

# PRODUCT PORTFOLIO

## 2019/2020



**ZUMTOBEL**



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Tracks and spots



1

Modular lighting systems



2

Downlights



3

Recessed luminaires



4

Surface-mounted and pendant luminaires



5

Free-standing and wall-mounted luminaires



6

Continuous-row systems and individual batten luminaires



7

High-bay luminaires



8

Luminaires with extra protection



9

Façade, media and outdoor luminaires



10

Lighting management



11

Emergency lighting



12



**SUPERSYSTEM** | integral collection

[zumtobel.com/supersystem](http://zumtobel.com/supersystem)





**SUPERSYSTEM integral collection**

The ultimate set of architectural lighting tools from

*highlights*

Edition 2/2018

**SUPERSYSTEM integral.**

It really is all in the name.



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Product portfolio

Zumtobel products signify light of perfect quality. They combine aesthetic grace, functionality and sustainability. The portfolio covers a range from high-quality spotlights and lighting systems, industrial and high-bay luminaires and façade lighting, to emergency lighting and lighting management systems. Zumtobel develops products for multi-farious application areas, in a harmonious combination of lighting quality and efficiency based on state-of-the-art technology.



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Tracks and spots



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Recessed luminaires



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Surface-mounted and pendant luminaires



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Free-standing and wall-mounted luminaires



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Continuous-row systems and individual batten luminaires



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High-bay luminaires



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Luminaires with extra protection



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Façade, media and outdoor luminaires



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Lighting management



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Emergency lighting



12

# Tracks and spots



## Museo Jumex, Mexico City | MX

Architecture: David Chipperfield Architects, London | UK

Lighting design: Arup, London | UK

Lighting solution: ARCOS, PANOS Q, PANOS infinity, DIAMO, SLOTLIGHT II, ZX2, LINARIA, SCUBA, CHIARO II, ONLITE, TUBILUX, MICROS, LUXMATE BASIC



## Spots

- 8 **ARCOS**
- 12 **IYON**
- 16 **DISCUS LED**
- 18 **VIVO**
- 22 **ONICO**
- 26 **FACTOR**

**DIAMO** *see section 3*

## Tracks

- 30 **3 Phasen/L3+ DALI**

Multifunctional lighting systems

**SUPERSYSTEM** *see section 2*

**INTRO** *see section 2*

Shelf lighting

**MICROTOOLS** *see section 2*







↑ **Museum Ton Schulten, Ootmarsum | NL**

Architecture: Architectenbureau Ronald de Baas, Hengelo;  
 Leferink Architecten BNA, Denekam | NL  
 Lighting design: Meutzner Licht Design, Woerden | NL  
 Lighting solution: ARCOS

↓ **Museo delle Culture (MUDEC), Milan | IT**

Architecture: David Chipperfield Architects, Milan | IT  
 Lighting design: Manens Intertecnica / Ove Arup & Partners, Milan | IT  
 Lighting solution: ARCOS, RESCLITE, PURESIGN, LUXMATE LITENET



# ARCOS

Sensitivity and high precision –  
the spotlight system for sophisticated lighting scenarios

ARCOS LED spotlights cannot fail to impress thanks to their minimalist design: available as LED wallwashers and LED ceiling spotlights, the luminaires perfectly combine pinpoint accent lighting and widearea illumination. With this integral lighting solution, nothing diverts attention from the objects on display – quite the contrary: special focus is placed on the exhibits, and the effects they create are enhanced by lighting and architecture. A further development of the conventional model, the ARCOS LED version is available with a variety of accessories. Thanks to exceptional colour rendering (Ra98) and a high level of

colour stability (SDCM 2), ARCOS LED is able to show the most varied of objects in the perfect light. Conservation requirements are also taken into account, for the UV- and IR-free light helps preserve the exhibits. Moreover, the use of innovative LED technology results in a considerable reduction in energy consumption, compared to the conventional generation. Despite all modifications, the popular purist design of the ARCOS spotlight has remained unchanged – as has its high level of flexibility.

*Design: David Chipperfield*

## ARCOS

A complete range for the perfect lighting of exhibits



**ARCOS 2 LED xpert**  
Bluetooth®



**ARCOS 2 LED xpert**  
stableWhite



**ARCOS 2 LED xpert**  
Projection spotlight



**ARCOS 2 LED xpert**  
with wallwasher attachment



**ARCOS 3 LED xpert**  
Bluetooth®



**ARCOS 3 LED xpert**  
stableWhite



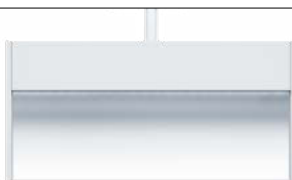
**ARCOS 3 LED**  
tunableWhite



**ARCOS 3 LED**  
Projection spotlight



**ARCOS 3 LED xpert liteCarve®**  
Wallwasher spotlight



**ARCOS WW LED**  
Linear wallwasher 15 W



**ARCOS WW LED**  
Linear wallwasher 30 W



	ARCOS 2 xpert Bluetooth®	ARCOS 2 xpert	ARCOS 2 xpert Projection	ARCOS 3 xpert Bluetooth®	ARCOS 3 xpert	ARCOS 3 tunableWhite	ARCOS 3 xpert Projection	ARCOS 3 xpert liteCarve®	ARCOS WW Linear wallwasher
<b>Distribution characteristics</b>									
■ Superspot	■	■	■	■	■		■		
■ Spot/medium spot	■	■	■	■	■	■	■		
■ Flood	■	■	■	■	■	■	■		
■ Wideflood	■	■		■	■				
■ Wallwasher								■	■
<b>Colour</b>									
White	■	■	■	■	■	■	■	■	■
Anthracite		■	■		■	■	■	■	■
<b>Installation</b>									
3-phase track	■	■	■	■	■	■	■	■	■
L3+DALI track	■	■	■	■	■	■		■	■
<b>Luminaire diameter</b>									
Ø 100 mm	■	■	■						
Ø 120 mm				■	■	■	■	■	
<b>Luminaire length</b>									
320 mm									■
620 mm									■
<b>LED</b>									
1/15 W (3000 K, 4000 K)									■
1/22 W (3000 K)	■	■	■						
1/22 W (4000 K)		■	■						
1/30 W (2700–6500 K)						■			
1/30 W Projection							■		
1/30 W (3000 K, 4000 K)									■
1/35 W (3000 K)				■	■			■	
1/35 W (4000 K)					■			■	
<b>Accessories</b>									
Projection attachment (lens, iris, outline)			■				■		
Interchangeable reflector	■	■		■	■	■			
Lenses (oval outline, rectangular, soft outline), films	■	■		■	■	■			
Honeycomb mesh	■	■		■	■				
Ring louvre				■	■				
Barn doors	■	■		■	■				



↑ **Vodafone Village, Milan | IT**

Architecture and lighting design: Dante O. Benini & Partner s Architects, Milan | IT  
 Lighting design: Studiebureau De Klerck Engineering, Bruges | BE  
 Lighting solution: IYON LED, MIROS, SLOTLIGHT, MELLOW LIGHT IV,  
 PANOS infinity, CARDAN LED, LUXMATE LITENET

↓ **Modehaus Oberrauch Zitt, Bolzano | IT**

Architecture: Arch. Waler Agonese, Caldaro (BZ) | IT  
 Lighting solution: IYON, TECTON TETRIS, VIVO, ARCOS, ONDARIA,  
 SUPERSYSTEM, ONLITE LOCAL, RESCLITE, PURESIGN



# IYON

Maximum LED efficiency in a sophisticated design

The design aspects of IYON suggest constant movement and liveliness as an interpretation of infinite mutability. The fluid interaction between object and medium conveys sensuality and a high level of functionality. Variable lighting scenes and targeted spatial positioning go hand in hand with the way in which the light source continuously transforms itself. Velvety-matt surfaces and a sophisticated design

hint at the function-focused, individually controllable lighting technology incorporated in this highly versatile spotlight.

*"The symbiosis of light direction and proportion as parameters of design affects people's sensory perception and at the same time determines the physiological sensation of a room's quality."*

*Design: Delugan Meissl Industrial Design*

## IYON LED

### Spots






**IYON S LED**  
Essential+ stableWhite



**IYON M LED**  
TGRfashion, Essential+ stableWhite



**IYON M LED**  
tunableWhite

	IYON S LED Essential+ stableWhite	IYON M LED Essential+ stableWhite TGRfashion	IYON M LED tunableWhite
<b>Distribution characteristics</b>			
 Spot	■	■	■
 Flood	■	■	■
 Wideflood		■	
<b>Colour</b>			
White matt	■	■	■
Black matt	■	■	■
<b>Installation</b>			
3-phase track	■	■	■
L3 + DALI track	■	■	■
<b>Luminaire diameter</b>			
Ø 100 mm	■		
Ø 120 mm		■	■
<b>TGRfashion</b>			
32 W (3000 K, Ra > 90) 2400 lm		■	
<b>Essential+ stableWhite</b>			
24 W (3000 K, 4000 K, Ra 90) 1900–2000 lm	■		
36 W (3000 K, 4000 K, Ra 90) 3100–3300 lm		■	
<b>tunableWhite</b>			
32 W (2600 K – 5300 K) 930 lm			■
<b>Accessories</b>			
Anti-glare ring	■	■	■
Oval outline lens 50°	■	■	■
Honeycomb mesh	■	■	■
Interchangeable Spot reflector	■	■	■
Interchangeable Flood reflector	■	■	■
Interchangeable Wideflood reflector		■	



↑ DOVE Store, Hamburg | DE  
Lighting solution: DISCUS evolution, PANOS infinity, SUPERSYSTEM



DISCUS evolution LED      DISCUS evolution LED E1

<b>Distribution characteristics</b>		
■ Spot	■	■
▲ Flood	■	■
▣ Wideflood	■	■
<b>Colour</b>		
White	■	■
Black	■	
<b>Installation</b>		
3-phase track	■	
L3 + DALI track	■	
<b>Recessed depth</b>		
to 100 mm		■
<b>Luminaire diameter</b>		
Ø 146 mm	■	■
<b>LED</b>		
32 W 1950 lm (3000 K / Ra92)	■	■
32 W 2100 lm (3000 K / Ra82)	■	■
32 W 2300 lm (4000 K / Ra82)	■	■
<b>Accessories</b>		
Anti-glare ring	■	■
Oval outline lens	■	■
Interchangeable spot optic	■	■
Interchangeable flood optic	■	■
Interchangeable wideflood optic	■	■





# DISCUS

## Spotlight system

State-of-the-art light sources inspire new peaks of performance and this is especially true of the DISCUS spotlight system. Its delicate but robust design is creatively inspired by cutting-edge LED technology: a flat, minimalist shape with an unmistakable appearance – characterised by the radial fins of the passive heatsink and its illuminated replaceable optic. It fulfils the exacting demands made on sales-promoting accent lighting with dependable accuracy and extremely good colour rendering (Ra 92). The new DISCUS LED-genera-

tion evolution achieves double the luminous flux and efficiency of its predecessor. The luminaire is dimmed on the actual spotlight itself or by DALI control commands, both these methods have a positive impact on energy consumption. The product range is rounded out by track-mounted models and recessed spotlights that blend unobtrusively into any interior design.

*Design: EOOS*



↑ **The Kooples, Berlin | DE**  
 Architecture: Brune Letellier, The Kooples, Berlin | DE  
 Lighting solution: VIVO, SUPERSYSTEM

↓ **Ceramiche Refin S.p.A, Casalgrande | IT**  
 Lighting solution: VIVO LED, SLOTLIGHT II





# VIVO

The flexible versatility of light:  
spotlight system with LED technology

Professional lighting is gentle on sensitive goods and also boosts sales. LED luminaires achieve the same lighting quality as metal halide lamps but produce less IR and UV radiation. VIVO LED spotlights stand out thanks to their high colour rendering index and extremely uniform light distribution.

For every lighting concept, the right light colours, colour temperatures and illuminance levels are available. Unique PiLED technology, pre-programmed colour points and premium

lens systems pave the way for implementing exclusive solutions.

*"The quest for intuitive images characterises the way in which EOOS works. VIVO blends the archetypal cylindrical shape of a spotlight with design details inspired by reinterpreting a turbine. Effective airflow management, which is especially important for LED technology, actually becomes an unobtrusive but significant design feature."*

Design: EOOS

## VIVO

### Spotlight system



#### VIVO XS LED

LED spotlight with reduced dimensions and passive cooling. Due to excellent colour rendering, adequate alternative to conventional solutions using LV halogen lamps.



#### VIVO M LED

Compact, dimmable spotlight with passive cooling that is able to impress thanks to its efficiency, good glare control and excellent colour rendering. Perfect alternative to conventional systems using 35 W metal halide lamps.






#### VIVO L LED

High-output spotlight with passive cooling that boasts high luminous flux levels, excellent colour rendering and variable light colours. Innovative alternative to solutions using up to 70 W metal halide lamps.



#### VIVO-SL LED

Semi-recessed directional spotlight for suspended ceilings.

	VIVO XS LED	VIVO M LED	VIVO L LED	VIVO-SL LED
<b>Distribution characteristics</b>				
 Spot	■	■	■	■
 Flood	■	■	■	■
 Wideflood		■	■	■
<b>Colour</b>				
White	■	■	■	■
Black	■	■		
Silver	■	■	■	
<b>Ceiling cutout</b>				
150 mm round				■
150 mm square				■
<b>Installation</b>				
Recessed/semi-recessed				■
3-phase track	■	■	■	
L3 + DALI track	■	■	■	
TECTON continuous-row lighting system		■	■	
<b>Recessed depth</b>				
min. 100 mm				■
<b>LED</b>				
36 W TGRfashion		■		■
32 W Tunable Food Colour			■	
24 W Essential stableWhite (2700–2800 lm)		■		■
36 W Essential stableWhite (4000–4100 lm)		■		
60 W Essential stableWhite (5600–5800 lm)			■	
20 W Essential+ stableWhite (1300–1400 lm)	■			
24 W Essential+ stableWhite (2100–2300 lm)		■		■
36 W Essential+ stableWhite (3100–3300 lm)		■		
60 W Essential+ stableWhite (4600–4800 lm)			■	
<b>Accessories</b>				
Interchangeable reflector	■	■	■	■
Barn doors/anti-glare ring	■	■	■	■
Soft outline and oval outline lenses		■		■
High-contrast visor		■		





# ONICO

Luminaire family for configuring individual lighting solutions in a consistently clear design

## Variable lighting tools in a uniform design

Regardless of whether track, ceiling-recessed or pendant – with ONICO, it's easy to design technically consistent lighting solutions for retail areas with suspended or closed ceilings. Thanks to simple styling and through integrated operating units, these concepts are also suitable for global application. LED modules and reflectors are selected simply according to the required light properties from the modular design. Special designs in customised colours open up additional possibilities for personalisation.

*"ONICO emerged from a passion for technology and design. The unique product family gives every designer the freedom to shape their own range of luminaires with suitable LED light sources and high-performance reflectors. By adjusting the beam angle and luminous flux, perfection can be achieved in all applications. Clear and focused shapes enable the luminaires to discreetly act in diverse environments – with the possibility to subtly illuminate the surroundings. ONICO serves a diverse number of markets, among them sales, and presents itself as a versatile lighting tool for designers who want to consistently surpass expectations."*

*Design: LAPD lighting design,  
Steve Dean and Glenn Campion*

## ONICO

### Uniform variety

#### LED spotlight



##### ONICO M

Compact, passively cooled LED spotlight with integrated converter: Excellent efficiency, glare suppression and colour rendering distinguish ONICO M as the perfect alternative to conventional lighting systems with 20 W metal halide lamps.

##### ONICO M intrack

In line with the idea of uniform variety, ONICO M intrack further extends this luminaire family – with the same high performance as the L version. All components are tucked away in the track to make sure that no converter box compromises the clear design concept.

##### ONICO L

Efficient, passively cooled LED spotlight with integrated converter: The high luminous flux, best colour rendering and variable light colour define ONICO L as an innovative alternative to lighting solutions with 35 W – 50 W metal halide lamps.

#### LED recessed spotlight



##### ONICO-S M

Compact, passively cooled LED recessed spotlight with innovative tilt action: Replaces conventional systems with 20 W metal halide lamps.

##### ONICO-S L

Efficient, passively cooled LED recessed spotlight with innovative tilt action: contemporary alternative to lighting solutions with 35 W – 50 W metal halide lamps.

#### Pendant luminaires



##### ONICO M pendant

Compact, passively cooled pendant luminaire with integrated converter: Special features include the clear shape and the possibility to subtly illuminate surroundings. Replaces conventional systems with 20 W metal halide lamps.

##### ONICO L pendant

Efficient, passively cooled pendant luminaire with integrated converter: Straight, discreetly bright alternative to lighting systems with 35 W to 50 W metal halide lamps.

	ONICO M	ONICO M intrack	ONICO L	ONICO-S M	ONICO-S L	ONICO M pendant	ONICO L pendant
<b>Distribution characteristics</b>							
■ Spot 13°/11°	■	■	■	■	■	■	■
▲ Flood 25°	■	■	■	■	■	■	■
▤ Wideflood 39°/40°	■	■	■	■	■	■	■
<b>Colour</b>							
White matt	■	■	■	■	■	■	■
Black matt	■	■	■	■	■	■	■
Silver matt		■					
<b>Installation</b>							
L3+DALI track	■	■	■				
TECTON trunking	■	■	■				
Ceiling mount				■	■		
Pendant installation						■	■
<b>Ceiling section</b>							
Ø 150 mm				■			
Ø 190 mm					■		
<b>Luminaire diameter</b>							
Ø 95 mm	■	■		■		■	
Ø 132 mm			■		■		■
<b>LED</b>							
20 W Essential stableWhite (3000 K, 4000 K / Ra > 80) 2000–2400 lm	■			■		■	
24 W Essential stableWhite (3000 K, 4000 K / Ra > 80) 2700–2800 lm		■	■		■		■
36 W Essential stableWhite (3000 K, 4000 K / Ra > 80) 4000–4100 lm		■	■		■		■
20 W Essential+ stableWhite (3000 K, 4000 K / Ra > 90) 1800–1900 lm	■			■		■	
24 W Essential+ stableWhite (3000 K, 4000 K / Ra > 90) 2100–2300 lm		■	■		■		■
36 W Essential+ stableWhite (3000 K, 4000 K / Ra > 90) 3100–3300 lm		■	■		■		■
20 W SCR (3000 K / Ra > 98) 1400 lm	■			■		■	
27 W SCR (3000 K / Ra > 98) 2400 lm		■	■		■		■
36 W SCR (3000 K / Ra > 98) 2800 lm		■	■		■		■
20 W TGRfashion (3000 K) 1600 lm	■			■		■	
36 W TGRfashion (3000 K) 2400 lm		■	■		■		■
36 W TGRfood (meat, pastries) 2000–2300 lm		■	■		■		■
<b>Accessories</b>							
Reflector	■	■	■	■	■	■	■
Alignment tool	■	■		■			



ONICO M spotlight  
with alignment tool







↑ **BÖ-Fashion Bödeker, Speyer | DE**  
Lighting solution: FACTOR, CRAFT, LITECOM

↓ **Interspar Vienna Hauptbahnhof | AT**  
Architecture: Atelier Architekt Dipl. Ing. Bernhard Bügelmayr ZT GmbH,  
Dornbirn | AT  
Lighting solution: FACTOR, TECTON LED, SLOTLIGHT II





# FACTOR

## LED spotlight

Zumtobel has added FACTOR, a modular LED spotlight, to its product range for shops and retail areas. FACTOR combines reduced complexity with great lighting quality and is available in two design versions: its conical and cylindrical housing provides plenty of creative scope for implementing retail lighting solutions. It is installed on a 3-phase track or via TECTON, thus ensuring flexibility:

if the shop design needs to be modified, the FACTOR spotlights can easily be repositioned. FACTOR is optionally available in a warm (3000 K), intermediate (4000 K) colour temperature or as TGRfood version to ensure a presentation that matches specific merchandise.

*Design: EOOS*

**FACTOR**

## LED spotlight



**FACTOR conical**  
white matt






**FACTOR cylindrical**  
white matt



**FACTOR conical**  
black matt



**FACTOR cylindrical**  
black matt

	FACTOR conical	FACTOR cylindrical
<b>Distribution characteristics</b>		
 Spot	■	■
 Flood	■	■
 Wideflood	■	■
<b>Colour</b>		
White matt	■	■
Black matt	■	■
<b>Installation</b>		
3-phase track	■	■
<b>Essential stableWhite</b>		
24 W (3000 K, 4000 K, Ra > 80) 2700–2800 lm	■	■
36 W (3000 K, 4000 K, Ra > 80) 4000–4100 lm	■	■
<b>TGRfood*</b>		
36 W (baked goods)	■	
36 W (cold meat)	■	
* TrueGamutRendering		

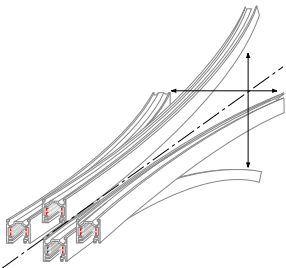
Tracks

Ordering details for curved tracks (standard section)

The minimum bend radius is 1000 mm. Bending in any direction is possible. The following information is required in addition to type of track and colour:

- Angle of bend (arc of circle)
- Circle segment with specified angle
  - Minimum bend radius 1000 mm
  - The outside is always the reference side when measuring the bend radius
  - Special shapes can only be bent using 1:1 templates

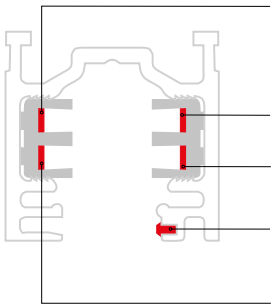
DALI tracks can also be bent.  
Spotlights with *track box adapter*, e.g. VIVO models, cannot be installed in curved tracks.



Possible bending directions with manufacturing tolerances are patterned on DIN ISO 2768

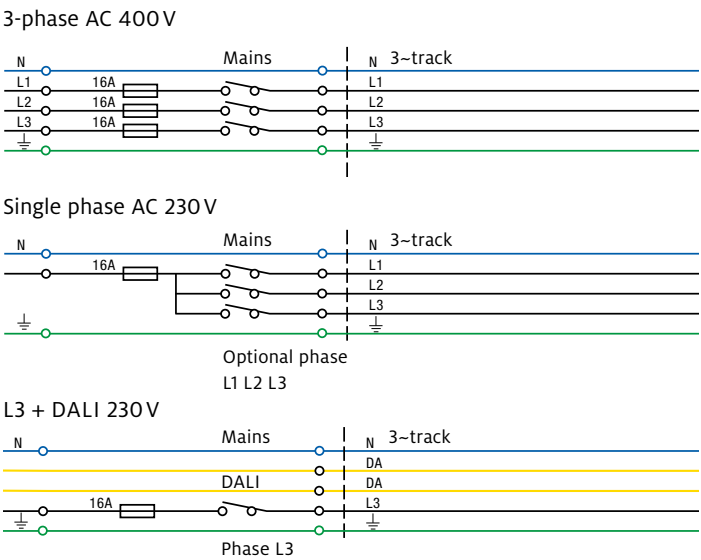
Structure of a track

Depending on the adapters and electrical feeds used, the 3-phase track can be used both as a conventional and as a DALI track.



- Cable 1 can be used as phase or DALI control line
- Cable 2 can be used as phase or DALI control line
- Cable 3 used as phase
- Earth
- Neutral conductor

Electrical power connection





3-phase/L3 + DALI track

3-phase/L3 + DALI track  
with support section**Track modules**

End feed	■	■
Central feed	■	■
Connector	■	■
Angle connector	■	■
T-connector	■	■
Cross connector	■	■
Flexible connector	■	■
End caps	■	■

**Track colours**

White	■	■
Titanium	■	■
Black	■	■

**Accessoires**

Pendant tube suspension	■	■
Cord suspension	■	■
Decorative hook	■	■
Pendant adapter	■	■
Adapter with socket	■	■
Point outlet, surface-mounted	■	
Point outlet, recessed	■	

# Modular lighting systems




## **Computer Gross, Empoli | IT**

Architecture: Alessandro Alderighi, Empoli | IT

Lighting solution: SUPERSYSTEM, MELLOW LIGHT V LED, PANOS infinity,  
FD 1000 LED, SLOTLIGHT LED, TECTON, RESCLITE, CROSSIGN,  
LUXMATE LITENET





Multifunctional lighting systems

34 **CARDAN evolution**

38 **SUPERSYSTEM**

44 **SUPERSYSTEM integral collection**

50 **INTRO**

Shelf lighting

54 **MICROTOOLS**



The architectural CARDAN evolution recessed luminaire blends exceptional flexibility with an unobtrusive look, setting new standards in cardanic accent lighting and raising retail experiences to a whole new level. In contrast to conventional cardanic solutions, CARDAN evolution cleverly manages to avoid illuminating itself. Combined with the subtle closed design, this results in a much calmer ceiling appearance with increased efficiency.



#### Conventional cardanic solution

Tilting the luminaire head means that a significant amount of light is directed towards the fitting itself.



#### CARDAN evolution

A tilt angle of up to 20 degrees can be achieved without the luminaire illuminating itself, supporting a calm ceiling appearance and improved efficiency.





# CARDAN evolution

Setting new standards in accent lighting

Creating the perfect retail light tool is far from easy. While the goods on display have to appeal to one customer type, the solution illuminating them needs to satisfy the diverse tastes and requirements of various target groups. This demands a fine blend of design, performance and flexibility – which is where CARDAN evolution really comes into its own.

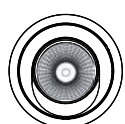
This recessed architectural range combines a modern look with the latest LED technology to deliver classic cardanic accent lighting that shapes stimulating retail experiences. The smooth transition from ceiling to spotlight and the absence of a shadow gap between the lamp unit and the frame help CARDAN evolu-

tion overcome the problems of traditional cardanics, ensuring a calm appearance that prevents users seeing into the ceiling.

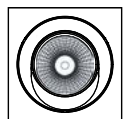
Yet design is only part of the story. A modular toolbox full of different shapes, sizes, configurations, light colours and accessories meets the needs of every retail application. New optics offer a greater pivot angle or an especially wide light beam for enhanced vertical illumination. Unrivalled efficacy and colour quality come as standard, while the pioneering lightgroove avoids disturbing glare to ensure outstanding visual comfort – for every shopper in every store.

## CARDAN evolution

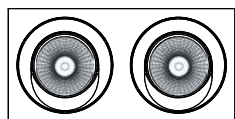
### Overview



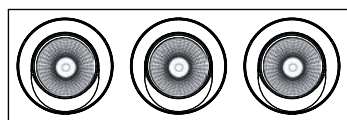
Round frame



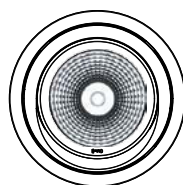
Square frame



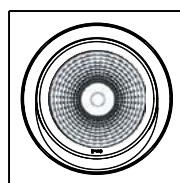
Twin-unit frame



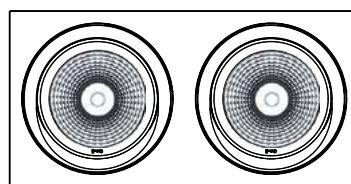
Triple-unit frame



Round frame



Square frame



Twin-unit frame

### CARDAN evolution M





The classic simple design integrates harmoniously into a wide variety of architectural settings. At the same time, the comprehensive modular system with several designs and an extensive range of accessories guarantees outstanding flexibility. All this makes CARDAN evolution M a multifunctional lighting tool that, with excellent colour rendering and different light distributions, helps broaden the creative scope in various applications.



### CARDAN evolution L

Even when greater lumen packages are required, CARDAN evolution offers just the right solution. Higher luminous fluxes and precise lighting technology enable CARDAN evolution L to span greater distances. Car showrooms, exhibition halls in industrial buildings and other display areas or retail spaces with high ceilings can therefore always be showcased effectively.



	CARDAN evolution M	CARDAN evolution L
<b>Distribution characteristics</b>		
 Spot	■	■
 Flood	■	■
 Wideflood	■	■
 Vertical optic	■	
<b>Installation</b>		
Installation frame single, black/white	■	■
Installation frame double, black/white	■	■
Installation frame triple, black/white	■	
Installation ring, black/white	■	■
<b>Mounting depths</b>		
170 mm	■	
270 mm		■
<b>Luminaire diameter</b>		
Ø 131 mm	■	
Ø 211 mm		■
<b>LED</b>		
1800 lm (3000 K / Ra90)	■	
1900 lm (3500 K / Ra90)	■	
2000 lm (4000 K / Ra90)	■	
2100 lm (3000 K / Ra90)	■	
2200 lm (3000 K / Ra90)	■	
2200 lm (3500 K / Ra90)	■	
2300 lm (4000 K / Ra90)	■	
2500 lm (3000 K / Ra90)	■	
2600 lm (3000 K / Ra90)	■	
2700 lm (3500 K / Ra90)	■	
2800 lm (4000 K / Ra90)	■	
3100 lm (3000 K / Ra90)	■	
3200 lm (3500 K / Ra90)	■	
3300 lm (4000 K / Ra90)	■	
7300 lm (4000 K / Ra90)		■
7400 lm (4000 K / Ra90)		■
<b>Accessories</b>		
Interchangeable reflector - Spot	■	■
Interchangeable reflector - Flood	■	■
Interchangeable reflector - Wideflood	■	
Foil with Very Wideflood light distribution	■	
Vertical optic	■	
Bending optic	■	
Soft-outline lens	■	
Oval-outline lens	■	
Protective glass	■	
Attachment IP54 protection glass	■	
Honeycomb louvre	■	
Anti-glare cylinder	■	



↑ **Vorarlberg Museum, "ganznah" exhibition, Bregenz | AT**  
 Architecture: Cukrowicz Nachbaur Architekten, Bregenz | AT  
 Lighting planning: conceptlicht at, Manfred Draxl, Mils | AT  
 Lighting solution: SUPERSYSTEM

↓ **GEOX Flagship Store, London | UK**  
 Architecture: Puresang, Barcelona | ES  
 Lighting solution: SUPERSYSTEM, LUXMATE BASIC, LUXMATE DAYLIGHT,  
 LUXMATE LITENET, LITECOM



# SUPERSYSTEM

First class. Linear. Everlasting.

A system establishes itself as a lighting tool for all facets of architectural lighting. An interdisciplinary approach to properties and space. From even surfaces to lively accents. Both horizontal and vertical. Always compact, elegant and extremely flexible. And so freedom becomes a pleasure for the lighting designer – no matter what kind of challenges the architecture or application pose.

SUPERSYSTEM fulfils the various demands made on lighting, not just in shops and retail or museums and galleries, but also in hotels and restaurants, conference rooms, or in the private sector where high quality, elegance and functionality are in harmony with the Zeitgeist. Ideal for general lighting, accent lighting and for wall washing, SUPERSYSTEM offers a solid base of uniform styling for a coordinated lighting solution in any space.

[zumtobel.com/supersystem](http://zumtobel.com/supersystem)



reddot award 2016  
best of the best





## SUPERSYSTEM

### Accent lighting made to measure

#### Luminaires for low-voltage tracks

SUPERSYSTEM LED mini spotlight

SUPERSYSTEM LED mini wallwasher



Perfected for precise accentuation: Miniature spotlights with different diameters, luminous flux and colour temperatures. The film in the front ring covering the lens can be swapped out, so the rotationally symmetrical light distribution can be changed from superspot to wideflood and even to oval. The precisely balanced combination of LED chip, primary glass lens and secondary lens film ensures even lighting without any light scatter. Highest light quality is achieved by combining excellent colour rendering  $R_a > 92$  and extremely closely colour matched LEDs (SDCM2). Regardless of the design, the elegantly designed spotlights can be dimmed via DALI or a potentiometer.

