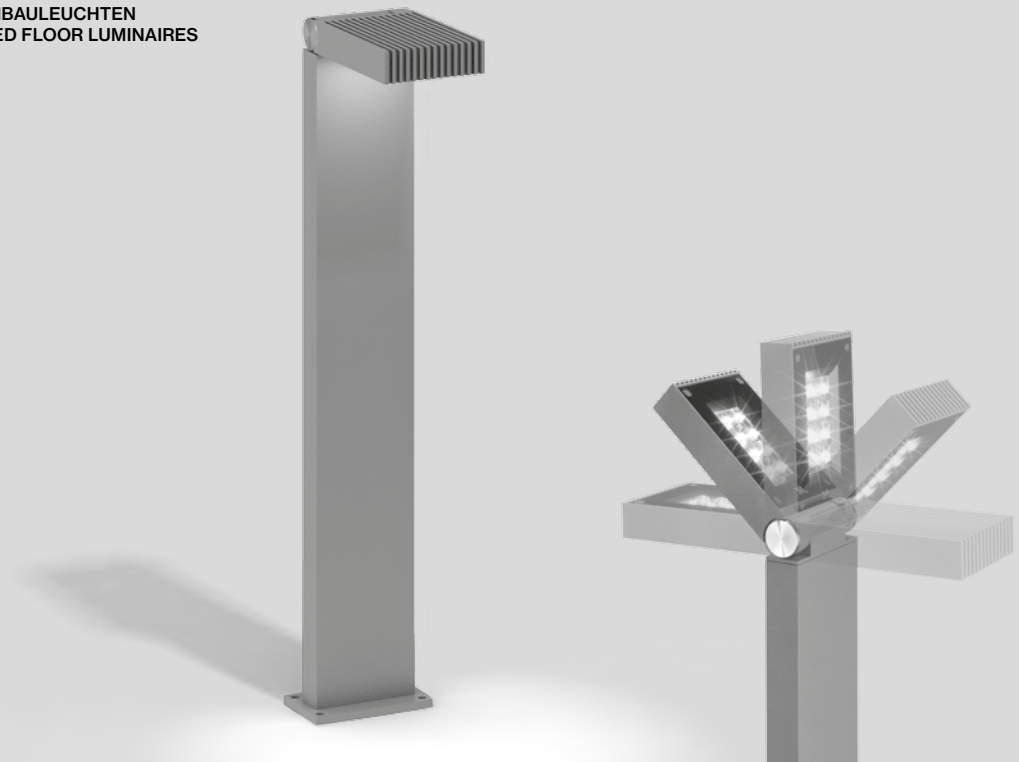
CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX 350	350-107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX 450	450-107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX 600	600-107	0 6 3 - 2 2 5 8 1 0 0



STREAMCUT BOLLARD

xal.com/streamcut-bollard



Quickinfo

GENERAL

standing
IP65
several mounting options

LED

High-power LED
up to 67 lm/W
2200 K, 3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

asymmetric illumination
lens optics
glass cover

ELECTRICAL

non DIM / phase-cut
opt. integrated surge protection

PHYSICAL

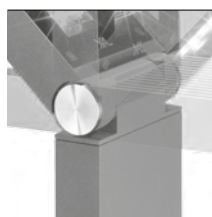
aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK07

Description

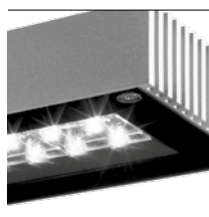
DE Pollerleuchte aus Aluminium in schlichtem, reduziertem Design; Leuchtenkopf mit integrierten Kühlrippen; +/- 90° schwenkbar und alle 30° fixierbar; Oberfläche schutzeloxiert und dunkelgrau pulverbeschichtet; Montage wahlweise auf Sockel aufgeschraubt oder mit Betonanker; Teilbedrucktes Sicherheitsglas, fixiert mit Edelstahlschrauben; hochwertiger Linsensystem mit asymmetrischer Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200 K, 3000 K und 4000 K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP65, mit Druckausgleichsventil und optionaler Überspannungsschutz Typ 2 mit Nennableitstrom 3 kA; SK I; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung; dimmbar mit Phasen- bzw. abschnitt

EN Bollard luminaire in aluminium in a simple, minimalist design; luminaire head with integrated cooling fins; +/- 90° tiltable, lockable every 30°; anodised surface and dark grey powder coated; optional mounting on screw on base or with concrete anchors; Partially printed safety glass, fixed with stainless steel screws; high quality lens system asymmetrical light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200 K, 3000 K and 4000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP65, with pressure equalisation valve and optional surge protection typ 2 with nominal discharge current 3 kA; PC I; ambient temperatures from -20°C to + 50°C; side coupled light, directed up and down; dimmable with leading or trailing edge phase dimmer

Features



tilt adjustment 90°,
fixable from 0° - 90°

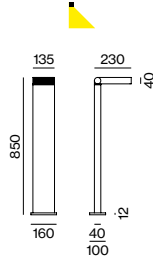


high quality lens

Order options

SURGE PROTECTOR	S
yes	2
no	1

COLOUR TEMPERATURE	●●
2200K	3
3000K	5
4000K	6

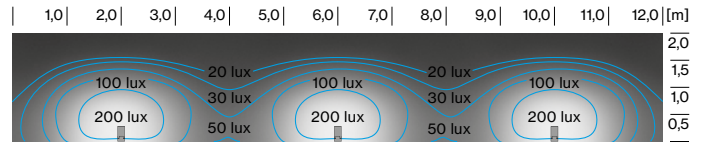


STREAMCUT BOLLARD



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2200 K	750 lm	0 8 8 - 2 8 1 S ●● 1 DA
	3000 K	930 lm	
	4000 K	930 lm	

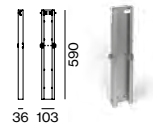
Illumination example for 4000 K



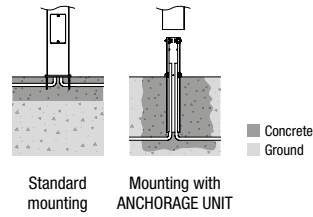
STREAMCUT BOLLARD (3 luminaires)
Distance between luminaires: 4,0m

Accessory

ANCHORAGE UNIT

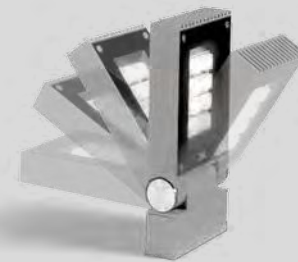
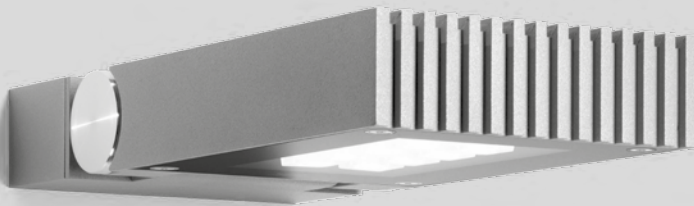


TYPE	L-W-H (mm)	ORDER CODE
ANCHORAGE UNIT	84-32-590	0 8 8 - 2 8 9 3 1 1 0



STREAMCUT SURFACE

xal.com/streamcut-surface



Quickinfo

GENERAL

surface mounted
IP65
several mounting options

LED

High-power LED
up to 67lm/W
2200K, 3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

asymmetric/flood illumination
lens optics
glass cover
flood 48°

ELECTRICAL

non DIM / phase-cut

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK07

Description

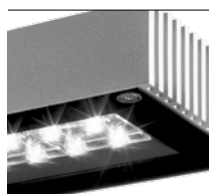
DE Boden- bzw. Wandaufbauleuchte aus Aluminium in schlichtem, reduziertem Design; Leuchtenkopf mit integrierten Kühlrippen; +/- 90° schwenkbar und alle 30° fixierbar; Oberfläche schutzeloxiert und dunkelgrau pulverbeschichtet; Montage wahlweise aufgeschraubt oder mit Erdspieß; Teilbedrucktes Sicherheitsglas, fixiert mit Edelstahlschrauben; inkl. hochwertiger Linsenoptik symmetrischer oder asymmetrischer Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200K, 3000K und 4000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP65, mit Druckausgleichsventil; SK I; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung; dimmbar mit Phasen- bzw. abschnitt

EN Floor or wall mounted light in aluminium with simple, minimalist design; luminaire head with integrated cooling fins; +/- 90° tiltable, lockable every 30°; anodised surface and dark grey powder coated; optional mounting screwed on or with ground spike; Partially printed safety glass, fixed with stainless steel screws; incl. high quality lens system symmetrical or asymmetrical light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200K, 3000K and 4000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP65, with pressure equalisation valve; PC I; ambient temperatures from -20°C to + 50°C; side coupled light, directed up and down; dimmable with leading or trailing edge phase dimmer

Features



tilt adjustment 90°,
fixable from 0°-90°



high quality lens

Order options

COLOUR TEMPERATURE ■ ■

2200 K	3
3000 K	5
4000 K	6

LIGHT OPTIC COVER ■

asymmetric place	A
flood	F



STREAMCUT SURFACE



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2200 K	760 lm	0 8 8 - 2 8 2 1 1 ■ ■ 1 D ■
	3000 K	940 lm	
	4000 K	940 lm	

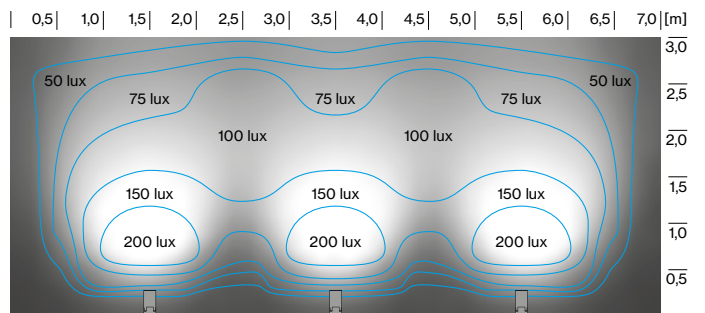
Accessory

EARTH SPIKE

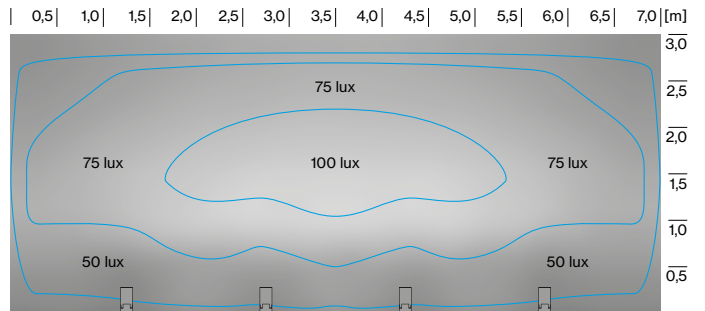


TYPE	ORDER CODE
earth spike	0 8 8 - 2 8 9 2 1 1 0

Illumination example for 4000 K



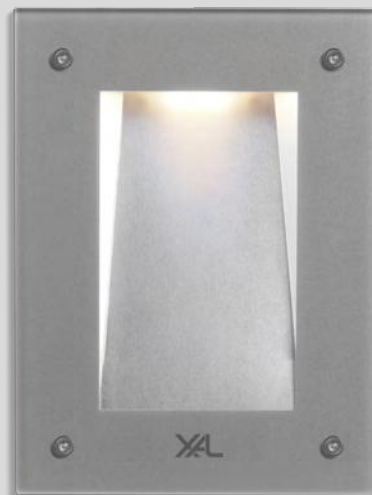
STREAMCUT SURFACE with symmetric flood optics (3 luminaires)
Zonal lighting: distance to wall: 1,5 m / distance between luminaires: 2,0 m, 40° tilt



STREAMCUT SURFACE with asymmetric place optics (4 luminaires)
Areal lighting: distance to wall: 1,5 m / distance between luminaires: 1,5 m, 40° tilt

STREAMCUT WALL

xal.com/streamcut-wall



Quickinfo

GENERAL

wall recessed

IP65

several mounting options

LED

COB LED module

up to 51lm/W

3000K, 4000K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

asymmetric illumination

glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

pressure compensation valve

shock resistance IK09

Description

DE Wandeinbauleuchte aus Aluminium in schlichtem, reduziertem Design; Oberfläche schutzeloxiert und dunkelgrau pulverbeschichtet; Teilbedrucktes Sicherheitsglas, dunkelgrau oder schwarz, fixiert mit Edelstahlschrauben; Reflektor aus matt eloxiertem Reinaluminium mit asymmetrischer Abstrahlcharakteristik; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP65, mit Druckausgleichsventil; SK I; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung

EN Recessed wall luminaire in aluminium in a simple, minimalist design; anodised surface and dark grey powder coated; Partially printed safety glass, dark grey or black, fixed with stainless steel screws; reflector in matt anodised aluminium with asymmetric radiation characteristic; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP65, with pressure equalisation valve; PC I; ambient temperatures from -20°C to + 50°C; separate luminaire wiring compartment, suitable for through wiring;

Features

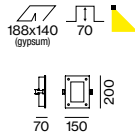


high quality lens

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

MATERIAL COLOUR	
dark grey	D
black	8

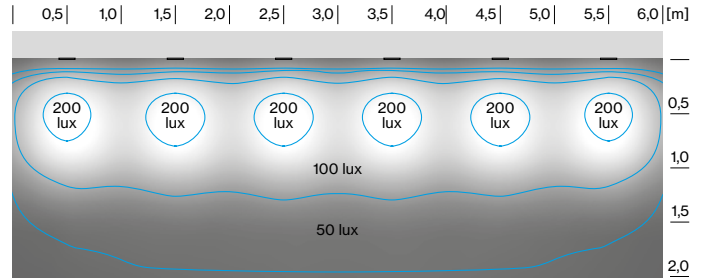


STREAMCUT WALL

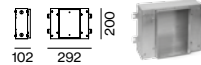
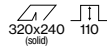


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000 K	360 lm	0 8 8 - 2 8 3 1 :: 1
	4000 K	380 lm	

Illumination example for 4000K



STREAMCUT WALL (6 luminaires)
wall mounting height from bottom: 0,8m / distance between luminaires: 1,0m



Accessory

MOUNTING HOUSING FOR CONCRETE AND SOLID WALLS

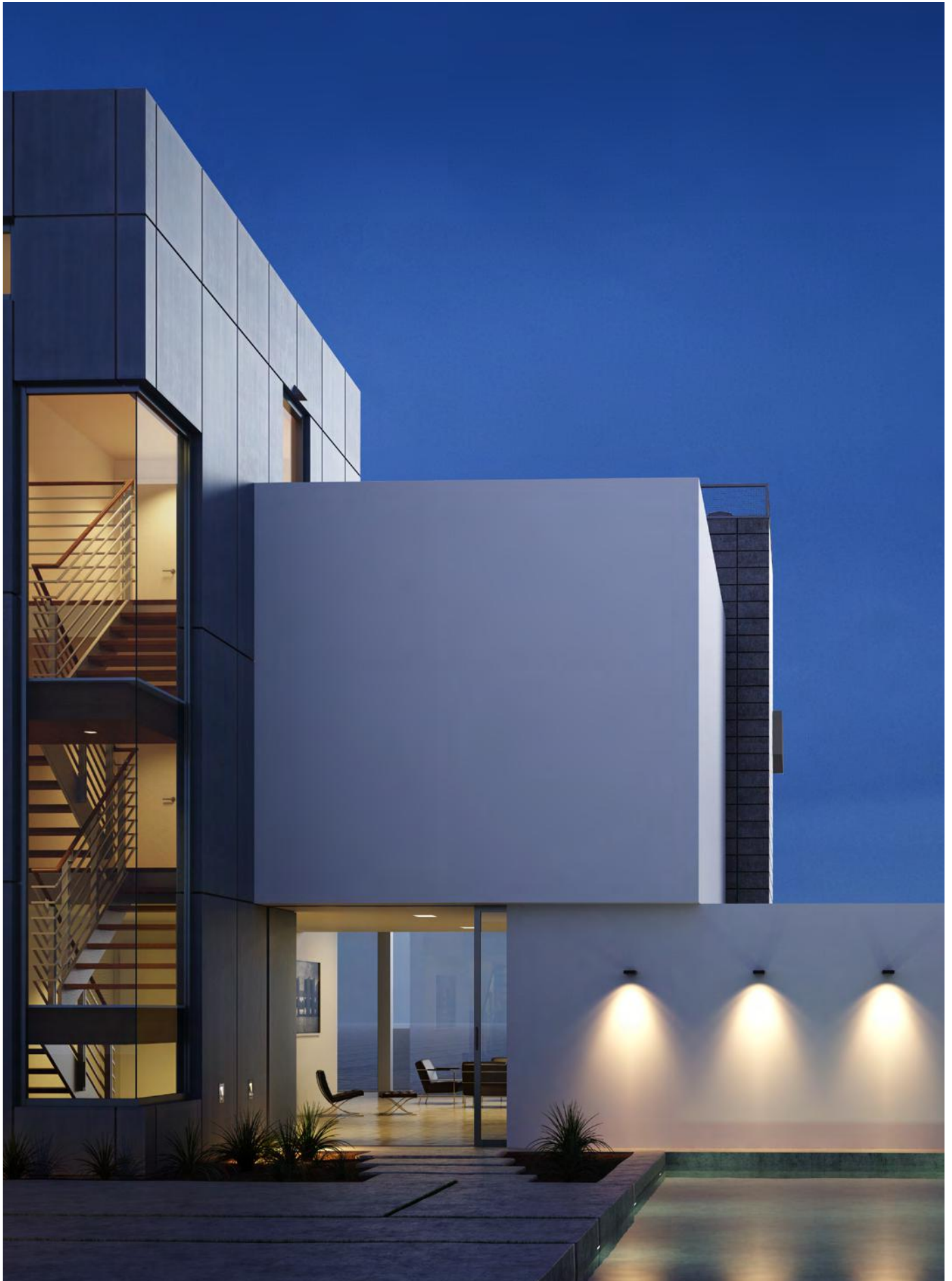
TYPE	L-W-H (mm)	ORDER CODE
concrete / solid walls	290-100-200	0 8 8 - 2 8 9 1 1 1 0

Inspiration

Private Residence
Visualisation

SOLUTION
STREAMCUT SURFACE
STREAMCUT WALL





DOCxal.com/doc

Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 82lm/W
3000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000h

OPTICAL

PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
emergency 1h

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK09

Description

DE Runde Aufbauleuchte, Leuchtenkörper aus Aluminiumdruckguss; zentrale Dekorscheibe aus Aluminium mittels Magnet befestigt; Oberfläche schutzeloxiert und dunkelgrau, weiß oder schwarz pulverbeschichtet; opale Abdeckung für absolut homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 80% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP54, mit Druckausgleichsventil; SK I; Umgebungstemperaturen von -20°C bis +50°C; bei Ø 360: separater Leuchtenanschlussraum, geeignet für Durchgangverkabelung; optional DALI-dimmbar oder mit LED Notlichtelement mit 1h Akku und Selbsttest

EN Round surface mounted luminaire, housing in die-cast aluminium; central decorative panel held by magnet; surface anodised and white, black or dark grey powder coated; opal cover for completely homogeneous illumination; with increased transmission and diffusion; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP 54, with pressure equalisation valve; PC I; ambient temperatures from -20°C to +50°C; Ø 360: separate luminaire wiring compartment, suitable for through wiring; optional DALI dimmable or with LED emergency light with 1 hour battery and self test

Features



decorative plate with magnet



robust coverage

Order options

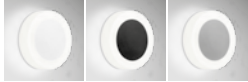
CONTROL

non DIM	1
DIM DALI	3

MATERIAL COLOUR

white	7
black	8
dark grey	D

other colours on request

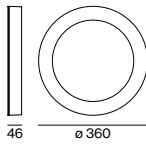


EMERGENCY

1h accupack N L 1

Please use extension for emergency option.