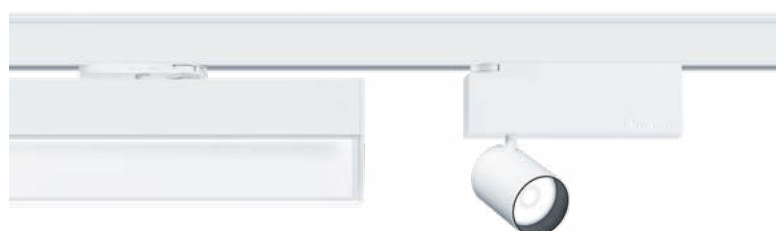
#### Luminaires for high-voltage tracks with 3 phases

Adapted SUPERSYSTEM spotlights and wallwashers can be easily integrated into standard tracks - without any compromise in terms of technical lighting performance. The renewal of a track system is therefore possible with just a few simple steps.

On the 3-phase track:

SUPERSYSTEM LED midi wallwasher

LED midi spotlight



SUPERSYSTEM LED midi spotlight

SUPERSYSTEM LED maxi spotlight

SUPERSYSTEM LED midi framing spotlight



### LED downlight and built-in spotlight

In addition to the benefits of a track spotlight – from the flexible orientation to the high lighting quality, to the application-specific illuminance – the built-in spotlight also scores points for its reduced ceiling appearance. Depending on the different varieties of casing, the spotlight has

a wide movement range and can be completely tilted inwards and outwards. Three spotlight sizes, as well as assembly options with and without a frame, ensure that this lighting tool has perfect creative freedom, covering a wide spectrum of areas of use.

SUPERSYSTEM LED built-in spotlight midi  
downlight position

partly tilted out



completely tilted out



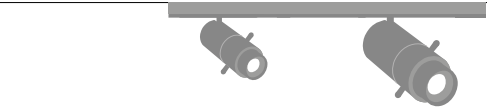
**SUPERSYSTEM**  
Surface-mounted and  
pendant luminaires

**Low-voltage 48 V DC track**  
U and H profile

**Accent lighting spot**



Mini spotlight D26 3 W, 5 W    Midi spotlight D45 8 W    Maxi spotlight D65 15 W, 22 W



Contour spotlight midi D45, 8 W    Contour spotlight maxi D65, 15 W

**Wallwashing**



Mini wallwasher, 11 W    Midi wallwasher, 11 W

**Light line**



LEDline U, 11 W    LEDray U, 11 W    LEDline H direct/indirect 11 W

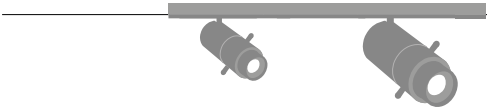
**SUPERSYSTEM**  
Recessed luminaires

**Low-voltage 48 V DC track**  
U profile

**Accent lighting spot**



Mini spotlight D26 3 W, 5 W    Midi spotlight D45 8 W    Maxi spotlight D65 15 W, 22 W



Contour spotlight midi D45, 8 W    Contour spotlight maxi D65, 15 W

**Wallwashing**



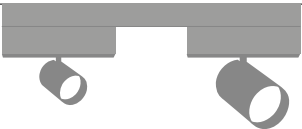
Mini wallwasher, 11 W    Midi wallwasher, 11 W

**Light line**

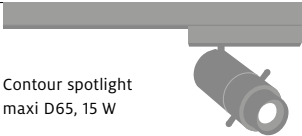


LEDline U, 11 W    LEDray U, 11 W

**3-phase AC track**  
U and H profile



Midi spotlight D45 11 W      Maxi spotlight D65 15 W, 22 W



Contour spotlight maxi D65, 15 W

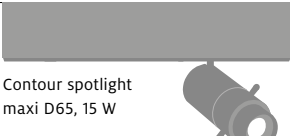


Midi wallwasher, 11 W

**3-phase track AC channel**  
U and H profile

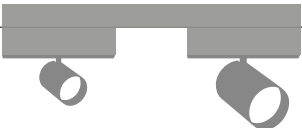


Midi spotlight D45 11 W      Maxi spotlight D65 15 W, 22 W

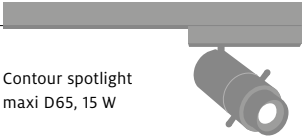


Contour spotlight maxi D65, 15 W

**3-phase AC track**  
U profile



Midi spotlight D45 11 W      Maxi spotlight D65 15 W, 22 W



Contour spotlight maxi D65, 15 W



Midi wallwasher, 11 W

**3-phase track AC channel**  
U profile



Midi spotlight D45 11 W      Maxi spotlight D65 15 W, 22 W



Contour spotlight maxi D65, 15 W

**Stand-alone**



Built-in spotlight mini D26, 3 W, 5 W      Built-in spotlight midi D45, 8 W



Built-in spotlight maxi D65, 15 W, 22 W







# SUPERSYSTEM integral collection

Seamless and linear

## Integral.

### Because everything fits together perfectly.

Each individual luminaire fits the dimensions of the track. Fixed, rotatable and pivotable – the difference is hardly visible on the outside. Even the wallwasher blends discreetly into the system. High-quality surfaces complete the minimalist look, which nevertheless offers a high degree of personalisation. Luminaires and base reflectors can be combined in any colour.

*"The comprehensive planning tool is based on the poetic idea of stringently miniaturising the spotlight heads, enabling them to be perfectly integrated into a continuous linear structure. The system magically emits light from a slender groove as a recessed or track fitting. SUPER-SYSTEM integral even makes it possible to adapt existing track installations, which improves efficiency and saves resources – and helps this system make an important contribution as a sustainable design solution."*

*Design: Harald Gründl, EOOS*

## SUPERSYSTEM integral collection

Nomen est omen

1

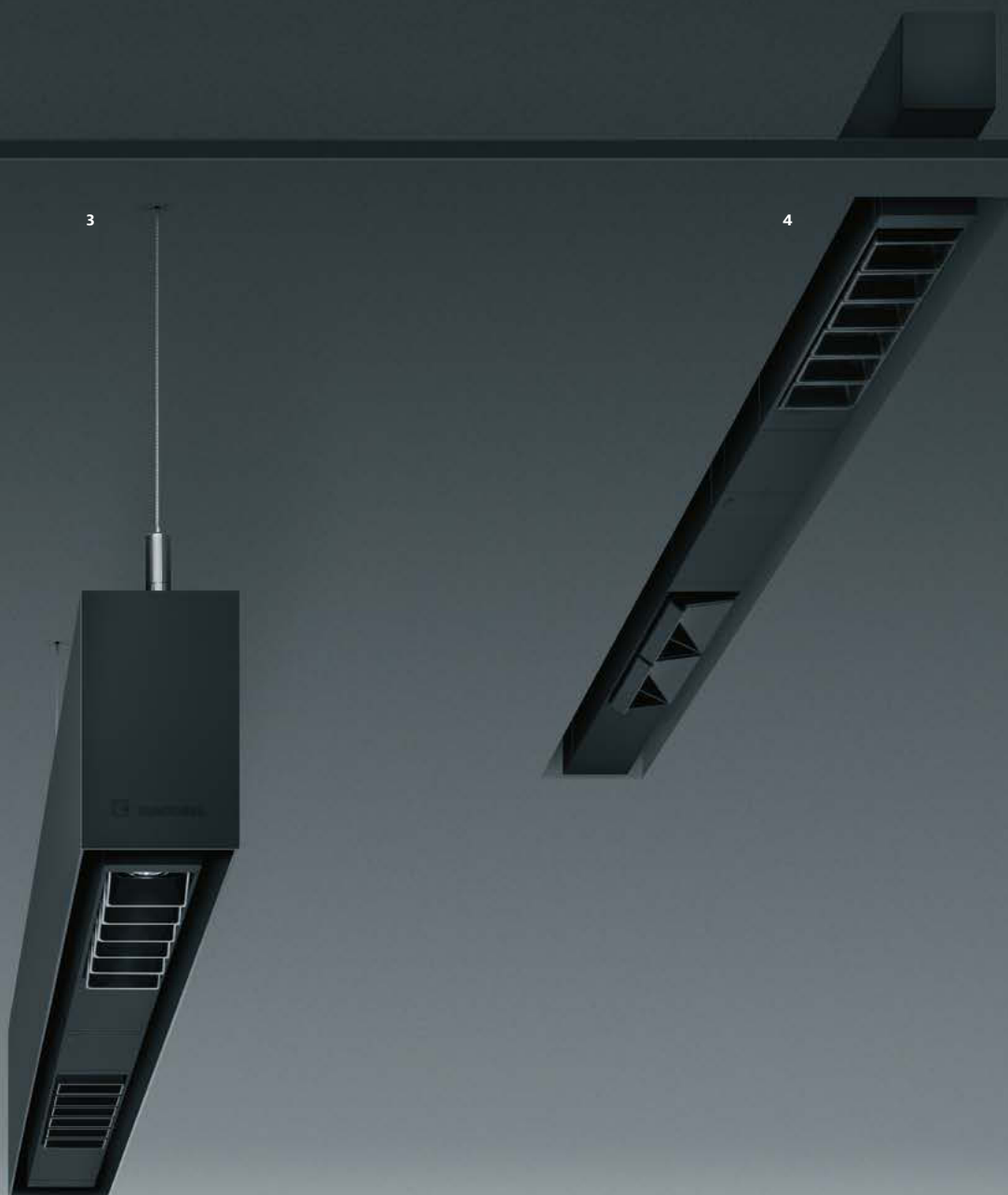


2



### **Integral. Because variety integrates perfectly into architecture.**

The defining feature of the entire product group is seamless linearity – regardless of whether SUPERSYSTEM is used integrally as a single luminaire or installed on a track. Surface-mounted, built-in or pendant. Even with a channel, if required. And for the first time, this solution can be used for all types of lighting, from horizontal to vertical, from indirect to accent lighting.



**1 Built-in**  
Stand-alone

**2 Surface-mounted**  
3-phase track

**3 Pendant**  
3-phase track  
with channel cover

**4 Built-in**  
3-phase track  
in a channel

**SUPERSYSTEM integral collection**  
Surface-mounted and  
pendant luminaires

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Accent lighting  
Synchro Gimbal

---

Horizontal lighting  
Downlights

---

Indirect lighting

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Wallwashing

**SUPERSYSTEM integral collection**  
Recessed luminaires

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Accent lighting  
Synchro Gimbal

---

Horizontal lighting  
Downlights

---

Wallwashing

**3-phase AC track**  
U and H profile

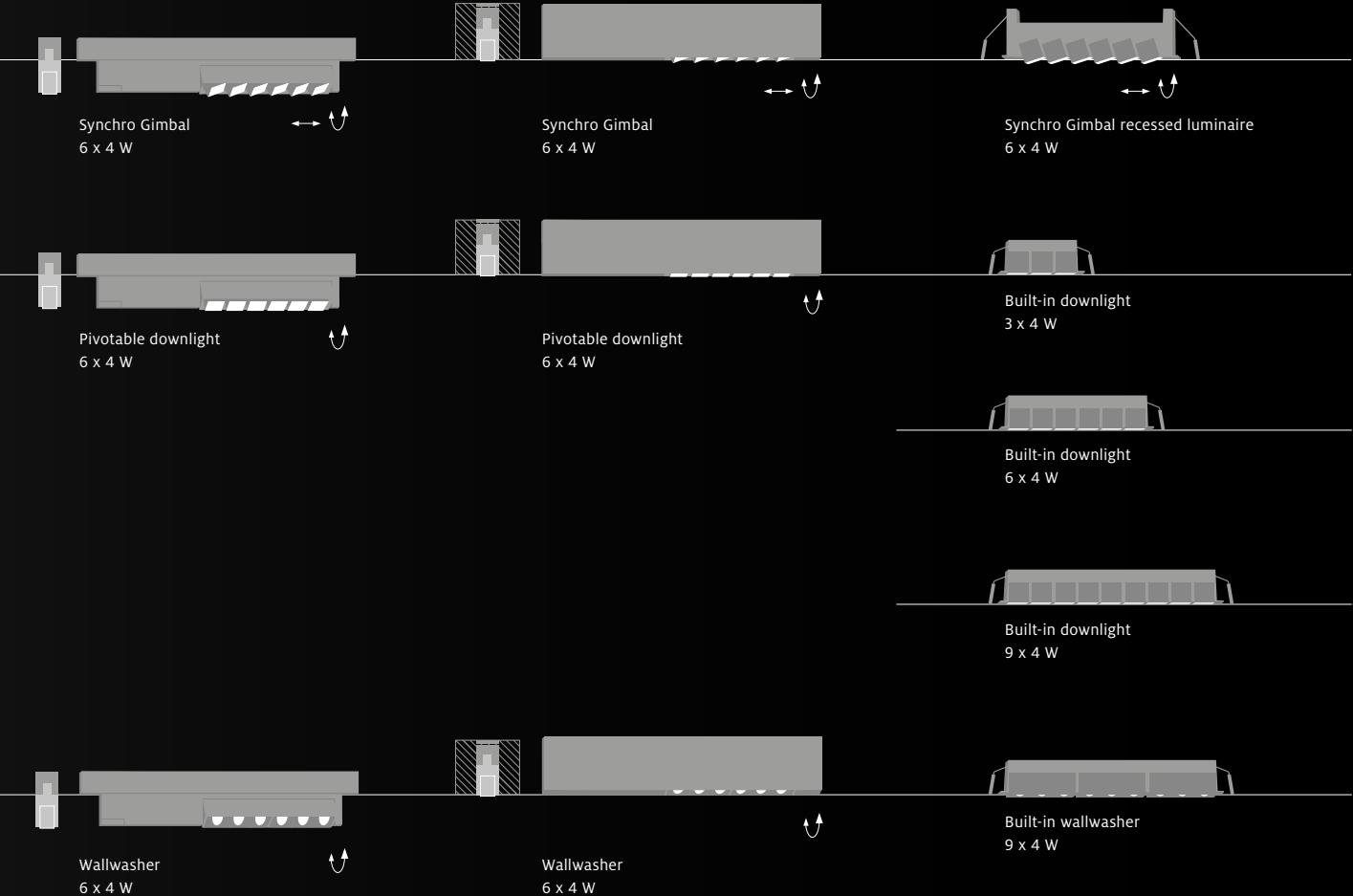
**3-phase track AC channel**  
U and H profile



**3-phase AC track**  
U profile

**3-phase track AC channel**  
U profile

**Stand-alone**







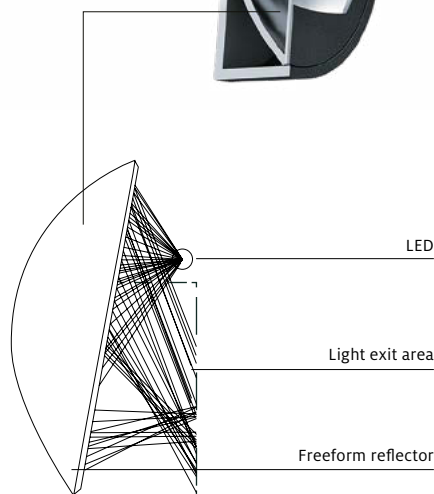
↑ **BMW Gregoir, Puurs | BE**

Architecture: Lecharny & Bertrand Architects, Wilrijk | BE

Lighting solution: INTRO M, SLOTLIGHT II LED, PANOS evolution, PANOS infinity, DIAMO LED, TECTON LED, VIVO L LED, PURESIGN, RESCLITE, LITECOM, Thorn Aquaforce II



INTRO liteCarve® | 53 W



**liteCarve®**  
**Reflector technology incorporated in the**  
**INTRO system**

The freeform reflector provides highly precise and balanced light distribution, right up to the peripheries. The reflector is fitted in front of an LED point light source and directs the light, 100% indirectly, onto the vertical surfaces in a targeted manner. This means that not only displays can be illuminated uniformly and efficiently but also shelves, large-format posters, recesses or wall areas that need to be highlighted. As a track-mounted version, the liteCarve® spotlight provides additional flexibility due to the lighting head that can be pivoted downwards through 40°.

INTRO liteCarve®  
installed on track





# INTRO

## Modular LED lighting system

Designed to impressively set any store centre stage and perform a wide variety of lighting tasks, the INTRO lighting system includes four luminaire models in a consistent design: INTRO M and INTRO S for light that creates accents. INTRO PANOS infinity for light that efficiently provides brightness in the room. INTRO lite-Carve® for light that not only ensures uniform illumination to vertical surfaces but also produces a rectangular lighting cone. The luminaire range is completed by INTRO






RESCLITE emergency luminaires for use in emergencies. Despite the consistent design and variety of technical lighting features, every INTRO lighting solution provides maximum creative design scope: the components – mounting frame, lighting insert through to front ring – can be assembled individually. In this way, variability and flexibility meet at the highest level.

*Design: Chris Redfern, Sottsass Associati*

# INTRO

## System overview

The right light for any retail area;  
perfect design meeting any customer requirements.

	INTRO accent spotlight	INTRO liteCarve® spotlight for vertical surfaces	INTRO RESCLITE	INTRO PANOS infinity mounting frame R100	INTRO PANOS infinity mounting frame R150
<b>Distribution characteristics</b>					
 Spot	■				
 Flood	■		■		
 Wideflood	■			■	■
 Swivelling	■	■			
 Vertical flood		■			
<b>Colour</b>					
White	■	■	■	■	■
Black	■	■	■	■	■
<b>Luminaire modules</b>					
Module unit, size S	■			■	
Module unit, size M	■	■	■		■
Fully assembled round luminaire, configurable, size S	■				
Fully assembled round luminaire, configurable, size M	■				
Track-mounted spotlight		■			
Fully assembled R1 luminaire *	■				
Fully assembled Q1 luminaire *	■				
Fully assembled Q2 luminaire *	■				
<b>LED</b>					
Stable food bakery	■				
Stable food fresh meat	■				
2700 K / Ra 90	■			■	
3000 K / Ra 80	■	■			
4000 K / Ra 80	■	■			
3000 K / Ra 90	■	■		■	■
4000 K / Ra 90	■	■		■	■
<b>Accessories</b>					
Front ring **	■	■			
Replaceable reflectors	■				
Blanking cover	■	■	■	■	■
Offset frame	■	■	■	■	■
Cover		■			
Cover ring	■				

\* pre-assembled mounting frame  
\*\* white, black, chrome, matt silver, copper



**INTRO S Q1**

Miniaturised, efficient LED accent spotlight

Lighting head: Ø 70 mm, black with black front ring

**INTRO S Q2**

Miniaturised, efficient LED accent spotlight

Lighting head: Ø 70 mm, black with black front ring

**INTRO S Q3**

Miniaturised, efficient LED accent spotlight

Lighting head: Ø 70 mm, black with black front ring

**INTRO-R S**

Round complete luminaire, configurable

Lighting head: Ø 70 mm, ceiling cut-out: Ø 130 mm, black with black front ring

**INTRO M Q1**

Brilliant LED accent spotlight with high light output levels

Lighting head: Ø 115 mm, black with black front ring

**INTRO M Q2**

Brilliant LED accent spotlight with high light output levels

Lighting head: Ø 115 mm, black with black front ring

**INTRO M Q3**

Brilliant LED accent spotlight with high light output levels

Lighting head: Ø 115 mm, black with black front ring

**INTRO-R M**

Round complete luminaire, configurable

Lighting head: Ø 115 mm, ceiling cut-out: Ø 190 mm, black with black front ring

**INTRO liteCarve®**

Spotlight for vertical surfaces

Lighting head: Ø 125 mm, black

**INTRO R1, Q1 and Q2**

Round and square complete luminaire

Lighting head: Ø 115 mm, ceiling cut-outs: Ø 180 mm (R1), □ 165 mm (Q1), □ 165 x 320 mm (Q2)

**INTRO M RESCLITE**

Emergency light unit, module width: 180 mm

System power: LED ≤ 5 W (< 1.5 W in stand-by mode)

Control: emergency lighting NT1 und NT3

**INTRO PANOS infinity**

Downlight, module width: 150 mm, frameless

Reflector finishes: highly specular with facets, highly specular, matt silver, white

**INTRO PANOS infinity**

Downlight, module width: 100 mm, frameless

Reflector finishes: highly specular, matt silver, matt gold, white





↑ **Wendt & Kühn, Grünhainichen/Saxony | DE**

Lighting design: Heinrich Müller LICHT-IN-FORM, Dresden | DE  
Lighting solution: MICROTOOLS, ONDARIA

↓ **Fiegl+Spielberger GmbH, Innsbruck | AT**

Architecture: Architekturbüro Pedrini –Aufschnaiter, Innsbruck | AT  
Lighting design: conceptlicht / Manfred Draxl, Mils/Innsbruck | AT  
Lighting solution: MICROTOOLS, PANOS infinity, LIGHT FIELDS,  
SLOTLIGHT II LED, PERLUCE, AERO II





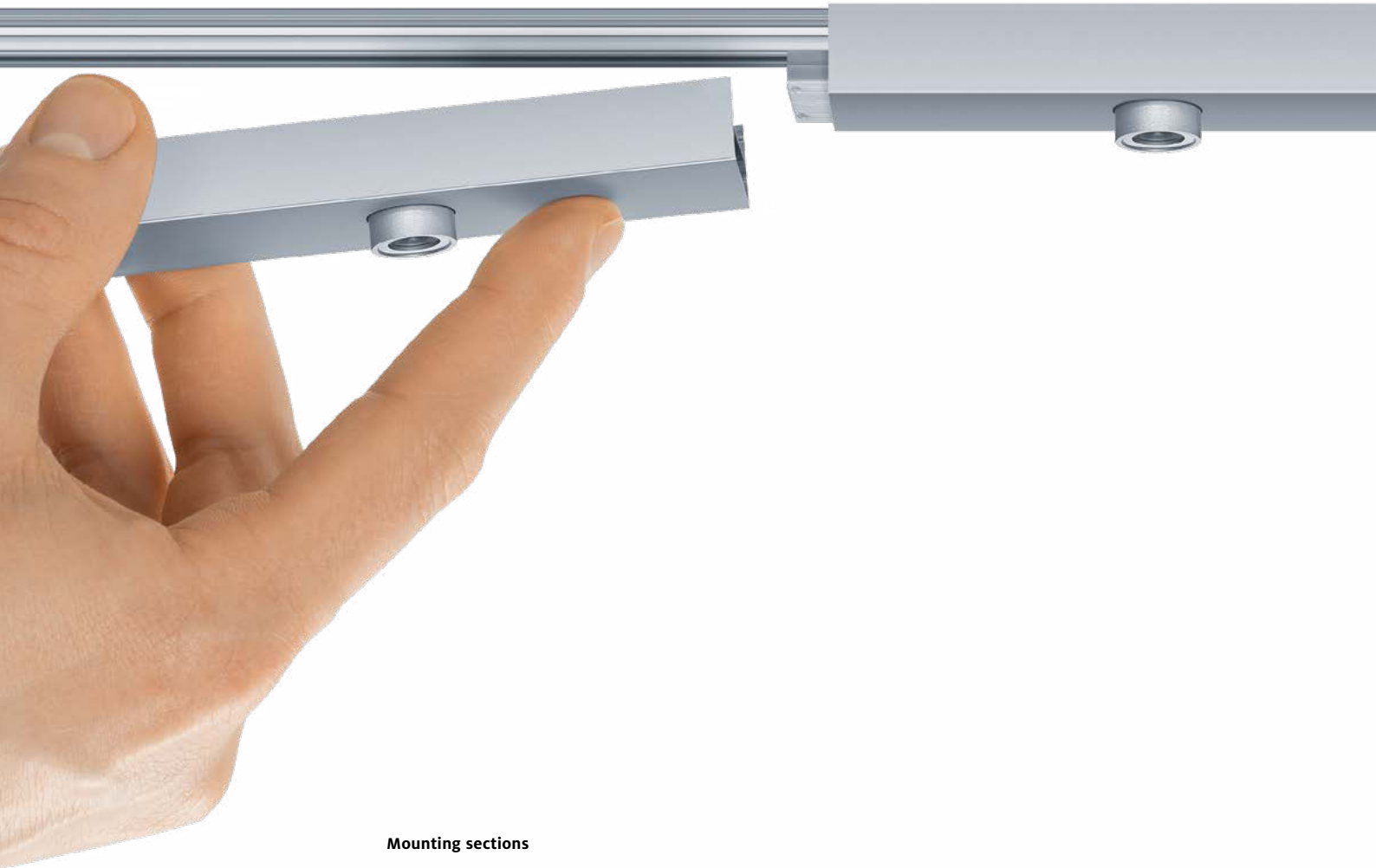
# MICROTOOLS

Impressive lighting within minimum space

High-quality finish and hardly visible at all: the MICROTOOLS LED system was specifically developed for shelves with boards made of wood, glass or metal. Modules for general and accent lighting are flexibly combined, the choice is between warm and intermediate colour temperatures. The extremely compact gimbal-mounted lighting heads are the smallest currently available on the market for

shelf lighting and emphasise the sophisticated technology even further. With its excellent colour rendering index of  $Ra > 90$ , the MICROTOOLS system is also ideal for museums to gently illuminate exhibits from short distances. Compared to conventional lighting systems, an outstanding luminaire efficiency of up to 82 lm/W helps to significantly cut energy consumption.

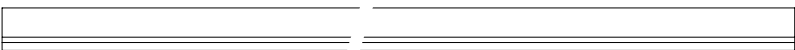
**MICROTOOLS**  
Modular LED lighting system



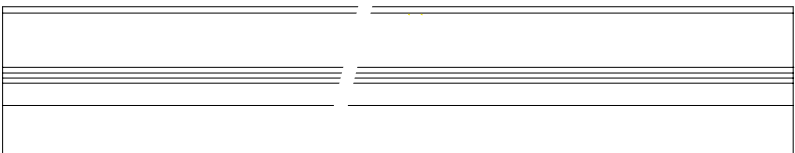
**Mounting sections**



MICROTOOLS mounting section (1000 / 2000 mm)



MICROTOOLS mounting section (1000 / 2000 mm), 20° angle



MICROTOOLS mounting section (1000 / 2000 mm), 20° angle with cover

**Blanking inserts, feeders and end caps**



MICROTOOLS blanking insert (200 / 400 mm)



MICROTOOLS set  
feeder/end cap



#### MICROTOOLS

Essential, Ra > 80 (3000 K, 4000 K); Advanced, Ra > 90 (3000 K);  
with replaceable optics (flood, wideflood)

#### MICROTOOLS-C (Cardanic)

Essential, Ra > 80 (3000 K, 4000 K); Advanced, Ra > 90 (3000 K);  
with replaceable optics (spot, flood)

	MICROTOOLS mounting sections	MICROTOOLS fixed	MICROTOOLS-C gimbal mounted	MICROTOOLS blanking insert
<b>Distribution characteristics</b>				
■ Spot			■	
▲ Flood		■	■	
▤ Wideflood		■		
<b>Colour</b>				
Silver-anodised	■	■	■	■
<b>Mounting sections</b>				
Mounting section (1000 mm)	■			
Mounting section (2000 mm)	■			
Mounting section 20° (1000 mm)	■			
Mounting section 20° (2000 mm)	■			
Mounting section blend 20° (1000 mm)	■			
Mounting section blend 20° (2000 mm)	■			
Blanking insert (200 mm)				■
Blanking insert (400 mm)				■
<b>Lighting module Advanced</b>				
1/1.1 W (3000 K, Ra > 90)			■	
2/1.1 W (3000 K, Ra > 90)		■	■	
3/1.1 W (3000 K, Ra > 90)		■		
<b>Lighting module Essential</b>				
1/1.1 W (3000 K, 4000 K, Ra 80)			■	
2/1.1 W (3000 K, 4000 K, Ra 80)		■	■	
3/1.1 W (3000 K, 4000 K, Ra 80)		■		
<b>Accessory</b>				
Replaceable lens with spot beam pattern		■	■	
Replaceable lens with flood beam pattern		■	■	
Replaceable lens with wideflood beam pattern		■	■	
Replaceable lens with very wideflood beam pattern		■	■	
Feed-in set		■	■	
Oval outline lens		■	■	
Converter		■	■	
Power lead		■	■	
Connecting lead		■	■	

# Downlights



**Surgery Dipl.-Med Christine Kosch, Pirna | DE**  
Architecture: Atelier Laströer Richter, Dresden | DE  
Lighting solution partner: Licht-in-Form, Dresden | DE  
Lighting solution: PANOS infinity





Downlights

- 60 **PANOS infinity und PANOS evolution**  
*for functional lighting*
- 64 **PANOS infinity und PANOS evolution**  
*for architectural lighting*
- 68 **PANOS infinity**  
**Surface-mounted and pendant luminaire**
- 70 **DIAMO**
- 74 **2LIGHT MINI**
- 76 **OPTOS**
- 80 **MICROS**





↑ **Leica Camera AG, Leitz-Park, Wetzlar | DE**

Architecture: Gruber Kleine-Kraneburg Architects, Frankfurt am Main | DE  
Lighting solution: PANOS infinity, CLARIS II, LINARIA, ARTSIGN

↓ **Audi Zentrum Aachen, Geilenkirchen branch | DE**

Lighting solution: PANOS infinity, CARDAN, LIGHT FIELDS



# PANOS infinity and PANOS evolution

## LED downlight ranges

### Highest luminaire efficiency

With a luminaire efficiency of up to 135 lm/W, combined with a colour rendering of  $R_a > 90$ , PANOS infinity and PANOS evolution have again set new standards for the market.

### "BEST-IN-CLASS" LED Technology

With  $R_a$  levels exceeding 90, PANOS infinity ranks first among LED downlights in terms of quality. The red/white multichannel technology ensures an intelligent interplay of highly efficient white and red LEDs, and therefore an excellent luminaire efficiency and colour rendering over the entire service life with an initial colour location tolerance of MacAdam 2.

The low reduction in luminous flux of only 5% (L95) over the service life of 50,000 hours underscores the high quality of PANOS infinity. PANOS evolution includes numerous product features of PANOS infinity, combining them with efficient and, at the same time, high-power single-channel phosphor LED modules as well as a colour rendering index of  $R_a > 80$ .

### High-quality reflector technology and future-proof module system

By providing precision formed reflectors made of high-quality polycarbonate, Zumtobel ensures optimum light distribution. Depending on the model, these are refined using

various technologies – such as the sputtering of the reflectors in specular silver finish. This razor-thin aluminium surface, applied using a vacuum process, provides for extremely high efficiency levels and high visual comfort at the same time through the darklight effect. The reflectors are iridescence-free and always shine, even with only simple cleaning. The modular design of the mounting ring, LED module, reflector and control gear ensures the future of the PANOS infinity and PANOS evolution downlights.

*Design: Chris Redfern, Sottsass Associati*

## PANOS infinity and PANOS evolution

Range of products for all functional lighting applications

### Downlights

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**PANOS infinity/evolution R150**  
Facetted aluminium reflector,  
frameless



**PANOS infinity/evolution Q150**  
Facetted aluminium reflector,  
frameless



**PANOS infinity/evolution R200**  
Facetted aluminium reflector,  
frameless



**PANOS infinity/evolution Q200**  
Facetted aluminium reflector,  
frameless



**PANOS infinity/evolution  
Surface-mount housing E200**  
Highly specular aluminium reflector



**PANOS infinity/evolution  
Surface-mount housing Q227**  
Highly specular aluminium reflector

### Wallwashers

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**PANOS infinity Wallwasher R150**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity Wallwasher R200**  
Highly specular aluminium reflector,  
with frame

	Ø 150 mm	PANOS infinity / evolution			PANOS infinity Wallwasher	
		□ 140 mm	Ø 200 mm	□ 190 mm	Ø 150 mm	Ø 200 mm
<b>Distribution characteristics</b>						
▣ Wide-angle	■	■	■	■		
▣ Wallwasher					■	■
<b>Mounting depths</b>						
<90 mm (Low)	■		■			
100 mm (Low)	■	■	■	■		
140 mm (High)	■	■	■	■		
130 mm (wallwasher)					■	
145 mm (wallwasher)						■
<b>LED</b>						
PANOS infinity (3000 K, 4000 K / Ra > 90)	■	■	■	■	■	■
PANOS infinity (tunableWhite 2700 – 6500 K / Ra > 90)	■	■	■	■	■	■
PANOS evolution (3000 K / 4000 K / Ra > 80)	■	■	■	■		
<b>Reflector surface finishes</b>						
Facetted	■	■	■	■		
Smooth	■	■	■	■	■	■
Matt silver	■	■	■	■		
Painted white	■	■	■	■		
<b>Mounting frame</b>						
With frame	■	■	■	■	■	■
Frameless *	■	■	■	■	■	■
<b>Surface-mount housing</b>						
PANOS infinity / evolution A E200 H (Ø 235 mm / H 206 mm)			■			
PANOS infinity / evolution A Q190 H (□ 227 mm / H 206 mm)				■		
<b>Attachments</b>						
IP54 diffuser, transparent	■	■	■	■	■	■
Antiglare ring	■		■			
Antiglare frame		■		■		
Decorative glass FLUX	■	■	■	■		
Decorative glass matt	■	■	■	■		
Decorative ring	■		■		■	■
Decorative surround		■		■		
<b>Accessories</b>						
Casting surround	■	■	■	■	■	■
Planar ring *	■		■		■	■
Flat surround *		■		■		
Ceiling reinforcing ring	■		■		■	■
Ceiling reinforcement surround		■		■		

\* only PANOS infinity

#### Reflector surface finishes



Facetted



Smooth



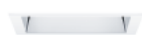
Matt silver



Painted white



Facetted



Smooth



Matt silver



Painted white



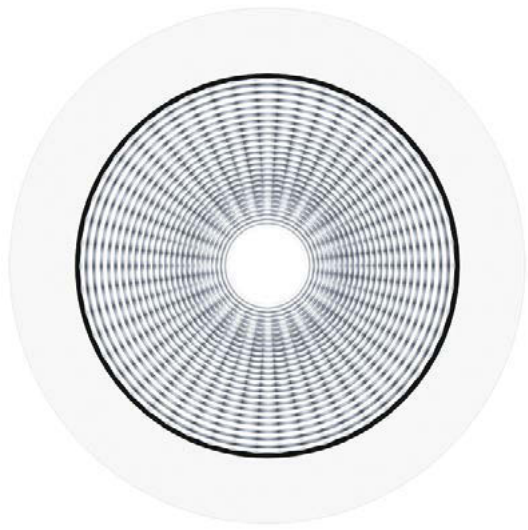


↑ **Feinsinn – Bioladen & Genussküche, Mühldorf | DE**

Architecture: mhp Architekten/Innenarchitekten, Munich | DE  
 Lighting solution: PANOS infinity, ONICO, ONDARIA, LIGHT FIELDS evolution,  
 MIREL evolution, COMSIGN, RESCLITE

↓ **Ramada Hotel, Berlin | DE**

Interior design: Planungsbüro Carl-Christian Niehaus, Hildesheim | DE  
 Lighting design: ARTELEMENTS Design Agentur lighting design studio,  
 Hildesheim | DE  
 Lighting solution: PANOS infinity, MICROS LED



# PANOS infinity and PANOS evolution

Continuous product lines worldwide for all  
architectural applications

With its wide range of models, the PANOS infinity product group meets the challenges of various applications with brilliance – from homogeneous illumination of vertical or horizontal surfaces to emphasising highlights. Thanks to the formal reserve with which both downlights and wallwashers blend into their architectural surroundings, PANOS infinity is the perfect lighting tool for designers and planners.

The range of potential applications is endless: reception areas or corridors, offices, conference rooms, shops or museums – the luminaires create the right lighting effect in any environment, satisfying every standard and guaranteeing the highest level of system efficiency.

*Design: Chris Redfern, Sottsass Associati*



# PANOS infinity and PANOS evolution

A modular system for all architectural lighting applications

## Downlights



**PANOS infinity/evolution R68**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity/evolution Q68**  
Highly specular aluminium reflector,  
frameless



**PANOS infinity/evolution R100**  
Highly specular aluminium reflector,  
frameless



**PANOS infinity/evolution Q100**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity R100**  
Accent beam, white reflector,  
with frame



**PANOS infinity Q100**  
Accent beam, black reflector,  
with frame



**PANOS infinity R200 (High Lumen)**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity  
Surface-mounted and pendant  
luminaire**  
Ø 70 mm, 100 mm

## Wallwashers



**PANOS infinity Wallwasher R68**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity Wallwasher Q68**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity Wallwasher R100**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity Wallwasher Q100**  
Highly specular aluminium reflector,  
with frame

## Directional downlights



**PANOS infinity Adjustable R68**  
Highly specular aluminium reflector,  
with frame








**PANOS infinity Adjustable Q68**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity Adjustable R100**  
Highly specular aluminium reflector,  
with frame



**PANOS infinity Adjustable Q100**  
Highly specular aluminium reflector,  
with frame

	PANOS infinity / evolution					PANOS infinity Wallwasher				PANOS infinity Adjustable				S/P
	Ø 68	□ 68	Ø 100	□ 100	Ø 200	Ø 68	□ 68	Ø 100	□ 100	Ø 68	□ 68	Ø 100	□ 100	Ø 70/100
<b>Distribution characteristics</b>														
 Narrow-beam	■	■	■	■	■					■	■	■	■	■
 Wide-angle	■	■	■	■	■					■	■	■	■	■
 Very wide-angle	■	■	■	■										■
 Wallwasher						■	■	■	■					
 Swivelling										■	■	■	■	
<b>Mounting depths</b>														
100 mm	■	■	■	■		■	■	■						
110 mm									■					
115 mm	■	■	■	■										
125 mm										■		■		
130 mm	■	■	■	■				■	■		■		■	
250 mm					■									
<b>LED</b>														
PANOS infinity	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PANOS infinity tunableWhite			■	■				■	■					
PANOS evolution	■	■	■	■										
<b>Reflector surface finishes</b>														
Facetted	■	■												
Highly specular	■	■	■	■	■	■	■	■	■			■	■	■
Silver matt	■	■	■	■								■	■	■
Gold	■	■	■	■								■	■	■
White	■	■	■	■								■	■	■
Black	■	■	■	■						■	■	■	■	■
<b>Mounting surround</b>														
With frame	■	■	■	■	■	■	■	■	■	■	■	■	■	
Frameless *	■	■	■	■	■	■	■	■	■	■	■	■	■	
<b>Attachments</b>														
IP54 diffuser, transparent	■	■	■	■	■	■	■	■	■	■	■	■	■	
<b>Accessories</b>														
Casting surround	■	■	■	■	■	■	■	■	■	■	■	■	■	
Planar ring *	■		■		■	■		■		■		■		
Flat surround *		■		■			■		■		■		■	

PANOS infinity: 2700 K, 3000 K, 4000 K / Ra > 90

PANOS infinity tunableWhite: 2700–6500 K / Ra > 90

PANOS evolution: 2700 K, 3000 K, 4000 K / Ra > 80

PANOS infinity warmDimming: 1800–2700 K for R/Q 100 Downlight

\* only PANOS infinity

#### Reflector surface finishes



Facetted<sup>1</sup>



Highly specular



Silver matt



Gold



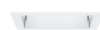
White



Black



Facetted<sup>1</sup>



Highly specular



Silver matt



Gold










White



Black

<sup>1</sup> Only available for Q68 Spot, R68/70 Spot models.



Pendant	Mounting	3-phase track	TECTON adapter		
					
				PANOS infinity Ø 70 mm	PANOS infinity Ø 100 mm
Distribution characteristics					
 Spot				■	
 Flood				■	
 Very wide flood				■	■
Dimensions					
L 230 mm / suspended to 2500 mm				■	
L 275 mm / suspended to 2500 mm					■
Reflector surfaces					
High gloss / Silver matt / White / Gold / Black				■	■
Housing colours					
White / Silver matt / Grey / Black / Brass / Copper				■	■
Colour temperatures					
2700 K, 3000 K, 4000 K / Ra > 90				■	■
Pendant adapter					
White / Black				■	■
Textile cable (optional)					
White / Black / Red				■	■
Lumen packages: 500 to 2000 lumen					



# PANOS infinity surface-mounted and pendant luminaire

Excellent lighting technology in exquisite materials

As a surface-mounted and pendant luminaire, PANOS infinity combines simple elegance with high-quality lighting. With six colour options, the slim, cylindrical aluminium luminaire body blends perfectly into its surroundings and enhances their individual effect.

Both functional and architectural lighting tasks are thereby solved. The excellent colour rendering, a wide range of reflectors and beams fulfil the desire for a cosy room ambience in a host of different ways.



↑ **Fischapark, Wiener Neustadt | AT**

Architecture: Architektur Consult ZT GmbH, Graz | A  
 Lighting design: Bartenbach GmbH, Aldrans | AT  
 Lighting solution: DIAMO

↓ **Stubay Freizeitcenter, Telfes | AT**

Architecture: Studio GA, Dipl. Ing. Wolfgang Gollwitzer M.S.AAD, Munich | DE  
 Lighting design: Licht Innovativ GmbH, Innsbruck | AT  
 Lighting solution: DIAMO, ONDARIA, VIVO, SLOTLIGHT II



# DIAMO

## LED downlight

DIAMO, which incorporates unique lighting technology developed jointly with experts at Bartenbach GmbH, based in Aldrans near Innsbruck, is a highlight in the world of miniaturised recessed luminaires: intelligently designed reflectors ensure accurate light distribution by the high-power LED modules, without any spill light, as well as perfect glare control. The result: high-intensity pinpoint accent lighting with excellent lighting quality and maximum brilliance. DIAMO combines all these features in an extremely compact design, thus providing for new creative

freedom in numerous indoor applications. DIAMO is a real diamond among LED downlights, enhancing both prestigious and functional areas in offices, setting goods in shops and retail areas brilliantly and powerfully centre stage, as it is ideally suited for use in hotels – from reception areas to hotel rooms. DIAMO covers this wealth of lighting tasks as a downlight with four different distribution characteristics according to the respective application. DIAMO is available in intermediate or warm light colours as well as switchable and dimmable models.

### Individual luminaires with excellent lighting quality

DIAMO gimbal combines architectural design in a compact linear form with the exceptional and brilliant light quality of DIAMO. The blend of modular design and individually adjustable lighting heads allows for a high degree of flexibility, which is reflected in both the versatile application possibilities and the level of design freedom. The individual composition of the specific components creates luminaires that, with their wide range of colours, become unique personalised items.



## DIAMO

### Overview



#### DIAMO downlight

Downlight with a minimised design that blends perfectly into the architecture.

#### tunableWhite



Warm white (2700 K)



Daylight white (6500 K)



#### DIAMO deep source

Downlight with recessed lighting head to maximise visual comfort.



#### DIAMO gimbal

Rotatable and swivelling downlight with a modular design for flexible lighting solutions.

	DIAMO downlight	DIAMO deep source	DIAMO gimbal
<b>Distribution characteristics</b>			
■ Spot		■	■
▲ Flood	■	■	■
▤ Very Wideflood	■	■	■
■ Wallwasher	■		■
<b>Style</b>			
180° rotatable / 2 x 20° swivelling			■
<b>Fitting</b>			
With frame	■	■	■
No frame			■
<b>Size</b>			
Ø 68 mm	■		
Ø 100 mm		■	
□ 100 mm		■	■
□ 196 mm			■
□ 290 mm			■
<b>Colours</b>			
White	■		
Lighting head: White/Black	■	■	■
Reflector: White/Black/Copper/Brass	■	■	■
Frame: White/Black		■	■
<b>LED</b>			
800 – 1900 lm (2700 K / 3000 K / 4000 K / Ra 90)	■	■	■
750 – 850 lm (2700 K – 6500 K / Ra 90) tunableWhite	■		
<b>Accessories</b>			
Cover for IP44	■		
Ceiling reinforcing ring	■		
Concrete casting surround	■		
Stray light cover	■		

All: switchable / dimmable / also available with Bluetooth



↑ **Gehri Rivestimenti SA,Lugano | CH**  
Architecture and lighting design: nero.partners SA, Lugano | CH  
Lighting solution: 2LIGHT MINI LED, DISCUS, PANOS infinity, MICROS,  
LUXMATE CIRCLE tune KIT

	2LIGHT MINI LED quadratic downlight with round reflector	2LIGHT MINI LED quadratic downlight with quadratic reflector
<b>Distribution characteristics</b>		
■ Narrow-beam	■	■
▲ Wide-angle	■	■
▒ Very wide-angle	■	■
<b>Colour</b>		
Titanium	■	■
White	■	■
<b>Installation</b>		
Recessed	■	■
<b>Mounting depth</b>		
122 mm	■	■
<b>LED</b>		
1000 lm (2700 K, 3000 K, 4000 K / Ra > 90)	■	■
1500 lm (2700 K, 3000 K, 4000 K / Ra > 90)	■	■
<b>Accessories</b>		
Installation kit (for thin ceiling)	■	■
Concrete casting surround	■	■



## 2LIGHT MINI LED

Downlights with unique lighting characteristics

The complete range of 2LIGHT MINI downlights is now even more powerful: latest-generation LED technology creates a brilliant lighting atmosphere as desired in hotels, wellness areas and private homes.

This is possible thanks to excellent colour rendering of  $R_a > 90$  as well as optics that combine accent lighting with diffuse light

distribution. Colour temperatures of 2700 K, 3000 K and 4000 K as well as spot, flood and wideflood beam patterns ensure that any lighting task can be performed with utmost precision.

*Design: Hartmut S. Engel*



#### Installation ring

For simple installation and removal of the luminaire –with or without a frame



#### High-quality light engine

Luminous flux 350 lm to 1900 lm  
Colour rendering Ra > 90  
Colour temperature 2700/3000/4000 K

#### Adjustable joint

Can be swivelled up to 25° for precise setting on site

#### Various light distributions

Spot, Flood, Wideflood, Wallwasher

#### Rotation

Can be rotated up to 355°

#### Magnets

For tool-free mounting of the OPTOS pro reflectors



#### Click mechanism

For tool-free mounting of the OPTOS soft reflectors



# OPTOS

Excellently showcases interior architecture

The round and matt white luminaires connect design versatility with architectural discretion. This extraordinarily precise rotating and swivelling downlight with four beam characteristics always directs high-quality light in the desired direction.

OPTOS meets the full raft of requirements, ranging from punctual accenting to homogeneous room illumination. The deeply recessed light source remains hidden from the observer and impresses with warm light colours and excellent colour rendering. Unique wallwasher technology means that vertical areas benefit from uniform lighting with very soft vertical flow, which superbly sets off architectural features.



## OPTOS

### Overview



#### OPTOS pro

The downlight with a matt white reflector can hardly be seen. Thanks to the back-set pivot point, it can be swivelled precisely up to 25° – without reducing the luminous flux.







#### OPTOS soft

The soft, outwardly curved reflector creates a flowing transition from the ceiling to the downlight – elegantly and with minimal installation effort, as it just has to be clicked on to the luminaire unit.



#### OPTOS pin

The rotating and swivelling tube aims narrowly accented light directly towards a particular object. The light source remains hidden from view.

	OPTOS pro	OPTOS soft	OPTOS pin
<b>Distribution characteristics</b>			
 Spot	■	■	■
 Flood	■	■	■
 Wideflood	■	■	
 Wallwasher	■		
<b>Style</b>			
Fix	■	■	
Adjustable	■	■	■
<b>Built-in</b>			
With trim	■	■	■
IP54 *	■	■	
<b>Size</b>			
Ø 79 mm	■	■	■
Ø 100 mm	■	■	
<b>LED</b>			
350 – 500 lm (2700 K, 3000 K*, 4000 K*) Ra90			■
500 – 1500 lm (2700 K, 3000 K*, 4000 K*) Ra90	■	■	

\* not for Adjustable



↑ **Ramada Hotel, Berlin | DE**

Interior design: Planungsbüro Carl-Christian Niehaus, Hildesheim | DE  
 Lighting design: ARTELEMENTS Design Agentur lighting design studio, Hildesheim | DE  
 Lighting solution: MICROS LED, PANOS infinity

↓ **Symantec Offices, Dubai | AE**

Lighting design: Acoulite Trading LLC, Dubai | AE  
 Lighting solution: MICROS, PANOS infinity, LINCOR



# MICROS LED

Ideal alternative to low-voltage halogen lamps

Users reap all the benefits of the long service life of compact LED modules in decorative accent lighting applications in particular. Due to high energy efficiency and a low installed load, it is applications with long operating hours, e.g. in hotels and wellness areas, in particular which benefit from the short amortisation periods of usually less than

two years. Depending on the control gear installed, Micro LED luminaires are switchable or dimmable via DALI, 1–10 V or PushDIM. Another plus: luminaires with a colour temperature of 3000 K and 4000 K offer the opportunity to make exactly the right choice for various surfaces and materials.

**MICROS LED**  
Downlights



MICROS-C D68 LED



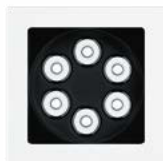
MICROS-C D95 LED






MICROS-S D105 LED



MICROS Q80 LED



	MICROS-C LED D68 LED	MICROS-C D95 LED	MICROS-S D105 LED	MICROS Q80 LED
<b>Distribution characteristics</b>				
 Narrow-beam	■	■	■	■
 Wide-angle	■	■	■	■
 Swivelling	■	■	■	
<b>Trim</b>				
Brushed aluminium	■	■		■
Painted white	■	■	■	■
<b>Recess diameter</b>				
Ø 68 mm	■			
Ø 95 mm		■		
Ø 105 mm			■	
□ 80 mm				■
<b>Mounting depths</b>				
50 mm	■			
75 mm		■		■
100 mm			■	
<b>LED</b>				
3 x 1.2 W LED (3000 K)	■			
3 x 1.2 W LED (4000 K)	■			
6 x 1.2 W LED (3000 K)		■		■
6 x 1.2 W LED (4000 K)		■		■
6 x 2.3 W LED (3000 K)			■	■
6 x 2.3 W LED (4000 K)			■	■
<b>Accessories</b>				
LED power pack	■	■	■	■
Concrete casting surround	■	■		■



# Recessed luminaires



**Ultima Business Solutions Limited, Reading | UK**

Architecture: Scott Brownrigg, London | UK

Lighting solution: LIGHT FIELDS evolution, PANOS Q, SLOTLIGHT infinity



Microprismatic luminaires

- 86 **LIGHT FIELDS evolution**  
for other *LIGHT FIELDS evolution* models  
see chapter 5/6

- 90 Mellow Light

**MELLOW LIGHT evolution**  
**MELLOW LIGHT infinity**  
for other *MELLOW LIGHT evolution* /  
*MELLOW LIGHT infinity* models  
see chapter 5

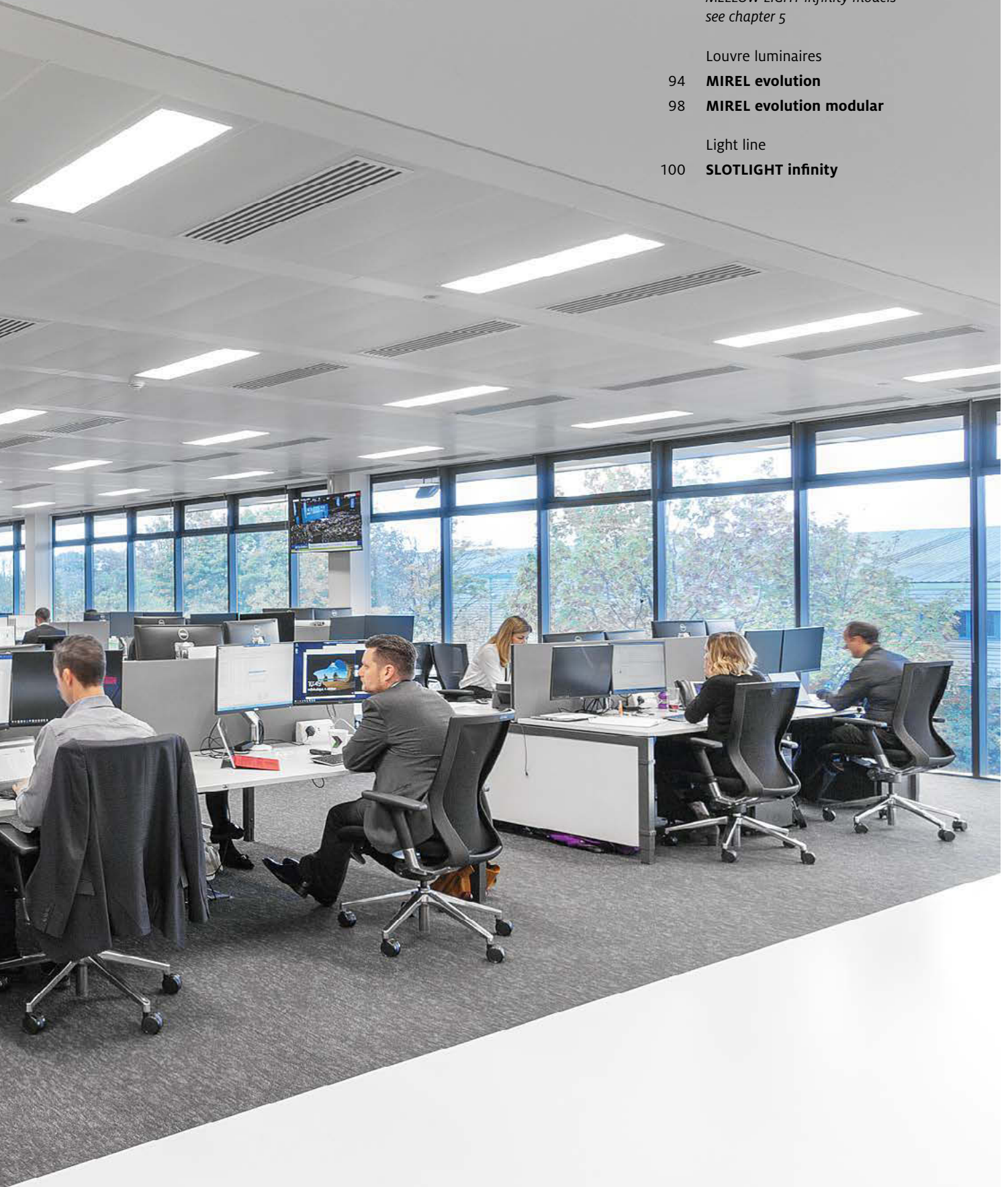
Louvre luminaires

- 94 **MIREL evolution**

- 98 **MIREL evolution modular**

Light line

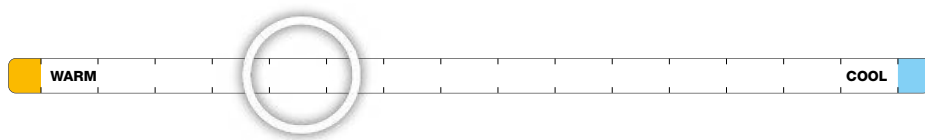
- 100 **SLOTLIGHT infinity**







Thanks to continuously adjustable colour temperatures ranging from 2700 K to 6500 K, LIGHT FIELDS evolution tunableWhite is perfectly tailored to users' individual requirements and biological needs – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.



#### Biological lighting effects LIGHT FIELDS evolution tunableWhite

A user study on lighting quality perceived in offices conducted jointly with Fraunhofer IAO shows that users' preferences with respect to colour temperature differ strongly. Usually, colour temperatures between 2700 K and 6500 K are perceived as ideal, with a clear preference for 4000 K and 5000 K. Another result of the study is that office users rate their situation at work significantly higher where it is possible for them to adjust the lighting to their individual needs. Since synchronisation of people's inner clock through daylight is not ensured indoors during the dark months of winter, DIN SPEC 67600:201304

also includes specific design recommendations for biologically effective lighting. Artificial lighting solutions incorporating wide-area micro-prismatic light-emitting surfaces such as LIGHT FIELDS evolution tunableWhite combined with lighting management are vital for supporting daytime activities and ensuring a good night's sleep.

Thanks to the LITECOM lighting management system and therefore continuously adjustable colour temperatures ranging from 2700 K to 6500 K, LIGHT FIELDS evolution tunableWhite is perfectly

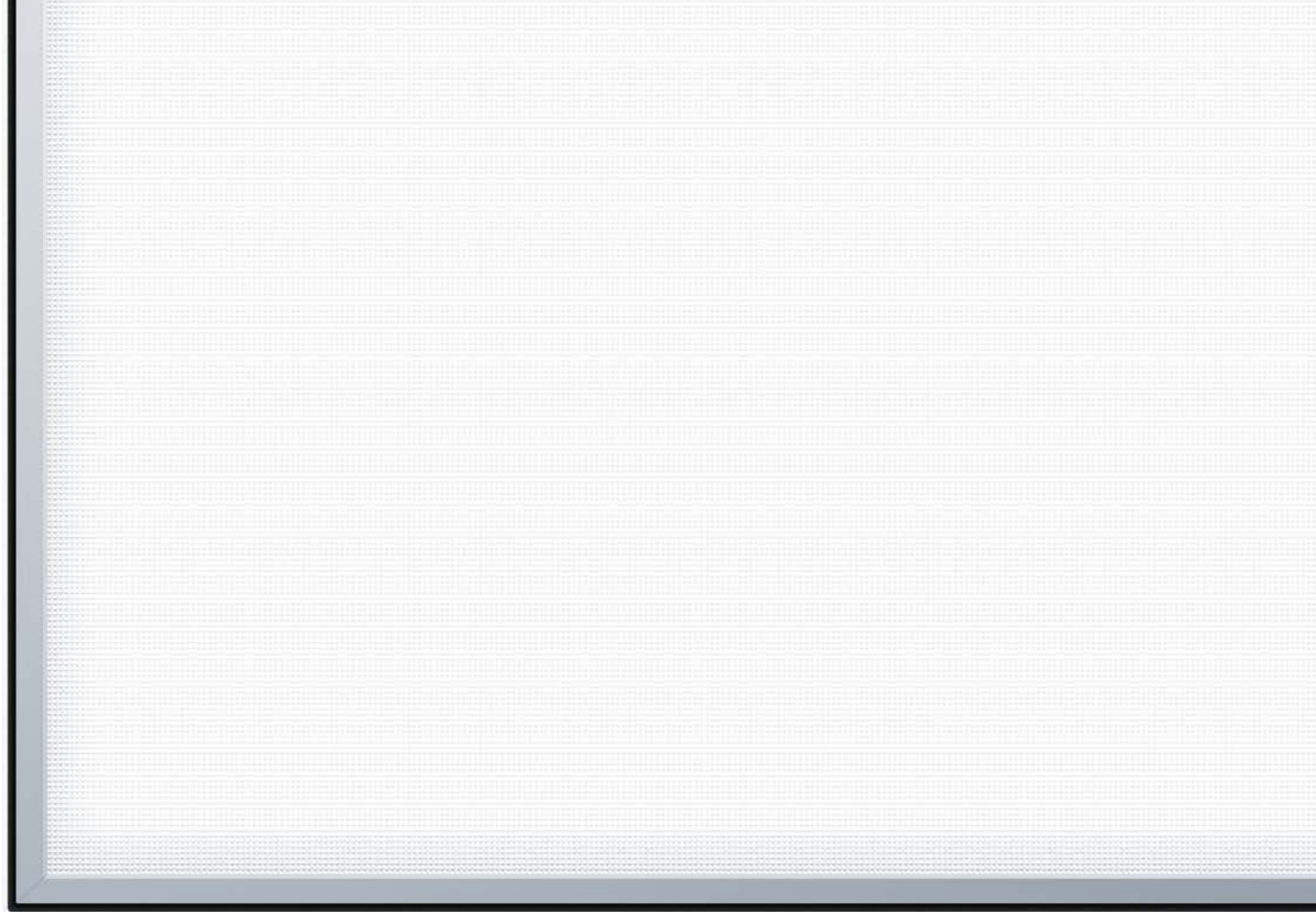
tailored to the users' individual needs and biological requirements – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.



[zumtobel.com/litecom](https://zumtobel.com/litecom)



[zumtobel.com/study-office](https://zumtobel.com/study-office)



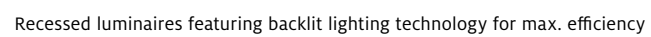
# LIGHT FIELDS evolution

Complete range of LED luminaires for integral office lighting

As a recessed luminaire, LIGHT FIELDS evolution provides maximum efficiency of up to 134 lm/W, effectively reducing the energy consumption of an office building. Moreover, using a concealed housing it can be installed flush in plasterboard or modular ceilings, ensuring maximum integration into the interior design. The only thing that remains visible

is a 8 millimetres wide, high-grade aluminium frame, which also marks the edges of the luminaire. The luminaire is available in four designs and as a “High Efficiency” and a “High Output” model, flexibly illuminating a variety of different rooms and room situations.

*Design: Chris Redfern, Sottsass Associati*





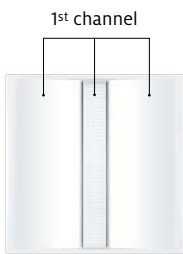
3Dprotect® reflector

The 3Dprotect® technology (patent pending) is both protector and reflector at the same time. Its three-dimensional structure protects the LED modules during installation or maintenance and prevents damage from electrostatic discharge. At the same time, the structure's high reflection factor ensures an increase in the luminaire efficiency level.

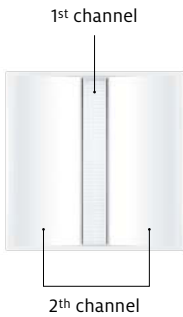
	LIGHT FIELDS evolution recessed luminaire module 600	LIGHT FIELDS evolution recessed luminaire module 625
<b>Distribution characteristics</b>		
■ Direct	■	■
<b>Colour</b>		
Silver	■	■
White (optionally)	■	■
<b>Installation</b>		
Cluster	■	■
<b>Dimensions</b>		
297 x 297 mm	■	
597 x 597 mm	■	
1197 x 297 mm	■	
1497 x 297 mm	■	
309 x 309 mm		■
622 x 622 mm		■
1247 x 309 mm		■
1547 x 309 mm		■
<b>LED</b>		
1300 lm / 3000 K / Ra 80	■	■
3600 lm / 3000 K / Ra 80	■	■
4400 lm / 3000 K / Ra 80	■	■
5400 lm / 3000 K / Ra 80	■	■
1400 lm / 4000 K / Ra 80	■	■
3800 lm / 4000 K / Ra 80	■	■
4600 lm / 4000 K / Ra 80	■	■
4800 lm / 4000 K / Ra 80	■	■
5800 lm / 4000 K / Ra 80	■	■
3800 lm / 4000 K / Ra 90	■	■
4600 lm / 4000 K / Ra 90	■	■
4800 lm / 4000 K / Ra 90	■	■
5800 lm / 4000 K / Ra 90	■	■
5000 lm / 2700 – 6500 K / Ra 90	■	■
6200 lm / 2700 – 6500 K / Ra 90	■	■



MELLOW LIGHT evolution



MELLOW LIGHT infinity





# MELLOW LIGHT evolution / infinity

Recessed LED luminaire

## **MELLOW LIGHT evolution**

A sky for the office: the brightness is distributed gently and uniformly throughout the room. The well-balanced illumination of the work surface, wall and ceiling creates an open, bright atmosphere in the room and helps prevent glare and irritating shadows. The perfectly dispersed LED points remain invisible.