Example: 088-2720516NL1



DOC 180



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	930 lm	088 - 271051

DOC 360



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2300 lm	088 - 272051

SOLIS

xal.com/solis



Quickinfo

GENERAL

surface mounted

IP65

several mounting options

LED

High-power LED

up to 62lm/W

2200 K, 3000 K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

beam angle 20°, 35° (SOLIS 65)

beam angle 10°, 32° (SOLIS 110)

lens optics

glare reduction

glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

shock resistance IK10

Description

DE Rundes Strahlerelement in 2 Größen aus Aluminium, geeignet Boden- bzw. Wandaufbauleuchte; Leuchtenkopf 90° schwenkbar 355° drehbar; Oberfläche schutzeloziert und dunkelgrau pulverbeschichtet; Montage wahlweise aufgeschraubt oder mit Erdspeiß; inkl. hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln, dicht verklebte Abdeckung aus teilsatiniertem Sicherheitsglas (ESG); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200 K und 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP65; SK I; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

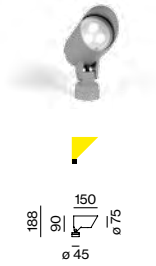
EN Round spotlight element in 2 sizes in aluminium, suitable as floor or wall mounted luminaire; luminaire head tiltable 90° rotatable 355°; anodised surface and dark grey powder coated; optional mounting screwed on or with ground spike; incl. high quality lens system with 2 beam angles, bonded sealed diffuser in partially satinised safety glass (ESG); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200 K and 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP65; PC I; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Order options

COLOUR TEMPERATURE	
2200K	3
3000K	5

LED LENS SOLIS 65	
spot 20°	S
medium 35°	M

LED LENS SOLIS 110	
spot 10°	S
medium 32°	M



SOLIS 65



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4W	2200K	180lm	088 - 1150::1D▲
	3000K	190lm	



SOLIS 110



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W	2200K	430lm	088 - 1160::1D▲
	3000K	450lm	

Accessory

EARTH SPIKE



TYPE	ORDER CODE
earth spike	088 - 119100

MOUNTING BOX SURFACE



TYPE	ORDER CODE
mounting box surface	088 - 119200

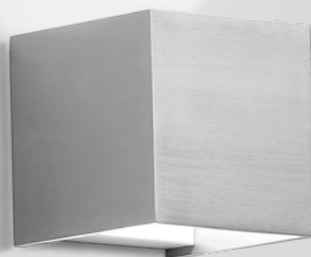
CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90-45-37	086 - 30091
cast resin 250ml		086 - 30092

PERO WALL

xal.com/pero-wall



Quickinfo

GENERAL

wall mounted
IP54

LED

High-power LED
up to 52 lm/W
3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct / indirect illumination

ELECTRICAL

non DIM

PHYSICAL

aluminium, stainless steel
powder-coated
optimised corrosion protection

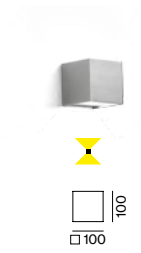
Description

DE Kubische Wandaufbauleuchte aus Aluminium, schutzeloziert und dunkelgrau pulverbeschichtet oder geschliffenem Edelstahl; homogene Wandaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54; SK I; Umgebungstemperaturen von -20°C bis +50°C

EN Cubic wall mounted luminaire in aluminium, anodised and dark grey powder coated or in polished stainless steel; homogeneous wall illumination through uniform direct/indirect light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP54; PC I; ambient temperatures from -20°C to +50°C

Order options

MATERIAL COLOUR	<input checked="" type="checkbox"/>
stainless steel	5
dark grey	D



PERO WALL



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000 K	230 lm	088 - 231151 <input checked="" type="checkbox"/>

PERO

xal.com/pero



Quickinfo

GENERAL

standing
IP54
mounting option available

LED

High-power LED
up to 42 lm/W
3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

symmetric / asymmetric illumination

ELECTRICAL

non DIM
integrated surge protection

PHYSICAL

aluminium, stainless steel
powder-coated
optimised corrosion protection

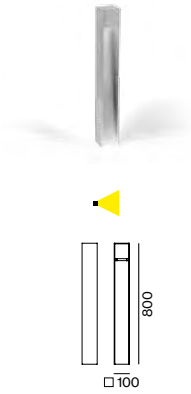
Description

DE Pollerleuchte aus Aluminium, geschliffen und dunkelgrau pulverbeschichtet oder geschliffenem Edelstahl; Montage wahlweise aufgeschraubt oder mit Erdspeiß; inkl. hochwertiger Linsenoptik mit ein- oder zweiseitiger Abstrahlcharakteristik; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54, Überspannungsschutz Typ 2 mit Nennableitstrom 5kA; SK I; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung

EN Bollard luminaire in anodised and dark grey powder coated aluminium, or polished stainless steel; optional mounting screwed on or with ground spike; incl. high quality lens system with one or two-sided radiation; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP54, with surge protection typ 2 with nominal discharge current 5 kA; PC I; ambient temperatures from -20°C to + 50°C; side coupled light, directed up and down

Order options

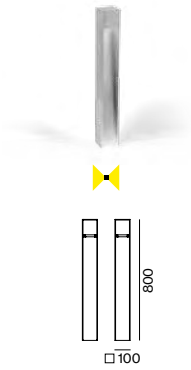
MATERIAL COLOUR	
stainless steel	5
dark grey	D



PERO 800



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000 K	210 lm	088 - 233151



PERO 800 SYMMETRIC



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000 K	210 lm	088 - 234151

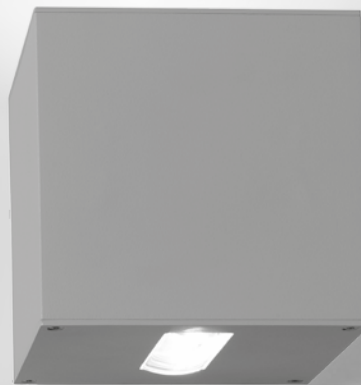
Accessory



TYPE	ORDER CODE
earth spike	085 - 04005

CUBU WALL / CEILING

xal.com/cubu



Quickinfo

GENERAL

surface mounted
IP54
mounting option available

LED

COB LED module
up to 33lm/W
3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct, direct/indirect illumination
several light distributions

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK07

CUBU 120 / 150

[page 524](#)



Description

DE Kubische Wand- bzw. Deckenaufbau- leuchte aus Aluminium, schutzeloxiert und weiß oder dunkelgrau pulverbeschichtet; Wandleuchte mit verschiedenen Kombinationen der Abstrahlcharakteristik: mit engstrahlender Glaslinse zur Akzentuierung oder; breitstrahlend für homogene Wandaufhellung durch gleichmäßige Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; mit COB (Chip on Board) Technologie für höchste Effizienz; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54, mit Druckausgleichsventil; SK I; Umgebungstemperaturen von -20°C bis +50°C

EN Cubic wall or ceiling surface mounted luminaire in aluminium, anodised and white or dark grey powder coated; Wall luminaire with various combinations of radiation characteristic: narrow beam for accent lighting or wide angle for homogeneous wall illumination through uniform light distribution; energy-efficient LEDs with high colour rendering; COB (Chip on Board) technology for maximum efficiency; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP54, with pressure equalisation valve; PC I; ambient temperatures from -20°C to + 50°C

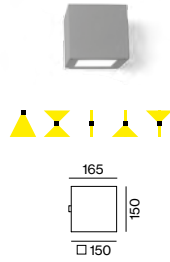
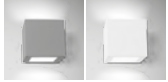
Order options

LIGHT EMISSION ▲

flood down (11W)	0
flood up/down (22W)	4
spot up/down (14W)	5
spot up/flood down (18W)	6
flood up/spot down (18W)	7

MATERIAL COLOUR

dark grey	D
white	7



CUBU 150 WALL



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11-22 W	3000 K	210-800 lm	0 8 8 - 1 2 ▲ 1 5 1 <input checked="" type="checkbox"/>



CUBU 150 CEILING



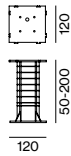
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	400 lm	0 8 8 - 1 4 2 1 5 1 <input checked="" type="checkbox"/>

Accessory

MOUNTING PLATE FOR THERMALLY INSULATED FACADES



TYPE	L-W-H (mm)	ORDER CODE
mounting plate	50-200-120-120	0 8 8 - 1 2 9 0 0 1 0



Inspiration

Private Residence
Eisenstadt, Austria

SOLUTION
CUBU WALL

ARCHITECT

PURPUR. ARCHITEKTUR ZT GMBH
Graz, Vienna, Austria

LIGHTING DESIGN

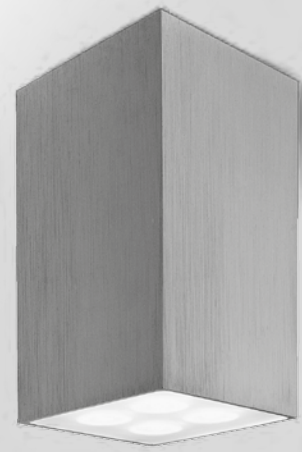
PURPUR. ARCHITEKTUR ZT GMBH
Graz, Vienna, Austria





LETU | LECU WALL / CEILING

xal.com/letu
xal.com/lecu



Quickinfo

GENERAL

surface mounted
IP54

LED

High-power LED
up to 53 lm/W
2200K, 3000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct, direct/indirect illumination
optional anti glare cover

ELECTRICAL

non DIM

PHYSICAL

aluminium
anodised
optimised corrosion protection
shock resistance IK07

Description

DE Zylindrische bzw. Quaderförmige Leuchtenfamilie, verfügbar für Wand- oder Deckenaufbau; Leuchtenkörper aus geschliffenem Aluminium, Oberfläche schwarz oder Aluminium Natur eloxiert; inkl. hochwertiger Linsenoptik; Wandleuchte mit verschiedenen Kombinationen der Abstrahlcharakteristik: engstrahlend zur Akzentuierung oder breitstrahlend für homogene Wandaufhellung durch gleichmäßige Lichtverteilung; dicht verklebte Abdeckung aus teilsatinisiertem Sicherheitsglas (ESG); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200K und 3000K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54; SK I; Umgebungstemperaturen von -20°C bis +50°C

EN Cylindrical and rectangular luminaire family, available for wall or ceiling mounting; luminaire housing made of brushed aluminium, surface anodised black or natural aluminium; incl. high quality lens system; wall luminaire with various combinations of radiation characteristic: narrow beam for accent lighting or wide distribution for homogeneous illumination of walls through uniform light distribution; tightly bonded cover partially satinised safety glass (ESG); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200K and 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP54; PC I; ambient temperatures from -20°C to + 50°C

Features



lens optics

Order options

LIGHT EMISSION ▲

flood up/down	4
spot up/down	5

COLOUR TEMPERATURE ●●

2200 K	3
3000 K	5

MATERIAL COLOUR

natural anodised aluminium	6
black anodised aluminium	8



LETU WALL



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	2200 K	400 lm	0 8 8 - 1 6 ▲ 1 :: 1 <input checked="" type="checkbox"/>
	3000 K	360 lm	



LETU CEILING



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	2200 K	200 lm	0 8 8 - 1 6 8 1 :: 1 <input checked="" type="checkbox"/>
	3000 K	180 lm	

only for ceiling mounting



LECU WALL



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W	2200 K	530 lm	0 8 8 - 1 7 ▲ 1 :: 1 <input checked="" type="checkbox"/>
	3000 K	480 lm	



LECU CEILING



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2200 K	260 lm	0 8 8 - 1 7 8 1 :: 1 <input checked="" type="checkbox"/>
	3000 K	240 lm	

only for ceiling mounting

Accessory



LECU WALL ANTI-GLARE COVER

TYPE	L-W-H (mm)	ORDER CODE
anti-glare cover	100-75-175	0 0 5 - 0 7 2 1 <input checked="" type="checkbox"/>

only for LECU WALL

FRAME 80 / 120

IP65

xal.com/frame-80-ip
xal.com/frame-120-ip



Quickinfo

GENERAL

recessed
IP65
opt. concrete installation housing

LED

Mid-power LED
up to 100lm/W
3400K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
anodised

FRAME 80 SYSTEM

[page 390](#)



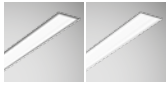
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 2 unterschiedlichen Breiten; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet oder Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; PMMA wahlweise satiniert für homogene Ausleuchtung oder mit mikroprismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarbe 3400K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP65; SK II; IP67-Buchsen-Steckersystem für dichten elektrischen Anschluss

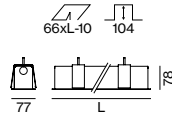
EN Luminaire housing made of extruded aluminium profile in 2 different widths; Recessed luminaire with with trim; suitable for ceiling thickness of 8-25 mm; surface white powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; PMMA optionally satinised for uniform illumination or with micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3400K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP65; PC II; IP67 socket connector system for easy and sealed electrical connection

Order options

MATERIAL COLOUR	
anodised aluminium	6
white	7



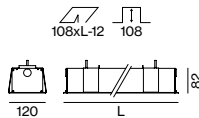
LIGHT OPTIC COVER	
opal high performance	H
microprismatic	P



FRAME 80 IP65



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3400 K	1200 lm	593	8 5 2 - 4 7 3 2 5 1 <input type="checkbox"/>
20 W e ²	3400 K	1800 lm	893	8 5 2 - 4 7 3 3 5 1 <input type="checkbox"/>
18 W e	3400 K	1700 lm	1193	8 5 2 - 4 7 2 4 5 1 <input type="checkbox"/>
27 W e ²	3400 K	2500 lm	1193	8 5 2 - 4 7 3 4 5 1 <input type="checkbox"/>



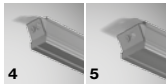
FRAME 120 IP65



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3400 K	1200 lm	596	8 5 2 - 4 3 3 2 5 1 <input type="checkbox"/>
20 W e ²	3400 K	2000 lm	896	8 5 2 - 4 3 3 3 5 1 <input type="checkbox"/>
18 W e	3400 K	1800 lm	1196	8 5 2 - 4 3 2 4 5 1 <input type="checkbox"/>
27 W e ²	3400 K	2700 lm	1196	8 5 2 - 4 3 3 4 5 1 <input type="checkbox"/>

Order options

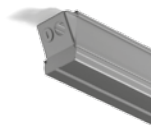
TYPE	W-H (mm)	
FRAME 80	75-88	4
FRAME 120	116-94	5



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	ORDER CODE
582	0 3 5 - 0 <input type="checkbox"/> 0 6 6
882	0 3 5 - 0 <input type="checkbox"/> 0 9 6
1182	0 3 5 - 0 <input type="checkbox"/> 1 2 6



Inspiration

ÖBB
Puchheim, Austria

SOLUTION
FRAME 80 IP65

ARCHITECT
Skylinearchitekten ZT GMBH
Vienna, Austria

LIGHTING DESIGN
ESC engineering Service & Consulting KG
Vienna, Austria

Peter Andres Lichtplanung
(Tageslichtberechnung / Kunstlichtkonzept)
Hamburg, Germany





MINO 20

IP54

xal.com/mino-20-ip



Quickinfo

GENERAL

surface mounted
IP54

LED

Low-power LED
up to 54 lm/W
3000 K, 4000 K, special colour
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
anodised

Description

DE Miniaturprofileuchte aus stranggepresstem Aluminium; Oberfläche Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; geeignet für Wand- oder Deckenmontage; LED Platine in homogen ausgeleuchtete Abdeckung aus satiniertem PMMA eingeschoben; geschlossene Abdeckung mit dicht verklebten Enddeckel aus satiniertem PMMA; lieferbar in den Lichtfarben 3000 K und 4000 K, sowie in den Farben amber, rot, grün, blau; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54; SK III; Leuchte mit vormontierter 300 mm Anschlussleitung und HVL-Stecker

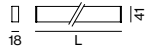
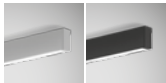
EN Ultra low-profile luminaire made of extruded aluminium; surface with natural anodised aluminium finish; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; suitable for wall or ceiling mounting; LED circuit board inserted in homogeneously illuminated cover in satinised PMMA; closed cover with bonded sealed end caps made of satinised PMMA; available in the light colours 3000 K and 4000 K, and in the colours amber, red, green, and blue; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP54; PC III; luminaire with pre-assembled 300 mm connection cable and HVL connector

Order options

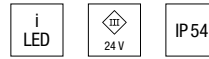
COLOUR TEMPERATURE	
3000K	5
4000K	6

SPECIAL COLOUR	
amber	0
red	1
blue	2
green	3

MATERIAL COLOUR	
anodised aluminium	6
anodised black matt	L



MINO 20 IP54



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
3 W	3000 K	130 lm	314	8 5 6 - 1 1 4 1 :: 1 ☑ O
	4000 K	130 lm		
	special colour			
5 W	3000 K	270 lm	616	8 5 6 - 1 1 4 2 :: 1 ☑ O
	4000 K	270 lm		
	special colour			
8 W	3000 K	400 lm	918	8 5 6 - 1 1 4 3 :: 1 ☑ O
	4000 K	400 lm		
	special colour			
10 W	3000 K	540 lm	1220	8 5 6 - 1 1 4 4 :: 1 ☑ O
	4000 K	540 lm		
	special colour			
13 W	3000 K	670 lm	1523	8 5 6 - 1 1 4 5 :: 1 ☑ O
	4000 K	670 lm		
	special colour			

Electrical accessories

LED CONVERTER 24V DC, UL approved



TYPE	L-W-H (MM)	ORDER CODE
16 W 220-240 V AC	121-45-16	0 0 2 - 6 0 1 3 3

incl. 0,3m socket

POWER CABLE LENGTHENING



TYPE	L (mm)	ORDER CODE
1x plug / 2x0,34 mm ² / 1x socket	1500	0 0 2 - 5 9 9 9 5
1x plug / 2x0,34 mm ² / 1x socket	2500	0 0 2 - 5 9 9 9 6
1x plug / 2x0,34 mm ² / 1x socket	4000	0 0 2 - 5 9 9 9 7

LED CONVERTER 24V DC, UL approved



TYPE	L-W-H (MM)	ORDER CODE
40 W 110-277 V AC	163-43-32	0 0 2 - 6 0 1 3 4
75 W 110-240 V AC	185-63-41	0 0 2 - 6 0 1 4 0
150 W 110-240 V AC	222-68-39	0 0 2 - 6 0 1 5 1

POWER CONNECTION CABLE



TYPE	L (mm)	ORDER CODE
1x socket / 2x0,34 mm ² / 1x open end	1500	0 0 2 - 5 9 9 9 1
1x socket / 2x0,34 mm ² / 1x open end	2500	0 0 2 - 5 9 9 9 2
1x socket / 2x0,34 mm ² / 1x open end	4000	0 0 2 - 5 9 9 9 3

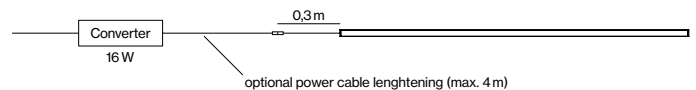
CONNECTION BOX IP55



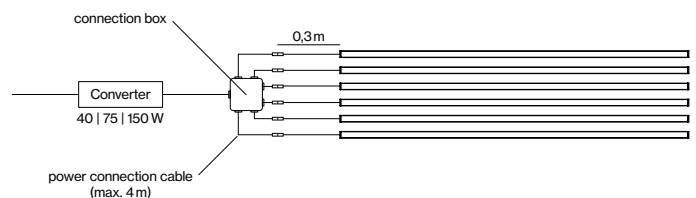
TYPE	L-W-H (mm)	ORDER CODE
connection box	85-85-42	0 0 2 - 5 9 9 9 0

Wiring example

SINGLE CONNECTION



MULTIPLE CONNECTION



MINO 60 / 100

IP65

xal.com/mino-60-ip
xal.com/mino-100-ip



Quickinfo

GENERAL

surface mounted
IP65

LED

Mid-power LED
up to 100lm/W
3400K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated

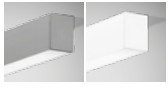
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in 2 unterschiedlichen Breiten, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder dunkelgrau pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; PMMA wahlweise satiniert für homogene Ausleuchtung oder mit mikroprismatischer PMMA Abdeckung zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3400K; CRI > 80; min. 90% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP65; SK II; IP67-Buchsen-Steckersystem für dichten elektrischen Anschluss

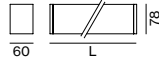
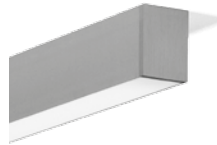
EN Luminaire housing made of extruded aluminium profile in 2 different widths, angular design; no visible screws; surface white or dark grey powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; PMMA optionally satinised for uniform illumination or with micro prismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3400K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP65; PC II; IP67 socket connector system for easy and sealed electrical connection

Order options

MATERIAL COLOUR	
dark grey	6
white	7



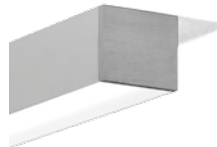
LIGHT OPTIC COVER	
opal high performance	H
microprismatic	P



MINO 60 IP65



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3400 K	1200 lm	588	8 5 6 - 3 1 3 2 5 1 <input type="checkbox"/>
20 W e ²	3400 K	1800 lm	888	8 5 6 - 3 1 3 3 5 1 <input type="checkbox"/>
18 W e	3400 K	1700 lm	1188	8 5 6 - 3 1 2 4 5 1 <input type="checkbox"/>
27 W e ²	3400 K	2500 lm	1188	8 5 6 - 3 1 3 4 5 1 <input type="checkbox"/>