## **MELLOW LIGHT infinity**

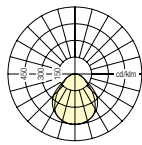
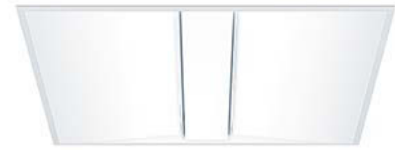
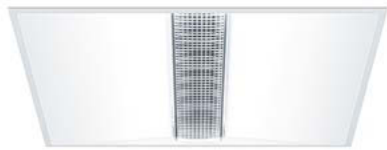
The lighting can be adjusted flexibly to suit different needs and situations thanks to separately controllable light channels. The two lighting wings create a pleasant background brightness to give the room an inviting atmosphere. Switching on the direct light component in the middle supplies the work surface with perfectly targeted light.

*Design: Daniel Stromborg,  
Practice Area Leader, Gensler*

## MELLOW LIGHT evolution / infinity

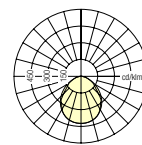
The daylight classic

### Recessed luminaire




#### Crystal optic

This re-interpretation of the classic lens optic guarantees glare-free illumination with up to 4800 lumens. This makes it ideal for areas that require more than 500 lux or where there are greater distances between the luminaires. The contrast with the diffuse lighting wings also creates some impressive lighting effects.

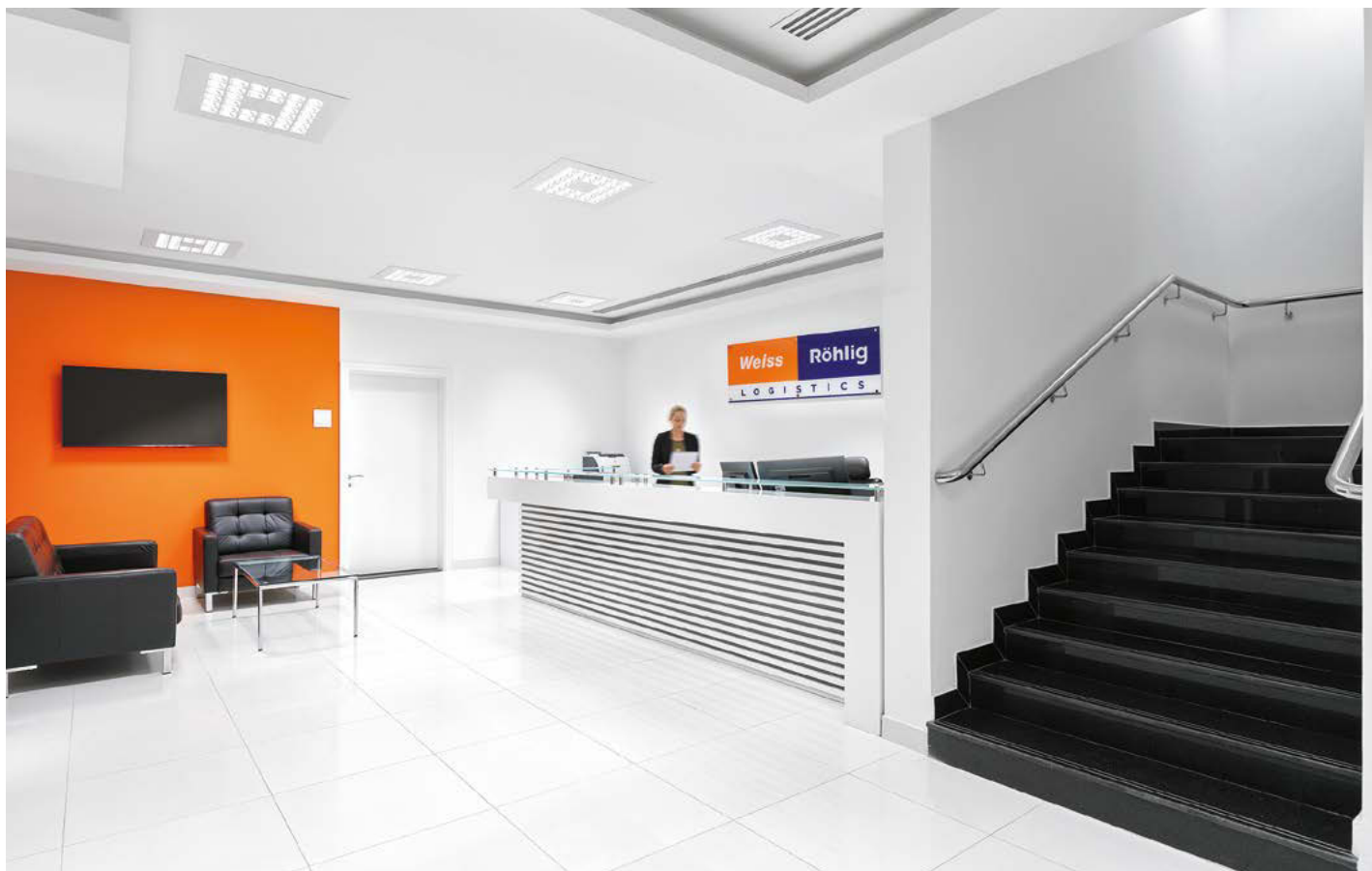


#### Lenticular optic

Prism louvres create a gentle and homogeneous appearance while offering excellent glare suppression with up to 3500 lumens. The UGR < 19 classification, this complies with the applicable standards for DSE workstations.

	<b>MELLOW LIGHT evolution</b>		<b>MELLOW LIGHT infinity</b>	
	crystal optic	lenticular optic	crystal optic	lenticular optic
<b>Distribution characteristics</b>				
 Extremely wide-angle	■	■	■	■
<b>Module 600</b>				
598 x 598 x 77 mm	■	■	■	■
1198 x 298 x 82 mm	■	■	■	■
<b>Module 625</b>				
623 x 623 x 77 mm	■	■	■	■
1248 x 310 x 82 mm	■	■	■	■
<b>LED</b>				
3600 lm / 3000 K / Ra 80, Ra 90	■	■	■	■
3600 lm / 4000 K / Ra 80, Ra 90	■	■	■	■
3600 lm / 2700–6500 K / Ra 80			■ *	
3800 lm / 2700–6500 K / Ra 80				■ *
4000 lm / 2700–6500 K / Ra 80	■			
4200 lm / 2700–6500 K / Ra 80		■		
4800 lm / 3000 K / Ra 80, Ra 90	■		■	
4800 lm / 4000 K / Ra 80, Ra 90	■		■	
<b>Accessories</b>				
Ceiling-mounting kit	■	■	■	■
Cable strain relief set	■	■	■	■
PMMA Optics cleaning kit	■	■	■	■

\* only square



↑ **Weiss-Röhlig Logistics, Dubai | UAE**

Lighting solution: MIREL evolution, TECTON LED

↓ **DVB-Bank, Frankfurt am Main | DE**

Architecture: Architekten Theiss Planungsgesellschaft mbH, Frankfurt a. M. | DE  
Lighting solution: MIREL evolution



# MIREL evolution

Recessed LED luminaire with lens optic or opal optic

MIREL evolution creates perfect lighting conditions for the most varied visual tasks in offices while meeting all relevant standards. When it comes to luminaire efficiency, it is exemplary, too and ensures short payback periods. Light distribution is effected via the lenses at a rate of 95 percent; only 5 per cent are accounted for by the reflections from the lighting chamber.

## **Opal with 3Dprotect® reflector**

Following up on the character of the lens luminaire, the opal variant of MIREL evolution continues the family concept. Square luminaires and linear luminaires position themselves as attractive lighting solutions for corridors and side rooms through quality and price. Additionally, MIREL opal luminaires with small lumen packages are ideally suited for offices and educational facilities. Thanks to the great variety of versions available, MIREL evolution may also be used as an emergency luminaire with separate battery supply, for instance.

*Design: Studio Ambrozus*



**MIREL evolution**  
Recessed LED luminaires



**MIREL evolution with lens optic**  
linear



**MIREL evolution with lens optic**  
square



**MIREL evolution mini with lens optic**  
square

Recessed luminaire  
with magnet

Recessed luminaire  
with spring clip



**MIREL evolution with lens optic,**  
**height-adjustable**  
linear



**MIREL evolution with lens optic,**  
**height-adjustable**  
square



**MIREL evolution slim with lens optic,**  
**height-adjustable**  
one/two rows



**MIREL evolution with opal optic,**  
**height-adjustable**  
linear






**MIREL evolution with opal optic,**  
**height-adjustable**  
square

**MIREL evolution with LRO optic,**  
**height-adjustable**  
linear

**MIREL evolution with LRO optic,**  
**height-adjustable**  
square

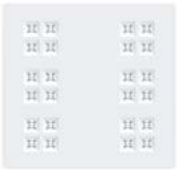


**MIREL FEW LED wallwasher**  
linear

	MIRELevolution lay-in luminaire with lens optic		MIRELevolution levelling-in luminaire with lens optic		MIRELevolution levelling-in luminaire with opal optic		MIRELevolution levelling-in luminaire with LRO optic		MIRELevolution slim levelling-in luminaire with lens optic		MIRELevolution rec. lum. mini with lens optic	MIRELFEW rec. lum. wallwasher linear
	linear	square	linear	square	linear	square	linear	square	one row	two rows	square	
Distribution characteristics												
 Wide-angle	■	■	■	■					■	■	■	
 Extremely wide-angle	■	■	■	■	■	■	■	■				
 Wallwasher												■
Module 600												
1198 x 298 x 38 mm	■											
598 x 598 x 38 mm		■										
1198 x 298 x 74 mm			■									
598 x 598 x 74 mm				■								
1198 x 298 x 85 mm					■		■					
598 x 598 x 85 mm						■		■				
598 x 200 x 70 mm									■			
1198 x 114 x 70 mm									■			
1198 x 150 x 70 mm									■			
1198 x 184 x 70 mm									■			
1198 x 200 x 70 mm									■	■		
1498 x 114 x 70 mm									■			
1498 x 184 x 70 mm									■			
1498 x 200 x 70 mm									■	■		
598 x 114 x 85 mm *												■
1198 x 114 x 85 mm *												■
Module 625												
1248 x 310 x 38 mm	■											
623 x 623 x 38 mm		■										
1248 x 310 x 74 mm			■									
623 x 623 x 74 mm				■								
1248 x 310 x 85 mm					■							
623 x 623 x 85 mm						■						
623 x 200 x 70 mm									■			
1248 x 114 x 70 mm									■			
1248 x 150 x 70 mm									■			
1248 x 184 x 70 mm									■			
1248 x 200 x 70 mm									■	■		
1548 x 114 x 70 mm									■			
1548 x 184 x 70 mm									■			
1548 x 200 x 70 mm									■	■		
623 x 114 x 85 mm *												■
1248 x 114 x 85 mm *												■
Module mini												
150 x 150 x 38 mm (with magnet)											■	
170 x 170 x 38 mm (with spring clip)											■	
LED												
1200 lm / 3000 K / 4000 K / Ra80											■	
2400 lm / 3000 K / 4000 K / Ra80					■	■						
2800 lm / 3000 K / 4000 K / Ra80	■	■	■	■			■	■				
3800 lm / 3000 K / 4000 K / Ra80	■	■	■	■	■	■	■	■				
2000 lm / 3000 K / 4000 K / Ra80									■			
3400 lm / 3000 K / 4000 K / Ra80									■			
4300 lm / 3000 K / 4000 K / Ra80									■			
4800 lm / 3000 K / 4000 K / Ra80									■			
7000 lm / 3000 K / 4000 K / Ra80										■		
2200 lm / 4000 K / Ra80												■
4400 lm / 4000 K / Ra80												■
Accessories												
Ceiling mounting kit			■	■	■	■	■	■	■	■		■
* 1:1 T16 replacement												
MIREL evolution luminaires with lens optic also available in black.												



↑ **DVB Bank SE, Frankfurt am Main | DE**  
Architecture: Architekten Theiss Planungsgesellschaft mbH, Frankfurt am Main | DE  
Lighting design: Arnold & Hensel Partnerschaft Elektroingenieure, Klein-Winternheim | DE  
Lighting solution: MIREL evolution



	Linear luminaire	Square luminaire
Length	1100 – 1800 mm	580 – 625 mm
Width	184 – 625 mm	580 – 625 mm
Number	1 to 7 LED clusters	4 or 6 LED clusters



# MIREL evolution modular

## Fully customised recessed modules

Due to the variety of design options, C-strip grid and T-beam ceilings in public buildings, offices or shopping malls are still highly popular. MIREL evolution is a custom-fit refurbishment solution that provides ideal prerequisites for keeping the costs required for refurbishment of the lighting system as low as possible for the customer. The modular platform for MIREL lens luminaires includes both square

versions and linear luminaires for flush mounting. Another benefit: individually designed versions of the custom-fit recessed luminaires can also be installed in closed ceilings. MIREL evolution modular thus extends the variety of application options for the MIREL luminaire range, providing high-quality lighting solutions in a uniform design.

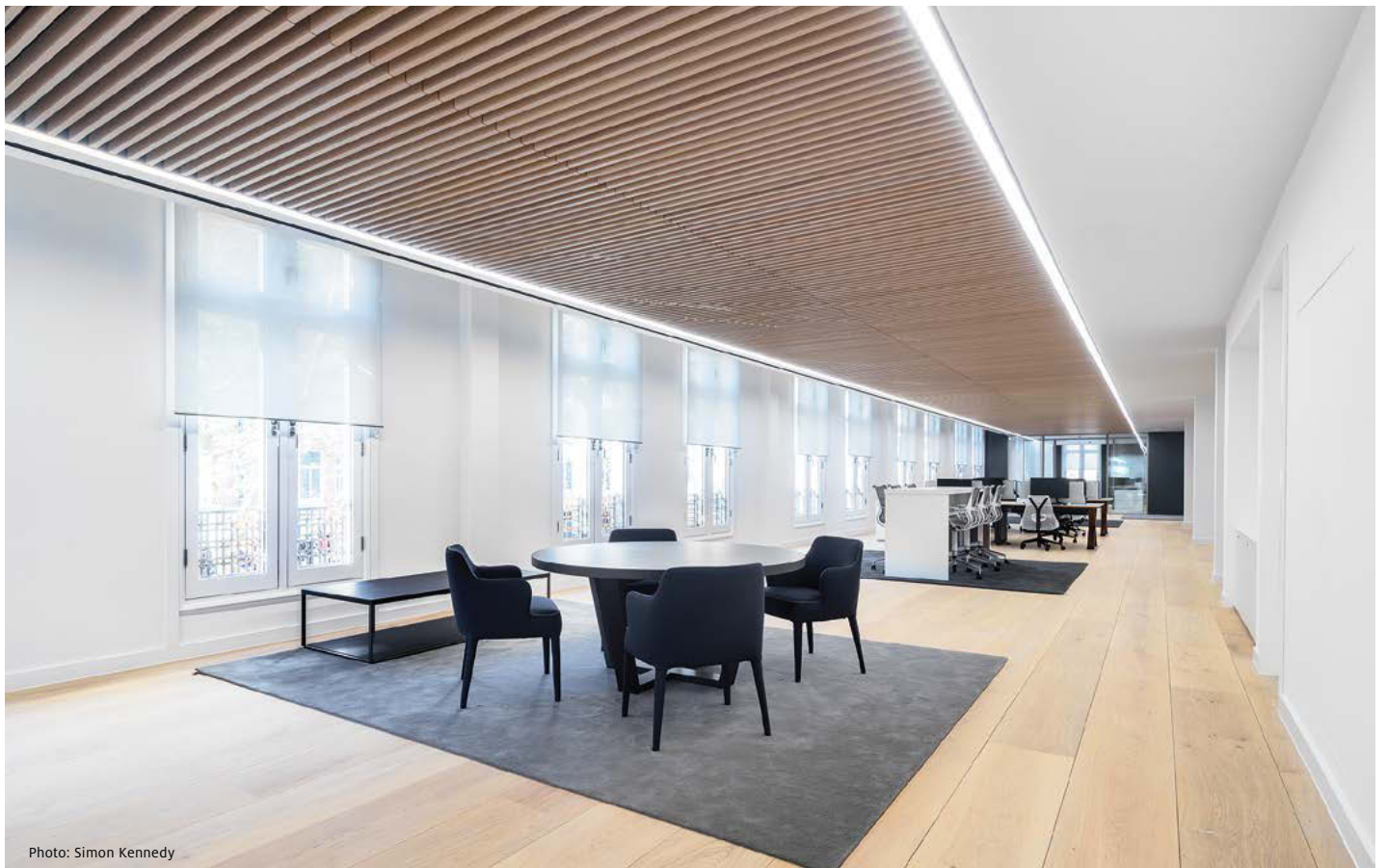
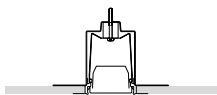


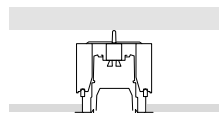
Photo: Simon Kennedy

↑ **Sky Studios, London | UK**  
 Architecture: Arup Associates, London | UK  
 Lighting solution: SLOTLIGHT infinity

#### Installation SLOTLIGHT infinity

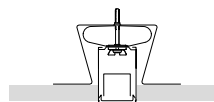


Recessed (ceiling or wall)



Technical channel

#### Installation SLOTLIGHT infinity slim



Ceiling recessed



# SLOTLIGHT infinity

The world's first consistent light line complies with the highest architectural and technical lighting requirements

It has never been so easy to create the perfect shadow gap along a luminaire, for SLOTLIGHT infinity has been designed from scratch as a continuous light line for flush mounting with the ceiling. Any drywall builder will be perfectly familiar with the materials and methods that ensure a perfect transition between ceiling and luminaire. The luminaire's linear design is continued in a precisely defined shadow gap. Problems with the formation of cracks are now a thing of the past as well, as the luminaire is technically

and thermally separated from the ceiling by a mounting frame. The final result is a high-grade lighting solution meticulously integrated into the interior design, which appears as a fully consistent light line to the beholder. With SLOTLIGHT infinity, Zumtobel provides architects and designers with a tool for consistently linear design with high precision. Light is now available as a continuous light line: nearly endless, up to 50 metres in length, without any butt joints and with uniform illumination even around corners.

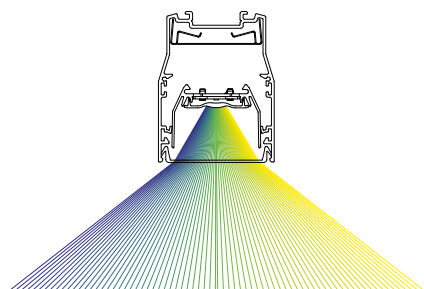
## **SLOTLIGHT infinity slim**

Consistently precise light lines are modern architecture lighting tools. SLOTLIGHT infinity slim is one third slimmer again than the standard family. As 45 mm slim design element, SLOTLIGHT infinity slim has the potential for virtually unlimited creativity: The functional lighting tool can also be very elegantly integrated in jointed ceilings.



## SLOTLIGHT infinity

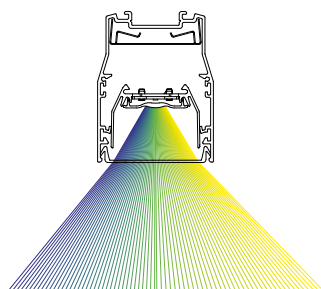
The entire spectrum of light



UGR < 25

### Opal cover

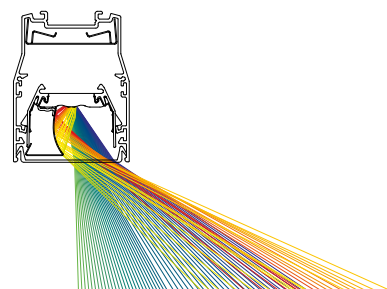
The diffuse distribution lens distinguishes a SLOTLIGHT infinity as a simple and efficient light line with an homogeneous appearance. The application area ranges from reception areas, to corridors, to lounge areas and break-out zones.



UGR < 19 and L65 < 3000 cd/m²

### Cover for the office

With this cover, SLOTLIGHT infinity reduces the glare to UGR < 19 and thus ensures workplace lighting in accordance with EN12464:2011. The brilliantly appearing luminaire is ideal for offices, schools and meeting rooms.



### Decorative wall washer

The asymmetric distribution of the SLOTLIGHT infinity illuminates vertical wall areas or pictures evenly and, as a result, enhances traffic zones, for example. As the reflector is inside the luminaire, the wall washer is not recognisable as such from the outside.

### Wall washer for school blackboards

With a higher lumen package, the SLOTLIGHT infinity wallwasher for blackboards is the ideal solution for visual tasks in schools. Aligned to suit the most common blackboard formats, this wallwasher measures three or four metres in length and lights up the vertical board area with 500 lx and a uniformity of 0.7, in accordance with the standards. The homogeneous appearance is not disturbed by components that stick out in some way.



The optic of SLOTLIGHT infinity is supplied as a continuous 50-metre diffuser roll – for easy installation of a continuous LED light line by one person only.



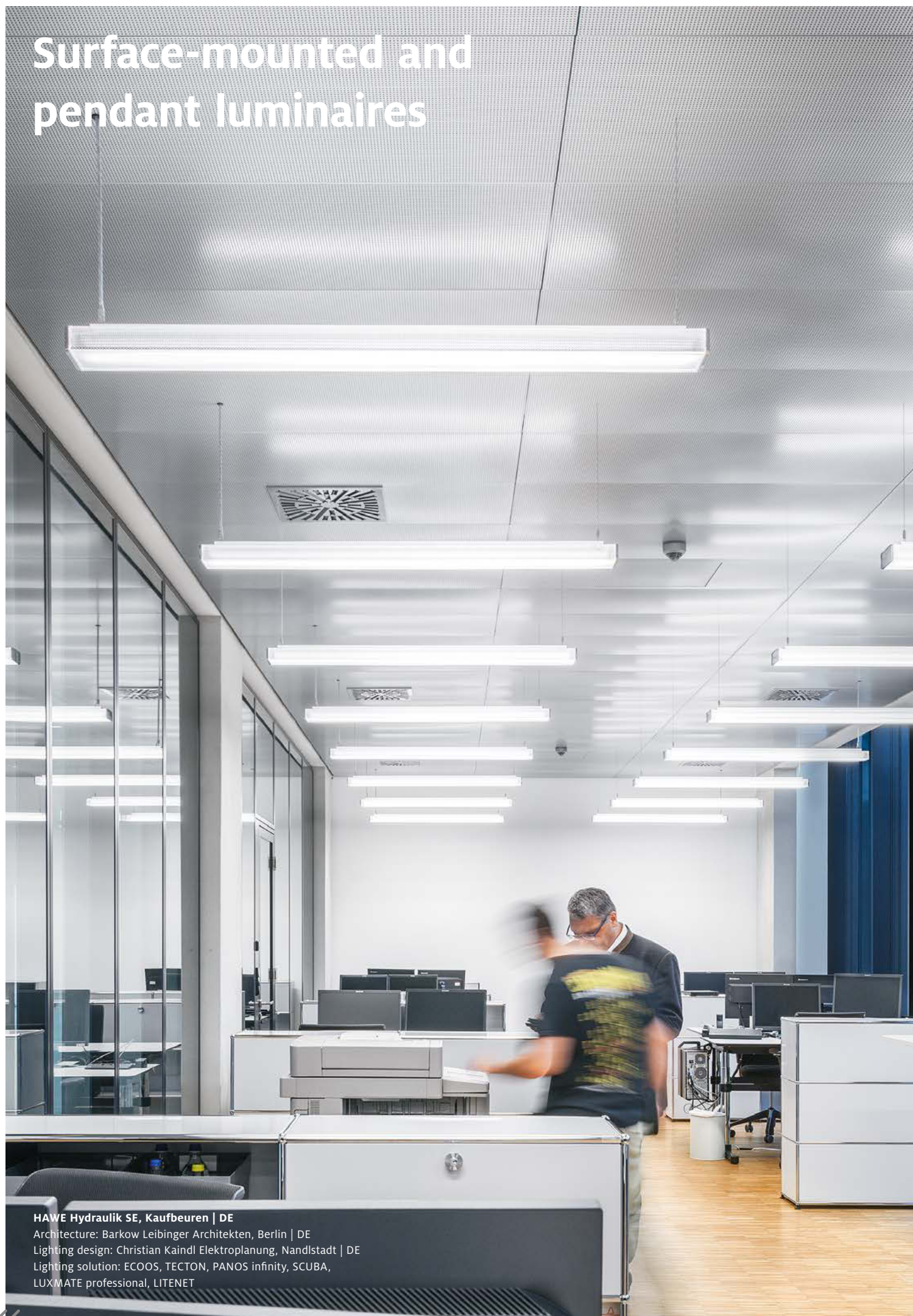
### Installation aid for LED light line

The installation aid for SLOTLIGHT infinity focuses on consistently precise linearity. It greatly facilitates the installation of SLOTLIGHT infinity in ceilings and walls, even where the luminaires are installed in concrete.



	SLOTLIGHT inf. infinity ind. lum. recessed	SLOTLIGHT infinity technical ind. lum.. recessed	SLOTLIGHT infinity continuous-row recessed	SLOTLIGHT infinity wallwasher recessed	SLOTLIGHT infinity slim ind. lum. recessed	SLOTLIGHT infinity slim continuous-row recessed	SLOTLIGHT infinity slim wallwasher recessed
<b>Distribution characteristics</b>							
 Wide-angle	■	■	■		■	■	
 Wallwasher				■			■
<b>Optics</b>							
PMMA (opal)	■	■	■		■	■	
LRO (office)	■	■	■		■	■	
Wallwasher			■	■			■
<b>Installation</b>							
Recessed (B 72 mm / ET 136 mm)	■	■	■	■			
Recessed technical (B 100 mm / ET 134 mm)	■	■	■				
Surface-mounted/ (B 76 mm / H 109 mm)					■	■	■
<b>Corner luminaire module</b>							
Recessed 545 x 545 mm	■		■				
Surface-mounted 775 x 775 mm					■	■	
<b>Module recessed (channel / technical / continuous-row channel)</b>							
1000 mm / 1048 mm / 1000 mm	■	■	■	■			
1250 mm / 1298 mm / 2500 mm	■	■	■	■			
1500 mm / 1548 mm / 1500 mm	■	■	■	■			
1750 mm / 1798 mm / 1750 mm	■	■	■	■			
2000 mm / 2048 mm / 2000 mm	■	■	■	■			
2250 mm / 2298 mm / 1250 mm	■	■	■	■			
2500 mm / 2548 mm / 2500 mm	■	■	■	■			
2750 mm / 2798 mm / 2750 mm	■	■	■	■			
3000 mm / 3048 mm / 3000 mm	■	■	■	■			
4000 mm / 4048 mm / 4000 mm	■	■	■	■			
1004 mm / – / 1000 mm					■	■	■
1254 mm / – / 1250 mm					■	■	■
1504 mm / – / 1500 mm					■	■	■
1754 mm / – / 1750 mm					■	■	■
2004 mm / – / 2000 mm					■	■	■
2254 mm / – / 2250 mm					■	■	■
2504 mm / – / 2500 mm					■	■	■
2754 mm / – / 2750 mm					■	■	■
3004 mm / – / 3000 mm					■	■	■
3254 mm / – / 3250 mm					■	■	■
3504 mm / – / 3500 mm					■	■	■
3754 mm / – / 3750 mm					■	■	■
4004 mm / – / 4000 mm					■	■	■
<b>LED</b>							
stableWhite (2700 K)					■	■	■
stableWhite (3000 K)	■	■	■	■	■	■	■
stableWhite (4000 K)	■	■	■	■	■	■	■
tunableWhite (2700–6500 K)	■	■	■				
RGB/W	■	■	■				
<b>Inserts</b>							
Blind cover 6/10 m	■	■	■		■	■	
Opale cover (PC) 6/8/10/15/20/25/30/35/40/45/50 m	■	■	■		■	■	
Office cover (PCO) 6/10/20 m	■	■	■		■	■	
Wallwasher cover 6/10/20 m				■			■
Reflector (wallwasher) 250/500/750/1000 mm				■			■
<b>Accessories</b>							
Set of end caps	■	■	■	■	■	■	■
Masking plate			■		■	■	■
U-shaped connector	■	■	■	■			
Spacer	■	■	■	■			
Mounting clip	■	■	■	■			
Recessed rail (2500 mm)	■	■	■	■			
PST set	■	■	■				

# Surface-mounted and pendant luminaires



**HAWE Hydraulik SE, Kaufbeuren | DE**

Architecture: Barkow Leibinger Architekten, Berlin | DE

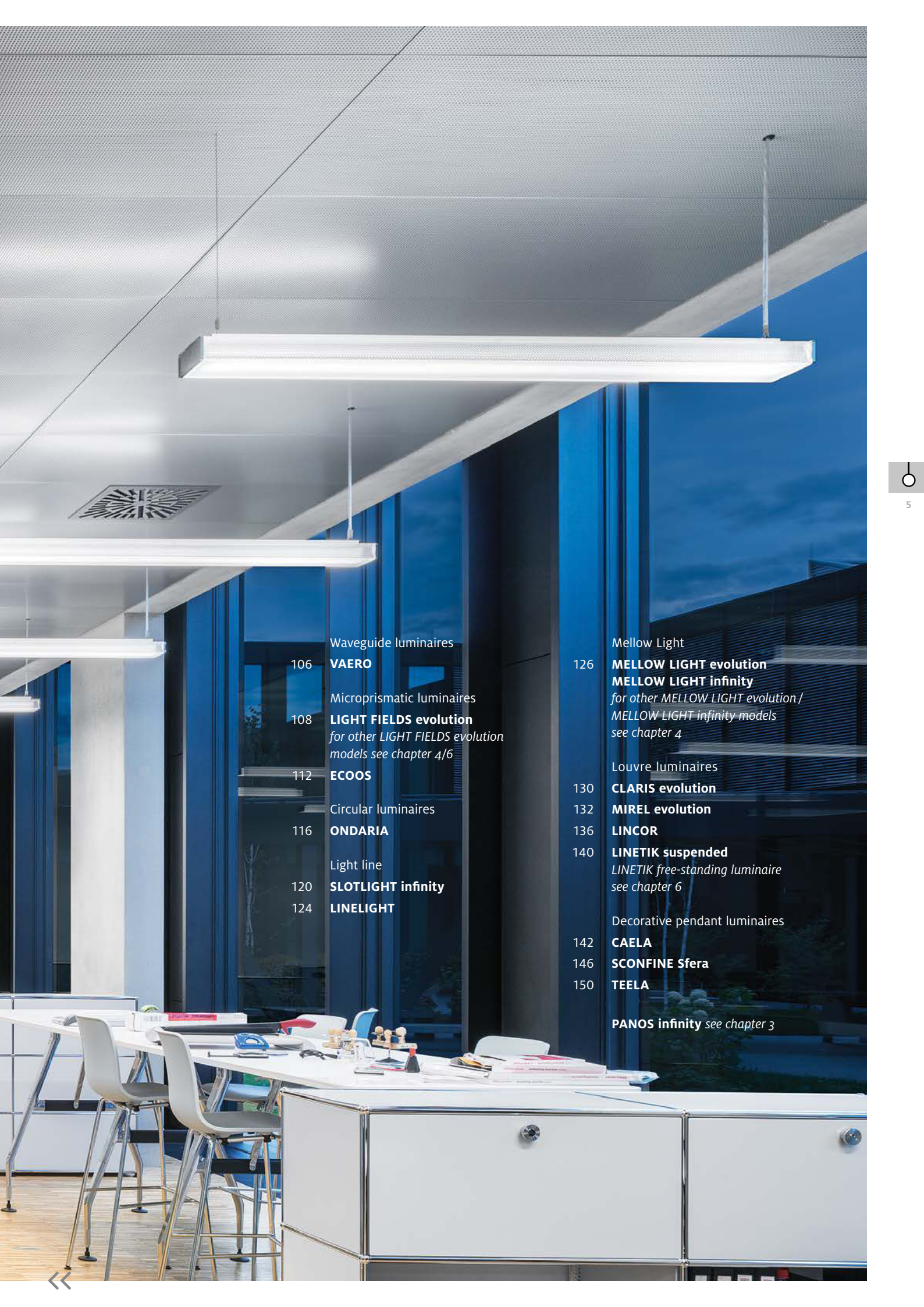
Lighting design: Christian Kaindl Elektroplanung, Nandlstadt | DE

Lighting solution: ECOOS, TECTON, PANOS infinity, SCUBA,

LUXMATE professional, LITENET

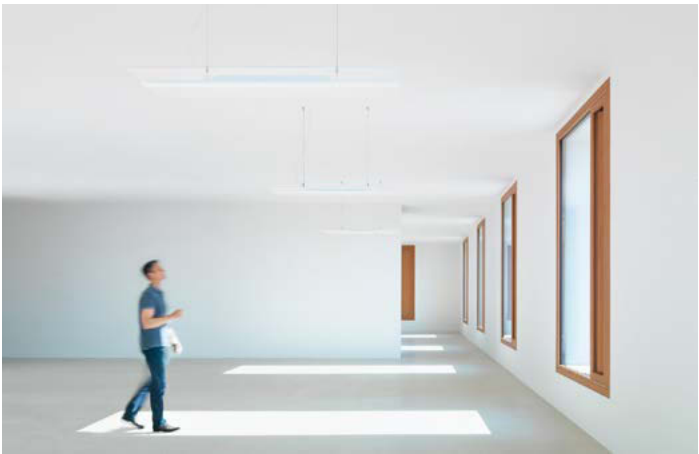
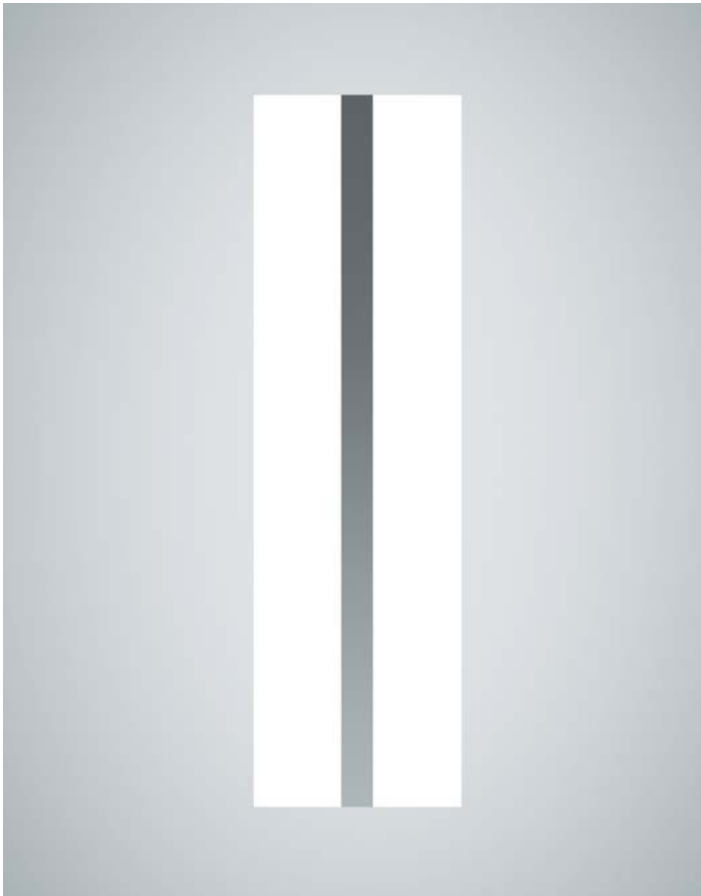
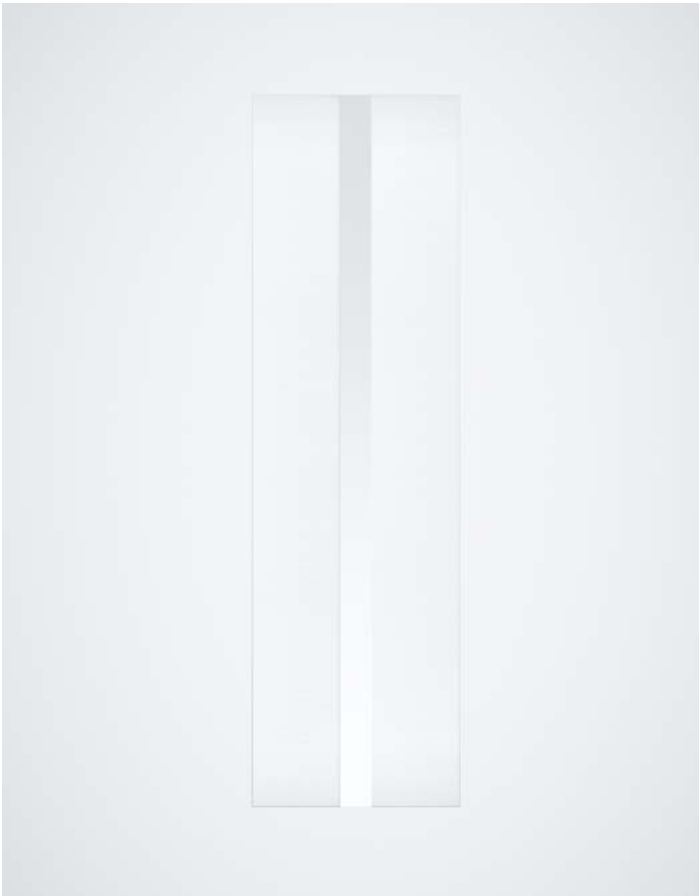







	Waveguide luminaires
106	<b>VAERO</b>
	Microprismatic luminaires
108	<b>LIGHT FIELDS evolution</b> <i>for other LIGHT FIELDS evolution models see chapter 4/6</i>
112	<b>ECOOS</b>
	Circular luminaires
116	<b>ONDARIA</b>
	Light line
120	<b>SLOTLIGHT infinity</b>
124	<b>LINELIGHT</b>

	Mellow Light
126	<b>MELLOW LIGHT evolution</b> <b>MELLOW LIGHT infinity</b> <i>for other MELLOW LIGHT evolution / MELLOW LIGHT infinity models see chapter 4</i>
	Louvre luminaires
130	<b>CLARIS evolution</b>
132	<b>MIREL evolution</b>
136	<b>LINCOR</b>
140	<b>LINETIK suspended</b> <i>LINETIK free-standing luminaire see chapter 6</i>
	Decorative pendant luminaires
142	<b>CAELA</b>
146	<b>SCONFINE Sfera</b>
150	<b>TEELA</b>
	<b>PANOS infinity</b> <i>see chapter 3</i>



	<b>VAERO</b> LED pendant luminaire
<b>Distribution characteristics</b>	
 Direct/indirect	■
<b>Casing colour</b>	
White	■
Silver	■
Bronze	■
Black	■
<b>Installation</b>	
Cord suspension	■
<b>Dimensions</b>	
1250 x 365 x 45 mm	■
<b>LED</b>	
5000 lm / 3000 K / 4000 K / Ra 80	■
6600 lm / 3000 K / 4000 K / Ra 80	■
6000 lm / 2700 K – 6500 K / Ra 90	■



# VAERO

## Perfect purism

Fascinated by the idea of total reduction, a luminaire was created that only draws attention when it is switched on. VAERO is more light than luminaire. Its design language – streamlined and clear in the true sense of the word – discreetly integrates into any room architecture, making it the ideal choice for various office areas – from the classic workplace environment to the creative communication zone.

Never before has a luminaire been simultaneously so effective and so inconspicuous. When switched off, the transparent lighting wings are hardly detectable. All that remains is a narrow middle bar, which conceals the flat converter box. This helps rid the ceiling of distracting elements.

When switched on, the pendant luminaire transforms into a magical light object – as if VAERO is no longer a light fitting, but quite simply pure light. Frameless and transparent, the super-thin light-emitting surface perfects the puristic design.







#### Stimulation in the morning

Colour temperature: 5000 K

$E_h^*$  (daylight and artificial lighting): higher than 500 lx

Aim: synchronising people's circadian rhythm,  
complete suppression of melatonin release



#### During the day at sunshine

Colour temperature: 4000 K

$E_h^*$  (daylight and artificial lighting): higher than 1000 lx

Aim: enhancing people's well-being through  
well-matched colour temperature, accordingly warmer  
light colours during sunshine



#### During the day with cloudy sky

Colour temperature: 6500 K

$E_h^*$  (daylight and artificial lighting): higher than 800 lx

Aim: enhancing people's well-being through  
well-matched colour temperature, accordingly cooler  
light colours with overcast sky



#### Getting ready for sleep

Colour temperature: 2700 K

$E_h^*$  (daylight and artificial lighting): higher than 500 lx

Aim: synchronising people's circadian rhythm,  
no interference with melatonin release, restful sleep

\*  $E_h$  = horizontal illuminance

#### Biological lighting effects

##### LIGHT FIELDS evolution tunableWhite

A user study on lighting quality perceived in offices conducted jointly with Fraunhofer IAO shows that users' preferences with respect to colour temperature differ strongly. Usually, colour temperatures between 2700 K and 6500 K are perceived as ideal, with a clear preference for 4000 K and 5000 K. Another result of the study is that office users rate their situation at work significantly higher where it is possible for them to adjust the lighting to their individual needs. Since synchronisation of people's inner clock through daylight is not ensured indoors during the dark months of winter, DIN SPEC 67600:201304

also includes specific design recommendations for biologically effective lighting. Artificial lighting solutions incorporating wide-area micro-prismatic light-emitting surfaces such as LIGHT FIELDS evolution tunableWhite combined with lighting management are vital for supporting daytime activities and ensuring a good night's sleep.

Thanks to the LITECOM lighting management system and therefore continuously adjustable colour temperatures ranging from 2700 K to 6500 K, LIGHT FIELDS evolution tunableWhite is perfectly

tailored to the users' individual needs and biological requirements – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.



[zumtobel.com/litecom](http://zumtobel.com/litecom)



[zumtobel.com/study-office](http://zumtobel.com/study-office)



# LIGHT FIELDS evolution

Complete range of LED luminaires for integral office lighting

Structural conditions in offices, for instance low ceiling heights, frequently pose a challenge to lighting. Where neither pendant nor recessed luminaires are an option, the problem is solved reliably by surface-mounted luminaires: thanks to innovative litePrint® waveguide technology (patent pending), the surface-mounted luminaire provides a clear, uncluttered appearance, with a visible height of only 28 millimetres\*. An additional indirect light\*\* component of 5 percent creates a pleasant lighting corona, making the surface-

mounted luminaire appear to float below a cushion of light.

Suspended from the ceiling, the LIGHT FIELDS evolution pendant luminaire cannot fail to impress on account of the perfect interplay of indirect and direct light. Its large direct light component of 80 percent provides sufficient vertical illumination while significantly reducing energy consumption. Its indirect light component of 20 percent ensures perfect quality: the ceiling is brightened up pleasantly,

the gentle transition between the luminaire and the background providing good ergonomic compatibility. The light source, which is fitted with innovative litePrint® waveguide technology (patent pending), remains concealed despite its minimum height and delicate frame. This means that the high luminance of the individual LED lighting points is resolved perfectly. Featuring a slim-line, minimalist unit made of high-grade aluminium, the pendant luminaire can be easily integrated into contemporary office interiors.

*Design: Chris Redfern, Sottsass Associati*

\* total height of luminaire: 56 mm

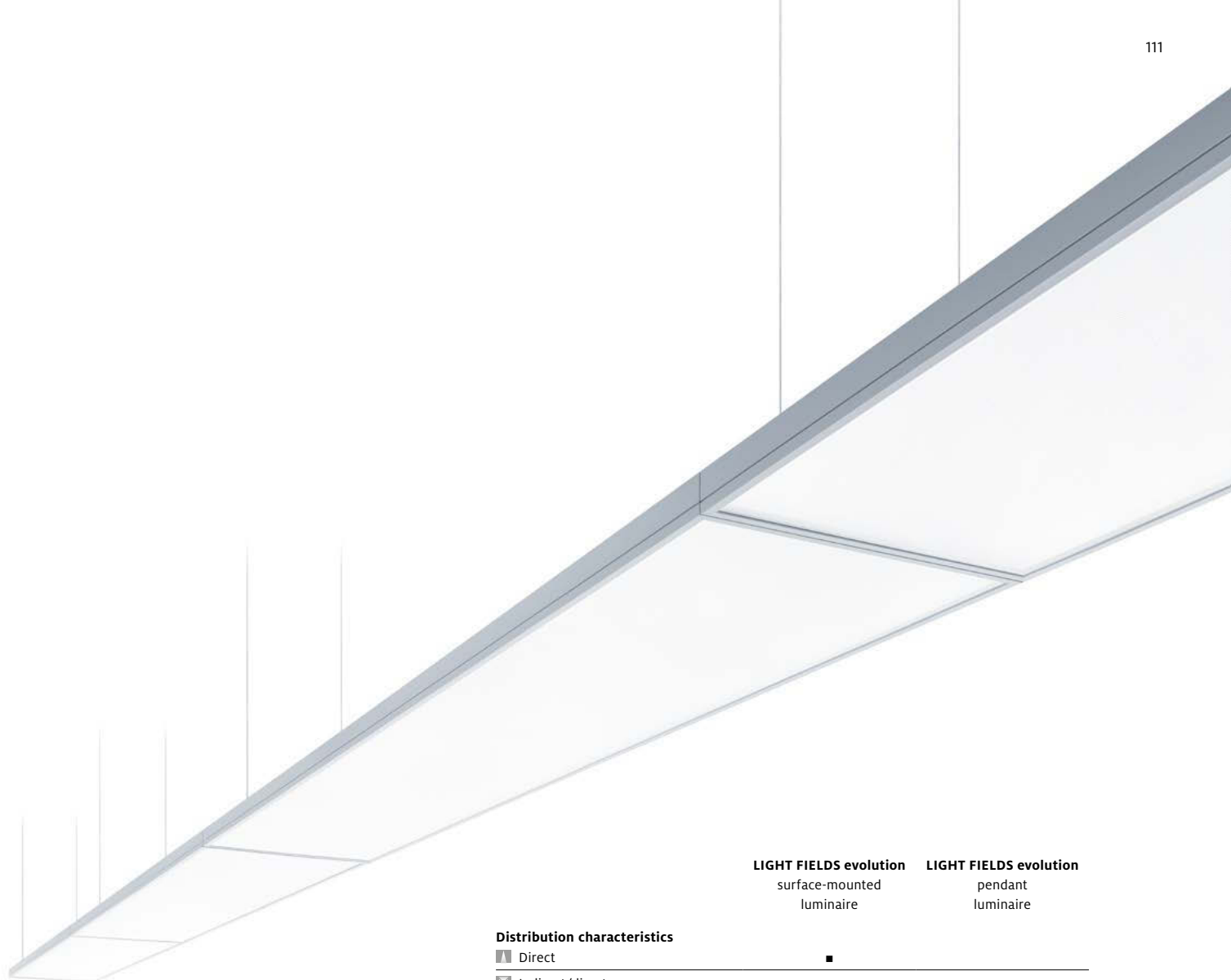
\*\* except for MINI version

## LIGHT FIELDS evolution

Surface-mounted and pendant luminaire



Surface-mounted and pendant luminaires featuring sidelit lighting technology  
for minimum height



**LIGHT FIELDS evolution**  
surface-mounted  
luminaire

**LIGHT FIELDS evolution**  
pendant  
luminaire

**Distribution characteristics**

■ Direct

■ Indirect/direct

**Colour**

White

Silver

Aluminium

Brown

Black

**Installation**

Cluster

Continuous-row system

**Dimensions**

324 x 324 mm

636 x 636 mm

1218 x 268 mm

1518 x 268 mm

**LED**

1500 lm / 3000 K / Ra 80

3600 lm / 3000 K / Ra 80

4200 lm / 3000 K / Ra 80

4400 lm / 3000 K / Ra 80

5200 lm / 3000 K / Ra 80

1600 lm / 4000 K / Ra 80

3800 lm / 4000 K / Ra 80

4600 lm / 4000 K / Ra 80

5600 lm / 4000 K / Ra 80

4200 / 2700–6500 K / Ra 90

4800 / 2700–6500 K / Ra 90

**litePrint®**

In case of light injected laterally, the precisely calculated dot matrix of the litePrint® light guide ensures uniform illumination of the complete luminaire surface. At the same time, a precisely defined light component is directed upwards in specific regions, via openings in the luminaire housing. No additional LED modules are required for the 5–20 percent indirect component.





↑ **Diesel SpA, Molvena | IT**

Architecture: Diesel Creative, Breganze / F & M Ingegneria SpA, Milan | IT  
Lighting solution: ECOOS, IYON, CRAFT

↓ **Maroplastic AG, Reitnau | CH**

Lighting solution: ECOOS, LIGHT FIELDS, LIGHT FIELDS MINI LED, SLOTLIGHT II, CAPA LED, 2LIGHT, PANOS, TECTON, CROSSIGN, RESCLITE escape, RESCLITE antipanic, ONLITE central



# ECOOS

## Individual luminaire and continuous-row system – 360° light

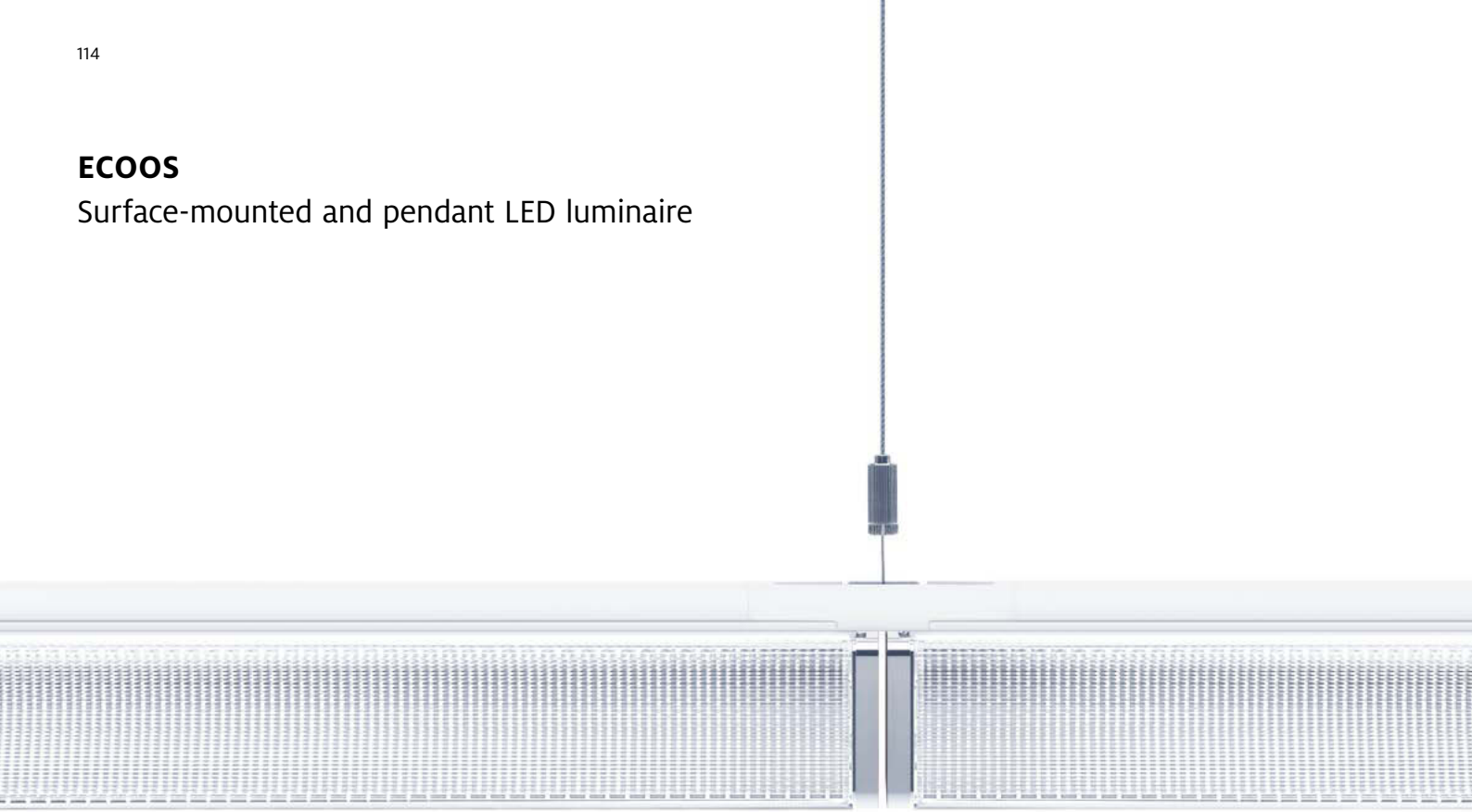
This luminaire is right up with the times. ECOOS's rounded corners team consistent straight lines with soft contours. It embodies an equally sophisticated interplay of features and materials. The textured surfaces of the luminaire unit are attractively finished off by shiny chrome end caps. The MPO+ micro-pyramidal optic and perforated lateral reflectors make the luminaire sparkle like crystal. ECOOS has a brilliant look which enhances both workspaces and communication areas alike. It achieves this through the effect of

light and the vista it produces. ECOOS is economically efficient and environmentally compatible – it provides all-round 360 degree light using just one light source and fulfils a wide range of tasks. For working, for relaxing and for a pleasant room effect. It has a versatile range of uses. Office buildings and educational establishments are just two application areas where ECOOS meets both technical lighting and maintenance requirements with maximum economic efficiency.



## ECOOS

### Surface-mounted and pendant LED luminaire

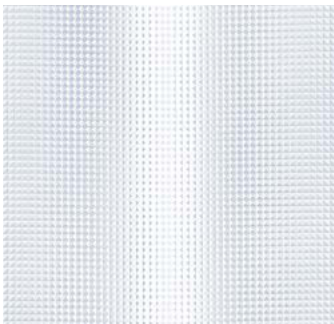


ECOOS continuous-row system with connector

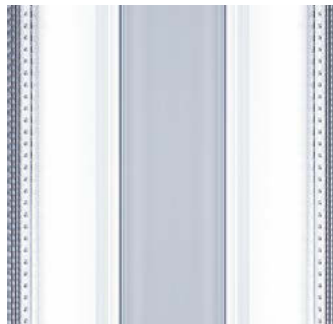
Excellent light output ratios and a large direct component make the ECOOS LED luminaire one of the most efficient indirect/direct luminaires available on the market. Its complex system of optics and reflectors is highly effective. It delivers light which fulfils specific tasks in every respect. Indirect, direct and lateral light components ensure efficient task area lighting and also allow vertical illuminance

levels. These improve visual comfort and concentration, while bright ceilings and walls create a pleasant atmosphere.

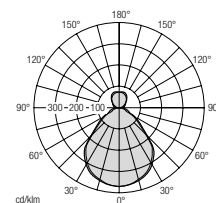
Defined light emission with  $L < 3000 \text{ cd/m}^2$  at  $65^\circ$  and  $UGR < 19$  is achieved by guiding the direct component through multiple layers via the MPO+ micro-pyramidal optic, diffuser film and reflectors.



**MPO+**, Zumtobel's unique micro-pyramidal optic: outstanding glare control enables luminaires to be arranged freely, parallel or vertical relative to window frontage, and even directly above workstations.





**Indirect light component**, wide-angle distribution: even with the minimum pendant length of 35 cm, the diffuser-pearl enclosure ensures uniform ceiling illumination.



ECOOS LED

Mainly direct distribution characteristics (ID/DI – 1:3 ratio) combined with the luminaire's high operating efficiency of 90% provide particularly energy-efficient lighting solutions. The balanced indirect component visually brightens up the room, creating a pleasant atmosphere.

	ECOOS A LED surface-mount luminaire	ECOOS ID LED pendant luminaire	ECOOS TEC LED TECTON
<b>Distribution characteristics</b>			
 Direct			■
 Direct/indirect	■	■	
<b>Installation</b>			
Individual luminaire	■	■	■
Continuous-row system		■	■
<b>Dimensions</b>			
1207 x 120 x 80 mm	■	■	■
1507 x 120 x 80 mm	■	■	■
<b>LED</b>			
4400 lm / 3000 K / 4000 K / Ra80	■	■	
5400 lm / 3000 K / 4000 K / Ra80	■	■	
6600 lm / 3000 K / 4000 K / Ra80	■	■	
3000 lm / 3000 K / 4000 K / Ra80			■
3800 lm / 3000 K / 4000 K / Ra80			■
6000 lm / 3000 K / 4000 K / Ra80			■
<b>Accessoires</b>			
Transparent feeder cable		■	
Cord suspension		■	
Continuous-row connector		■	
Through-wiring		■	



### Stimulation in the morning

Colour temperature: 5000 K

$E_h^*$  (daylight and artificial lighting): higher than 500 lx

Aim: synchronising people's circadian rhythm,  
complete suppression of melatonin release



### During the day at sunshine

Colour temperature: 4000 K

$E_h^*$  (daylight and artificial lighting): higher than 1000 lx

Aim: enhancing people's well-being through  
well-matched colour temperature, accordingly warmer  
light colours during sunshine



### During the day with cloudy sky

Colour temperature: 6500 K

$E_h^*$  (daylight and artificial lighting): higher than 800 lx

Aim: enhancing people's well-being through  
well-matched colour temperature, accordingly cooler  
light colours with overcast sky



### Getting ready for sleep

Colour temperature: 2700 K

$E_h^*$  (daylight and artificial lighting): higher than 500 lx

Aim: synchronising people's circadian rhythm,  
no interference with melatonin release, restful sleep

\*  $E_h$  = horizontal illuminance

### Biological lighting effects

#### ONDARIA tunableWhite

A user study on lighting quality perceived in offices conducted jointly with Fraunhofer IAO shows that users' preferences with respect to colour temperature differ strongly. Usually, colour temperatures between 2700 K and 6500 K are perceived as ideal, with a clear preference for 4000 K and 5000 K. Another result of the study is that office users rate their situation at work significantly higher where it is possible for them to adjust the lighting to their individual needs. Since synchronisation of people's inner clock through daylight is not ensured indoors during the dark months of winter, DIN SPEC 67600:201304

also includes specific design recommendations for biologically effective lighting. In this case, artificial lighting solutions incorporating wide-area panels emitting diffuse light such as ONDARIA tunableWhite combined with lighting management are vital for supporting daytime activities and ensuring a good night's sleep.

Thanks to the LITECOM lighting management system and therefore continuously adjustable colour temperatures ranging from 2700 K to 6500 K, ONDARIA tunableWhite is perfectly tailored to the

users' individual needs and biological requirements – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.



Fraunhofer  
IAO

[zumtobel.com/litecom](http://zumtobel.com/litecom)

[zumtobel.com/study-office](http://zumtobel.com/study-office)



# ONDARIA

Beautifully recreating nature:  
comfortably soft light from a wide-area light source

Diffused wide-area lighting enhances people's sense of well-being and makes rooms appear larger and wider. ONDARIA relies on homogeneous illumination, which makes the luminaire almost seem like a skylight. In addition, its circular design allows fully flexible positioning in the room. An unobtrusive indirect component that brightens up the ceiling enhances the luminaire's low-profile design, so that it seems to float in the room. The luminaire can easily be installed without being opened. The small and medium versions of the opal lumi-

naire can also be mounted on the wall. This allows ONDARIA to enhance prestigious areas such as receptions, entrance and waiting areas as well as break-out zones and common rooms.

ONDARIA LRO allows the necessary glare control for office environments when working on a screen.

ONDARIA acoustic improves the room acoustics in "open-space" office environments through its special two-layer textile look.

# ONDARIA

## Overview

### Recessed

A range of practical accessories for recessed mounting is available to hide the ceiling cut-out and align the luminaire. Installation directly on the bare ceiling ensures load deflection. Alternatively, semi-recessed mounting is also possible.



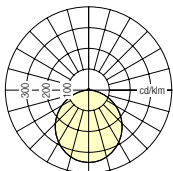
### Surface-mounted

The luminaire is surface-mounted directly on the ceiling or wall\*. Thanks to its small indirect component and slightly offset installation, the luminaire seems to float.



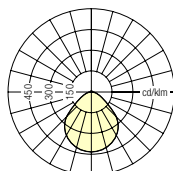
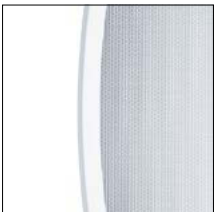
### Pendant

The ONDARIA range can be flexibly suspended from three delicate steel cords that are 2 or 4 m long.



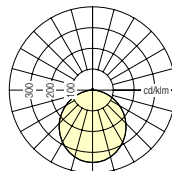
**ONDARIA opal**  
Diffused, soft light distribution

The comfortable light distribution and soft shadows create a cosy ambience, while activating luminance increases performance.




**ONDARIA LRO**  
For office applications

With a luminance of 3000 cd/m², ONDARIA LRO is the perfect solution for workplaces with screens inclined at a flat angle. Microprisms guide the light to the work surface thus banishing any risk of glare.



**ONDARIA acoustic**  
Round wide-area luminaire with sound absorption

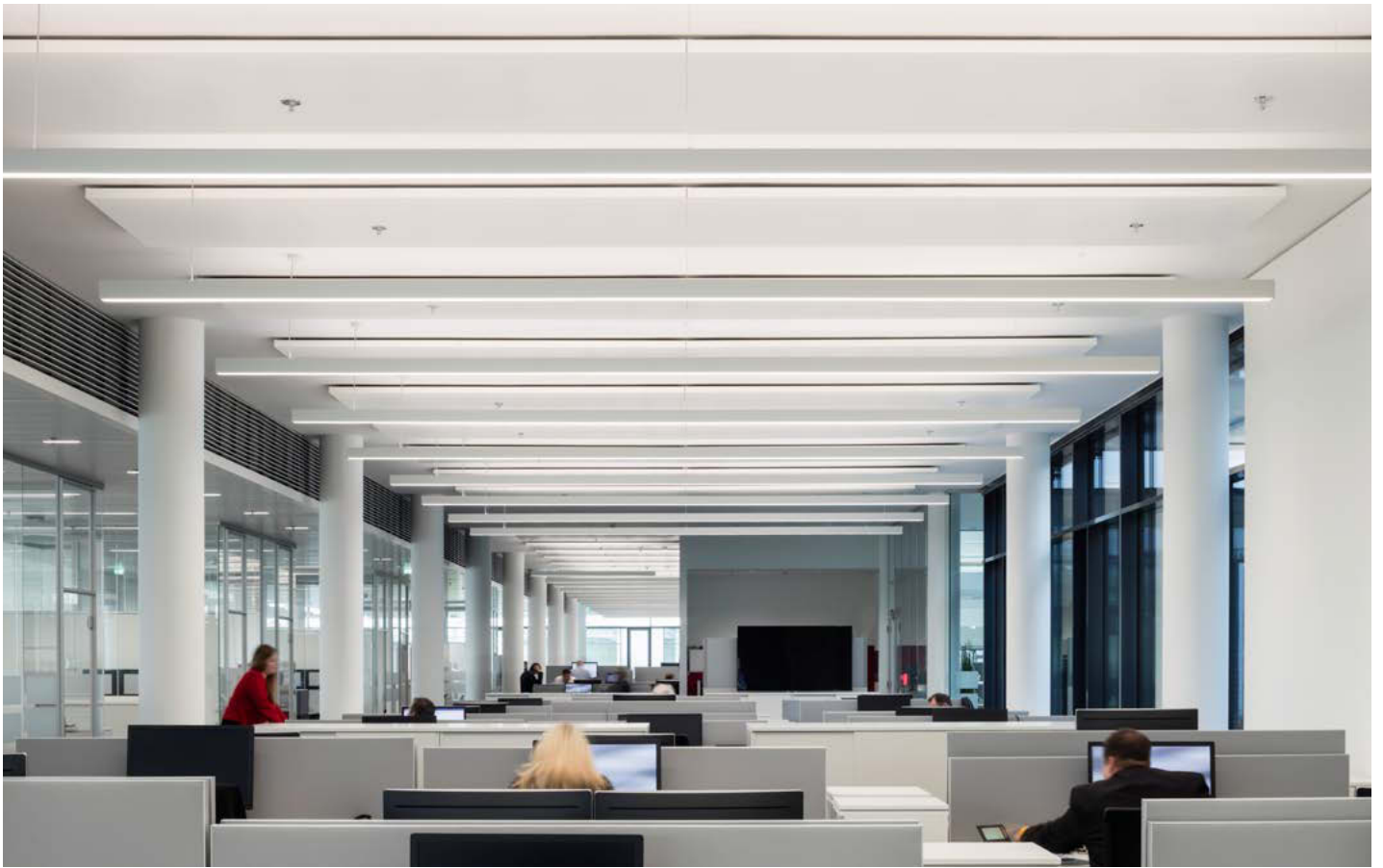
The round ONDARIA wide-area acoustic luminaire is optimised to meet the demands of contemporary offices that have an “open space” character, loft design or industrial look and feel.