MINO 100 IP65



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e ²	3400 K	1200 lm	588	8 5 6 - 4 1 3 2 5 1 <input type="checkbox"/>
20 W e ²	3400 K	2000 lm	888	8 5 6 - 4 1 3 3 5 1 <input type="checkbox"/>
18 W e	3400 K	1800 lm	1188	8 5 6 - 4 1 2 4 5 1 <input type="checkbox"/>
27 W e ²	3400 K	2700 lm	1188	8 5 6 - 4 1 3 4 5 1 <input type="checkbox"/>

INDO / INDY

xal.com/indo
xal.com/indy



Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 72 lm/W
3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50.000 h

OPTICAL

ambient illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium, stainless steel
powder-coated
optimised corrosion protection
shock resistance IK09

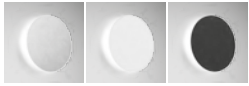
Description

DE Runde Aufbauleuchte, Leuchtenkörper aus Aluminiumdruckguss, schutzeloxiert; keine Blendung durch runde bzw. quadratische Abdeckung; Oberfläche aus geschliffenem Edelstahl oder Aluminium weiß oder schwarz pulverbeschichtet; homogene Wandaufhellung durch gleichmäßige Lichtverteilung (360°); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 80 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP54; SK I; Umgebungstemperaturen von -20°C bis +50°C

EN Round surface mounted luminaire, housing in anodised die-cast aluminium; no glare from round or square cover; surface polished stainless steel or aluminium white or black powder coated; homogeneous wall illumination through uniform light distribution (360°); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 80% of the luminous flux after 50,000 hours; protection class IP54; PC I; ambient temperatures from -20°C to + 50°C

Order options

MATERIAL COLOUR	
stainless steel	5
white	7
black	8



INDO 200



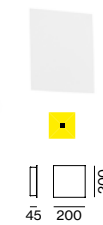
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	860lm	088 - 251051



INDO 300



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	860lm	088 - 252051



INDY 200



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	860lm	088 - 261051



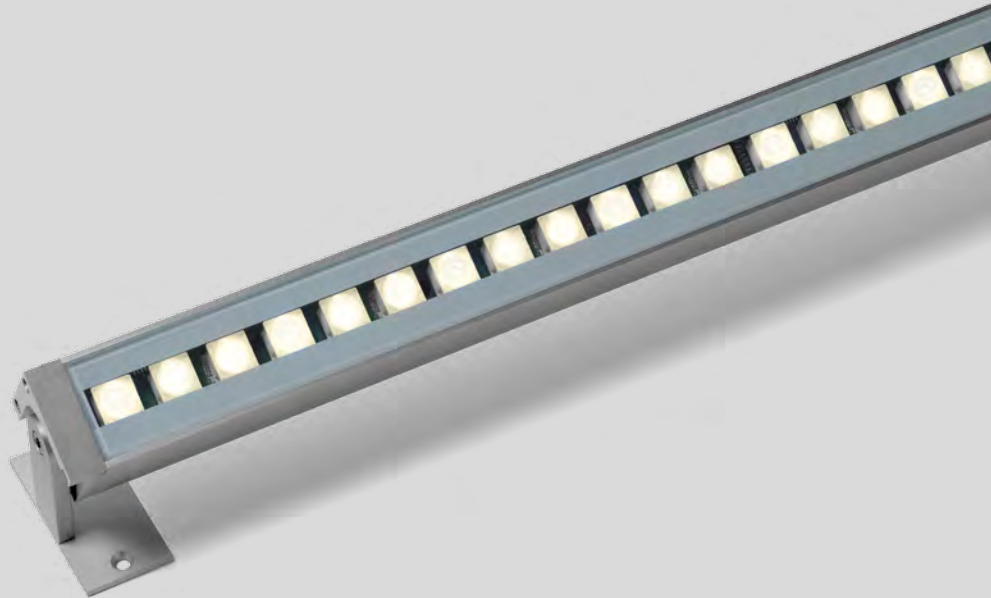
INDY 300



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	860lm	088 - 262051

STILA

xal.com/stila



Quickinfo

GENERAL

surface mounted
IP65
several mounting options

LED

High-power LED
up to 64lm/W
3000 K, 4000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

beam angle spot 15°
beam angle asymmetric 6x25°
lens optics
glass cover

ELECTRICAL

non DIM
integrated surge protection

PHYSICAL

aluminium
anodised
optimised corrosion protection
pressure compensation valve
shock resistance IK09

Description

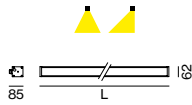
DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; Oberfläche Aluminium Natur eloxiert; geeignet als Aufbauleuchte (Wand, Decke, Boden); inkl. hochwertiger Linsenoptik mit 2 Ausstrahlcharakteristiken: symmetrische, engstrahlend oder asymmetrisch für homogene Wandaufhellung; dicht verklebte Abdeckung aus teilsatiniertem 4 mm Sicherheitsglas (ESG); hochwertige Platine bestückt mit high-power LEDs; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP65, Überspannungsschutz Typ 2 mit Nennableitstrom 3kA; SK I; Umgebungstemperaturen von -20°C bis +50°C; IP67-Buchsen-Steckersystem für dichten elektrischen Anschluss

EN Luminaire housing from extruded aluminium profile, angular design; surface with natural anodised aluminium finish; suitable as surface mounted lights (wall, ceiling, floor); incl. high quality lens system with 2 beam characteristics: symmetrical, narrow beam or asymmetric for uniform wall illumination; tightly bonded cover partially satinised 4 mm safety glass (ESG); high quality board fitted with high power LEDs; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP65, with surge protection typ 2 with nominal discharge current 3 kA; PC I; ambient temperatures from -20°C to + 50°C; IP67 socket connector system for easy and sealed electrical connection

Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

LED LENS	
spot 15°	S
asymmetric 6x25°	A



STILA



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000 K	780 lm	435	0 8 8 - 2 2 1 1 :: 1 6 ▲
	4000 K	900 lm		
29 W	3000 K	1600 lm	825	0 8 8 - 2 2 2 1 :: 1 6 ▲
	4000 K	1800 lm		
57 W	3000 K	3100 lm	1605	0 8 8 - 2 2 4 1 :: 1 6 ▲
	4000 K	3600 lm		

Mounting accessories

WALL BRACKETS



TYPE	L (mm)	ORDER CODE
wall brackets	130	0 4 4 - 4 0 2 3 6
wall brackets	200	0 4 4 - 4 0 2 2 6
wall brackets	400	0 4 4 - 4 0 2 4 6

Electrical accessories

CONNECTION CABLE 220–240V / IP67



TYPE	L (mm)	ORDER CODE
3x1,5 mm²	500	0 0 7 - 9 9 2 0 0 1 0
3x1,5 mm²	1000	0 0 7 - 9 9 2 1 0 1 0
3x1,5 mm²	2000	0 0 7 - 9 9 2 2 0 1 0
3x1,5 mm²	3000	0 0 7 - 9 9 2 3 0 1 0
3x1,5 mm²	5000	0 0 7 - 9 9 2 5 0 1 0
3x1,5 mm² open end	per m	0 0 7 - 9 9 0 0 0 1 0

POWER FEEDER / PROTECTION CAP IP67



TYPE	ORDER CODE
socket straight	0 0 7 - 9 9 3 1 0 1 0
plug straight	0 0 7 - 9 9 4 1 0 1 0
socket 90° offset	0 0 7 - 9 9 3 2 0 1 0
plug 90° offset	0 0 7 - 9 9 4 2 0 1 0
socket end cap	0 0 7 - 9 9 3 3 0 1 0

CONNECTION BOX IP55



TYPE	L·W·H (mm)	ORDER CODE
connection box (ca. 50ml)	90·45·37	0 8 6 - 3 0 0 9 1
cast resin 250ml		0 8 6 - 3 0 0 9 2

Inspiration

Marion Heinrich Fashion
Munich, Germany

SOLUTION
STILA

ARCHITECT

Kubek & Hartinger GmbH & Co. KG
Munich, Germany





WISE

xal.com/wise



Quickinfo

GENERAL

wall recessed

IP54

optional concrete install. housing

LED

High-power LED

up to 67lm/W

3000K

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

asymmetric illumination

lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

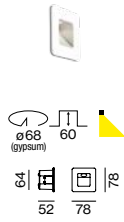
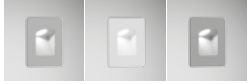
Description

DE Wandinbauleuchte aus Aluminiumdruckguss, schutzeloziert, mit umlaufendem Rand; Oberfläche grau, weiß oder dunkelgrau pulverbeschichtet; geeignet für Wandstärken von 10-25 mm; Einputzgehäuse für massive Wände als Zubehör erhältlich; inkl. hochwertiger Linsenoptik; asymmetrische Lichtverteilung; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 70% des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP54; SK I

EN Recessed wall luminaire made of anodised die-cast aluminium with trim, surface powder coated in grey, white or dark grey; suitable for wall thickness of 10-25mm, flush housing for solid walls available as accessory; incl. high quality lens system; asymmetrical light distribution; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP54; PC I

Order options

MATERIAL COLOUR	
grey	6
white	7
dark grey	D



WISE MINI



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,2W	3000K	80lm	052 - 745051

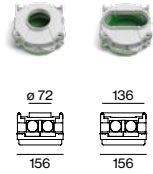


WISE



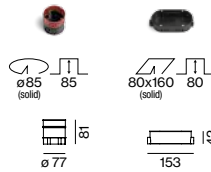
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,2W	3000K	80lm	052 - 746051

Mounting accessories



INSTALLATION HOUSING FOR CONCRETE

TYPE	L-W-H (mm)	ORDER CODE
WISE MINI	155-155-106	052 - 7419910
WISE	155-155-106	052 - 7439910



INSTALLATION HOUSING FOR SOLID WALLS

TYPE	L-W-H (mm)	ORDER CODE
WISE MINI	ø77-80	052 - 7419920
WISE	155-70-75	052 - 7439920

LETU 65

xal.com/letu-65



Quickinfo

GENERAL

recessed
IP67
several installation housings

LED

High-power LED
up to 45lm/W
2200K, 3000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000h

OPTICAL

beam angle 20°, 35°
lens optics
cover opal
glass cover

ELECTRICAL

non DIM
300 mm connection cable

PHYSICAL

aluminium
anodised
optimised corrosion protection
shock resistance IK10

Description

DE Runder Bodeneinbaustrahler aus Aluminium, schutzeloziert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugesäßes; Montagegering für Einbau in Decken oder Holzböden mit umlaufenden Rand geeignet für 1-25 mm Materialstärke; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln (Abdeckung teilsatiniert); oder ohne Linsen mit homogener Ausleuchtung (satinierte Abdeckung); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200K und 3000K; CRI > 80; min. 70 % des Lichtstromes nach 50.000h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Round floor recessed luminaire made of anodised aluminium; accessible design; no visible edge when using floor or wall installation housing; mounting ring for installation in ceilings or wooden floors with with trim suitable for a material thickness of 1-25 mm; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system with 2 beam angles, cover partly satinised; or without lenses with homogeneous illuminated (satinised cover); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200K and 3000K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP67; PC I; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Features



optionally for ceilings

Order options

COLOUR TEMPERATURE	
2200K	3
3000K	5

LED LENS	
spot 20°	S
medium 35°	M



LETU 65



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4W	2200K	210lm	088 - 5610::16▲
	3000K	180lm	

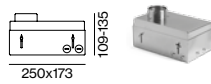


LETU 65 OPAL



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4W	2200K	150lm	088 - 5610::16O
	3000K	120lm	

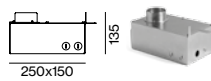
Mounting accessories



TRIMLESS MOUNTING HOUSING

for installation in floors

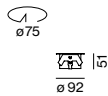
TYPE	L-W-H (mm)	ORDER CODE
standard	250-173-109-135	086 - 31126



TRIMLESS MOUNTING HOUSING

for brick and concrete walls

TYPE	L-W-H (mm)	ORDER CODE
standard	250-150-135	086 - 31226



MOUNTING SET WITH TRIM

for installation in ceilings/wooden floor 1-25 mm

TYPE	ø-H (MM)	ORDER CODE
standard	92-40	086 - 31305

offset (10 mm) ring included

Accessories



COVER FRAME FOR FLOOR MOUNTING

TYPE	ø-H (MM)	ORDER CODE
cover frame	80-20	086 - 31406



VACUUM CAP

TYPE	ORDER CODE
VACUUM CAP	086 - 30000

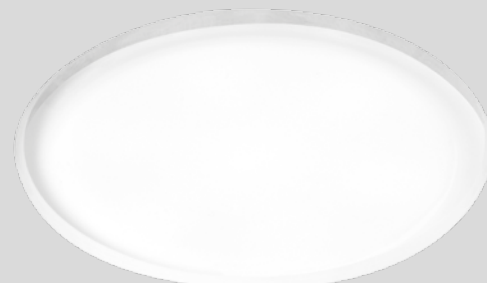


CONNECTION BOX IP55

TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90-45-37	086 - 30091
cast resin 250ml		086 - 30092

LETU 110

xal.com/letu-110



Quickinfo

GENERAL

floor recessed

IP67

several installation housings

LED

High-power LED/COB LED module

Up to 61lm/W

2200 K, 3000 K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

beam angle 10°, 35°

lens optics

cover opal

glass cover

ELECTRICAL

non DIM

300 mm connection cable

PHYSICAL

aluminium

anodised

optimised corrosion protection

shock resistance IK10

Description

DE Runder Bodeneinbaustrahler aus Aluminium, schutzeloxiert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschäuses; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln (Abdeckung teilsatiniert); oder ohne Linsen mit homogener Ausleuchtung (satinierte Abdeckung); oder Einzellinse aus Glas (Abdeckung nicht satiniert); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200 K und 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Round floor recessed luminaire made of anodised aluminium; accessible design; no visible edge when using floor or wall installation housing; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system with 2 beam angles, cover partly satinised; or without lenses with homogeneous illumination (satinised cover); or single lens made of glass, cover not satinised; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200 K and 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP67; PC I; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Order options

COLOUR TEMPERATURE	
2200K	3
3000K	5

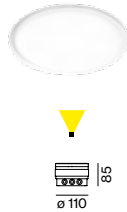
LED LENS	
spot 10°	S
medium 35°	M



LETU 110



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2200K 3000K	500lm 420lm	088 - 5621 :: 16 ▲



LETU 110 OPAL



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2200K 3000K	340lm 290lm	088 - 5621 :: 16 O



LETU 110 SINGLE SPOT 24°

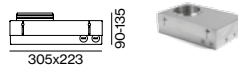


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000K	740lm	088 - 5623516 S

Mounting accessories

TRIMLESS MOUNTING HOUSING

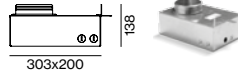
for installation in floors



TYPE	L-W-H (mm)	ORDER CODE
standard	305/223/90-135	086 - 31166

TRIMLESS MOUNTING HOUSING

for brick and concrete walls



TYPE	L-W-H (mm)	ORDER CODE
standard	303/200/138	086 - 31266

Accessories

COVER FRAME FOR FLOOR MOUNTING



TYPE	ø H (mm)	ORDER CODE
cover frame	135/20	086 - 31446

VACUUM CAP



TYPE	ORDER CODE
VACUUM CAP	086 - 30000

CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90-45-37	086 - 30091
cast resin 250ml		086 - 30092

LECU 65

xal.com/lecu-65



Quickinfo

GENERAL

recessed
IP67
several installation housings

LED

High-power LED
up to 48 lm/W
2200 K, 3000 K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

asymmetric illumination
beam angle 14°, 30°
lens optics
cover opal
glass cover

ELECTRICAL

non DIM
300 mm connection cable

PHYSICAL

aluminium
anodised
optimised corrosion protection
shock resistance IK10

Description

DE Quadratischer Bodeneinbaustrahler aus Aluminium, schutzeloziert; begebar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschützes; Montagering für Einbau in Decken oder Holzböden mit umlaufenden Rand geeignet für 1-25 mm Materialstärke; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln (Abdeckung teilsatiniert); oder ohne Linsen mit homogener Ausleuchtung (satinierte Abdeckung); optional Linsen mit Wallwashercharakteristik (7° zur Vertikalen geneigt) verfügbar; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200 K und 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Square recessed ground spotlight made of anodised aluminium; no visible edge when using floor or wall installation housing; mounting ring for installation in ceilings or wooden floors with trim suitable for a material thickness of 1-25 mm; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system with 2 beam angles, cover partly satinised; or without lenses with homogeneous illuminated (satinised cover); optional lenses available with wall washer characteristic (7° incline to vertical); energy-efficient LEDs with high colour rendering; binning < 3 step MacAdam; available in the light colours 2200 K and 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP67; PC I; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Features

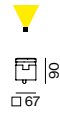


optionally for ceilings

Order options

COLOUR TEMPERATURE	☼☼
2200K	3
3000K	5

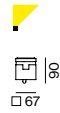
LED LENS	▲
spot 14°	S
medium 30°	M



LECU 65



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2200K 3000K	280lm 240lm	0 8 8 - 5 7 1 0 ☼☼ 1 6 ▲



LECU 65 WALLWASHER



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2200K 3000K	280lm 240lm	0 8 8 - 5 7 1 2 ☼☼ 1 6 ▲



LECU 65 OPAL

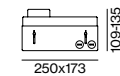


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2200K 3000K	190lm 160lm	0 8 8 - 5 7 1 0 ☼☼ 1 6 0

Mounting accessories

TRIMLESS MOUNTING HOUSING

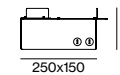
for installation in floors



TYPE	L-W-H (mm)	ORDER CODE
standard	250-173-109-135	0 8 6 - 3 0 1 2 6

TRIMLESS MOUNTING HOUSING

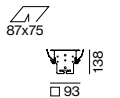
for brick and concrete walls



TYPE	L-W-H (mm)	ORDER CODE
standard	250-150-137	0 8 6 - 3 0 2 2 6

MOUNTING SET WITH TRIM

for installation in ceilings/wooden floor 1-25 mm



TYPE	L-W-H (mm)	ORDER CODE
standard	97-97-80	0 8 6 - 3 0 3 0 5

offset (10mm) ring included

Accessories

COVER FRAME FOR FLOOR MOUNTING

TYPE	L-W-H (mm)	ORDER CODE
cover frame	80-80-20	0 8 6 - 3 0 4 0 6



VACUUM CAP

TYPE	ORDER CODE
VACUUM CAP	0 8 6 - 3 0 0 0 0



CONNECTION BOX IP55

TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90-45-37	0 8 6 - 3 0 0 9 1
cast resin 250ml		0 8 6 - 3 0 0 9 2



LECU 110

xal.com/lecu-110



Quickinfo

GENERAL

floor recessed

IP67

several installation housings

LED

High-power LED

up to 49lm/W

2200 K, 3000 K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

asymmetric illumination

beam angle 14°, 30°

lens optics

cover opal

glass cover

ELECTRICAL

non DIM

300 mm connection cable

PHYSICAL

aluminium

anodised

optimised corrosion protection

shock resistance IK10

Description

DE Quadratischer Bodeneinbaustrahler aus Aluminium, schutzeloziert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschützes; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln (Abdeckung teilsatiniert) oder ohne Linsen mit homogener Ausleuchtung (satinierte Abdeckung); optional Linsen mit Wallwashercharakteristik (7° zur Vertikalen geneigt) verfügbar; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 2200 K und 3000 K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Square recessed ground spotlight made of anodised aluminium; no visible edge when using floor or wall installation housing; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system with 2 beam angles, cover partly satinised or without lenses with homogeneous illuminated (satinised cover); optional lenses available with wall washer characteristic (7° incline to vertical); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 2200 K and 3000 K; CRI > 80; min. 70 % of the luminous flux after 50,000 hours; protection class IP67; PC I; ambient temperatures from -20°C to +50°C; power supply via 300 mm connecting cable

Order options

COLOUR TEMPERATURE	
2200K	3
3000K	5

LED LENS	
spot 14°	S
medium 30°	M



LECU 110



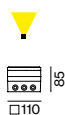
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	2200K	640lm	088 - 5721::16▲
	3000K	540lm	



LECU 110 WALLWASHER



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	2200K	630lm	088 - 5722::16▲
	3000K	530lm	



LECU 110 OPAL

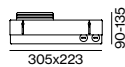


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	2200K	440lm	088 - 5721::16O
	3000K	370lm	