	ONDARIA II LED opal	ONDARIA II LED LRO	ONDARIA II LED tunableWhite	ONDARIA II LED acoustic
<b>Distribution characteristics</b>				
 Wide-angle	■	■	■	■
<b>Installation</b>				
Recessed mounting	■	■	■	
Semi-recessed mounting *	■	■	■	
Surface mounting ceiling	■	■	■	■
Surface mounting wall **	■	■	■	■
Pendant	■	■	■	■
<b>Dimensions</b>				
Ø 400 mm / H 85	■	■		
Ø 590 mm / H 85	■	■	■	
Ø 870 mm / H 85	■	■	■	
Ø 1150 mm / H 85	■	■	■	
Ø 594 mm / H 103				■
Ø 874 mm / H 103				■
Ø 1154 mm / H 103				■
<b>LED</b>				
1600 lm / 3000 K, 4000 K / Ra 80	■			
1800 lm / 3000 K, 4000 K / Ra 80		■		
2600 lm / 3000 K, 4000 K / Ra 80	■			
3000 lm / 3000 K, 4000 K / Ra 80				■
3600 lm / 3000 K, 4000 K / Ra 80	■			
5800 lm / 3000 K, 4000 K / Ra 80	■			
6400 lm / 3000 K, 4000 K / Ra 80				■
8000 lm / 3000 K, 4000 K / Ra 80	■			
12000 lm / 3000 K, 4000 K / Ra 80	■			■
14000 lm / 3000 K, 4000 K / Ra 80	■			
22000 lm / 3000 K, 4000 K / Ra 80	■			
4000 lm / 3000 K, 4000 K / Ra 80		■		
9000 lm / 3000 K, 4000 K / Ra 80		■		
16000 lm / 3000 K, 4000 K / Ra 80		■		
2000 lm / 2700 K – 6500 K / Ra 80 tunableWhite				■
3400 lm / 2700 K – 6500 K / Ra 80 tunableWhite			■	
3600 lm / 2700 K – 6500 K / Ra 80 tunableWhite			■	
4000 lm / 2700 K – 6500 K / Ra 80 tunableWhite				■
7000 lm / 2700 K – 6500 K / Ra 80 tunableWhite			■	■
8000 lm / 2700 K – 6500 K / Ra 80 tunableWhite			■	
12000 lm / 2700 K – 6500 K / Ra 80 tunableWhite			■	
14000 lm / 2700 K – 6500 K / Ra 80 tunableWhite			■	
<b>Accessoires</b>				
Transparent supply cable	■	■	■	■
Cord suspension	■	■	■	■
Recessed housing	■	■	■	■
Cleaning set	■	■	■	■

\* only Ø 590 mm / Ø 870 mm / 1150 mm

\*\* only Ø 400 mm / Ø 590 mm / Ø 870 mm





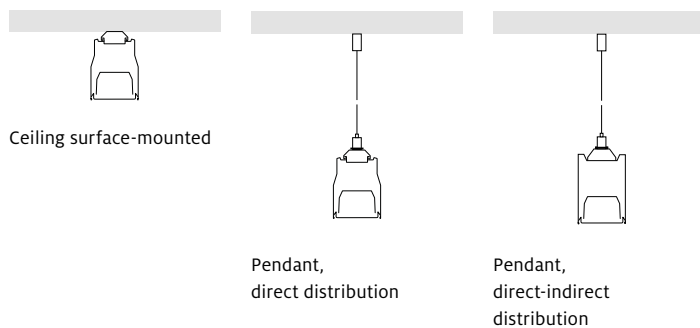
↑ **Brose Fahrzeugteile GmbH & Co. KG, Bamberg | DE**

Architecture: BM+P Architekten, Düsseldorf | DE

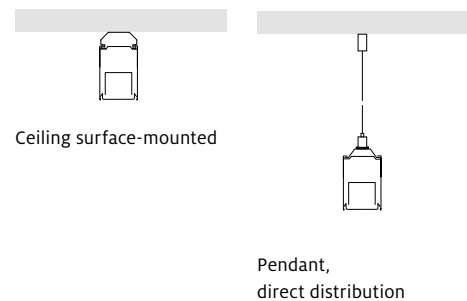
Lighting design: Tropp Lighting Design, Weilheim | DE

Lighting solution: SLOTLIGHT infinity, PANOS infinity,  
PERLUCE, ONLITE E-Box

**Installation SLOTLIGHT infinity**



**Installation SLOTLIGHT infinity slim**





# SLOTLIGHT infinity

The world's first consistent light line complies with the highest architectural and technical lighting requirements

In the ceiling, on the ceiling or suspended from the ceiling: the SLOTLIGHT infinity light line stays true to the principle of the perfect line, no matter how it is installed. Thanks to its innovative design, the individual assembly steps are now made even easier and, when installed flush with the ceiling, an attractive transition is also ensured. High-precision shadow gaps provide for perfect lighting.

SLOTLIGHT infinity knows how to take light round the corner, its illuminated L-connectors opening up new scope for creative design. Room geometries can be made clear more effectively, room zones can be redefined, and corner areas can be brought into sharper focus using light. The 90° angle modules are not merely connectors; they blend in as an integral part of the luminaire, their consistent, virtually end-to-end illumination being just as perfect as the dead straight light lines.

## Modernisation made easy

Looking to swap T16 for LED? Then look no further. A new LED batten means that all T16 SLOTLIGHT I and II fittings can easily be 1:1 retrofitted – using the existing installation channels. The LED batten fits perfectly into all SLOTLIGHT luminaires.

*For more information, see section 4.*

## SLOTLIGHT infinity

Surface-mounted/pendant LED luminaires



**SLOTLIGHT infinity**  
single luminaire  
silver



**SLOTLIGHT infinity**  
corner luminaire  
continuous-row, silver



**SLOTLIGHT infinity**  
wallwasher  
silver



**SLOTLIGHT infinity**  
single luminaire  
DI/ID, ID/D, black



**SLOTLIGHT infinity**  
corner luminaire  
continuous-row D/ID, ID/D, black







**SLOTLIGHT infinity slim**  
single luminaire  
silver



**SLOTLIGHT infinity slim**  
corner luminaire  
continuous-row, silver



**SLOTLIGHT infinity slim**  
wallwasher  
silver

		SLOTLIGHT infinity ind. luminaire surf.-mount./pend.	SLOTLIGHT infinity continuous-row surf.-mount./pend.	SLOTLIGHT infinity wallwasher surf.-mount./pend.	SLOTLIGHT infinity slim ind. luminaire surf.-mount./pend.	SLOTLIGHT infinity slim continuous-row surf.-mount./pend.	SLOTLIGHT infinity slim wallwasher surf.-mount./pend.
<b>Distribution characteristics</b>							
 Wide-angle		■	■		■	■	
 Direct/indirect		■	■				
 Indirect/direct		■	■				
 Wallwasher				■			■
<b>Casing colour</b>							
Silver		■	■	■	■	■	■
White			■	■			
Black			■	■			
<b>Optics</b>							
PMMA (opal)		■	■		■	■	
LRO (office)		■	■		■	■	
Wallwasher				■			■
<b>Installation</b>							
Surface-mounted /pendant	(B 76 mm / H 109 mm)	■	■	■			
Surface-mounted /pendant	(B 45 mm / H 64 mm)				■	■	■
<b>Corner luminaire module</b>							
Surface-mounted /pendant 543 x 543 mm		■	■				
Surface-mounted /pendant 775 x 775 mm					■	■	
<b>Module surface-mounted (channel / continuous-row channel)</b>							
1024 mm / –		■					
1274 mm / –		■					
1524 mm / –		■					
1774 mm / –		■					
2024 mm / 2000 mm		■	■				
2274 mm / –		■					
2524 mm / –		■					
2774 mm / –		■					
3024 mm / 3000 mm		■	■	■			
4024 mm / 4000 mm		■	■	■			
1004 mm / 1000 mm					■	■	■
1254 mm / 1250 mm					■	■	■
1504 mm / 1500 mm					■	■	■
1754 mm / 1750 mm					■	■	■
2004 mm / 2000 mm					■	■	■
2254 mm / –					■		■
2504 mm / –					■		■
2754 mm / –					■		■
3004 mm / –					■		■
3254 mm / –					■		■
3504 mm / –					■		■
3754 mm / –					■		■
4004 mm / –					■		■
<b>LED</b>							
stableWhite (2700 K)					■	■	■
stableWhite (3000 K)		■	■	■	■	■	■
stableWhite (4000 K)		■	■	■	■	■	■
tunableWhite (2700 K – 6500 K)		■	■				
RGB/W		■	■				
<b>Inserts</b>							
Blind cover 6/10 m		■	■		■	■	
Opale cover (PC) 6/8/10/15/20/25/30/35/40/45/50 m		■	■		■	■	
Office cover (PCO) 6/10/20 m		■	■		■	■	
Wallwasher cover 6/10/20 m				■			■
Reflector (wallwasher) 250/500/750/1000 mm				■			■
<b>Accessories</b>							
Set of end caps		■		■	■		■
Masking plate			■			■	
Channel connector		■	■	■	■	■	■
PST-set		■	■				

**Cross section**

60 mm x 27 mm

**Length**160 mm | 310 mm | 610 mm  
910 mm | 1810 mm**Luminous flux**

1200 lm/m | 2500 lm/m\*

**Colour temperature**2700 K | 3000 K | 4000 K  
balancedWhite: 2700 K to 6500K**Colour rendering**

Ra 80

**Colour tolerance**

MacAdam 2

**Accessories**

Reflector for glare protection

\* configure online via myLinelight

# LINELIGHT

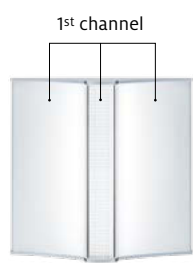
A linear LED luminaire for individual architectural requirements

A new type of alignment extends the arch of architectural design. LINELIGHT creates an extravagant sense of space with light that leads seamlessly around every corner. Expressive arches of light skillfully master every curve – without dark spots. The luminaire can also be tilted by 30 degrees on both sides to fully exploit the design potential.

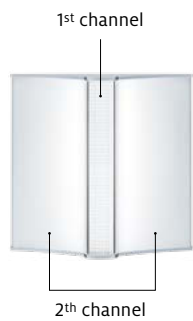
The lines are as individual as the lighting design: LINELIGHT fulfils both enhancing and functional lighting tasks. Whether concealed as an arch or visible with additional glare protection, the light modules shine in every sense with easy handling and uniform light output – even around corners. High levels of power and colour reproduction are also part of the package, while another benefit is quick and easy installation. The luminaires are simply plugged together and lengths of up to 12 metres can be operated using a single control unit.



MELLOW LIGHT evolution



MELLOW LIGHT infinity





# MELLOW LIGHT evolution / infinity

Surface-mounted LED luminaire

## MELLOW LIGHT evolution

A sky for the office: the brightness is distributed gently and uniformly throughout the room. The well-balanced illumination of the work surface, wall and ceiling creates an open, bright atmosphere in the room and helps prevent glare and irritating shadows. The perfectly dispersed LED points remain invisible.

## MELLOW LIGHT infinity

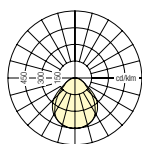
The lighting can be adjusted flexibly to suit different needs and situations thanks to separately controllable light channels. The two lighting wings create a pleasant background brightness to give the room an inviting atmosphere. Switching on the direct light component in the middle supplies the work surface with perfectly targeted light.

*Design: Daniel Stromborg,  
Practice Area Leader, Gensler*

## MELLOW LIGHT evolution / infinity

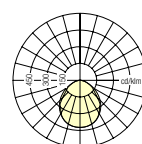
The daylight classic

### Surface-mounted luminaire




#### Crystal optic

This re-interpretation of the classic lens optic guarantees glare-free illumination with up to 4800 lumens. This makes it ideal for areas that require more than 500 lux or where there are greater distances between the luminaires. The contrast with the diffuse lighting wings also creates some impressive lighting effects.



#### Lenticular optic

Prism louvres create a gentle and homogeneous appearance while offering excellent glare suppression with up to 3500 lumens. The UGR < 19 classification, this complies with the applicable standards for DSE workstations.

	<b>MELLOW LIGHT evolution</b>		<b>MELLOW LIGHT infinity</b>	
	crystal optic	lenticular optic	crystal optic	lenticular optic
<b>Distribution characteristics</b>				
 Extremely wide-angle	■	■	■	■
<b>Surface-mounted</b>				
600 x 582 x 69 mm	■	■	■	■
1151 x 349 x 69 mm	■	■	■	■
<b>LED</b>				
3600 lm / 3000 K / Ra 80	■	■	■	■
3600 lm / 4000 K / Ra 80	■	■	■	■
3600 lm / 2700–6500 K / Ra 90	■	■	■	■
4800 lm / 3000 K / Ra 80	■		■	
4800 lm / 4000 K / Ra 80	■		■	
4800 lm / 2700–6500 K / Ra 90	■	■	■	■
<b>End caps</b>				
White	■	■	■	■
Silver	■	■	■	■
Aluminium	■	■	■	■
Brown	■	■	■	■
Black	■	■	■	■
<b>Accessories</b>				
TECTON adapter *	■	■	■	■
Cable strain relief set	■	■	■	■
PMMA Optics cleaning kit	■	■	■	■

\* only for linear luminaires

**Visible height**

26 mm

**Individual length**

1280 mm | 1580 mm

**Double length**

2480 mm | 3080 mm

**Width**

128 mm

**Output**

indirect 54 %

**Luminaire luminous flux**

4400 lm | 6000 lm

8800 lm | 12 000 lm

**Colour temperature**

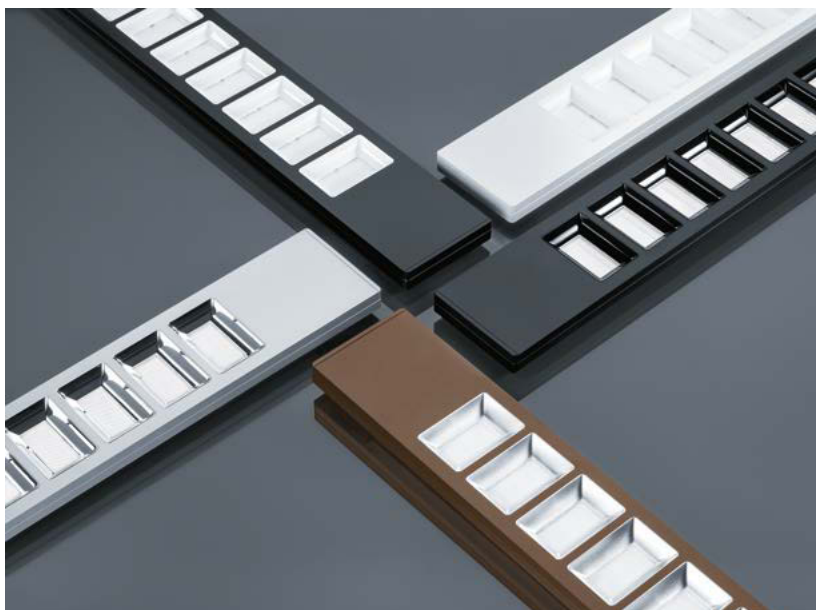
3000 K | 4000 K

**Colour rendering**

Ra &gt; 80

**Luminaire efficiency**

up to 150 lm/w

**Colours for the housing**

Aluminium pressed precisely onto the edge lays the foundation for new colour finishes in a straightforward design.

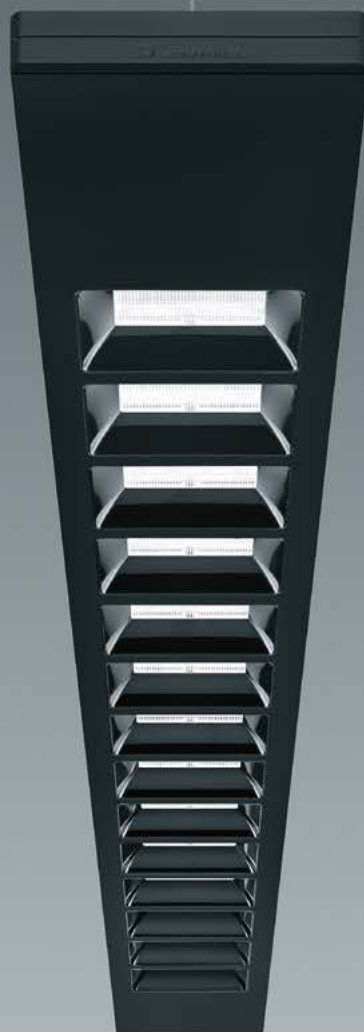
White | Silver | Black | Bronze

**Matt and glossy reflectors**

Following the principle of a modular system, the reflector can combine any colour with a matt or shiny surface.

2 x White | 2 x Silver | 2 x Black





# CLARIS evolution

The return of a design legend

Its straightforward and geometric design makes CLARIS a classic for office lighting, helping it fit effortlessly into any office architecture. This elegant fitting presents itself as a tasteful design alternative to luminaires with continuous opal optics. With a width of 128 mm and a visible height of only 26 mm, CLARIS evolution looks particularly light and slim.

Four by six combinations: CLARIS evolution offers the chance to really differentiate from the norm. With a personal touch, office rooms benefit from a homely atmosphere. The

choice of glossy or matt reflectors can also influence the lighting effect. For example, a shiny silver reflector casts no hard shadows, while a matt white reflector lets the luminaire and room shine in soft light.

Progress, colour and design: CLARIS evolution lets offices shine in new splendour. With the refurbishment kit for lighting renewal, CLARIS II luminaires can be replaced very quickly. The workload is reduced to a minimum, as an adapter plate ensures that the original ceiling installation can be retained. Modern workplace lighting now consumes just under a third of the energy.

## Smart lighting control via Bluetooth

A large part of the luminaire range is offered with optional basicDIM radio technology for wireless control. Communication with the luminaires is achieved using an app for mobile devices. This means that even existing lighting solutions can be modernised quickly, as lighting control does not require any additional wiring.

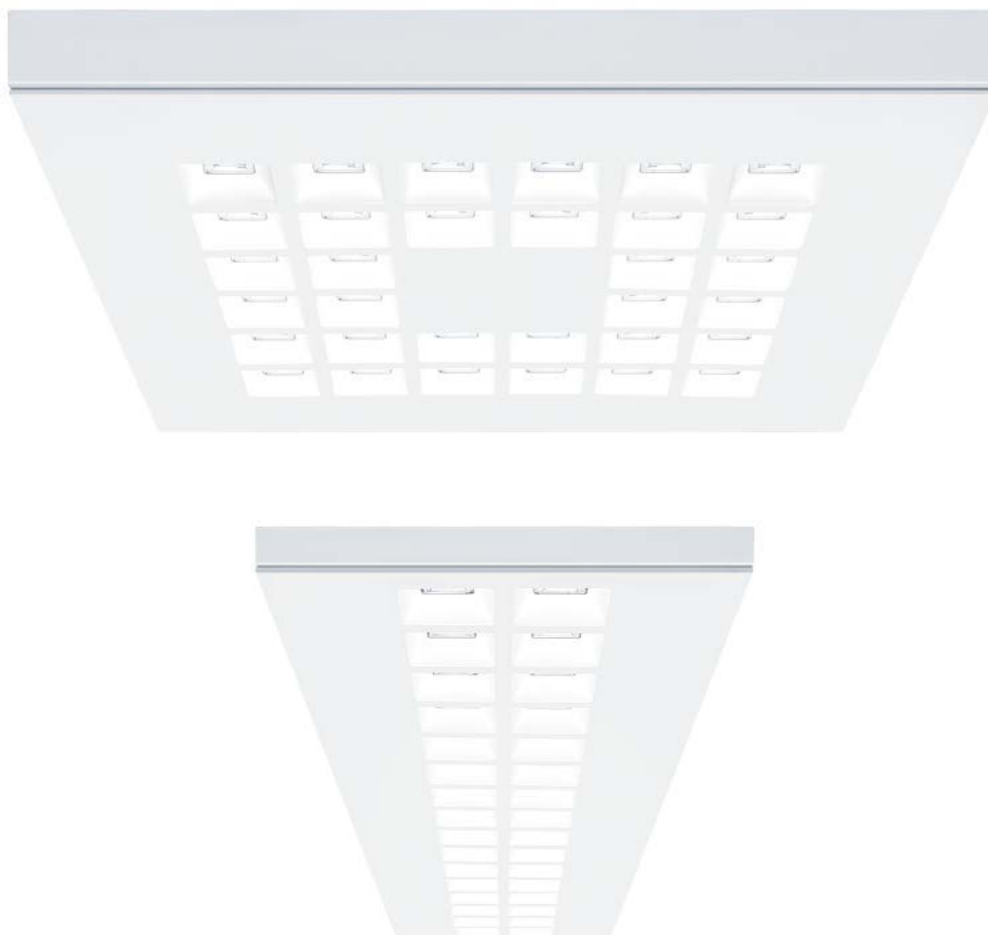




↑ **C.O.B.A. Consorzio Ortofrutticolo Bassa Anaunia, Denno (TN) | IT**

Architecture and lighting design: Studio Azzali S.N.C., Trentino | IT

Lighting solution: MIREL evolution, LINCOR, LIGHT FIELDS evolution, TECTON LED



# MIREL evolution

Surface-mounted and suspended LED luminaire with lens optic

MIREL evolution is the next generation of the MIREL product range. By giving the luminaire a distinct appearance, Zumtobel faces the challenge of integrating energy-efficient LED technology in proven design with a unique appearance: the cluster of lenses of the MIREL evolution are visible to users. Its design being clear, unobtrusive and universally applicable, the luminaire comes with great potential for lighting quality and energy efficiency. Only 52 mm high, MIREL evolution is the flattest surface-mounted luminaire in the Zumtobel range. When it comes to luminaire efficiency, it is exemplary, too: up to 140 lumens

per watt result in short payback periods. Light distribution is effected via the lenses at a rate of 95 per cent; only 5 per cent are accounted for by the reflections from the lighting chamber. The lumen packages and module sizes, however, have not changed as compared to the classic recessed luminaire. Accordingly, conventional luminaires can simply be replaced by exchanging them 1:1. Another benefit: MIREL evolution is available in many versions, for instance as an emergency luminaire with separate battery supply.

*Design: Studio Ambrozus*

## MIREL evolution

Surface-mounted and pendant LED luminaire



**MIREL evolution surface-mounted luminaire**  
linear



**MIREL evolution surface-mounted luminaire**  
square







**MIREL evolution mini surface-mounted luminaire**  
square



**MIREL evolution pendant luminaire**  
linear



**MIRAL FAW LED surface-mounted wallwasher**  
linear

	MIREL evolution surface-mounted with lens optic linear	MIREL evolution surface-mounted with lens optic square	MIREL evolution surf.-mounted mini with lens optic square	MIREL evolution pendant luminaire with lens optic linear	MIRAL FAW LED surface-mounted wallwasher linear
<b>Distribution characteristics</b>					
 Wide-angle	■	■	■	■	
 Extremely wide-angle	■	■		■	
 Direct/indirect				■	
 Wallwasher					■
<b>Dimensions</b>					
230 x 230 x 63 mm			■		
1200 x 187 x 73 mm					■
1200 x 300 x 52 mm	■				
600 x 600 x 52 mm		■			
1348 x 238 x 41 mm				■	
<b>LED</b>					
1200 lm / 3000 K / 4000 K / Ra80			■		
2800 lm / 3000 K / 4000 K / Ra80	■	■			
3000 lm / 3000 K / 4000 K / Ra80				■	
3800 lm / 3000 K / 4000 K / Ra80	■	■			
5800 lm / 3000 K / 4000 K / Ra80				■	
4400 lm / 4000 K / Ra80					■
<b>Accessories</b>					
Continuous row kit				■	
Continuous row connector				■	

MIREL evolution luminaires with lens optic also available in black.



↑ **Symantec Offices, Dubai | AE**

Lighting design: Acoulite Trading LLC, Dubai | AE

Lighting solution: LINCOR, PANOS infinity, MICROS



# LINCOR

Indirect/direct light at the highest LED level:  
slim, convenient and efficient

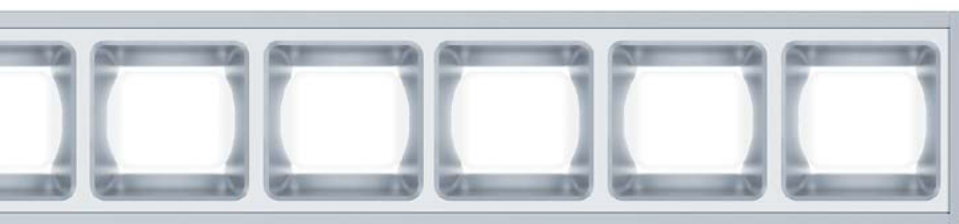
With its slim and unobtrusive design, the LINCOR LED luminaire draws an elegant line through the room, its contemporary minimalism enhancing room axes and architectural concepts. Arranged as a double-length light line or a continuous-row system, it is an expression of maximum linearity. Efficient LED technology takes full effect in a section of only 63 mm square – resulting in high-quality indirect/direct lighting. All good things come in threes: increasing luminaire efficiency using innovative LED technology – increasing

a room's lighting quality using additional indirect light – and eliminating compromises in terms of design. The innovative LINCOR lighting technology (patent pending) meets each one of these requirements with minimum dimension. The luminaire's sustainability and user convenience are supported by the following figures: luminaire efficiency of 126 lumens per watt, colour temperatures of 3000 K and 4000 K, and a large direct light component of 83 %.



## LINCOR

### Luminaire range



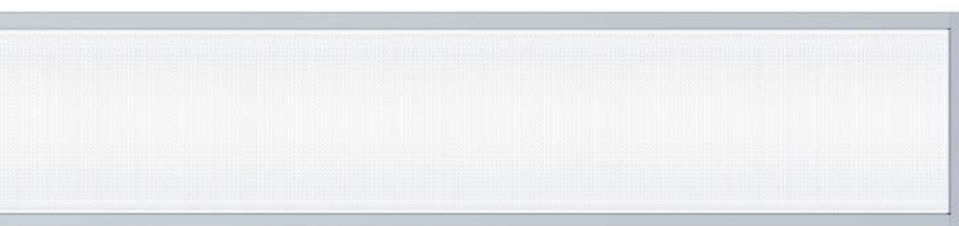
#### LED minicells **Comfort**

The matt Comfort cell makes direct light safely visible. The luminaire appears as a uniformly illuminated light line enhancing architectural structures to optimum effect.



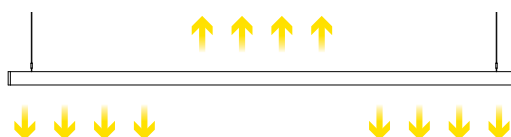
#### LED minicells **Darklight**

In contrast, the highly specular darklight cell hides the direct light component. Thus, LINCOR provides optimum glare control and lets the light flow into the room from a hidden source.





#### **LRO**

Thanks to the luminaire-reducing optic, LINCOR can be used even more flexibly: harsh shadows in task areas and annoying reflections are effectively reduced by prismatic lighting technology.



#### **CRF**

The most recent addition to the versatile LINCOR product range is a double-length pendant LED luminaire focusing on superior lighting quality without reflected glare. LINCOR CRF provides indirect and direct lighting – however, the latter only from the laterally arranged light emitting areas. Thanks to a central part from which no light is emitted downwards, the luminaire meets the highest demands regarding contrast rendition, even where placed directly above the workstation; it avoids annoying reflections on glossy surfaces and is therefore ideally suited for working at tablet PCs. Thanks to a special lens, the ceiling is uniformly brightened up by indirect light distribution. LINCOR CRF is available with a matt Comfort optic or a highly specular Darklight optic, and with a colour temperature of either 3000 K or 4000 K.

	LINCOR pendant luminaire	LINCOR surface-mounted luminaire
<b>Distribution characteristics</b>		
 Direct		■
 Indirect/direct	■	
<b>Optics</b>		
Comfort minicells	■	■
Darklight minicells	■	■
LRO	■	
CRF	■	
<b>Colour</b>		
Silver	■	■
White (optional)	■	■
<b>Installation</b>		
Individual luminaire	■	■
Continuous-row system	■	
<b>Dimensions</b>		
1209 x 63 x 64 mm	■	■
2407 x 63 x 64 mm	■	■
<b>Lumen packages (3000 K / 4000 K)</b>		
4200 lm (C, D)		■
4600 lm (LRO)	■	
5000 lm (C, D)	■	
8400 lm (C, D)		■
9200 lm (LRO)	■	
10 000 lm (C, D)	■	
8600 lm (CRF C, D)	■	
<b>Accessories</b>		
Power-feed-kit	■	
Continuous-row connector	■	
TECTON adapter		■

## Pendant luminaires



LINCOR **single length** 1209 mm, up to 5000 lm



LINCOR **double length** 2407 mm, up to 10 000 lm



LINCOR **continuous-row system**

## Surface-mounted luminaires



**Single length** 1209 mm, up to 4200 lm  
*Optionally available with TECTON trunking adapter*



**Double length** 2407 mm, up to 8400 lm



DC String technology by Tridonic allows electricity and data to be transferred through the cable, along with separate control of the direct and indirect components. No cables are needed to stylishly and variably tailor the light's direct and indirect shares to room conditions, ceiling heights and degrees of reflection. The freely adjustable cord length offers additional flexibility.