Mounting accessories

TRIMLESS MOUNTING HOUSING

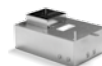
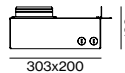
for installation in floors



TYPE	L-W-H (mm)	ORDER CODE
standard	305·223·90-135	086 - 30166

TRIMLESS MOUNTING HOUSING

for brick and concrete walls



TYPE	L-W-H (mm)	ORDER CODE
standard	305·200·138	086 - 30266

Accessories

COVER FRAME FOR FLOOR MOUNTING



TYPE	L-W-H (mm)	ORDER CODE
cover frame	140·140·22	086 - 30456

VACUUM CAP



TYPE	ORDER CODE
VACUUM CAP	086 - 30000

CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90·45·37	086 - 30091
cast resin 250ml		086 - 30092

Inspiration

Vineyard Georgiberg
Berghausen, Austria

SOLUTION
LETU 110

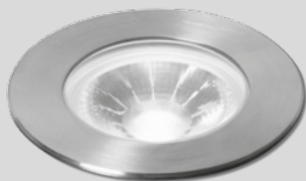
ARCHITECT
DI Helmut Perner
Preding, Austria





FILO 120

xal.com/filo-120



Quickinfo

GENERAL

floor recessed

IP67

optional installation housing

LED

COB LED module

up to 55lm/W

3000 K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

beam angle 40°

lens optics

glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium, stainless steel

optimised corrosion protection

shock resistance IK10

Description

DE Bodeneinbaustrahler aus Aluminiumdruckguss, schutzeloziert; begehbar ausgeführt; wahlweise mit rundem oder quadratischem Abdeckung aus geschliffenem Edelstahl; keine sichtbaren Schrauben; Bodeneinbaugehäuse aus schwarzem, hochfestem Kunststoff als Zubehör erhältlich; Einzellinse aus Glas, dicht verklebte Abdeckung aus 12mm Sicherheitsglas (ESG); energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000K; CRI > 80; min. 70 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C

EN Recessed floor spotlight made of anodised die-cast aluminium; accessible design; optionally with round or square bezel made of polished stainless steel; no visible screws; recessed floor housing in black, high-strength plastic, available as an accessory; single glass lens, bonded sealed cover in 12mm safety glass (ESG); energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP67; PC I; ambient temperatures from -20°C to + 50°C

Features

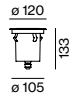


H2O stop

Order options

LED LENS

flood 40° only



FILO ROUND 120



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000 K	400 lm	088 - 5311515 F

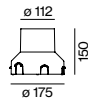


FILO SQUARE 120



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000 K	400 lm	088 - 5321515 F

Accessories



MOUNTING HOUSING

TYPE	ORDER CODE
standard	085 - 40015

CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90-45-37	086 - 30091
cast resin 250ml		086 - 30092

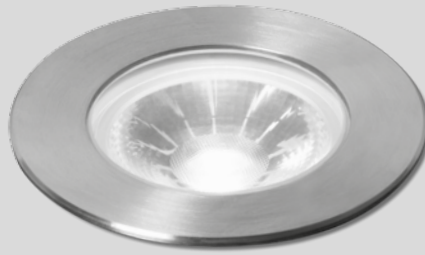


VACUUM CAP

TYPE	ORDER CODE
VACUUM CAP	086 - 30000

FILO 160

xal.com/filo-160



Quickinfo

GENERAL

floor recessed

IP67

optional installation housing

LED

COB LED module

up to 62lm/W

3000 K

CRI > 80 (CRI > 90 on request)

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

beam angle 24°,40°

adjustable optics

lens optics

glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium, stainless steel

optimised corrosion protection

Description

DE Bodeneinbaustrahler aus Aluminiumdruckguss, schutzeloziert; begehbar ausgeführt; wahlweise mit rundem oder quadratischem Abdeckung aus geschliffenem Edelstahl; keine sichtbaren Schrauben; Bodeneinbaugehäuse aus schwarzem, hochfestem Kunststoff als Zubehör erhältlich; Einzellinse aus Glas, dicht verklebte Abdeckung aus 12mm Sicherheitsglas (ESG); optional in +/- 15° schwenkbarer Ausführung lieferbar; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI > 80; min. 70% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C

EN Recessed floor spotlight made of anodised die-cast aluminium; optionally with round or square bezel made of polished stainless steel; no visible screws; recessed floor housing in black, high-strength plastic, available as an accessory; single glass lens, bonded sealed cover in 12mm safety glass (ESG); optionally available in +/- 15° tiltable design; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colour 3000 K; CRI > 80; min. 70% of the luminous flux after 50,000 hours; protection class IP67; PC I; ambient temperatures from -20°C to + 50°C

Features

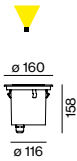


H2O stop

Order options

LED LENS

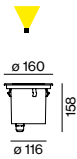
medium 24°	M
flood 40°	F



FILO ROUND 160



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	500 lm	088 - 5353515 ▲



FILO ROUND 160 TURN



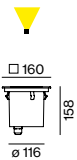
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000 K	440 lm	088 - 5351515 ▲



FILO SQUARE 160



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	500 lm	088 - 5363515 ▲

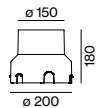


FILO SQUARE 160 TURN



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7 W	3000 K	440 lm	088 - 5361515 ▲

Mounting accessories



MOUNTING HOUSING

TYPE	ORDER CODE
standard	088 - 5390018

Accessories

CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50ml)	90-45-37	086 - 30091
cast resin 250ml		086 - 30092



VACUUM CAP

TYPE	ORDER CODE
VACUUM CAP	086 - 30000

Inspiration

Private Residence
Wörthersee, Austria

SOLUTION
FILO 120

ARCHITECT
Rooms ARMW
Austria

INTERIOR DESIGN
Rooms
Klagenfurt, Austria





10



TECHNISCHE INFORMATIONEN / TECHNICAL INFORMATION



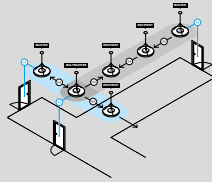
LIGHTING CONTROL

➔ 658



DALI-BUS

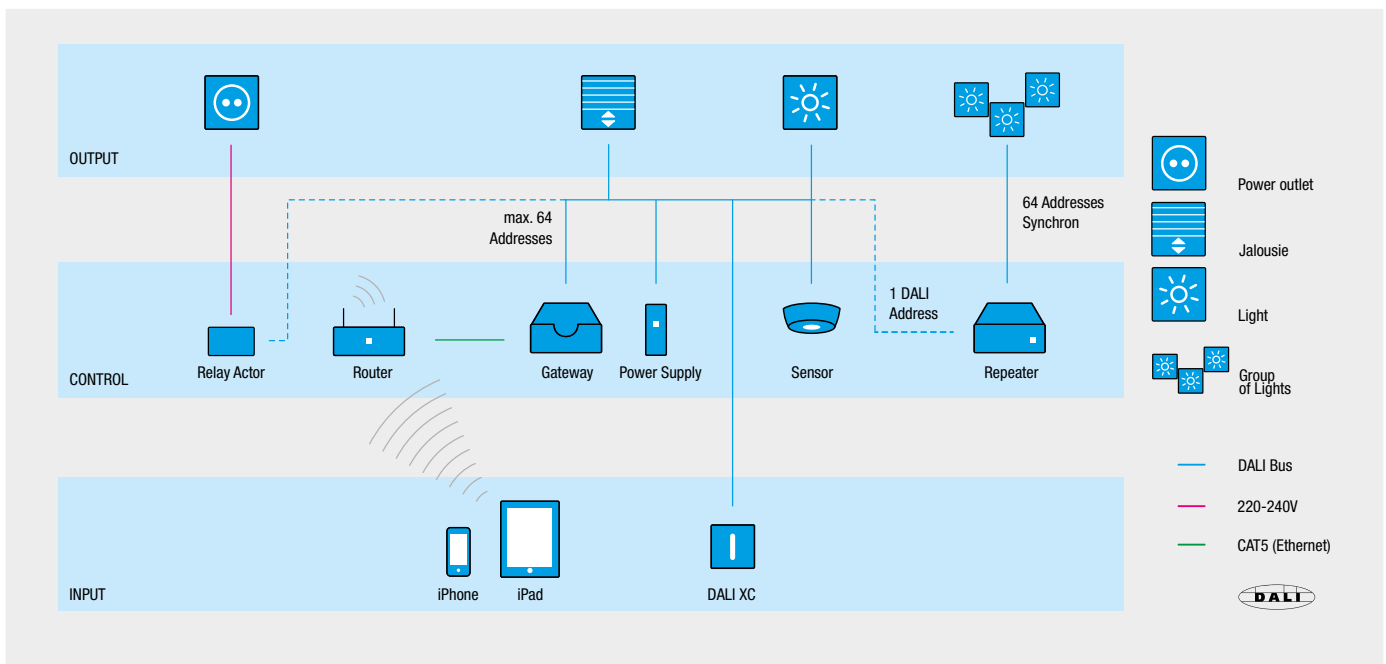
➔ 662



TECHNOLOGY

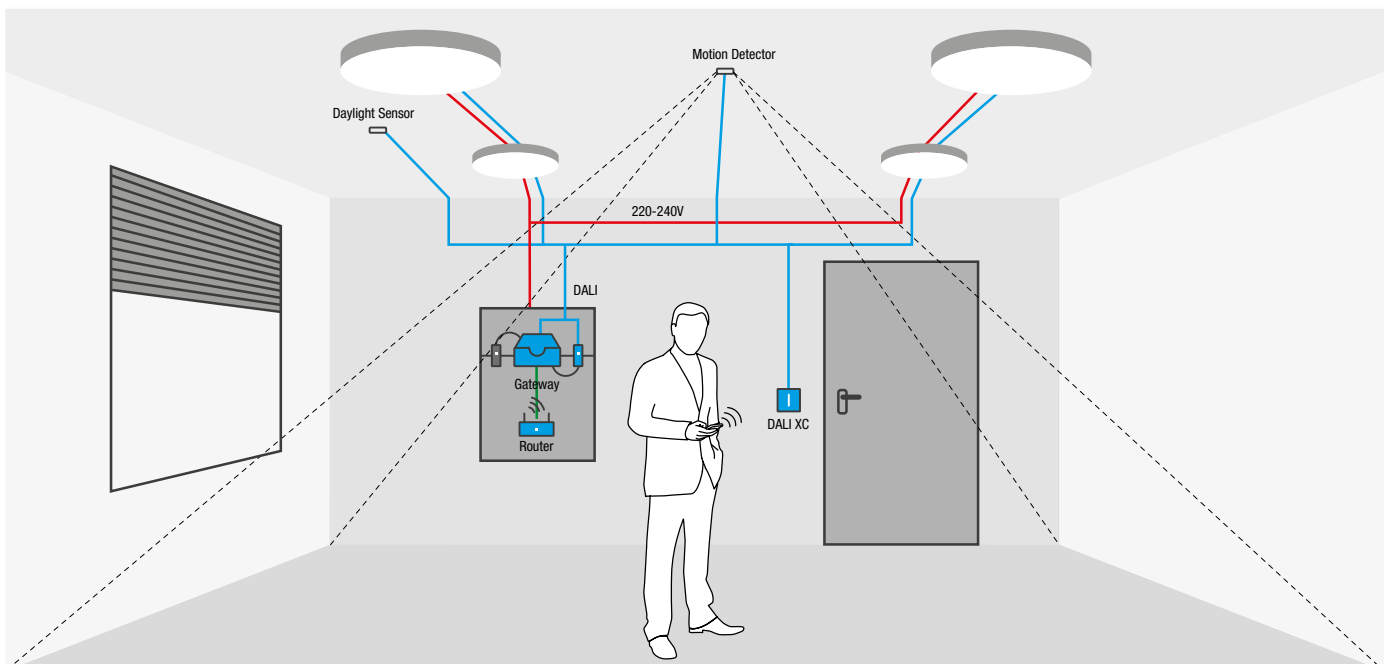
➔ 664

OVERVIEW XAL LIGHTING CONTROL



DE Das DALI-iPhone Gateway bietet neben Touch-Control mittels iPhone/iPad auch die Möglichkeit, 16 Szenen und 16 Gruppen frei zu programmieren und zu steuern. Die fertige Programmierung kann jederzeit exportiert und auf einem anderen iPhone/iPad importiert werden. Maximal 5 iOS Geräte an einem DALI Gateway verwendbar.

EN The DALI-iPhone gateway can be used via touch control using an iPhone/iPad and offers the possibility to individually program and control 16 scenes and 16 groups. Once programmed, the settings can be exported to other iPhones/iPads at any time. Maximum of 5 iOS devices can be used on one DALI Gateway.



DE Das Steuermodul ist für den Verteilereinbau geeignet und muss mit einem WLAN-Router und dem DALI-Bus verbunden werden. Die Verbindung zwischen iPhone/iPad und Gateway wird über WLAN hergestellt. Mittels DALI XC ist auch eine Einbindung von Standard-Lichtstastern ins DALI-System möglich. Sowohl Gruppen als auch Szenen können über diesen Taster abgerufen werden.

EN The command module is suited for installation in a distribution board and has to be connected to a WLAN router and the DALI bus. iPhone/iPad and gateway are connected via WLAN. Standard light push-buttons can also be integrated into the DALI system via DALI XC. Both groups and scenes can be accessed with this push-button.

iPhone DALI Gateway



DE Steuergerät zu XAL LC DALI App; Verwaltung von max. 64 Adressen, 16 Gruppen und 16 Szenen; Inbetriebnahme direkt über iPhone/iPad; Einbindung in ein bestehendes Netzwerk bzw. WLAN erforderlich; Leichte Einbindung von Zusatzkomponenten (DALI XC, Bewegungs- und Helligkeitssensor); Jalousie-Ansteuerung möglich; XAL LC App im App Store kostenlos downloadbar

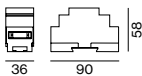
EN Control unit for XAL LC DALI App; Control of up to 64 addresses, 16 groups and 16 scenes; Activation directly via iPhone/iPad; Integration in existing network or WLAN necessary; Easy extension with other components (DALI XC, Motion Sensor and light sensor); Control of window blinds possible; Free download of the XAL LC App from the App Store

iPHONE DALI GATEWAY 12-48V DC

TYPE	ORDER CODE
iPhone DALI Gateway	0 0 2 - 5 2 0 6 9

POWER SUPPLY 220-240V

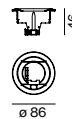
TYPE	L-W-H (mm)	ORDER CODE
24V	93-25-56	0 0 2 - 5 9 8 9 1



DALI POWER SUPPLY 220-240V

TYPE	L-W-H (mm)	ORDER CODE
PS 240 mA	90-36-58	0 0 2 - 5 9 8 7 1

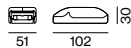
for top-hat-rail mounting



LIGHT SENSOR / MOTION DETECTOR 6mA

TYPE	Ø-H (mm)	ORDER CODE
ceiling mounted	86-46	0 0 2 - 5 4 0 5 1

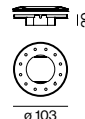
operating area at 2.5m (Ø 5m) / max. height 5m / tiltable ± 15°



DALI POWER SUPPLY 120-240V

TYPE	L-W-H (mm)	ORDER CODE
XPS1 200 mA	102-51-30	0 0 2 - 5 9 8 8 0

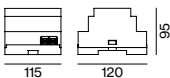
for ceiling insertion



LIGHT SENSOR / MOTION DETECTOR 6mA

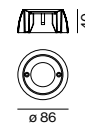
TYPE	Ø-H (mm)	ORDER CODE
socket mounted	103-20	0 0 2 - 5 4 0 5 3

operating area at 2.5m (Ø 5m) / max. height 5m / tiltable ± 15°



DALI RELAY ACTOR

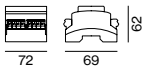
TYPE	L-W-H (mm)	ORDER CODE
1 channel	120-115-95	0 0 2 - 5 2 0 6 7
3 channel	120-115-95	0 0 2 - 5 2 0 6 8



LIGHT SENSOR / MOTION DETECTOR 6mA

TYPE	Ø-H (mm)	ORDER CODE
surface mounted	86-40	0 0 2 - 5 4 0 5 8

operating area 2.5m (Ø 5m) / max. mounting height 5m



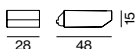
DALI REPEATER 100-240V

TYPE	L-W-H (mm)	ORDER CODE
DALI Repeater	72-69-62	1 3 2 - 3 0 1 0 9 3



DALI BLIND INTERFACE 220-240V

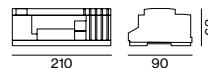
TYPE	L-W-H (mm)	ORDER CODE
Jalousie interface	105-51-30	0 0 2 - 5 2 0 7 1



DALI MODULE for groups/scenes control

TYPE	L-W-H (mm)	ORDER CODE
XC	48-28-15	0 0 2 - 5 4 0 2 6

DALI control of 4 scenes / 2 groups



DALI BLIND ACTOR 220-240V

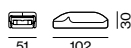
TYPE	L-W-H (mm)	ORDER CODE
4 AC motors	210-90-63	0 0 2 - 5 2 0 7 0



DALI PCD/S PHASE DIMMER 220-240V

TYPE	L-W-H (mm)	ORDER CODE
40-1000VA	105-90-59	0 0 2 - 5 4 0 4 5

for top-hat-rail mounting

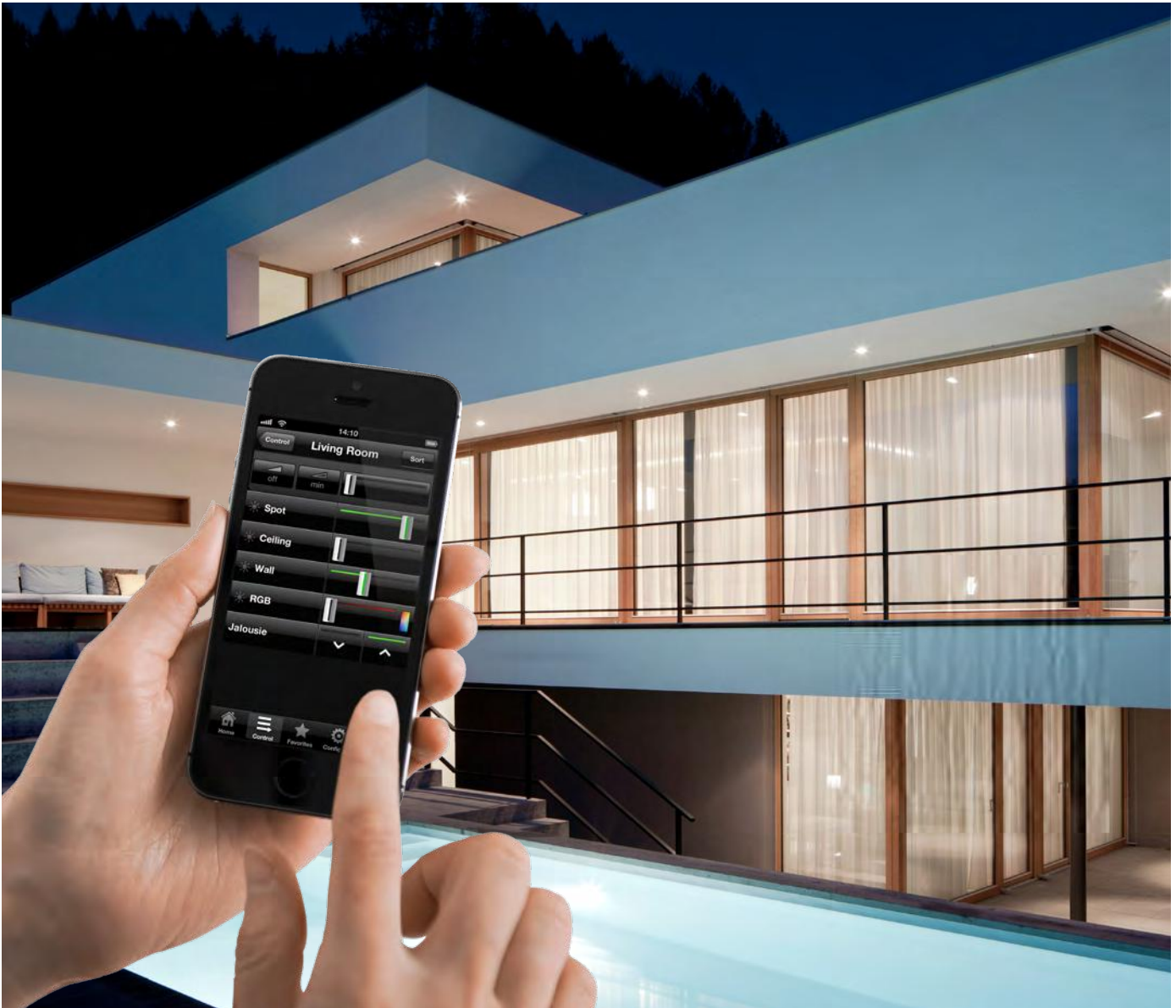


DALI PCD/S PHASE DIMMER 220-240V

TYPE	L-W-H (mm)	ORDER CODE
1-300VA	102-51-30	0 0 2 - 5 4 0 4 1

for ceiling insertion

XAL LIGHTING CONTROL



Function



DE Verbindung

Einfacher Anschluss des DALI Gateways, durch Einbindung in ein bestehendes Netzwerk

EN Connection

Simple connection of the DALI gateway through integration into an existing network



DE Bedienung

Einfache Menüführung ermöglicht eine benutzerfreundliche Bedienung

EN Operation

Simple operation thanks to easy to use menus



DE Programmierung

Freie Programmierung direkt über iPhone/iPad möglich

EN Programming

Individual programming directly via iPhone/iPad



DE Ansteuerung

Bis zu max. 64 DALI Adressen steuerbar, Erstellung von 16 Szenen und 16 Gruppen möglich

EN Addressing

Up to 64 DALI addresses can be controlled, 16 scenes and 16 groups can be created



DE System

Vollständiges Licht und Jalousie-Management mit wenigen Komponenten

EN System

Complete management of lights and window blinds with few components

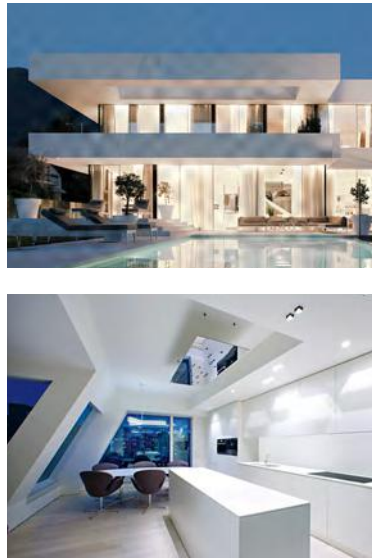


DE Zusätzliche Features

Einbindung von DALI Sensoren, Tastern und Jalousie Steuerungen realisierbar

EN Additional features

Integration of DALI sensors, push-buttons and controls for window blinds possible



Welcome home

DE Beim Betreten oder Verlassen eines Gebäudes kann über die Schnellwahltasten „WELCOME“ und „GOODBYE“ eine frei programmierbare Lichtszene abgerufen werden. Das Control Menü ermöglicht eine freie Gestaltung der Benutzeroberfläche. Die Position von Gruppen, Szenen und Einzelleuchten kann spezifisch festgelegt werden.

EN Upon entering or leaving a building, an individually programmable lighting scene can be activated via the direct access buttons „WELCOME“ and „GOODBYE“. The control menu allows an individual design of the user interface. The position of groups, scenes and single luminaires can be individually selected.

Individual control

DE Die räumliche Einteilung von Leuchtengruppen kann frei definiert werden. Eine gezielte Benennung der einzelnen Räume ermöglicht eine übersichtliche Darstellung und erleichtert die Bedienung. Jeder DALI Bus-Teilnehmer kann beliebig benannt werden. Neben Anzeigeoptionen kann auch der Standard Lichtwert eingestellt werden. Zusätzlich bietet der Gateway auch die Möglichkeit eine Jalousie-Steuerung in das DALI System einzubinden.

EN The spatial positioning of groups of luminaires can be individually defined. A customised naming of individual rooms provides better overview and makes operation easier. Each component of the DALI bus may be individually named. Display options and a default lighting level can be pre-selected. Additionally, the gateway can also integrate a control for window blinds into the DALI system.

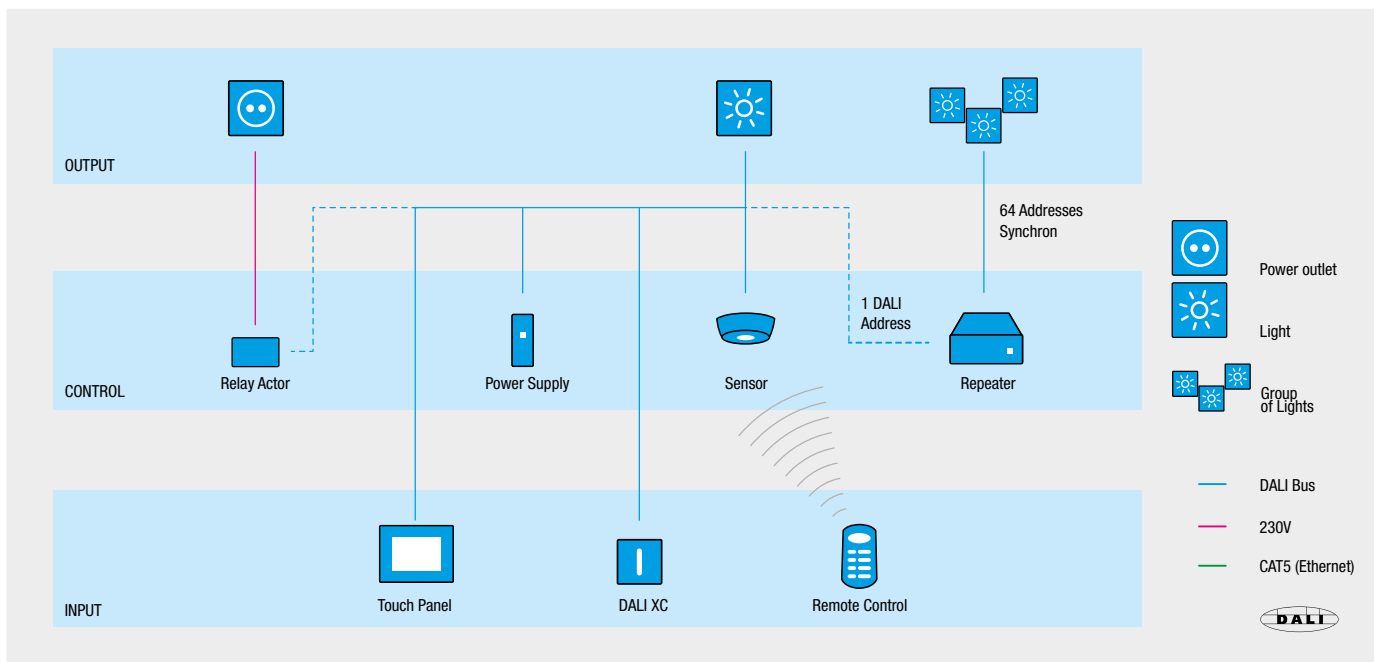


Multi-room settings

DE Die vordefinierten Einzelleuchten, Szenen und Gruppen können im jeweiligen Untermenü der einzelnen Räume gedimmt oder geschaltet werden. Die Farbeinstellung von RGB und Tunable White Leuchten erfolgt über den Farbwähler. Farbänderungen sind auch direkt über das Control Menü möglich. Die Datenbank eines fertig programmierten DALI-Systems kann über einen einfachen Datenbank-Export auf ein weiteres iPhone/iPad übertragen werden.

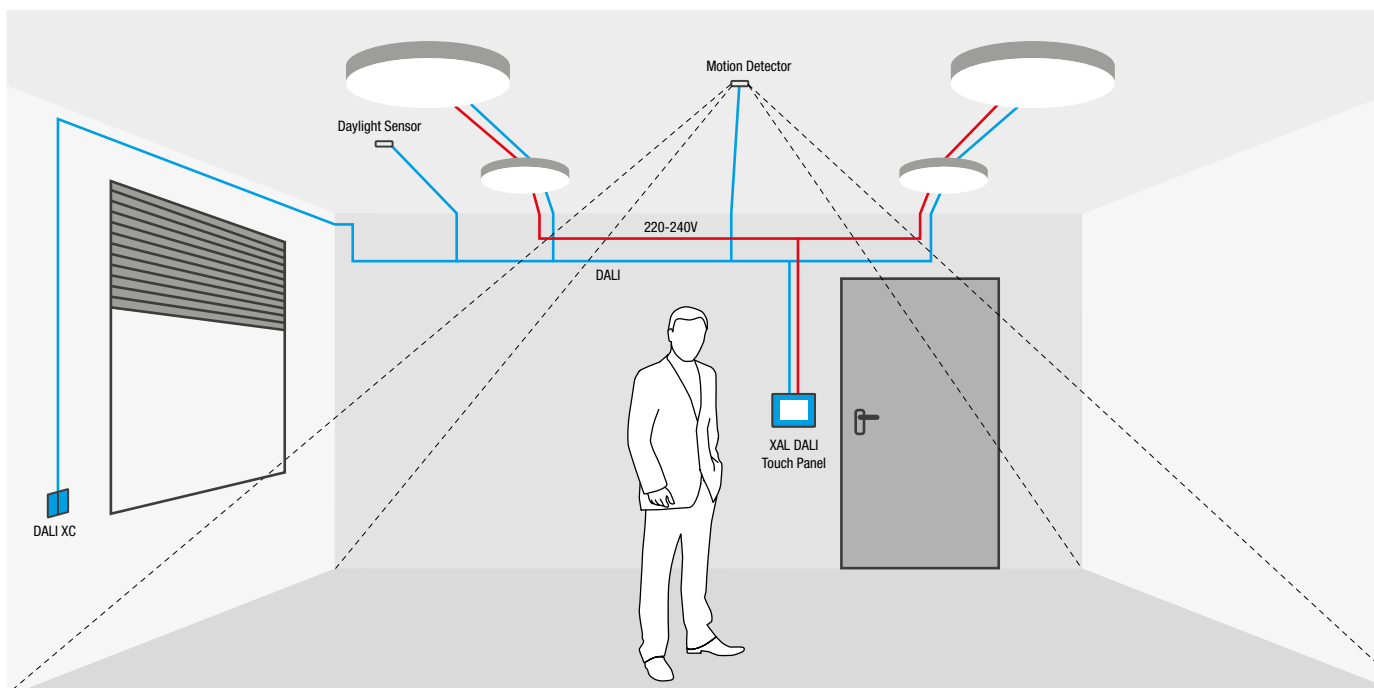
EN The pre-defined single luminaires, scenes and groups can be dimmed and controlled in the respective sub-menus for the individual rooms. The colour setting for RGB and Tunable White luminaires is done via the colour selector. Colour changes are also possible directly via the control menu. The database of a fully programmed DALI system can be transferred onto another iPhone/iPad via a simple database-export.

OVERVIEW DALI-BUS



DE Das XAL DALI TOUCH PANEL ermöglicht die Adressierung und Ansteuerung von 2x 64 DALI-Adressen. Ein spezieller Farbmodus bietet eine einfache Möglichkeit, Farbsequenzen zu programmieren. Zusätzlich können bis zu 16 Gruppen und Szenen frei definiert werden.

EN The XAL DALI TOUCH PANEL can address and control 2x 64 DALI addresses. A special colour mode allows the easy programming of colour sequences. Additionally, up to 16 groups and scenes can be individually defined.



DE In das DALI-Bus-System können sowohl DALI Taster (SC, GC) als auch Tageslicht- und Bewegungssensoren integriert werden. Die Versorgung dieser externen Komponenten erfolgt über die DALI Spannungsversorgung.

EN Both DALI push-buttons (SC, GC) and daylight/movement sensors can be integrated into the DALI bus system. These external components are powered by the DALI power supply.

XAL DALI touch panel 5,7" 24-48V



DE Lichtmanagementsystem mit Farb-Touch-Screen für 2x 64 DALI Adr.; Verwaltung von bis zu 16 Gruppen und 16 Szenen; Steuerfunktion für RGB-Anwendung und Kalenderfunktion; Echtzeituhr und -kalender mit bis zu 7 Tagesverläufen; inkl. Spannungsversorgung

EN Control system for 2x 64 DALI addresses with colour touch screen; management of up to 16 groups and 16 scenes; control of RGB-applications and calendar function; real-time clock and calendar with up to 7 daily routines; incl. power supply

DALI TOUCH PANEL 220-240V

TYPE	L-W-H (mm)	ORDER CODE
Touch Panel	200-150-20	0 0 2 - 5 9 9 0 0

IR remote control



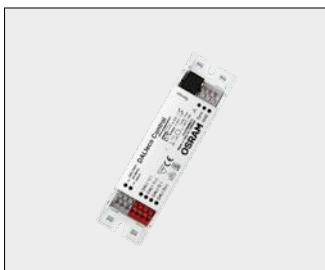
DE Infrarot Handsender zum Abruf von bis zu 2 Lichtszenen; Funktionen: Ein/Aus, Heller/Dunkler; Abruf von fünf Festwerten 100%, 50%, 25%, 12% und 6%; Wandhalterung im Lieferumfang enthalten

EN Infrared remote with selection of up to 2 lighting scenes; functions: On/Off, Brighter/Darker; selection of 5 fixed values: 100%, 50%, 25%, 12% and 6%; wall mounting kit included

IR REMOTE CONTROL

TYPE	ORDER CODE
IR Remote Control	0 0 2 - 5 4 0 1 0

DALileco control

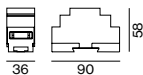


DE Tasterinterface zur einfachen Steuerung von DALI Leuchten; Die Steuerung erfolgt mittels DALI Broadcast Befehlen; max. 2x 16 DALI EVG; Anbindung von Sensoren möglich

EN Button interface for the simple control of DALI luminaires; it is controlled by use of DALI broadcast commands; max. 2x 16 DALI electronic ballasts; connection to sensors possible

DALIleco CONTROL 220-240V

TYPE	L-W-H (mm)	ORDER CODE
DALIleco control	118-30-21	1 3 2 - 8 0 2 0 8 5
ceiling insertion kit		1 3 2 - 8 0 2 0 8 6



DALI POWER SUPPLY 220-240V

TYPE	L-W-H (mm)	ORDER CODE
PS 240 mA	90-36-58	0 0 2 - 5 9 8 7 1

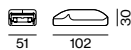
for top-hat-rail mounting



DALI PCD/S PHASE DIMMER 220-240V

TYPE	L-W-H (mm)	ORDER CODE
40-1000VA	105-90-59	0 0 2 - 5 4 0 4 5

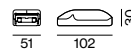
for top-hat-rail mounting



DALI POWER SUPPLY 120-240V

TYPE	L-W-H (mm)	ORDER CODE
XPS1 200 mA	102-51-30	0 0 2 - 5 9 8 8 0

for ceiling insertion



DALI PCD/S PHASE DIMMER 220-240V

TYPE	L-W-H (mm)	ORDER CODE
1-300VA	102-51-30	0 0 2 - 5 4 0 4 1

for ceiling insertion



DALI RELAY ACTOR

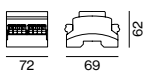
TYPE	L-W-H (mm)	ORDER CODE
1 channel	120-115-95	0 0 2 - 5 2 0 6 7
3 channel	120-115-95	0 0 2 - 5 2 0 6 8



LIGHT SENSOR / MOTION DETECTOR 6mA

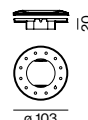
TYPE	Ø-H (mm)	ORDER CODE
ceiling mounted	86-46	0 0 2 - 5 4 0 5 1

operating area at 2.5m (Ø 5m) / max. height 5m / tiltable ± 15°



DALI REPEATER 100-240V

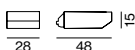
TYPE	L-W-H (mm)	ORDER CODE
DALI Repeater	72-69-62	1 3 2 - 3 0 1 0 9 3



LIGHT SENSOR / MOTION DETECTOR 6mA

TYPE	Ø-H (mm)	ORDER CODE
socket mounted	103-20	0 0 2 - 5 4 0 5 3

operating area at 2.5m (Ø 5m) / max. height 5m / tiltable ± 15°



DALI MODULE for groups/scenes control

TYPE	L-W-H (mm)	ORDER CODE
XC	48-28-15	0 0 2 - 5 4 0 2 6

DALI control of 4 scenes / 2 groups



LIGHT SENSOR / MOTION DETECTOR 6mA

TYPE	Ø-H (mm)	ORDER CODE
surface mounted	86-40	0 0 2 - 5 4 0 5 8

operating area 2.5m (Ø 5m) / max. mounting height 5m

Technology

LED

Allgemein

DE Die Dynamik der Entwicklung der LED-Technologie bringt es mit sich, dass die Eigenschaften von auf den ersten Blick vergleichbaren Produkten durch die Qualität der eingesetzten LED und durch die Art des Einsatzes der LED in einer Leuchte massiv voneinander abweichen können. Die wesentlichen Einflussfaktoren sind dabei das Binning, die Farbwiedergabeeigenschaften, die Bestromung der LED und das damit zusammenhängende Temperaturverhalten, die Farbortverschiebung und die die Lebensdauer definierende Lichtstromdegradation. Diese Einflussfaktoren stehen in starker Abhängigkeit voneinander. Nur eine optimale Auswahl der Parameter und eine auf das Gesamtsystem Leuchte gerichtete Produktentwicklung gewährleistet ein qualitativ hochwertiges und nachhaltig den ursprünglichen Anforderungen entsprechendes Ergebnis.

Binning

DE Binning ist im Wesentlichen ein Verfahren zur Farbklassenbildung bei LEDs. Jede einzelne LED unterscheidet sich im Farbort des von ihr emittierten Lichts aufgrund des Produktionsprozesses zwangsläufig mehr oder weniger von allen anderen LEDs – auch innerhalb derselben Produktionscharge. Wie gering diese Abweichungen im Farbort bei mehreren LEDs sind, ist ein wesentliches Qualitätsmerkmal von LEDs.

Das bestgeeignetste Instrument zur Messung dieser Abweichungen sind sogenannte MacAdam-Ellipsen, die die absolute Farbabweichung in Zusammenhang mit den Möglichkeiten der menschlichen Farbwahrnehmung bringen. Alle Farborte innerhalb einer sogenannten 1-Step-MacAdam-Ellipse sind für den Menschen unter keinen Umständen unterscheidbar. XAL verwendet ein Binning, das nur geringfügig über dieser Schwelle liegt: Die Farborte unserer LEDs befinden sich bei Auslieferung innerhalb einer 3-Step-MacAdam-Ellipse um den angegebenen Farbort. Damit ist sichergestellt, dass alle unsere Produkte hinsichtlich des Farbortes extrem hohe Homogenität aufweisen.

Farbwiedergabe

DE Weil das Umgebungslicht Farben unterschiedlich reproduziert, wird als Referenz der so genannte Farbwiedergabeindex (CRI, Colour Rendering Index) herangezogen. Er gibt an, in welchem Verhältnis das angestrahlte Objekt oder der angestrahlte Bereich vom Maximalwert 100 (Tageslicht) abweicht. Der CRI wird als arithmetisches Mittel der Ergebnisse zu acht Testfarben berechnet (R1 bis R8). Zusätzlich werden immer auch sechs weitere Farben (R9 bis R14) getestet, deren Ergebnisse jedoch keinen Einfluss auf den CRI haben. Sie sind sehr wichtig, um die Qualität der Lichtquelle zu bestimmen. Vor allem R9 (gesättigtes Rot) ist von enormer Bedeutung für hochwertige Beleuchtungslösungen.

General

EN The dynamic development of LED technology means that the characteristics of products which appear to be similar at first glance can be drastically different based on the quality of the LED that is used and the way the LED is used in a luminaire. The key parameters in this context are the binning, the colour rendering characteristics, the current feed of the LED and the associated thermal behaviour, the colour location shift, and the luminous flux degradation, which determines the lifespan of the LED. These parameters are highly interrelated. A high-quality result that meets the original requirements on a long-term basis can only be guaranteed through the optimal selection of the parameters and a product development process that is geared towards the luminaire as a complete system.

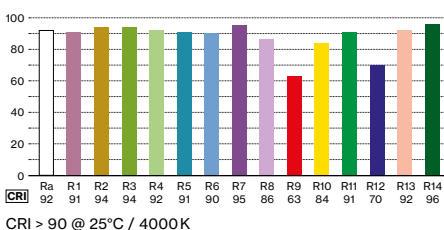
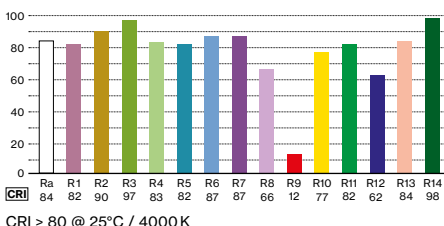
Binning

EN Binning is essentially a process for defining colour groups for LEDs. Due to the production process, each individual LED differs from basically any other LED in terms of the colour location of the light it emits – even within a single production batch. How small these differences in the colour location are among multiple LEDs is a decisive factor in the quality of LEDs.