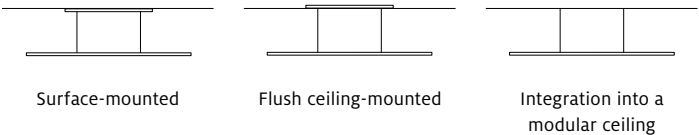
**Luminaire**  
Black | White | Silver\*



**Reflector frame**  
Black\* | White\* | High-gloss aluminium



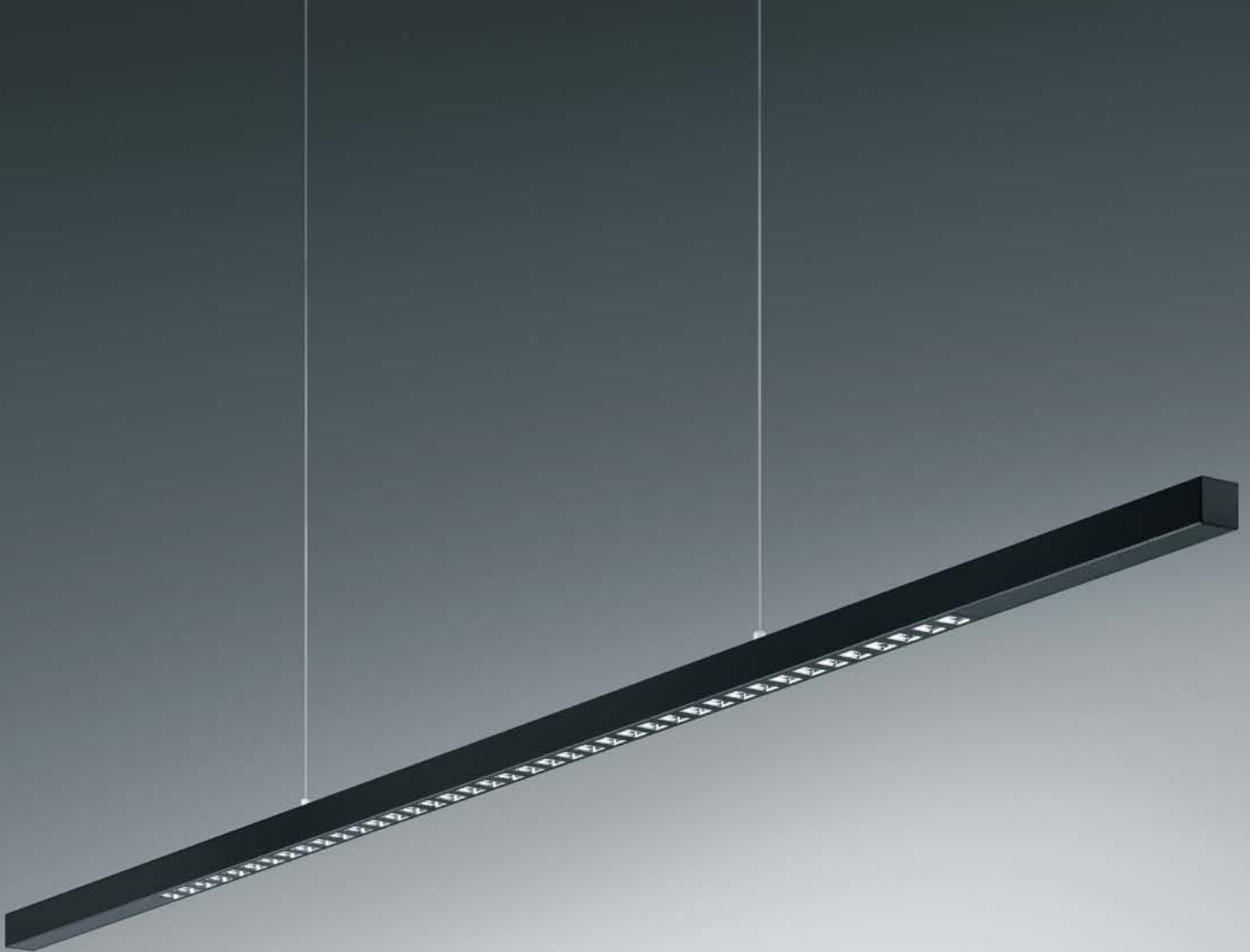
Installation options for the converter housing



**Converter housing\***  
Black | White | Silver



\*pendant luminaires only  
Colours selected via myLINETIK



# LINETIK suspended

Maximum lighting comfort, minimal dimensions

With a cross-section of just 25 x 25 mm, LINETIK is the slimmest professional office luminaire on the market. No other product that satisfies the required standards can compete with these dimensions – and no other product boasts such a consistently linear concept with cables that transfer electricity and data directly to pendant luminaires. LINETIK strikes the perfect balance between room and workplace lighting. This powerful solution with zero glare offers full compliance with all the requirements of EN 12464. The individually adjustable direct and indirect

components allow you to adjust the light to suit your specific space and situation with complete freedom and flexibility.

The minimalist and linear design of the LINETIK range is easy to integrate into any architectural concept – whether you opt for white or black or for pendant fittings with a luminaire head, reflector and converter housing in your own unique colour combination.

*Design: Simon Fisher, Matt Free, F Mark Ltd;  
Luke Smith-Wightman*



↑ **Duifhuizen tassen & koffers B.V., Veenendaal | NL**

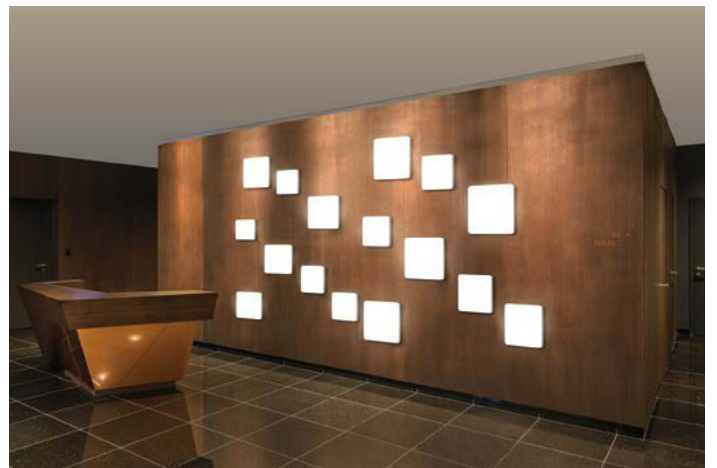
Architecture: Pinkeye, Antwerp | BE

Lighting solution: CAELA, IYON



**Two by two: Size and shape**

The CAELA family concept shows the possibility to combine different models at your discretion and thus shape individual sculptures with big and small, round and square luminaires.





# CAELA

Slimmer and more precise

CAELA represents a beautiful blend of elegance and levity. The range boasts a series of low-profile luminaires with a highly sophisticated appearance and exceptional versatility. As a wall-mounted, ceiling-mounted or pendant luminaire, CAELA provides decorative highlights in corridors and entrance areas. Even in restaurants or private domestic areas, this lighting solution adjusts perfectly to the ambience of a particular room. CAELA is

available as a round or square luminaire with a diameter or side length of 330 mm and 430 mm. The different versions can be specified in one of six colours (white, matt silver, copper, brass, matt grey and black). The modular design of CAELA is reflected in the choice of switchable or dimmable models, with a luminous flux of 1000 lm and 2100 lm.

*Design: GRAFT Berlin*





## CAELA

A luminaire for all instances

### Pendant installation

The standard 2000 mm pendant tube can be cut to any length at the construction area, which makes a composition of different installation heights very easy. Since the luminaires can also turn 355° and tilt 45°, several luminaires form a curve, a wave or architectural structure as desired.



### Ceiling mounting



Round or square, big or small: The installation height of all models is only 57 mm.



### Wall mounting

Regardless of size, light distribution or shape: A fitted CAELA only extends a meagre 57 mm into the room.



	CAELA opal	CAELA clear
<b>Distribution characteristics</b>		
 Lambertian	■	
 Asymmetrical		■
<b>Style</b>		
Circular	■	
Square	■	■
<b>Colour</b>		
White	■	■
Matt silver *	■	■
Grey **	■	■
Black **	■	■
Brass **	■	■
Copper **	■	■
<b>Installation</b>		
Wall installation	■	■
Ceiling installation	■	
Pendant installation	■	
<b>Dimensions</b>		
Ø 334 mm	■	
□ 331 mm	■	■
Ø 432 mm	■	
□ 431 mm	■	■
<b>LED</b>		
1100 lm / 3000 K, 4000 K / Ra80	■	
1200 lm / 2700, 3000 K, 4000 K / Ra80	■	
1000 lm / 3000, 4000 K / Ra80		■
1500 lm / 3000, 4000 K / Ra80	■	
2100 lm / 2700, 3000 K, 4000 K / Ra80	■	
1600 lm / 3000, 4000 K / Ra80		■

\* Alternative standard colour for the housing

\*\* Additional colours for personalising all components in myCAELA product configuration tool

Standard colour scheme: Diffuser such as housing, pendantrod and ceiling rose in white



↑ **swisspro AG, Zurich | CH**

Architecture: CB Richard Ellis, London | UK

Lighting solution: SCONFINE Sfera, PANOS infinity, LIGHT FIELDS, CAPA

↓ **Planquadrat Gaiser & Partner Architekten, Sigmaringen | DE**

Architecture: Planquadrat Gaiser & Partner Architekten, Sigmaringen | DE

Electrical design: EZS GmbH & Co. KG, Sigmaringen | DE

Lighting solution: SCONFINE Sfera, SEQUENCE, VIVO LED, SLOTLIGHT LED



# SCONFINE Sfera

Spherical pendant luminaires, apparently weightless and floating

SCONFINE Sfera is a range of spherical pendant luminaires with partly transparent chrome or bronze coating, with the lamps of the LED module visibly located in the luminaire unit. They provide both direct radiation into the area required and reflection inside the luminaire unit, making it appear to float. An opal inner sphere (accessory) ensures optimum glare control in conjunction with the chrome coating – enhancing the impression of plasticity and room depth.

## SCONFINE Sfera LED

The spherical SCONFINE Sfera pendant luminaire creates impressive, decorative accents with an interplay of light and shadow in hotel lobbies as well as shops, foyers or mansions. The partly transparent, chrome- or bronze-plated luminaire units with diameters of 170 mm, 250 mm and 500 mm are exceptionally attractive, both as individual luminaires and luminaire groups.

*Design: Matteo Thun*

SCONFINE Sfera  
Overview

SCONFINE Sfera 170 LED  
SCONFINE Sfera 170 LED bronze



SCONFINE Sfera 250 TCD-SE  
SCONFINE Sfera 250 TCD-SE bronze



SCONFINE Sfera 250 LED  
SCONFINE Sfera 250 LED bronze





SCONFINE Sfera 500 TCG-SE  
SCONFINE Sfera 500 TCG-SE bronze



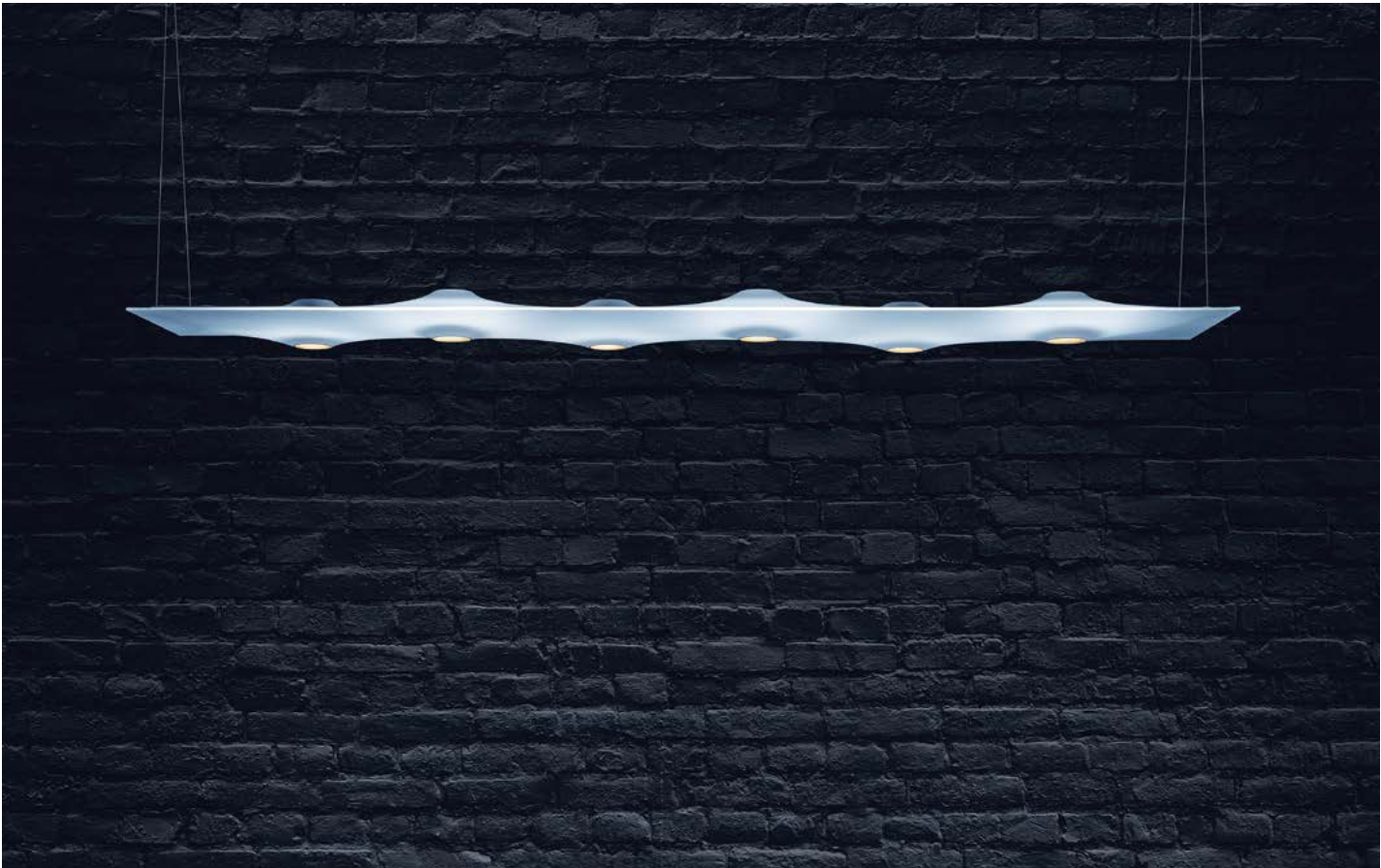
SCONFINE Sfera 500 LED  
SCONFINE Sfera 500 LED bronze



	SCONFINE Sfera 170 LED	SCONFINE Sfera 250 TCD/TCG	SCONFINE Sfera 250 LED	SCONFINE Sfera 500 TCD/TCG	SCONFINE Sfera 500 LED
<b>Distribution characteristics</b>					
 Narrow-beam	■		■		■
 Wide-angle	■	■	■	■	■
<b>Colour</b>					
Chrome	■	■	■	■	■
Bronze	■	■	■	■	■
<b>Installation</b>					
Transparent suspension cord* (L 3000 mm)	■	■	■		
Transparent suspension cord* (L 4000 mm)				■	■
<b>LED</b>					
500 lm spot (2700 K, Ra > 90 )	■		■		■
550 lm spot (3000 K, Ra > 90 )	■		■		■
600 lm flood (2700 K, Ra > 90 )	■		■		■
700 lm flood (3000 K, Ra > 90 )	■		■		■
<b>Compact fluorescent lamps</b>					
TCD-SE		■			
TCG-SE				■	
<b>Accessories</b>					
Inner sphere made of opal glass		■		■	

\* Standard (including ceiling rose)





Luminous flux	up to 6000 lm
Colour rendering index min.	90
Colour temperature	3000 K / 4000 K / 2700 – 6500 K
Downlights/Diffuse light	(tunableWhite)
Sizes	1800 x 350 mm
	1200 x 350 mm
	600 x 600 mm



# TEELA

Gives a room an aura

The multi-faceted TEELA luminaire is mainly designed to create a changeable atmosphere in rooms and to suit the sensibilities of individual users. A symbiosis of precise shape and functionality, combined with the surface properties, are what give TEELA its atmospheric character. A luminaire that can provide a variety of tones when it becomes part of a room.

*"The TEELA luminaire affects sense perceptions while simultaneously defining the physiological experience of spatial quality. This unique character elevates it above mere functionality."*

*"As an interpretation of the endless changeability of light, this luminaire lends any room a special atmosphere and triggers a wide range of emotions in its users."*

*Design: Roman Delugan, Founder and Partner;  
Martin Josst, Partner – Delugan Meissl  
Associated Architects*

# Free-standing and wall-mounted luminaires



Lighting solution: Free-standing and pendant luminaire LINETIK





Free-standing and  
wall-mounted luminaires

- 154 **LINETIK**  
*LINETIK suspended see chapter 5*  
**LIGHT FIELDS evolution**  
**MIREL evolution**  
**CAPA**

Recessed wall luminaires

- 158 **KAVA LED**

Wall-mounted and  
ceiling-mounted luminaires

- 162 **HELISSA**  
**CAELA see chapter 5**





↑ **LINETIK | LED free-standing luminaire**

Not so much a luminaire, more of a delicate object with a great effect: LINETIK speaks a clear, but minimalist design language. The slim body of the luminaire has a cross-section of only 24 x 24 mm, like the column. Despite this subtly filigree appearance, it is robust and can be erected and positioned in the room in a few simple steps.

# Free-standing and wall-mounted luminaires

Mobile task luminaires for greater freedom of design plus extra convenience and maximum efficiency

In line with current trends, these luminaires provide maximum efficiency and ergonomic compatibility. What is more – they are completely independent and flexible. Free-standing luminaires can be positioned where-

ever required: in any location in the room, at any position relative to the task area; there they focus their light onto the specific visual task – economically and efficiently.

*Design LINETIK:*

*F Mark Ltd., with Luke Smith-Wightman*



Free-standing and wall-mounted luminaires  
Overview



**LINETIK**  
Free-standing luminaire

**LIGHT FIELDS evolution**  
Free-standing and wall-mounted luminaire

**MIREL evolution**  
Free-standing luminaire



**CAPA Plus LED**  
Free-standing luminaire



**CAPA Lite LED (cut edges)**  
Free-standing luminaire



**CAPA Lite LED (rounded)**  
Free-standing luminaire



LINETIK

LIGHT FIELDS  
evolutionMIREL  
evolutionCAPA  
PlusCAPA  
Lite**Distribution characteristics**

Indirect/direct



Indirect/direct light separately controllable

**Recommended application**

Single-person workstation



Two-person workstation



3-axes office

**Installation**

Free-standing luminaire



Surface-mounted on wall

**Colour**

Aluminium



Silver



White



Black

**Optics**

MPO+



Louvre optic



Lens optic

**Built-in control (free-standing luminaires)**

switchDim



sensControl

**Light source**

LED

**Efficiency**

110 – 120 lm/W

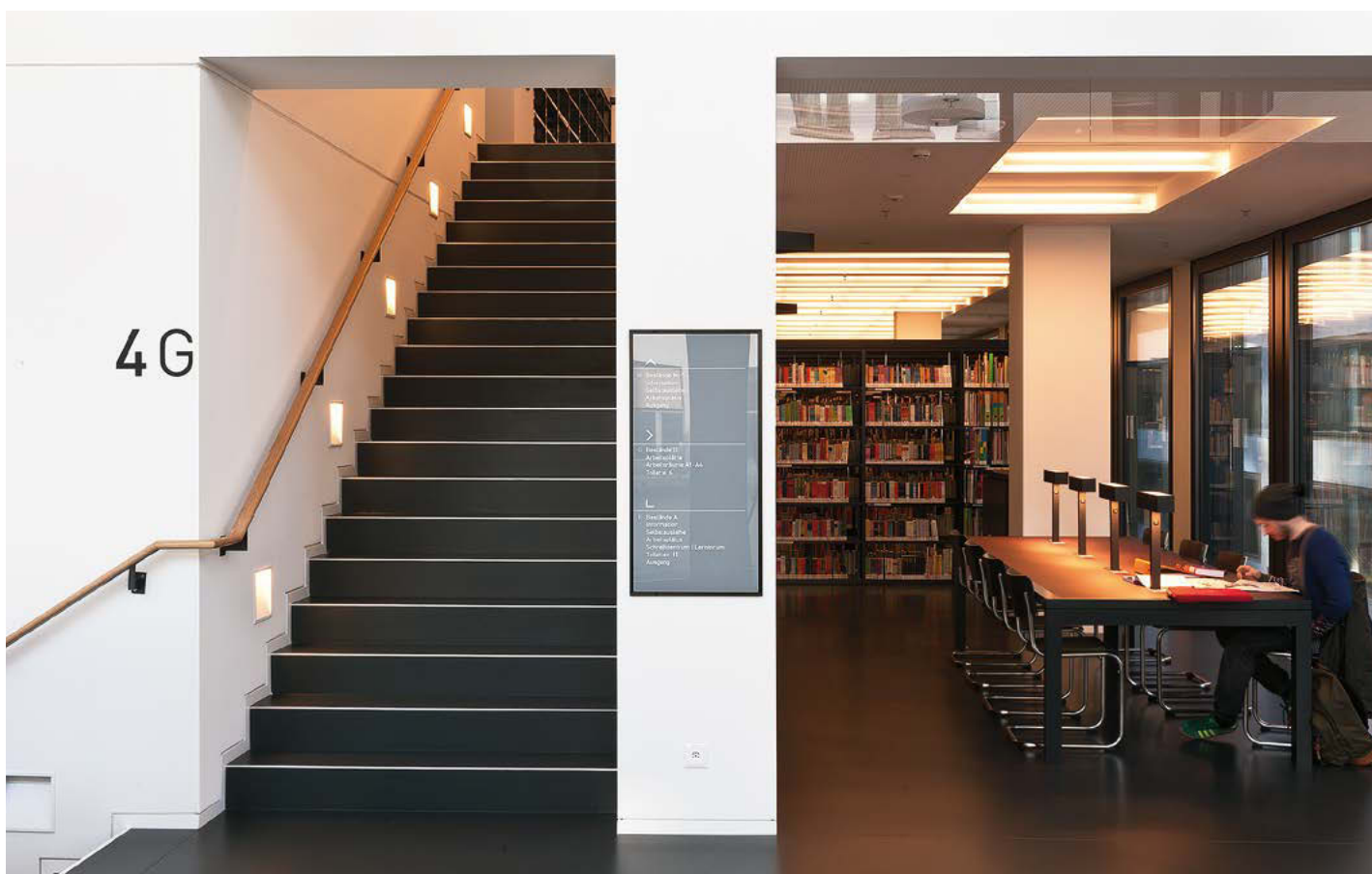
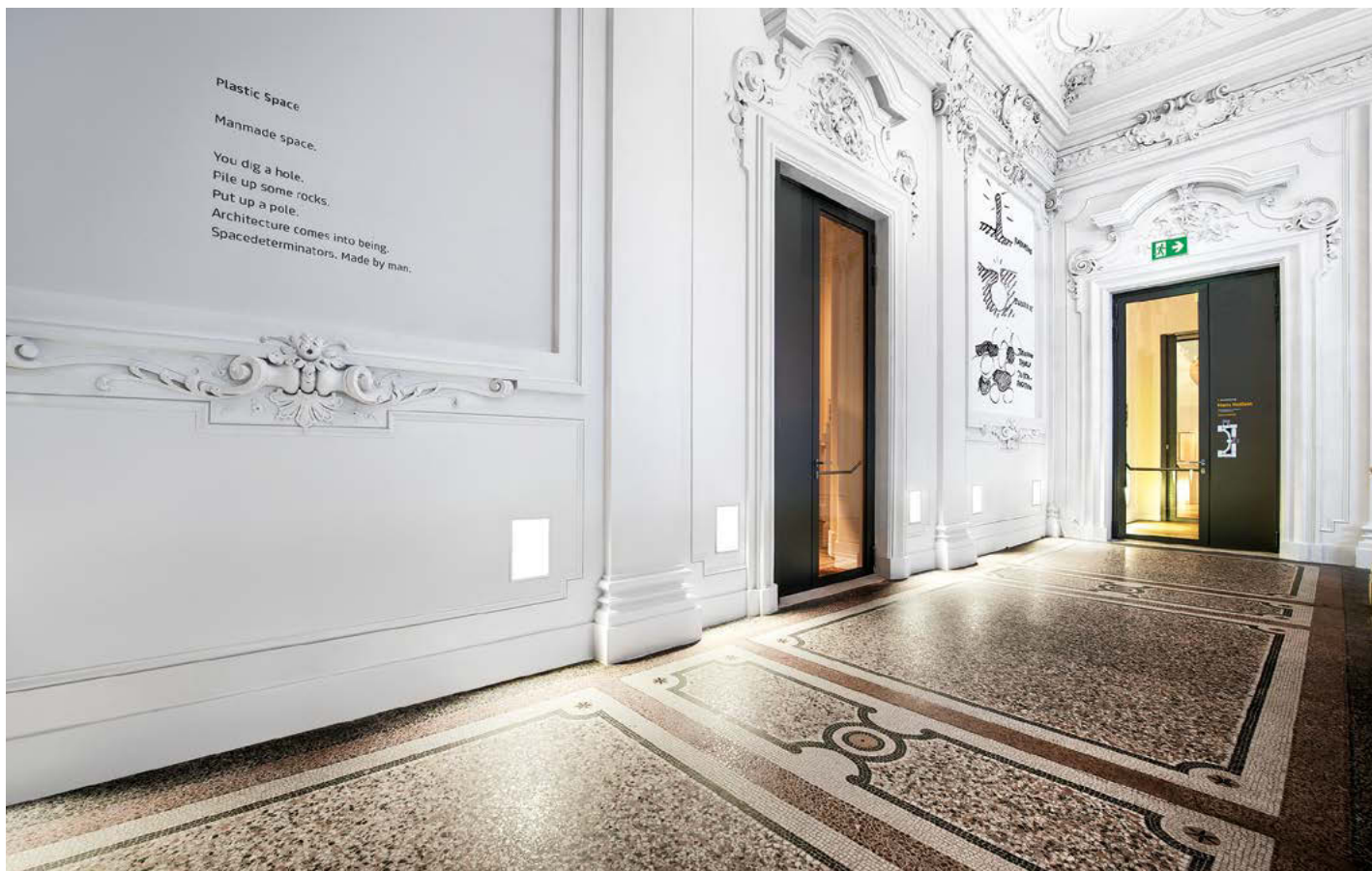


121 – 130 lm/W



&lt; 130 lm/W



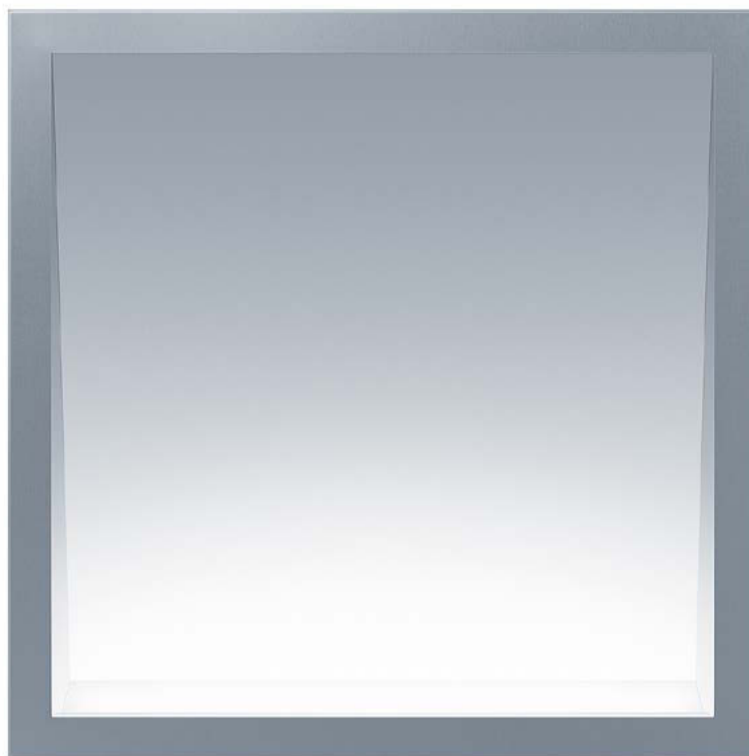


↑ Joanneumsviertel, Graz | AT

Architecture: ARGE:EEP Architekten, Graz;  
and Nieto Sobejano Arquitectos, Madrid | ES  
Lighting solution: KAVA LED, TECTON, PURESIGN,  
ARTSIGN, RESCLITE, LUXMATE LITENET

↓ University of Teacher Education, Zurich | CH

Architecture: Max Dudler, Zurich | CH  
Lighting solution: KAVA LED, PANOS, TECTON, SLOTLIGHT II, ONDARIA



# KAVA LED

Effective and functional luminaire for vertical surfaces

The square recessed wall luminaire ennobles any room – through its elegant design and mellow light. The asymmetric reflector directs light directly to the floor or ceiling, the luminaire itself blends into the background. That's how the KAVA LED tackles the strict geometry of vertical surfaces and produces refreshing lighting effects.

With two sizes, each in three frame colours, the KAVA LED offers the freedom for individual

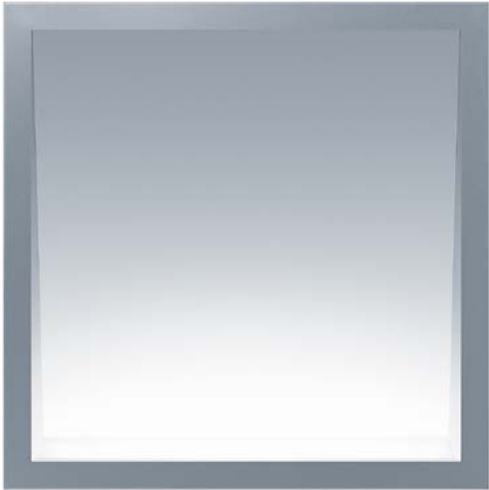
design. Mirror reflectors made of matt anodised pure aluminium allow asymmetric light distribution. Popular areas of use include entrance areas, hallways and stairwells in hotels, public buildings or car parks. They are also readily used in hospitals and retirement and care homes as orientation lighting.

Easy to install in cavity walls thanks to the snap-fit clips. Special recessed wall housings offered as an accessory for solid walls.

**KAVA LED**  
Overview




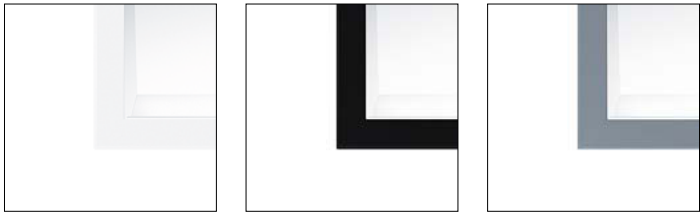
KAVA LED Q110



KAVA LED Q220

KAVA LED

<b>Distribution characteristics</b>	
 Asymmetrical	■
<b>Installation</b>	
Recessed wall	■
<b>Dimensions</b>	
94 x 94 x 75 mm	
110 x 110 x 43 mm	■
220 x 220 x 75 mm	■
<b>Reflectors</b>	
Flat specular reflector	■
<b>LED</b>	
LED 3000 K warm white	■
LED 4000 K neutral white	■
<b>Accessories</b>	
Glass cover	■
Decorative cover	■
Wall mounting IP40	■
Concrete casting surround	■
Cavity wall installation kit	■



Housing frame colour: white or black powder-coated or in anodised aluminium





↑ **Assolombardo conference room and offices, Milan | IT**

Architecture: Archilabo laboratorio di architettura, Monza | IT

Lighting design: CS Progetti, Milan | IT

Lighting solution: HELISSA, 2LIGHT, SLOTLIGHT



# HELISSA

A convincing appearance in a uniform design

Effective as well as energy-saving: the decorative HELISSA wall and ceiling-mounted luminaire masterfully sets corridors, staircases, functional and wellness areas centre stage. The round version of HELISSA blends seamlessly into its architectural surroundings thanks to its unobtrusive design. A subtle white or coloured corona gives the luminaire an incredibly weightless look and emphasises its decorative appearance. The diffuser is made of UV-resistant polycarbonate (IP40). HELISSA's elegant design is topped off by a solid aluminium frame in a white or titanium

finish. HELISSA really comes into its own in all situations where attractive, efficient lighting is required at affordable cost. HELISSA is a comprehensive luminaire product line which includes emergency lighting versions to take care of all essential tasks in passageways and functional areas. With its unobtrusive design and colour, it blends harmoniously into any surroundings. When mounted on a wall or ceiling, indirectly radiated light wraps the luminaire in a soft corona, which, together with diffused direct light, produces an agreeable room atmosphere.