The best tool for measuring these differences is the so-called MacAdam ellipse, which shows the absolute colour difference in relation to the ability of the human eye to perceive colour. All colour locations within a so-called 1-step MacAdam ellipse are indistinguishable to the human eye under all conditions. The binning used by XAL is only slightly higher than this threshold: Upon delivery, the colour location of our LEDs is within a 3-step MacAdam ellipse around the specified colour location. This ensures that all of our products are extremely homogeneous in terms of colour location.

Colour rendering

EN Because the ambient light reproduces colours differently, the colour rendering index (CRI) is used as reference. This indicates the ratio by which the illuminated object or the illuminated area deviates from the maximum value of 100 (daylight). The CRI is calculated as an arithmetic mean of the results of eight test colours (R1 to R8). In addition, six other colours (R9 to R14) are also always tested, although the results of these colours do not impact the CRI. They are very important for determining the quality of the light source. R9 (saturated red) in particular is of enormous importance for high quality lighting solutions.



Bestromung und Temperatur

DE LEDs verändern ihre Eigenschaften über ihre Lebensdauer. Die wesentlichen Einflussgrößen dabei sind die Bestromung der LED und das Temperaturmanagement. Je höher die Betriebstemperatur der LED ist, desto stärker ergeben sich Verschiebungen des Farborts und eine Abnahme des Lichtstroms über die Nutzungsdauer.

Die Produkte in diesem Katalog werden daher meist mit weniger Strom betrieben als vom Hersteller empfohlen. Damit gelingt es uns, zusammen mit ausgereiftem Thermomanagement, eine niedrige Betriebstemperatur unserer LEDs zu gewährleisten. Dies führt zu nachhaltig geringer Farbortverschiebung und geringer Lichtstromdegradation.

Farbortverschiebung

DE LEDs unterliegen einer Farbortverschiebung innerhalb der ersten 1.000 Betriebsstunden (Einbrennphase) einer 2-Step-MacAdam-Ellipse. Aufgrund des niedrigen Betriebsstroms erhöht sich die Farbortverschiebung über die Lebensdauer unserer LEDs ausgehend vom gelieferten Binning-Feld danach lediglich in sehr geringem Umfang, sodass die gesamte Farbortverschiebung im Regelfall innerhalb einer 3-Step-MacAdam Ellipse verbleibt.

Lichtstromdegradation

DE LEDs unterliegen einem Lichtstromrückgang über die Zeit. Dieser Lichtstromrückgang wird über drei Werte gemessen: L-Wert, B-Wert und Betriebsdauer in Stunden. Der L-Wert gibt den Wert des Lichtstroms in Prozent des Anfangslichtstroms bei Erreichen der Betriebsdauer in Stunden an, der B-Wert jenen Prozentsatz der LED, dessen Lichtstrom den L-Wert bei Erreichen der Betriebsdauer in Stunden unterschreiten darf. Wird kein B-Wert angegeben, gilt B50.

Für unsere LEDs gilt eine Lebensdauer von L70, L80 bzw. L90/B50 nach 50.000 Stunden. Das bedeutet, dass zumindest 50% der LED nach einer Betriebsdauer von 50.000 Stunden noch 70, 80 bzw. 90% des Ausgangslichtstroms aufweisen. Aufgrund von Berechnungen der LED-Hersteller zum Langfristverhalten der LEDs und unserer vorteilhaften Betriebsumgebung mit niedriger Bestromung gehen wir mit hoher Wahrscheinlichkeit davon aus, dass die in den Produkten in diesem Katalog verbauten LEDs auch die Anforderungen von L70, L80 bzw. L90/B20 nach 50.000 Stunden erreichen und somit nur 20% der LEDs nach 50.000 Betriebsstunden unter 70, 80 bzw. 90% des Ausgangslichtstroms fallen würden. Wir können dies aber nicht mit hinreichender Sicherheit bestätigen. Ausgangspunkt für unsere Angaben ist der individuelle Ausgangslichtstrom der LED, der stets in einem engen Toleranzbereich um den angegebenen Lichtstromwert liegt.

Current feed and temperature

EN The properties of LEDs alter over their lifespan. The major factors here are the current feed of the LED and the thermal management. As the operating temperature of the LED increases, the colour location shifts more heavily, and the luminous flux degrades over the lifespan of the LED.

The products in this catalogue are therefore generally operated with less current than recommended by the manufacturer. This makes it possible, in combination with advanced thermal management, to ensure a low operating temperature for our LEDs. This leads to a low level of colour location shift and luminous flux degradation over the long term.

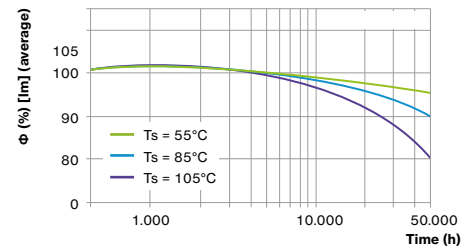
Colour point shift

EN During the first 1,000 hours of operation (burn-in phase), LEDs are subject to a colour point shift of one 2-step MacAdam ellipse. Due to the low operating current, the colour point shift of our LEDs over their lifespan after the burn-in phase increases to only a moderate extent based on the binning group at delivery, such that the entire colour location shift generally remains within one 3-step MacAdam ellipse.

Luminous flux degradation

EN LEDs are subject to luminous flux degradation over time. Luminous flux degradation is measured using three values: the L value, the B value, and the operating life in hours. The L value represents the luminous flux value as a percentage of the initial luminous flux when the operating life in hours is reached. The B value represents the percentage of the LEDs whose luminous flux may be below the L value upon reaching the operating life in hours. B50 applies to all products for which no B value is specified.

Our LEDs have a lifespan of L70, L80 and L90/B50 after 50,000 hours. This means that at least 50% of the LEDs still exhibit 70, 80 or 90% of the initial luminous flux after an operating life of 50,000 hours. Based on calculations by the LED manufacturers regarding the long-term behaviour of the LEDs and our favourable operating environment with a low current feed, we assume with high probability that the LEDs installed in the majority of the products in this catalogue also achieve the requirements of L70, L80 and L90/B20 after 50,000 hours, which means that only 20% of the LEDs would fall below 70, 80 or 90% of the initial luminous flux after 50,000 hours of operation. However, we cannot confirm this with a sufficient level of certainty. The starting point for our statements pertaining to luminous flux degradation is the initial luminous flux of the individual LEDs, which is always within a narrow tolerance range of the specified luminous flux value.



Example for impact of current feed and temperature on luminous flux degradation

Technology other technical information

Erläuterungen zu technischen Angaben

DE LICHTSTROM

Die Angaben zum Lichtstrom in diesem Katalog unterliegen einer Toleranz von +/- 10 % und jene der Farbtemperatur +/- 150K.

DE LEISTUNGS-AUFNAHME

Die Angaben in diesem Katalog zu Leistungsaufnahmen der LEDs beinhalten die Leistungsaufnahme der Treiberelektronik und des Betriebsgeräts.

Abkürzungen

DE lm (Lumen)

Lumen ist die Einheit des Lichtstroms. Der Lichtstrom beschreibt die von einer Lichtquelle in alle Richtungen abgestrahlte Leistung im sichtbaren Bereich.

DE lx (Lux)

Lux ist die Einheit der Beleuchtungsstärke. Die Beleuchtungsstärke beschreibt den Lichtstrom, der auf eine bestimmte Fläche trifft.

DE cd (candela)

Candela ist die Einheit der Lichtstärke. Die Lichtstärke beschreibt den Lichtstrom pro durchstrahltem Raumwinkel.

DE UGR (Unified Glare Rating)

UGR ist ein Verfahren zur Bewertung der Blendung. Je nach Schwierigkeit von Sehaufgaben sollen die entsprechenden Grenzwerte nicht überschritten werden. Die UGR-Grenzwerte sind in der Norm EN 12464 für Tätigkeiten und Sehaufgaben festgelegt. Für Büroräume ist UGR = 19 als oberster Wert zugelassen.

DE LGP (Light Guiding Prism)

Lichtlenkende Strukturen in lichtführendem, transparentem Material, die bei seitlicher Lichteinkopplung für die gewünschte Lichtverteilung sorgen.

DE LOR (Light Output Ratio)

Die LOR ist das Verhältnis von Lichtstrom einer Leuchte zum Lichtstrom der in ihr verwendeten Lichtquelle und somit ein Maß für die Effizienz einer Leuchte.

Notes on technical information

EN LUMINOUS FLUX

The information on the luminous flux in this catalogue is based on a tolerance of +/- 10 % and the colour temperature values have a tolerance of +/- 150 K.

EN POWER CONSUMPTION

The information in this catalogue regarding the power consumption of the LEDs includes the power consumption of the driver electronics and the controller.

Abbreviations

EN lm (lumen)

The lumen is the unit of luminous flux. Luminous flux describes the light energy in the visible band radiated from a light source in all directions.

EN lx (lux)

The lux is the unit of light intensity. It describes the total luminous flux incident on a given surface.

EN cd (candela)

Candela is the unit of luminous intensity. The luminous intensity describes the luminous flux per illuminated solid angle.

EN UGR (Unified Glare Rating)

UGR is a procedure for rating glare. Depending on the difficulty of visual tasks, the corresponding limits should not be exceeded. The UGR limit values are defined in the standard EN 12464 for activities and visual tasks. UGR = 19 is permitted as the maximum value for office spaces.

EN LGP (Light Guiding Prism)

Light-guiding structures in light-guiding, transparent material that ensure the desired distribution of light when light is introduced from the side.

EN LOR (Light Output Ratio)

The LOR is the ratio of the luminous flux of a luminaire to the luminous flux of the light source used in it and thus represents a measure of the efficiency of a luminaire.

Symbole



DE Mit der CE-Kennzeichnung erklärt ein Hersteller, dass das Produkt den innerhalb der Europäischen Union geltenden Anforderungen an sein Produkt genügt.



DE Das CB-Verfahren ist ein international anerkanntes Prüfprogramm, unter anderem für Leuchten. Das CB-Zertifikat und meist geringe länderspezifische Dokumentation sind die Basis für den unkomplizierten Erwerb vieler nationaler Prüfzeichen ohne weitere Prüfungen.



DE Das ENEC-Zeichen dokumentiert die Konformität von ENEC-zertifizierten Erzeugnissen mit europäischen Sicherheitsnormen.



DE Schutzarten (IP-Codes) nach DIN EN 60529. IP (Ingress Protection) steht für Schutz gegen Eindringen. Die erste Kennziffer des IP-Codes bezieht sich auf den Schutz gegen Berührung und das Eindringen von festen Fremdkörpern und Staub. Die zweite Kennziffer bezieht sich auf den Schutz gegen Wasser und Feuchtigkeit.



DE Schutzart für Einbauleuchten.



DE Schutzklassen geben Auskunft darüber, inwieweit eine Leuchte gegen die Risiken eines Stromschlags durch Berührung geschützt ist.



SK I: Erdung



SK II: verstärkte oder zweifache Isolierung



SK III: Schutzkleinspannung



DE Gibt die Anzahl der DALI-Adressen einer Leuchte an.



DE Der Farbwiedergabeindex größer 90 steht für eine natürliche Farbwiedergabe und kommt dem Tageslicht (Maximalwert 100) sehr nahe.



DE Bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1.



DE Basiert auf SMD Mid-power LEDs, zu Gunsten einer höheren Effizienz wird der Lichtoutput leicht reduziert.



DE Basiert auf SMD Mid- und High-power LEDs, eingestellt für gleichmäßige Performance. Hohe Effizienz bei bestem Lichtoutput.



DE Mid- und Low-power LEDs in sehr kleiner Bauform. Diese LEDs werden in Leuchten mit sehr kompakter Bauform sowie in Flächenleuchten mit sehr geringer Aufbauhöhe eingesetzt, ohne Kompromisse bei Gleichmäßigkeit oder Effizienz.



DE Bei der Chip on Board Technologie werden viele LED-Chips auf sehr engem Raum eingesetzt, um hohe Lichtströme auf engstem Bauraum zu realisieren.



DE PMMA ist das Kurzzeichen für den Kunststoff Polymethylmethacrylat, auch bekannt als Acrylglas. XAL verwendet für die LED-Leuchten opale oder mikroprismatische Abdeckungen aus PMMA. Opale Abdeckungen sorgen für eine homogene Ausleuchtung, mikroprismatische Abdeckungen für eine gute Entblendung.

Symbols

EN The CE mark on a product represents the manufacturer's declaration that the product complies with the requirements that apply to the product within the European Union.

EN The CB Scheme is an internationally recognised testing programme, including for luminaires. The CB certificate and a generally minimal amount of country-specific documentation serve as the basis for easily obtaining many national certification marks without further testing.

EN The ENEC mark documents the compliance of ENEC-certified products with European safety standards.

EN Protection ratings (IP codes) according to DIN EN 60529. IP stands for Ingress Protection. The first value of the IP code refers to the protection against contact and the penetration of solid bodies and dust. The second value refers to the protection from water and moisture.

EN Protection rating for recessed luminaires.

EN Protection classes provide information on how well a luminaire is protected against the risks of a current surge due to contact.

PC I: Earthing

PC II: Reinforced or double insulation

PC III: Safety extra low voltage

EN Indicates the number of DALI addresses of a luminaire.

EN A colour rendering index of greater than 90 stands for natural colour rendering and comes very close to daylight (maximum value of 100).

EN Suitable for lighting workstations with computer screens in accordance with DIN EN 12646-1.

EN Based on SMD mid-power LEDs, the light output is reduced slightly in order to achieve higher efficiency.

EN Based on SMD mid- and high-power LEDs, configured for uniform performance. High efficiency combined with optimal light output.

EN With chip-on-board technology, many LED chips are used in a very tight space in order to achieve high luminous flux in extremely small designs.

EN With chip-on-board technology, many LED chips are used in a very tight space in order to achieve high luminous flux in extremely small designs.

EN PMMA is the abbreviation for the plastic polymethylmethacrylate, also known as acrylic glass. XAL uses opal or microprismatic covers of PMMA for the LED luminaires. Opal covers ensure a homogeneous lighting, while microprismatic covers provide for good glare elimination.

RCS Intelligent Function

Radar Control System (RCS)

Dank Radar Control System (RCS) reagiert die Beleuchtung auf Lichtverhältnisse und Bewegungen im Umkreis. Die daraus resultierenden Steuerungsinformationen werden drahtlos zwischen den Leuchten weitergegeben.

Radar Control System (RCS)

Thanks to the Radar Control System (RCS), the lights react to the light conditions and movement within the range of the detector. The resulting control information is exchanged wirelessly between the luminaires.

Smarte Interaktion mit der Umgebung

DE Das Radar Control System reguliert die Beleuchtung je nach Anwesenheit von Personen und Helligkeit des Umgebungslichts. Ein unsichtbarer Sensor zur Radarpräsenzerkennung detektiert selbst kleinste Bewegungen innerhalb eines festgelegten Erfassungsbereichs. Mit Hilfe eines Funkmoduls werden die Informationen über die wahrgenommenen Bewegungen weitergegeben.

Auf diese Art können beliebig viele Leuchten in Distanzen von bis zu zehn Metern zu einem intelligent gesteuerten System zusammenschaltet werden.

Zusätzlich zur Bewegungserkennung steuert ein Tageslichtsensor die Leuchten auf Basis einer vorgegebenen Helligkeitsschwelle.

Smart interaction with the environment

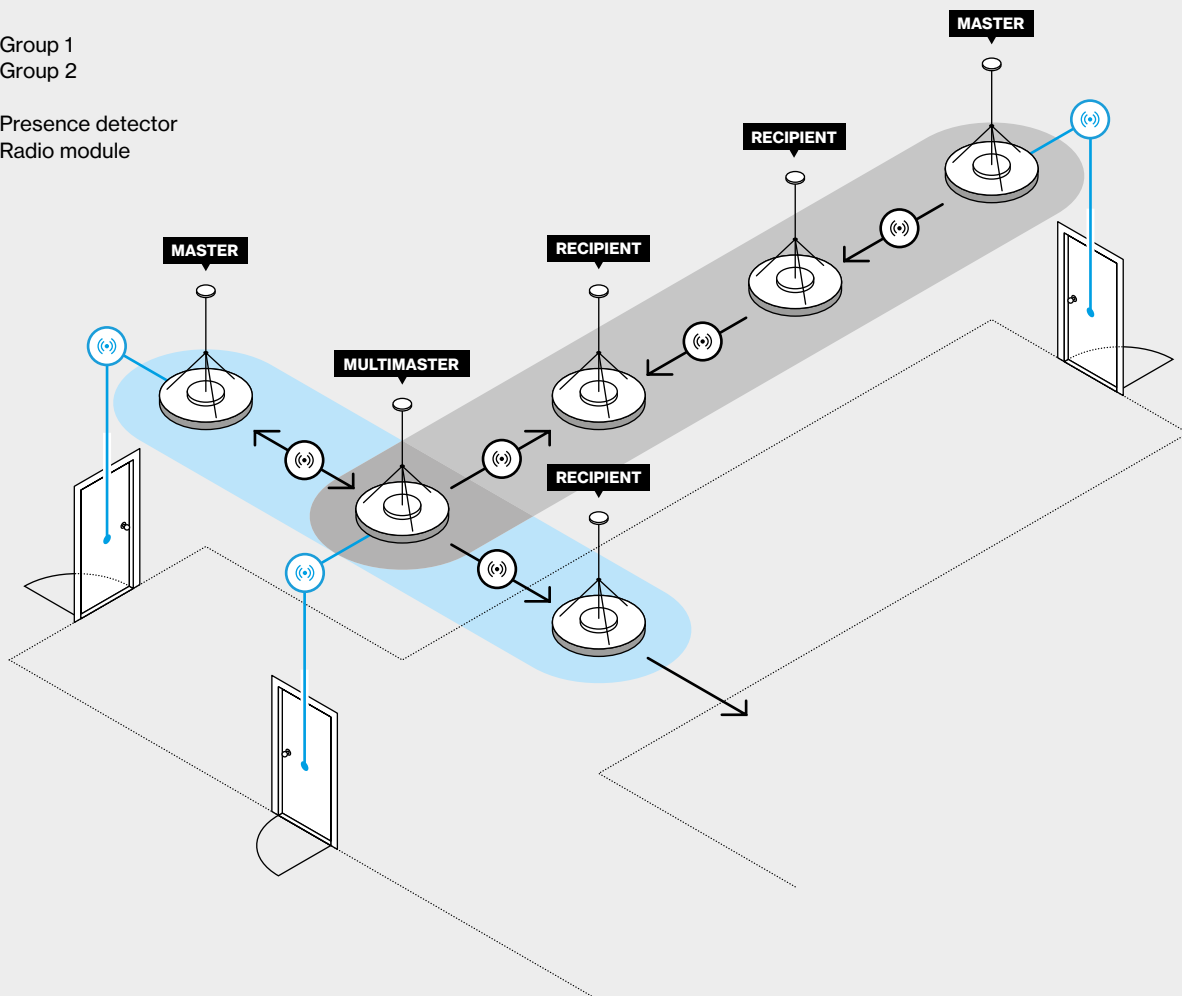
EN The Radar Control System regulates the lights according to the presence of people and the intensity of the ambient light. An invisible radar sensor detects even the smallest of movements within a defined scanning area. Information about the detected movements is passed on using a wireless communication module.

In this way, any number of luminaire at a distance of up to 10 metres can be combined into an intelligently controlled system.

In addition to motion detection, a daylight sensor controls the luminaire based on a defined brightness threshold.

Installation example

- Group 1
- Group 2
- Presence detector
- Radio module



Korridorfunktion

DE Die Korridorfunktion ist enorm wirtschaftlich und eignet sich neben Gängen und Treppenhäusern für alle Bereiche in denen man nur kurz verweilt. Mit ihrer Hilfe wird nur dann Licht erzeugt, wenn es tatsächlich benötigt wird. Registriert der unsichtbare Radarsensor die Präsenz einer Person, erhöht sich die Grundlichtstärke automatisch auf die Anwesenheitsbeleuchtung und durchläuft ein voreingestelltes Programm (siehe Beispiel unten).

Corridor function

EN The corridor function is extremely economical and in addition to hallways and stairways is ideal for all areas where people only spend a short amount of time. This function ensures that light only shines when it is actually needed. When the radar sensor registers the presence of a person, the basic light intensity automatically increases to the "presence" lighting level and then runs through a predefined program (see the example below).

Light level over time (in %)

Fade Time On

DE Nach Erkennen einer Bewegung dimmt die Leuchte innerhalb von 2 Sek. auf 100 % und behält diesen Level bei, solange Bewegung detektiert wird.

EN When motion is detected, the light reaches 100 % intensity within 2 seconds and maintains this level for as long as motion is detected.

On Time

DE Ohne Detektion einer Bewegung bleibt die Leuchte für die eingestellte Dauer auf 100 %.

EN When no motion is detected, the luminaire remains at 100 % intensity for the configured amount of time.

Fade Time

DE Danach dimmt die Leuchte langsam auf DIM-Level.

EN The luminaire then slowly goes to dim level.

DIM Time

DE Die Leuchte verharrt für eine einstellbare Dauer auf DIM-Level.

EN The luminaire remains at dim level for a configurable period of time.

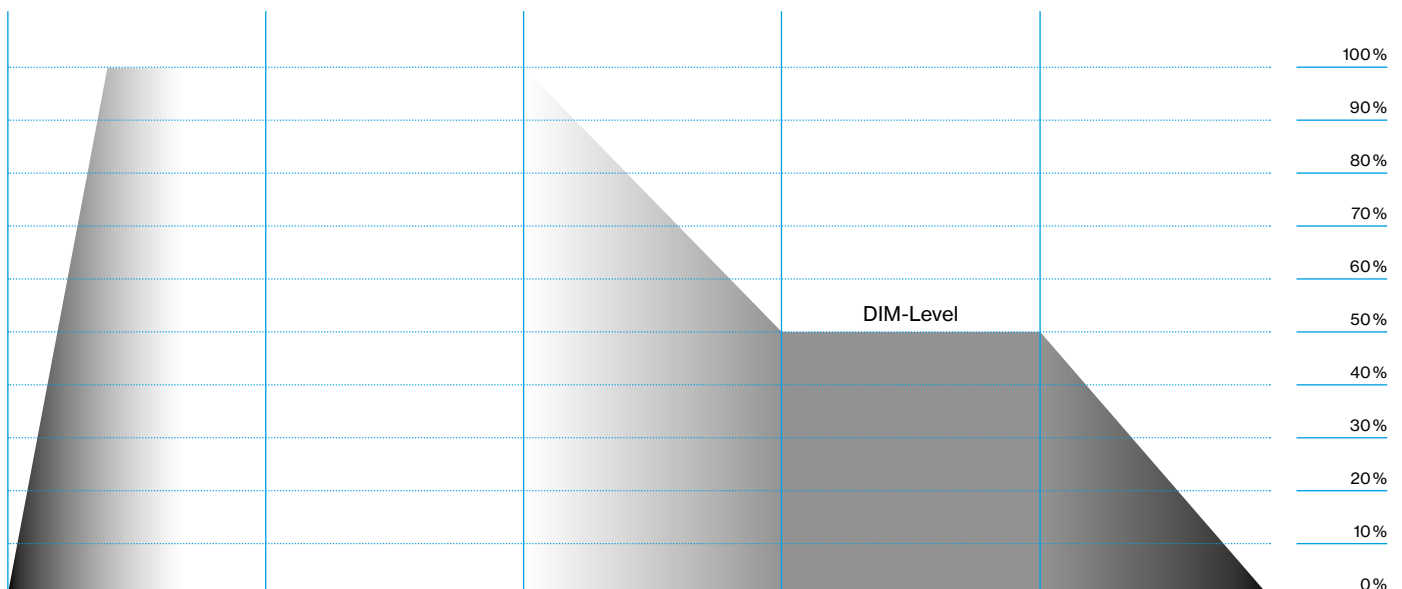
Fade Time Off

DE Wird keine weitere Bewegung detektiert, schaltet sich die Leuchte nach festgelegter DIM Time aus.

EN If no further motion is detected, the luminaire switches off after the configured dim time.

**Einstelloptionen /
Configuration options:**
30s, 1min, 5min, 15min

**Einstelloptionen /
Configuration options:**
1min, 5min, 15min, ∞
0%, 10%, 20%, 30%



Tunable white

3000–6000 K

Die optionale tunable white Funktion erlaubt variable Farbtemperatureinstellungen von warm- bis kaltweiß.

3000–6000 K

The optional tunable white function allows colour temperatures from warm to cold white to be set.

Ausgewogene Farbtemperatur und Beleuchtungsstärke

DE Die richtige Kombination der beiden Faktoren Beleuchtungsstärke und Farbtemperatur ist entscheidend, damit wir uns in einem Raum wohlfühlen. Bei geringer Beleuchtungsstärke muss die Farbtemperatur „wärmer“, bei höherer Beleuchtungsstärke „kühler“ sein (siehe dazu Grafik nach Kruithof). Mit tunable white Technologie und einer entsprechend intelligenten Ansteuerung kann dieser Wohlfühlbereich erreicht werden.

Balanced colour temperature and light intensity

EN The right combination of light intensity and colour temperature makes all the difference in whether we feel comfortable in a room. When the light intensity is low, the colour temperature must be warmer, and the temperature must be cooler when the light intensity is greater (see the chart according to Kruithof). This comfort can be achieved with tunable white technology and an intelligent controller.

Tunable white in der Praxis

DE Ein ideales Einsatzgebiet sind beispielsweise Gangbereiche in Krankenhäusern und Pflegeeinrichtungen oder Schwesternstationen. Aufgrund der geringen Nutzungsfrequenz in den Abend- und Nachtstunden kann die Beleuchtungsstärke reduziert werden. Mit Hilfe der tunable white Funktion ist mit der verringerten Beleuchtungsstärke eine wärmere Farbtemperatur gekoppelt, damit gemäß Kruithof'schen Kurve der ideale Wohlfühlbereich erreicht wird. Zusätzlicher positiver Effekt: Das wärmere Licht beeinträchtigt die Melatoninausschüttung und somit den Schlafrythmus nicht.

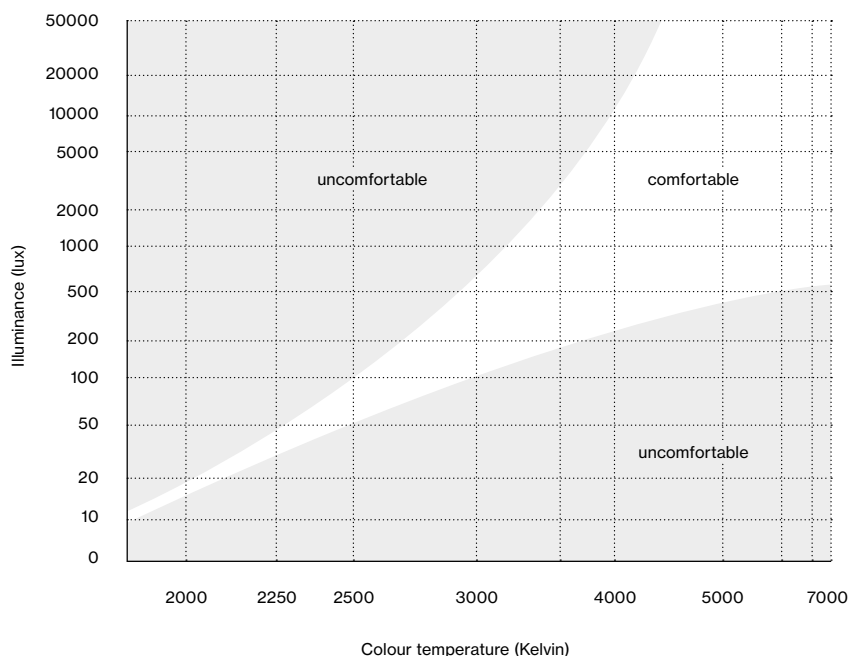
Tunable white eignet sich auch für öffentliche Veranstaltungsbereiche, in denen je nach Nutzung unterschiedliche Lichtszenarien eingesetzt werden. Auch hier gilt: Zur Schaffung eines Wohlfühlbereichs sollten Beleuchtungsstärke und Farbtemperatur aufeinander abgestimmt sein.

Tunable white in practical use

EN Ideal applications are hallways in hospitals and care facilities, or nurse's stations. Because these areas are used less in the evening and at night, the light intensity can be reduced. The tunable white function allows a warmer colour temperature to be set when the light intensity is reduced, which ensures optimal comfort according to the Kruithof curve. Another positive effect is that the warmer light does not impair melatonin secretion, and therefore does not disturb the circadian rhythm.

Tunable white is also suitable for public event areas where different light scenarios are needed depending on the specific use. Here as well, the light intensity and colour temperature should be coordinated to provide a high level of comfort.

KRUITHOF CURVE



Constant Lumen Output

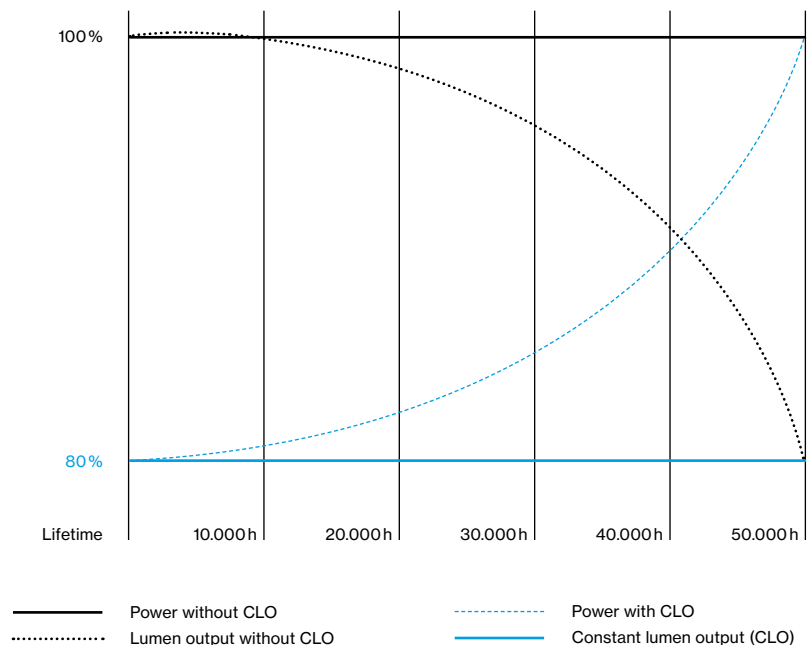
Konstante Beleuchtungsstärke

DE Der Lichtstrom einer LED nimmt über ihre Lebensdauer ab. Das ist zwar im Alltag auf den ersten Blick nicht sichtbar, kann aber nach Jahren dazu führen, dass beispielsweise in Büros Normen zur Beleuchtungsstärke nicht mehr eingehalten werden. Die Technologie Constant Lumen Output (CLO, in allen DIM DALI Leuchten integriert) wirkt dem entgegen. Eine Anlage wird zu Beginn mit rund 80 % bestromt – ein von Anfang an schonender Betrieb, der zusätzlich die Lebensdauer der LED verlängert. Die Wattage wird im Laufe der Zeit stetig erhöht, damit der Lichtstrom gleich bleibt. So werden geplante und geforderte Beleuchtungsstärken bis zum Ende der Lebensdauer konstant eingehalten.

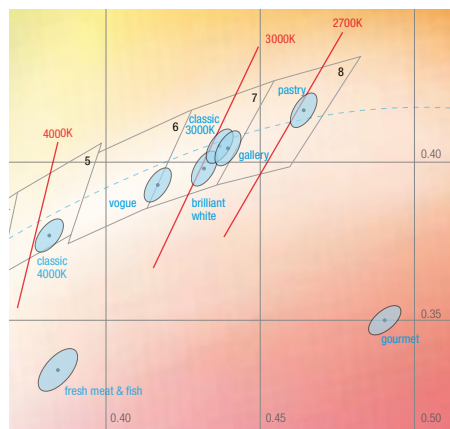
Constant light intensity

EN The light output of an LED decreases over time. This is not apparent at first, but over the years, this change can cause offices to no longer meet the required light intensity standards, for example. The Constant Lumen Output technology (CLO, integrated in all DIM DALI luminaires) works against this. A system is supplied with about 80% power in the beginning – a mode of operation that also extends the life of the LED. The wattage is steadily increased over time so that the light output remains the same. This meets the planned and required light intensities at a constant level until the end of the luminaire's service life.

COMPARISON WITH/WITHOUT CLO



Special colours



Spezielle Lichtfarben

DE Für die individuellen Anforderungen im Bereich Shop-Beleuchtung bieten wir sechs spezielle Lichtfarben an, die die Warengruppe entsprechend in Szene setzen. Diese sechs Speziallichtfarben sind für die Strahler ARGO, STUDIO, SASSO Maxi sowie für die Einbauleuchten mit SASSO Maxi verfügbar.

Farbort

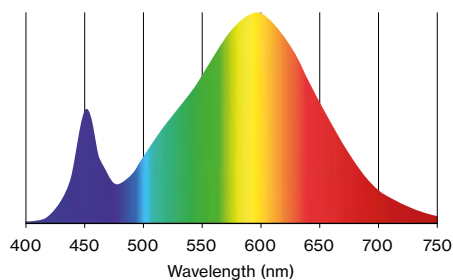
DE Der Farbort jeder Lichtquelle lässt sich im CIE 1931 Farbdigramm eindeutig durch die x und y Koordinate darstellen. Das hilft bei der Auswahl der für die Produktgruppe richtigen Lichtqualität. Die BBL (Black Body Line) ist der Bezug, um Lichtquellen zu beurteilen. Farborte, die nur eine Abweichung von bis zu 2 Step SDCM (Standard Deviation of Colour Matching) quer zur BBL aufweisen, gelten als reinweiße Lichtquellen. Ist der Abstand zur BBL größer, kommt es zu einer offensichtlichen Farbbeimischung; unterhalb der BBL pink-rötlich, oberhalb bläulich-grünlich-gelblich – immer abhängig von der Farbtemperatur. Im warmweißen Bereich werden etwas unter der BBL liegende Farborte als angenehm empfunden, im kaltweißen Bereich werden oft leicht über der BBL liegende Farborte bevorzugt. Die Standard-Lichtfarben 3000 K und 4000 K liegen leicht unter der BBL. Hingegen weichen die sechs Speziallichtfarben teils beträchtlich von der BBL ab.

Special colours

EN In order to meet the individual requirements in the field of shop lighting, we offer six special light colours that perfectly highlight product groups. These six special light colours are available for the ARGO, STUDIO, and SASSO Maxi spots as well as for the recessed luminaires with SASSO Maxi.

Colour point

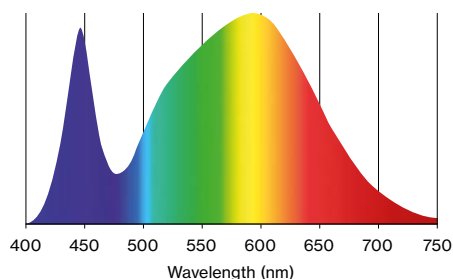
EN The colour point of any light source can be clearly presented in the CIE 1931 colour space using the x and y coordinates. This helps in selecting the correct light quality for a product group. The BBL (Black Body Line) is the reference for evaluating light sources. Colour points which exhibit a deviation of up to 2-Step SDCM (Standard Deviation of Colour Matching) away from the BBL are deemed to be pure white light sources. If the distance to the BBL is greater, there is a perceivable mixing of the colour; below the BBL pink-redish, above the BBL bluish-greenish-yellowish, always depending on the colour temperature. In the warm white region, colour points situated slightly below the BBL are perceived as pleasant, while in the cold white region colour points slightly above the BBL are often preferred. The standard light colours 3000 K and 4000 K are located slightly below the BBL. By contrast, some of the six special lighting colours deviate significantly from the BBL.



Classic warm white 3000 K | CRI > 80 or CRI > 90 | 3-step SDCM

DE Das ist die richtige Wahl bei oft wechselnden Warengruppen im Retail. Klares Weiß und lebendige Farben sind für Kaufhäuser, Textilien und verpackte Lebensmittel gleichermaßen geeignet. Die CRI 90 Variante verbessert speziell die Wiedergabe von Rottönen und lässt Produkte dadurch „lebendiger“ erscheinen.

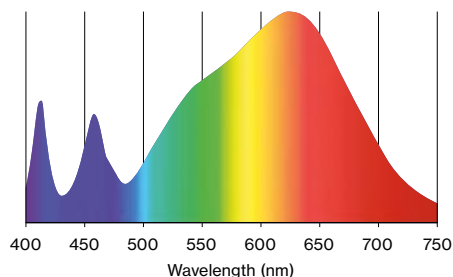
EN This is the right choice for fast moving product groups in retail. Clear white and vivid colours are equally suited for department stores, textiles and packaged foods. The CRI 90 version improves the rendering of red tones and thus makes products look more “lively”.



Classic neutral white 4000 K | CRI > 80 or CRI > 90 | 3-step SDCM

DE Bestens geeignet zur Präsentation von technischen Produkten, Jeanswaren sowie schwarz-weiß Kontrasten im hochwertigen Textilhandel, da besonders Weiß- und Blautöne sehr gut zur Geltung kommen. Die CRI 90 Variante lässt Haut vitaler wirken und eignet sich daher für Arztpraxen aber auch Museen.

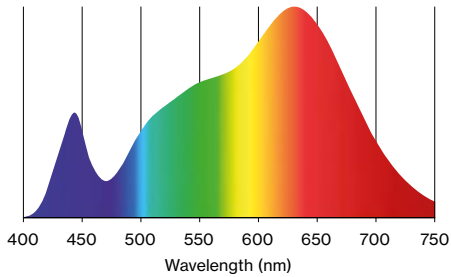
EN Ideal for the presentation of technical products, denim goods and black and white contrasts in top-end textiles, as white and blue tones stand out very well. The CRI 90 version makes skin tones look more vibrant and is thus suited for medical clinics and museums.



Brilliant white 3000 K | CRI > 90 | 3-step SDCM

DE Damit können minimale Weißnuancen unterschieden werden, Farben kommen satt zur Geltung. Der übliche blaue Halbleiterchip wurde um einen violetten Chip ergänzt, der das Gegengewicht zu den durch die Phosphor-Schicht erzeugten gelb-roten Lichtfarben ist und jeden Gelbschleier ausschließt.

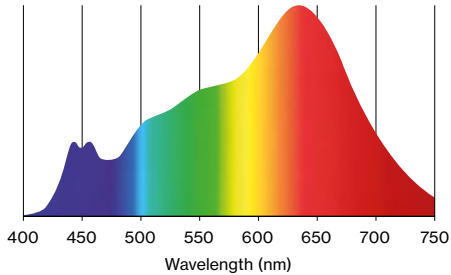
EN With this version, very minor differences in white shades are highlighted and colours look full and vibrant. A violet chip was added to the usual blue semi-conductor chip, which acts to counterbalance the yellow-red light colours created by the phosphorous layer and prevents any yellow fogging effect.



Vogue 3250K | CRI > 90 | 3-step SCDM

DE Als Primär-Lichtquelle wird bei VOGUE ein kurzwelliger Halbleiter Chip in Kombination mit drei Phosphoren in der Konversions-schicht verwendet. Dies führt zu einer kräftigen Farb Lebendigkeit und klarem Weiß. Damit eignet sich dieses Modul ideal für den Textilhandel und alles Bunte.

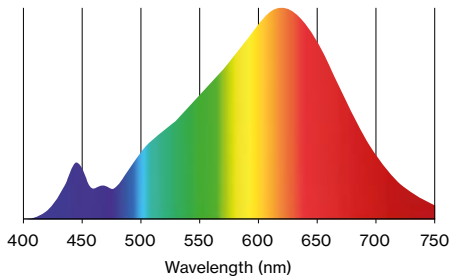
EN For the VOGUE version, a short-wave semi-conductor chip is used in combination with three phosphores in the conversion layer as the primary light source. This yields intense colour vibrancy and clear white. Consequently, this module is well-suited for textile retail and any kind of colourful products.



Gallery 3000K | CRI 98 | 3-step SCDM

DE Die allerhöchste Farbwiedergabe der Lichtfarbe GALLERY wird durch zwei blaue Halbleiter Chips in Kombination mit drei Phosphoren erreicht. Damit ist es für moderne Kunst, Ateliers und Gallerien bestens geeignet. Bunte Farben wirken besonders lebendig, dafür kann die Weißwiedergabe gelblich wirken.

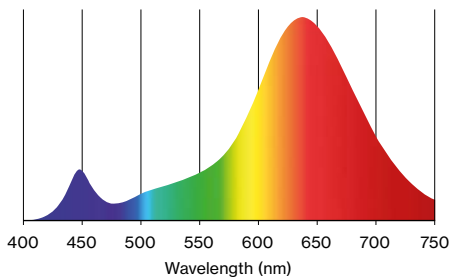
EN The highest colour rendition is achieved by the light colour GALLERY, which uses two blue semi-conductor chips in combination with three phosphores. It is perfect for modern art, studios and galleries. Bright colours appear particularly vibrant, but in return the white rendering can appear somewhat yellowish.



Pastry 2700K | 3-step SCDM

DE Der Farbort dieser sehr warmen Speziallichtfarbe ist von der BBL ins Gelb verschoben. Somit wirken Backwaren besonders knusprig und Käsewaren und Goldschmuck kommen bestens zur Geltung. Durch die BBL-Abweichung ist diese Lichtquelle jedoch nur für die genannten Produktgruppen zu verwenden.

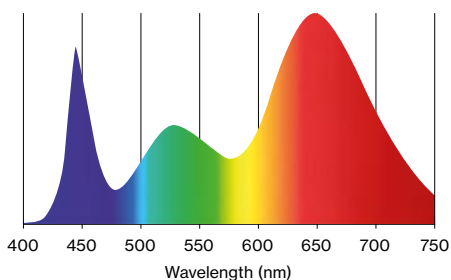
EN The colour point of this very warm special light colour is shifted from the BBL into the yellow region. Consequently, baked goods look particularly crispy, and cheese and gold jewellery are very appealing. Due to the deviation from the BBL, this light source should only be used for the stated product group.



Gourmet similar to 1900K | 3-step SCDM

DE Diese anwendungsspezifische Lichtfarbe für attraktive Delikatessenpräsentation hat ihren Farbort tief im roten Bereich. Durch die Verschiebung des Farbortes ist jeder Hauch von blass oder fahl ausgeschlossen. Alle Feinkostwaren aber auch darin enthaltene weiße Fasern wirken rötlich, frisch und ansprechend.

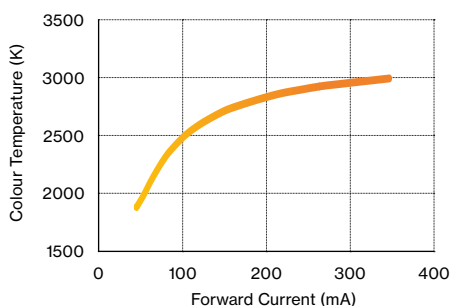
EN This defined-application light colour is ideal for the attractive presentation of deli goods, with its colour point located in the red region. By shifting the colour point, any hint of pale or fallow tones is ruled out. All delicatessen products, along with any white fibres contained in such, appear reddish, fresh and appealing.



Fresh Meat & Fish similar to 3500K | 4-step SCDM

DE Die Lichtfarbe FRESH MEAT & FISH mit ihrem Farbort im Rosa-Bereich empfiehlt sich für attraktive Frischfleisch-Präsentation. Rote, pinke und violette Farbanteile werden kräftig und frisch abgebildet. Durch die Verschiebung des Farbortes ist jeder Hauch von blass, fahl oder grünlich ausgeschlossen.

EN The light colour FRESH MEAT & FISH has its colour point located in the pink region and is recommended for the attractive presentation of fresh meats. Red, pink and violet colour components appear vibrant and fresh. By shifting the colour point, any hint of pale, fallow or greenish tones is ruled out.



Colour Warm Dimming

DE Mit der CWD-Option (Colour Warm Dimming) erfolgt bei einer Reduzierung der Lichtintensität gleichzeitig eine stufenlose Veränderung der Farbtemperatur von 3000K auf 1800K – ähnlich der Dimmcharakteristik einer Glühlampe. Die Reduzierung der Beleuchtungsstärke ermöglicht einen sehr warmen Farbton des Lichts. Diese Besonderheit ist derzeit bei SASSO MIDI verfügbar.

EN With the CWD option (Colour Warm Dimming), the light intensity is reduced while simultaneously enabling a smooth shift of the colour temperature from 3000K to 1800K – similar to the dimming characteristic of an incandescent lamp. The reduction of the illuminance allows the light to acquire a very warm tone. This special feature is currently available in the SASSO MIDI.

11



5

6

7

8

9

10

11

12

INDEX

ORDER CODE OVERVIEW

➔ 676

PHOTOGRAPHER OVERVIEW

➔ 680

ORDER CODE OVERVIEW

ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE
002-59990	629	005-3263#	426	006-10063	431	006-18067	394	007-1965168	406	007-9932010	635
002-59991	629	005-3263#	578	006-10093	431	006-1809#	381	007-1965168	434	007-9933010	635
002-59992	629	005-3264#	370	006-10123	431	006-1809#	388	007-1965240	374	007-9941010	635
002-59993	629	005-3264#	398	006-10153	431	006-1809#	389	007-1965260	406	007-9942010	635
002-59995	629	005-3264#	399	006-10233	431	006-1809#	398	007-1965260	434	007-9982010	404
002-59996	629	005-3264#	408	006-10303	431	006-1809#	399	007-1965348	374	007-9982010	404
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002-60105	340	005-3264#	578	006-1106#	422	006-1809#	380	007-1965368	434	007-9984010	432
002-60105	341	005-3265	370	006-1106#	423	006-1809#	394	007-4003#18S	467	007-9989110	404
002-60105	352	005-3265#	398	006-1106#	426	006-1812#	381	007-4006#18S	467	007-9989110	432
002-60105	353	005-3265#	399	006-1106#	416	006-1812#	388	007-63#2#7	374	014-0001#NL3	407
002-60133	629	005-3265#	408	006-1109#	417	006-1812#	389	007-63#3#7	374	014-0002#NL3	435
002-60134	629	005-3265#	426	006-1109#	422	006-1812#	398	007-63#4#7	374	014-0011#NL3	407
002-60140	629	005-3265#	578	006-1109#	423	006-1812#	399	007-63#5#7	374	014-0012#NL3	435
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004-90003	398	005-41166	480	006-14000	380	006-5305700	443	007-9042#6	405	029-01577	442
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ORDER CODE OVERVIEW

ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE
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049-1192117	121	052-1914420	31	052-4233####	185	053-548143#M	357	058-1183##7O	299	059-4890460J	475
049-1192217	119	052-1914420	33	052-4234####	185	053-552141#M	221	058-1184##7O	299	059-4890460P	475
049-12215###	557	052-1916610	39	052-4235####	185	053-558143#M	345	058-1185##7O	299	059-4890480H	475
049-12225###	557	052-1916610	41	052-4238####	185	053-558143#M	357	058-1188##7O	299	059-4890480J	475
049-17115###	119	052-1921327	25	052-4324#1##	186	053-564041#M	219	058-1233##7O	301	059-4890480P	475
049-17115###	215	052-1921420	213	052-4325#1##	186	053-574041#M	219	058-1234##7O	301	059-4890490H	475
049-171153##	215	052-1921420	215	052-4328#1##	186	053-6#221##M	565	058-1235##7O	301	059-4890490J	475
049-17125###	119	052-1921447	31	052-4332####	186	053-68225##M	565	058-1238##7O	301	059-4890490P	475
049-17125###	215	052-1921627	39	052-4332####A	193	053-7#21###	565	058-1238##7O	301	059-#31###P	265
049-171253##	215	052-1922326	25	052-4333####	186	053-7#22####	565	058-1283##7O	301	059-6299116	265
049-17215###	559	052-1922327	25	052-4333####A	193	053-7821####	565	058-1283##7O	301	059-6299117	265
049-17225###	559	052-1922328	25	052-4334####	186	053-7822####	565	058-1283##7O	301	059-6932####P	493
051-0913008	340	052-1922329	52	052-4334####A	193	053-8000####	89	058-2112#3#P	293	059-6934####P	495
051-0915008	341	052-192243#	213	052-4335####	186	053-8001####	89	058-2151#3#P	293	059-6982####P	493
051-0915008	340	052-192243#	215	052-4335####A	193	053-8030####	561	058-2152#3#P	293	059-6984####P	495
051-0917008	341	052-192244#	31	052-4338####	186	053-8031####	561	058-2212#3#P	295	059-6998161	265
051-0917008	340	052-192244#	31	052-4724#1##	185	053-8100####	89	058-2222#3#P	295	059-6998161	265
051-0923008	341	052-192244#	31	052-4725#1##	185	053-8101####	89	058-2251#3#P	295	059-6998163	265
051-0925008	341	052-192244#	31	052-4728#1##	185	053-8130####	561	058-2252#3#P	295	059-6998163	265
051-0927008	341	052-192262#	39	052-4732####	185	053-8131####	561	058-2261#3#P	295	059-6998164	265
051-0930008	341	052-192262#	39	052-4732####A	193	053-9001S###	89	058-2262#3#P	295	059-6998164	265
051-0940008	341	052-1931327	29	052-4733####	185	053-9015####	561	058-2910110.	295	059-6998165	265
051-0950000	341	052-1931447	33	052-4733####A	193	053-9101####	89	058-2910110.	295	059-6998165	265
051-0950000	35										

ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE	ORDER CODE	PAGE
060-02407	55	063-3258##70	133	071-8126###0	231	072-5188###0	253	088-233151#	617	386-072287	571
060-02417	57	063-32580370	133	071-8136###0	231	072-5256###0	255	088-234151#	617	386-072288	565
060-02427	59	063-3259##70	133	071-813603#0	231	072-5258###0	255	088-251051#	633	386-072288	569
060-02517	73	063-3266##7#	141	071-8137###0	231	072-5276###0	255	088-252051#	633	386-072288	571
060-02527	73	063-3267#17#	141	071-8138###0	231	072-5278###0	255	088-261051#	633	807-8523517#	432
060-02617	71	063-3276##7#	141	071-8139#1#0	231	072-5286###0	255	088-262051#	633	807-8523517#	432
060-02627	71	063-3277#17#	141	071-8146###0	231	072-5288###0	255	088-271051#	611	807-8524517#	432
060-02717	75	063-3286##70	142	071-814603#0	231	072-8136####	317	088-27205##	611	807-8532517#	432
060-02727	75	063-3287#170	142	071-8147###0	231	072-8137#1##	317	088-281##1DA	603	807-8533517#	432
060-02817	83	063-3526##7#	147	071-8148###0	231	072-8166####	317	088-2821#1D#	605	807-8534517#	432
060-02927	85	063-3546##7#	147	071-8149#1#0	231	072-8167#1##	317	088-2831#1#	607	807-9522517#	404
060-03017	87	063-3556##7#	147	071-8156###0	231	072-8176####	317	088-2891110	607	807-9523517#	404
061-99006	142	063-3566##7#	147	071-815603#0	231	072-8177#1##	317	088-2892110	605	807-9524517#	404
061-99007	142	063-5226##70	151	071-8157###0	231	072-8236####	323	088-2893110	603	807-9532517#	404
061-99008	142	063-5236##70	151	071-8158###0	231	072-8237#1##	323	088-5311515F	651	807-9533517#	404
062-41125	171	063-5246##70	151	071-8159#1#0	231	072-8266####	323	088-5321515F	651	807-9534517#	404
062-41145	171	063-5506##70	155	071-9#36##70	229	072-8267#1##	323	088-5351515#	653	848-2312####	25
062-41161	171	063-5526##70	155	071-9#360370	229	072-8277###0	323	088-5353515#	653	848-2312####	55
062-41325	171	063-5536##70	155	071-9#37##70	229	072-8277#1##	323	088-5361515#	653	848-2312####	61
062-41345	171	063-9126##70	157	071-9#38##70	229	072-891111#	318	088-5363515#	653	848-2312####	71
062-41361	171	063-9136##70	157	071-9#39#170	229	072-891161#	318	088-5390018	653	848-2312####	83
063-0022###F	99	063-9146##70	157	071-9#46##70	229	072-891171#	318	088-5621#16#	641	848-2322####	29
063-0030###F	101	063-9300010	165	071-9#460370	229	072-891231#	324	088-5610#160	641	848-2412####	31
063-0122###A	99	063-9326##70	165	071-9#47##70	229	072-891261#	324	088-5621#16#	643	848-2412####	57
063-0322###F	103	063-9336##70	165	071-9#48##70	229	072-891271#	324	088-5621#16#	643	848-2412####	65
063-0330###F	105	063-9346##70	165	071-9#49#170	229	072-892161#	318	088-5623516S	643	848-2412####	73
063-0422###A	103	063-95465370	169	071-9#56##70	229	072-892171#	318	088-5710#16#	645	848-2412####	79
063-0610017	99	063-95565370	169	071-9#560370	229	072-892261#	324	088-5710#160	645	848-2412####	85
063-0611017	101	063-95665370	169	071-9#57##70	229	072-892271#	324	088-5712#16#	645	848-2422####	33
063-0620017	99	063-9866##60	149	071-9#58##70	229	072-893131#	318	088-5721#16#	647	852-432451##	625
063-0621017	101	063-9867#160	149	071-9#59#170	229	072-893131#	324	088-5721#160	647	852-433251##	625
063-0630017	99	063-9876##60	149	071-9126##70	227	072-893161#	318	088-5722#16#	647	852-433351##	625
063-0631017	101	063-9877#160	149	071-9136##70	227	072-893161#	324	099-00200	149	852-433451##	625
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063-067101#	101	066-5009#	149	071-9139#170	227	072-894171#	324	386-01111##	578	852-473451##	625
063-068001#	99	066-5012#	149	071-9146##70	227	072-8951310	318	386-01111##	586	852-9321####	111
063-0710017	103	071-0110####	237	071-91460370	227	072-8951610	318	386-01121##	574	852-9341####	113
063-0711017	105	071-0120####	237	071-9147##70	227	072-8951710	318	386-01121##	578	852-9421####	111
063-0720017	103	071-0130####	237	071-9148##70	227	072-895231#	318	386-01121##	586	852-9441####	113
063-0721017	105	071-0131#1##	237	071-9149#170	227	072-895261#	318	386-01131##	574	856-1141#1#0	629
063-0730017	103	071-0140####	237	071-9156##70	227	072-895361#	318	386-01131##	578	856-1142#1#0	629
063-0731017	105	071-0141#1##	237	071-91560370	227	072-895371#	318	386-01131##	586	856-1143#1#0	629
063-076001#	103	071-0144####	237	071-9157##70	227	072-895431#	318	386-01141##	574	856-1144#1#0	629
063-076101#	105	071-0144####	237	071-9158##70	227	072-895461#	318	386-01141##	578	856-1145#1#0	629
063-077001#	103	071-0145#1##	237	071-9159#170	227	072-895471#	318	386-01141##	586	856-3124#0##	631
063-077101#	105	071-0145#1##	237	072-1#36####	249	080-2656##	569	386-01221#7	586	856-313251##	631
063-078001#	103	071-0160####	237	072-1#37#1##	249	080-2756##	569	386-01231#7	586	856-313351##	631
063-1506##70	171	071-0161#1##	237	072-1#38####	249	080-4000###A	571	386-01241#7	586	856-313451##	631
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063-2226##7#	137	071-0170####	238	072-1#4603##	249	086-30000	165	386-02032##	578	856-413351##	631
063-2230000	129	071-0171#1##	238	072-1#47####	249	086-30000	641	386-021011#	574	856-413451##	631
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063-2237#17#	137	071-0180####	238	072-1#56####	249	086-30000	647	386-02111##	574	863-2239##70	599
063-2238##70	129	071-0181#1#0	238	072-1#5603##	249	086-30000	651	386-02111##	578	863-2248##70	599
063-22380370	129	071-0184####	238	072-1#57####	249	086-30000	653	386-02111##	586	863-22480370	599
063-2238100	129	071-0185#1#0	238	072-1#58####	249	086-30009	613	386-02112##	586	863-2249##70	599
063-2238100	133	071-0190####	238	072-1#59#1##	249	086-30091	635	386-02113##	586	863-2258##70	599
063-2238100	599	071-0191#1#0	238	072-1126####	245	086-30091	641	386-02114##	586	863-22580370	599
063-2238100	601	071-0194####	238	072-1128####	245	086-30091	643	386-02115##	587	863-2259##70	599
063-2239##70	129	071-0195#1#0	238	072-1136####	245	086-30091	645	386-02116##	574	863-3238##70	601
063-2240000	129	071-0240####	241	072-1137#1##	245	086-30091	647	386-02116##	578	863-32380370	601
063-2240000	599	071-0241#1##	241	072-1138####	245	086-30091	651	386-02116##	587	863-3239##70	601
063-2246##7#	137	071-0244####	241	072-1139#1##	245	086-30091	653	386-02123##	586	863-3248##70	601
063-2247#17#	137	071-0245#1##	241	072-1146####	245	086-30092	613	386-02124##	586	863-32480370	601
063-2248##70	129	071-0260####	241	072-114603##	245	086-30092	635	386-02131##	574	863-3249##70	601
063-22480370	129	071-0261#1##	241	072-1147####	245	086-30092	641	386-02131##	578	863-3258##70	601
063-2248100	129	071-0264####	241	072-1148####	245	086-30092	643	386-02131##	586	863-32580370	601
063-2248100	133	071-0265#1##	241	072-1149#1##	245	086-30092	645	386-02141##	574	863-3259##70	601
063-2248100	599	071-0270####	241	072-1156####	246	086-30092	647	386-02141##	578	871-8126##70	595
063-2248100	601	071-0271#1##	241	072-115603##	246	086-30092	651	386-02141##	586	871-8136##70	595
063-2249##70	129	071-0274####	241	072-1157####	246	086-30092	653	386-02151##	587	871-813603#0	595
063-2250000	129	071-0275#1##	241	072-1158####	246	086-30126	645	386-021521#	587	871-8137##70	595
063-2250000	599	071-0280####	242	072-1159#1##	246	086-30166	647	386-021531#	587	871-8146##70	595
063-2258##70	129	071-0281#1#0	242	072-1176##0	246	086-30226	645	386-021611#	587	871-814603#0	595
063-22580370	129	071-0284####	242	072-1177#1#0	246	086-30266	647	386-021621#	587	871-8147##70	595
063-2258100	129	071-0285#1#0	242	072-1276##0	250	086-30305	645	386-0217110	587	871-8156##70	595
063-2258100	133	071-0290####	242	072-1277#1#0	250	086-30406	645	386-0217210	587	871-815603#0	595
063-2258100	599	071-0291#1#0	242	072-2103####	269	086-30456	647	386-0217310	587	871-8157##70	595
063-2258100	601	071-0294####	242	072-2113####	269	086-31126	641	386-0220117	586	871-9126##70	593
063-2259##70	129	071-0295#1#0	242	072-2133####							

PHOTOGRAPHER OVERVIEW

PAGE	PHOTOGRAPHER	PAGE	PHOTOGRAPHER
34–35	Egbert Krupp	498	Paul Ott
42–43	Joachim Grothus	510–511	Gerald Liebming
62–63	Fernando Alda	528–529	Walter Luttenberger
90–91	Joachim Grothus	544–545	Egon Gade
106–107	Ali Bekman	550–551	Egon Gade
114–115	Pez Hejduk	556–557	Dominik München
122–123	Paul Ott	564–565	Blocher Blocher View
130–131	André Walther	581	Dominik München
134–135	FG+SG	586–587	Dominik München
143	Bruno Helbling	636–637	Dominik München
152–153	Kurt Hörbst	648–649	Foto Augenblick
158–159	Dominik München		
166–167	Justine Szczepanczyk		
178–179	Paul Ott		
187	Werner Huthmacher		
200–201	Paul Ott		
206–207	Kurt Kuball		
216–217	Joachim Grothus		
222–223	a4L architects ZT		
234–235	Erich Sinzinger		
239	Paul Ott		
247	Jan Bitter		
251	Paul Ott		
256–257	Paul Ott		
266–267	Andreas Keller		
274–275	Paul Ott		
290–291	Adrian Bischoff		
296–297	Paul Ott		
304–305	Dominik München		
308–309	Martin Gfrerer Projects		
319	Thomas A. Berger		
320–321	Paul Ott		
325	Edit photographic		
334–335	Kurt Kuball		
348–349	Steve Wakeham		
360–361	Thomas Schauer		
368–369	Werner Huthmacher		
374–375	Spielmanns		
386–387	David Wakely		
397–398	Paul Ott		
402–403	Martin Kreuzer		
412–413	Paul Ott		
420–421	Sergey Ananiev		
429	Simon Bauer		
430–431	Uzi Porat		
446–447	Karant + Associates		
472–473	Paul Ott		
478–479	Egon Gade		
488–489	Adrian Bischoff		

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