# Continuous-row systems and individual batten luminaires



**HAWE Hydraulik, Kaufbeuren | DE**

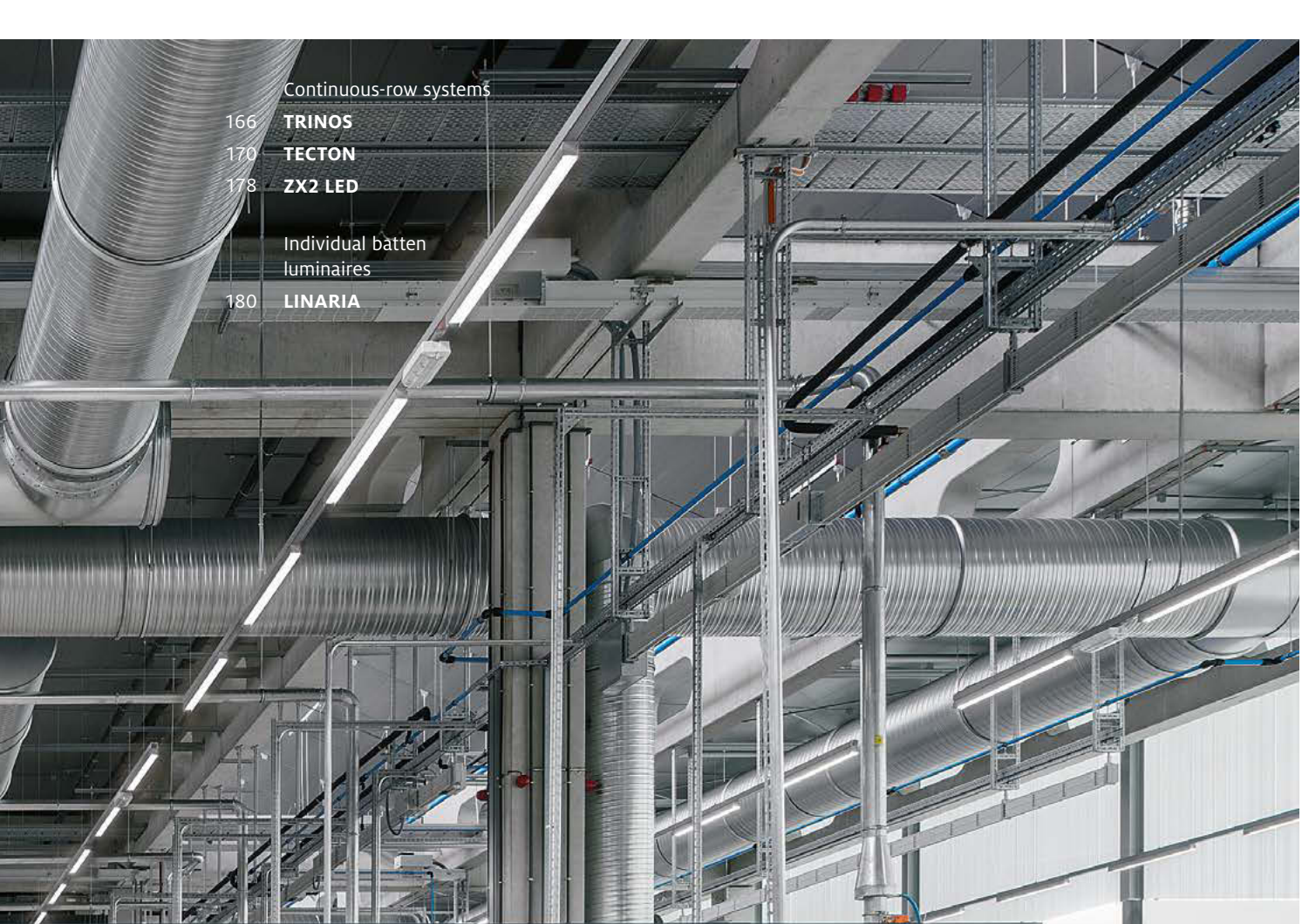
Architecture: Barkow Leibinger Architekten, Berlin | DE

Lighting design: Christian Kaindl Elektroplanung, Nandlstadt | DE

Lighting solution: TECTON LED, ECOOS LED, PANOS infinity, SCUBA LED,  
LUXMATE professional, LITENET







- Continuous-row systems
- 166 **TRINOS**
  - 170 **TECTON**
  - 178 **ZX2 LED**
- Individual batten luminaires
- 180 **LINARIA**



### TRINOS IP65 continuous-row lighting system

Sealing components delivered by the roll guarantee up to 50 metres of unbroken safety. Dedicated end caps complete the unique three-piece sealing concept, which manifests itself in both the TRINOS name and the almost endless durability of this pioneering lighting solution.

**Suspension and trunking**

**Sealing profile**

Protection from above

**Through-wiring**

**LED batten luminaire**

**Sealing cover**

Protection from below

**Sealing end cap**

Protection at the end



# TRINOS

## Redefining industrial lighting

TRINOS is a truly unique proposition. For the first time ever, customers can specify a lighting solution that combines the flexibility and practicality of a trunking system with the rugged durability of an IP65 luminaire, helping increase employee well-being and productivity in areas that demand higher protection against moisture and dust.

This pioneering IP65 trunking system supports accurate working and high-quality results in applications such as wood processing, textile manufacturing and covered outdoor areas – applications where tough conditions render other continuous-row ranges unfit for purpose.

The unprecedented use of three sealing components shows how TRINOS has been specifically designed to guarantee optimum protection and performance at all times.

LED battens with defined lumen packages, colour temperatures and light distributions that is as individual and dynamic as the employees, the processes and the layouts of industrial applications, while escape signage and presence detection improve safety and efficiency. An innovative assembly concept saves valuable resources by ensuring quick, simple and safe installation.



TRINOS

Attachment, trunkings, LED bars, trunking unit, emergency sign luminaires and sensors

TRINOS fixing components



Ceiling bracket



Chain suspension



Cord suspension

TRINOS trunking (white/silver)



Trunking



Infeed and end cap set



Central feed

TRINOS LED bars and trunking unit



TRINOS LED Narrow Beam



TRINOS LED Wide Beam



TRINOS LED Very Wide Beam



TRINOS single mounting rail

TRINOS lighting components



TRINOS emergency sign luminaire  
RESCLITE



TRINOS escape sign luminaire  
ECOSIGN

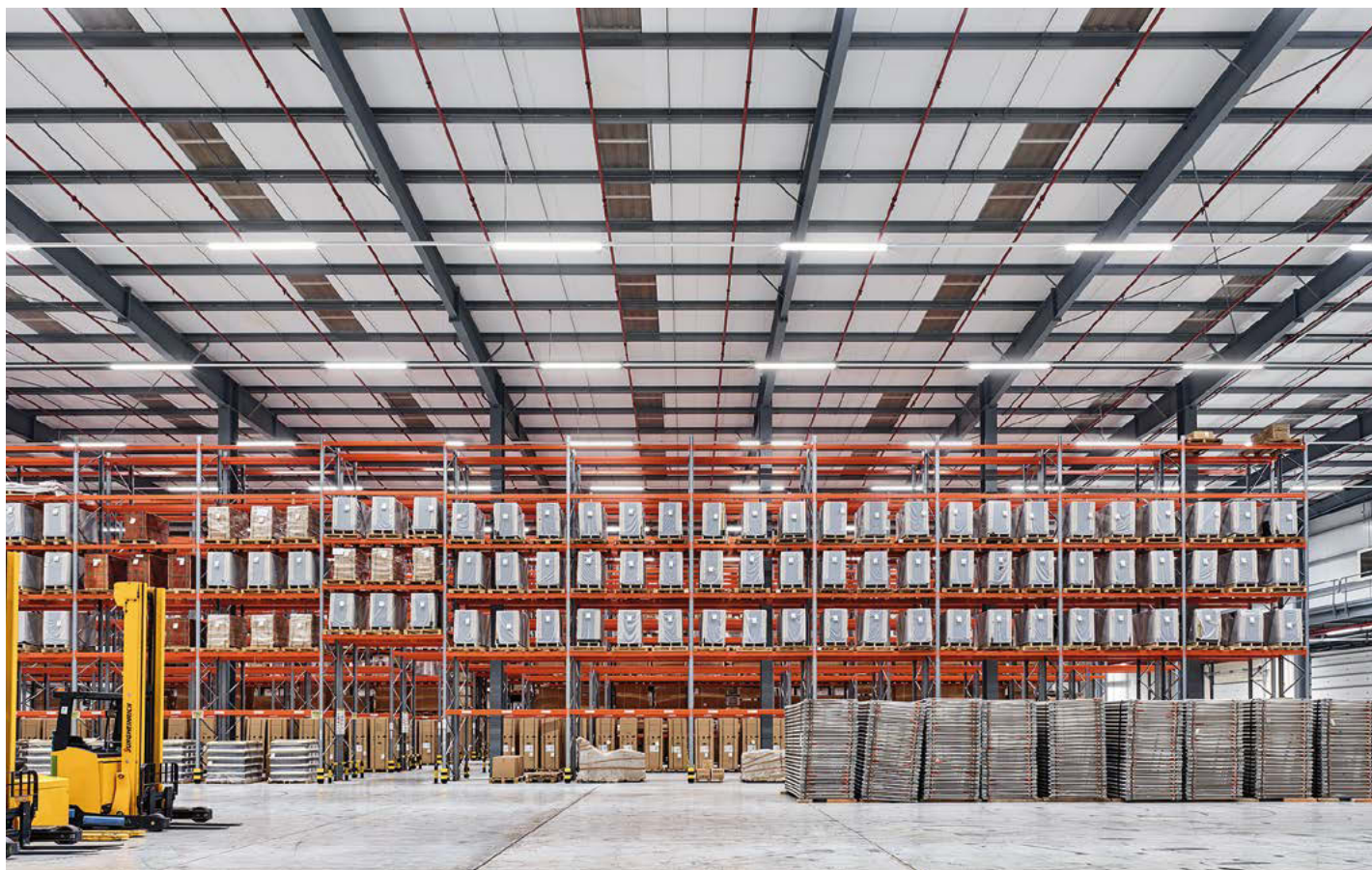


TRINOS motion sensors

	TRINOS LED individual installation	TRINOS continuous-row system
<b>Trunking</b> (white/silver)		
TRINOS SGL L1820	■	
TRINOS SGL L2320	■	
TRINOS T 1500/2000/2500/3000/3500/4000		■
<b>Electrical feed-in/feed-out</b> (white/silver)		
TRINOS T-EC SET Infeed		■
TRINOS TM SET central feed		■
<b>Through-wiring</b>		
Through-wiring 7-pole 10/15/20/25/30/35/40/45/50 m		■
Through-wiring 11-pole 10/15/20/25/30/35/40/45/50 m		■
<b>Covers and sealing components</b>		
Cover strips (white/silver) 1000/1500/2000 mm		■
Sealing profile 10/15/20/25/30/35/40/45/50 m		■
Sealing cover 10/15/20/25/30/35/40/45/50 m		■
<b>Accessoires</b>		
Mounting tool		■

	TRINOS LED Narrow Beam	TRINOS LED Wide Beam	TRINOS LED Very Wide Beam
<b>Distribution characteristics</b>			
■ Narrow-beam	■		
▲ Wide-angle		■	
▲ Extremely wide-angle			■
<b>LED</b>			
3700 lm / 4000 K (1000 x 63 mm)	■	■	■
3700 lm / 6500 K (1000 x 63 mm)	■	■	■
5000 lm / 4000 K (1000 x 63 mm)	■	■	■
5000 lm / 6500 K (1000 x 63 mm)	■	■	■
5500 lm / 4000 K (1500 x 63 mm)	■	■	■
5500 lm / 6500 K (1500 x 63 mm)	■	■	■
7400 lm / 4000 K (1500 x 63 mm)	■	■	■
7400 lm / 6500 K (1500 x 63 mm)	■	■	■
7400 lm / 4000 K (2000 x 63 mm)	■	■	■
7400 lm / 6500 K (2000 x 63 mm)	■	■	■
10000 lm / 4000 K (2000 x 63 mm)	■	■	■
10000 lm / 6500 K (2000 x 63 mm)	■	■	■

	TRINOS RESCLITE escape	TRINOS RESCLITE antipanic	TRINOS ECOSIGN
<b>Central supply</b>			
TRINOS ECC	■	■	■
TRINOS ECD	■	■	■
TRINOS ECP	■	■	■
<b>Separate battery supply with monitoring</b>			
TRINOS E1D	■	■	■
TRINOS E3D	■	■	■



↑ **Weiss-Rohlig Dubai | UAE**

Lighting solution: TECTON LED, MIREL evolution



**TECTON with split-lens technology and integrated smart location**

TECTON has become an intelligent object: Without visible change and large effort, it can be integrated into the continuous-row system with split-lens technology beacons. The customer location is determined in real time, for example, in supermarkets. This opens a world of completely new service offers for the retailer – and shopping becomes an experience for the customers. They receive push notifications for offers or simply navigate to the desired product. A subsequent analysis of the traffic paths supplies useful data to optimise the customer's visit.



# TECTON

The continuous-row system with boundless versatility

TECTON is the world's first continuous-row luminaire to have an 11-pole current conducting section built into its trunking. This means that the system comes ready equipped to meet tomorrow's needs. All functions such as power supply, lighting control and connection to emergency lighting are seamlessly integrated into this multifunctional trunking. Luminaires can be positioned flexibly and the system can be adapted to suit structural alterations at any time. TECTON copes effortlessly with various lighting requirements – at the time it is installed and whenever there are changes. The TECTON trunking remains

unchanged and forms the functional backbone of the system. Only the lighting modules and luminaires are replaced or supplemented as required.

Different areas can come together in an industrial building – from production or storage areas and high-level racks, through offices, staff rooms and canteens, right through to underground car parks. This results in a multitude of requirements on the lighting, all of which are fully satisfied by the continuous-row lighting system. Consistent design is therefore combined with enormous flexibility.



TECTON

Fixing components, trunking, continuous-row luminaires and single luminaire

TECTON fixing components



TECTON trunking (silver/white)



TECTON LED continuous-row luminaires and single luminaire



	TECTON LED ind. installation	TECTON LED cont. row system		TECTON LED cont. row system
<b>Trunking</b>				
TECTON T LED 1000	■		<b>Feed-in and feed-out components</b>	
TECTON T LED 1500	■		TECTON TM TA/TE central feed *	■
TECTON T LED 2000	■		TECTON TM central feed *	■
TECTON T 1522 (BASIC LED)	■		TECTON TE feed *	■
TECTON T 1500/2000/2500/3000/3500/4000		■	TECTON TA feed-out	■
TECTON T 1000 oE (empty)		■	TECTON TA-F flexible feed-out	■
			TECTON T-VL, T-VT, T-VX node connector	■

\* incl. end cap and shock protection

	TECTON C LED Wide Beam	TECTON C LED Very Wide Beam	TECTON C LED Narrow Beam	TECTON C LED Shelf Beam	TECTON C LED Wide Shelf Beam	TECTON C LED Wallwasher	TECTON MIREL LED	TECTON MPO LED	TECTON BASIC LED
<b>Distribution characteristics</b>									
■ Narrow-beam			■						
▲ Wide-angle	■	■					■	■	
▲ Lambertian									■
▲ Double asymmetric				■	■				
■ Asymmetrical						■			
Smart location	■	■		■	■				
<b>LED</b>									
2700 lm /3000 K (1000 x 63 mm)							■		
2700 lm /4000 K (1000 x 63 mm)							■		
3700 lm /3000 K (1000 x 63 mm)	■	■		■	■	■	■		
3700 lm /4000 K (1000 x 63 mm)	■	■	■	■	■	■	■		
3700 lm /6500 K (1000 x 63 mm)	■	■	■	■	■	■			
5200 lm /3000 K (1000 x 63 mm)	■	■		■	■	■			
5200 lm /4000 K (1000 x 63 mm)	■	■	■	■	■	■			
5200 lm /6500 K (1000 x 63 mm)	■	■	■	■	■	■			
8000 lm /3000 K (1000 x 63 mm)	■	■							
8000 lm /4000 K (1000 x 63 mm)	■	■	■						
8000 lm /6500 K (1000 x 63 mm)	■	■	■						
4000 lm /3000 K (1500 x 63 mm)							■		
4000 lm /4000 K (1500 x 63 mm)							■		
5200 lm /3000 K (1500 x 63 mm)									■
5200 lm /4000 K (1500 x 63 mm)									■
5500 lm /3000 K (1500 x 63 mm)	■	■		■	■	■	■		
5500 lm /4000 K (1500 x 63 mm)	■	■	■	■	■	■	■		
5500 lm /6500 K (1500 x 63 mm)	■	■	■	■	■	■			
8000 lm /3000 K (1500 x 63 mm)	■	■		■	■	■			■
8000 lm /4000 K (1500 x 63 mm)	■	■	■	■	■	■			■
8000 lm /6500 K (1500 x 63 mm)	■	■	■	■	■	■			
12000 lm /3000 K (1500 x 63 mm)	■	■							
12000 lm /4000 K (1500 x 63 mm)	■	■	■						
12000 lm /6500 K (1500 x 63 mm)	■	■	■						
5500 lm /4000 K (1500 x104 mm)								■	
6500 lm /4000 K (1500 x104 mm)								■	
8000 lm /4000 K (1500 x104 mm)								■	
5400 lm /3000 K (2000 x 63 mm)							■		
5400 lm /4000 K (2000 x 63 mm)							■		
7400 lm /3000 K (2000 x 63 mm)	■	■		■	■	■	■		
7400 lm /4000 K (2000 x 63 mm)	■	■	■	■	■	■	■		
7400 lm /6500 K (2000 x 63 mm)	■	■	■	■	■	■			
10500 lm /3000 K (2000 x 63 mm)	■	■		■	■	■			
10500 lm /4000 K (2000 x 63 mm)	■	■	■	■	■	■			
10500 lm /6500 K (2000 x 63 mm)	■	■	■	■	■	■			
16000 lm /3000 K (2000 x 63 mm)	■	■							
16000 lm /4000 K (2000 x 63 mm)	■	■	■						
16000 lm /6500 K (2000 x 63 mm)	■	■	■						
<b>Separate battery supply</b>									
E1								■	
E1D								■	
E3	■	■	■	■	■	■			
E3D	■	■	■	■	■	■		■	










**TECTON**  
Decorative luminaires, adapter and spots

**TECTON luminaires and adapter**

			
<b>CRAFT TECTON</b> High-bay luminaire	<b>AMPHIBIA TECTON</b> Moisture-proof luminaire	<b>ECOOS TEC LED</b> Micropyramidal optic	<b>LINCOR D-D / C-D</b> Darklight/Comfort louvre optic
			
<b>PERLUCE TECTON</b> Moisture-proof luminaire	<b>MELLOW LIGHT evolution/infinity</b> Crystal Optic	<b>MELLOW LIGHT evolution/infinity</b> Lenticular Optic	

**TECTON spots**

			
<b>VIVO M/L TEC LED</b>	<b>FACTOR TEC LED</b>	<b>ONICO M/L TEC LED</b>	<b>INTRO liteCarve® TEC-GP LED</b> Spotlight for vertical surfaces

	CRAFT TECTON high-bay luminaire	AMPHIBIA TECTON moisture-proof diffuser luminaire	ECOOS TEC LED decorative luminaire	LINCOR D-D / C-D surface-mounted luminaire	PERLUCE TECTON moisture-proof luminaire	MELLOW LIGHT evolution/infinity louvre luminaire
Distribution characteristics						
 Narrow-beam	■					
 Wide-angle	■	■	■	■		■
 Direct/indirect (ceiling illuminated)		■	■		■	■
Lamps						
LED	■	■	■	■	■	■
	VIVO M TEC LED	VIVO L TEC LED	FACTOR TEC LED	ONICO M TEC LED	ONICO L TEC LED	INTRO liteCarve® TEC-GP LED
Distribution characteristics						
 Spot	■	■	■	■	■	
 Flood	■	■	■	■	■	
 Wideflood	■	■	■	■	■	
 Wallwasher						■
Colour						
Black	■					
Silver	■	■				
White	■	■	■	■	■	■
LED						
3300 lm / 3000 K / Ra 80						■
3400 lm / 4000 K / Ra 80						■
20 W Essential stableWhite (2300–2400 lm)				■		
24 W Essential stableWhite (2700–2800 lm)	■					
36 W Essential stableWhite (4000–4100 lm)	■		■		■	
58 W Essential stableWhite (4600–5000 lm)		■				
58 W Essential+ stableWhite (4600–5000 lm)		■				
36 W bakery (2600 lm)	■		■			
36 W fresh meat (2200 lm)	■		■			

TECTON

Emergency sign luminaires and sensors

TECTON emergency sign luminaires



**RESCLITE PRO escape (HP)**  
escape-route illumination



**RESCLITE PRO escape 90° (HP)**  
escape-route illumination



**RESCLITE PRO escape**  
high ceilings



**RESCLITE PRO antipanic (HP)**  
antipanic lighting



**RESCLITE PRO antipanic**  
high ceilings



**RESCLITE PRO spot (HP)**  
object lighting



**PURESIGN 150**  
escape sign luminaire



**CROSSIGN 110/160**  
escape sign luminaire



**ECOSIGN**  
escape sign luminaire

TECTON sensors



**TECTON ED-SENS**  
occupancy sensor



**TECTON ED-EYE**  
daylight sensor



**TECTON PST**  
motion sensor

	RESCLITE PRO escape (HP)	RESCLITE PRO escape 90° (HP)	RESCLITE PRO escape high ceilings	RESCLITE PRO antipanic (HP)	RESCLITE PRO antipanic high ceilings	RESCLITE PRO spot (HP)
<b>Central supply</b>						
ECP	■	■	■	■	■	■
ECD	■	■	■	■	■	■
ECC	■	■	■	■	■	■
<b>Separate battery supply with monitoring</b>						
E1D	■	■	■	■	■	■
E3D	■	■	■	■	■	■

	PURESIGN 150	CROSSIGN 110	CROSSIGN 160	ECOSIGN
<b>Central supply</b>				
ECP	■	■	■	■
ECD	■	■	■	■
ECC	■	■	■	■
<b>Separate battery supply with monitoring</b>				
E1D	■	■	■	■
E3D	■	■	■	■

E1D: 1 hour autonomy, auto test or DALI monitoring

E3D: 3 hours autonomy, auto test or DALI monitoring

ECP: Monitoring of individual luminaires with power line communications

ECD: Monitoring of individual luminaires with DALI communications

ECC: Circuit monitoring

	TECTON ED-SENS occupancy sensor	TECTON ED-EYE daylight sensor	TECTON PST motion sensor
<b>Sensors</b>			
Motion			■
Presence	■		
Daylight (look out)		■	



↑ IWT Innovative Water Technology GmbH, Lienz | AT  
Lighting solution: ZX2, CLARIS, ONLITE



**ZX2 LED**  
continuous-row  
lighting system

<b>Fixing parts</b>	
ZX2 ceiling suspension	■
ZX2 ceiling or wall suspension 20°-45°	■
ZX2 chain suspension	■
ZX2 chain suspension for tilt	■
ZX2 cord suspension	■
<b>Trunking</b>	
ZX2 pre-wired trunking, 5-pole or 7-pole, L1526	■
ZX2 pre-wired trunking, 5-pole or 7-pole, L 3052	■
ZX2 pre-wired trunking, 5-pole or 7-pole, L 4578	■
<b>Trunking accessories</b>	
ZX2 feed-in set, 5-pole or 7-pole	■
ZX2 trunking connecting kit, 5-pole or 7-pole	■
ZX2 pair of trunking end caps	■
ZX2 plastic cover strips	■
ZX2 metal cover strips	■
ZX2 cutting bushing	■
ZX2 trunking node connector T-VL/VT/VX	■
<b>LED batten luminaire</b>	
5200 lm / 4000 K / L1525	■
8000 lm / 4000 K / L1525	■



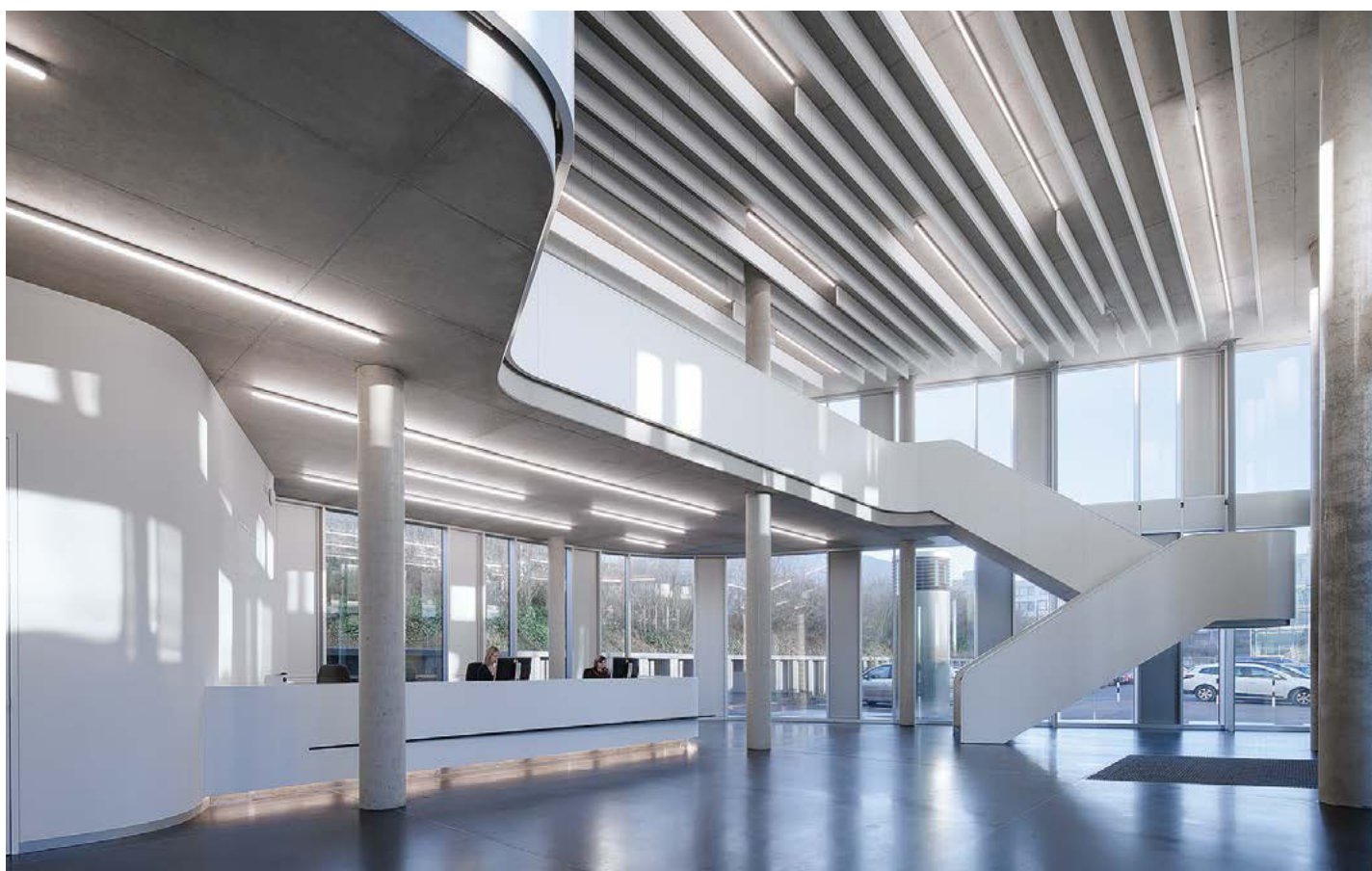
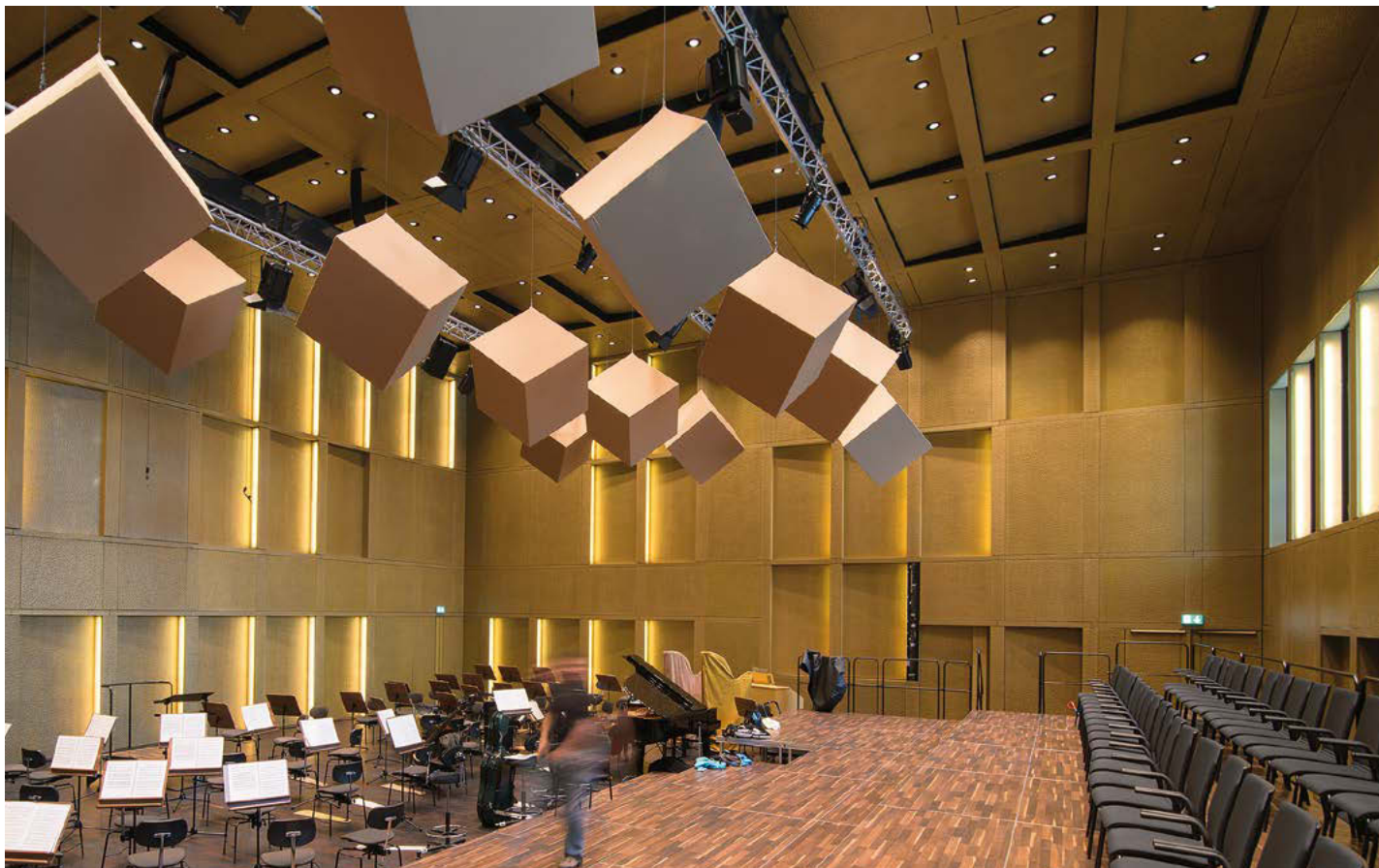
## ZX2 LED

The LED continuous-row lighting system for industry and retail

As an energy-efficient continuous-row LED system, ZX2 is the ideal lighting solution for simple surface lighting in industry as well as shelf and surface lighting in supermarket applications.

Due to its similar dimensions, the ZX2 LED allows an easy exchange and replacement of existing 58 W T26 and 35/49/80 W T16 solutions. The electrical and mechanical installation on the ZX2 trunking requires no tools thanks to two side-mounted rotary levers.





↑ **Musiktheater Linz | AT**

Architecture: Terry Pawson Architects, London | GB

Lighting design and electrical consultants: Wagner & Partner, Linz | AT

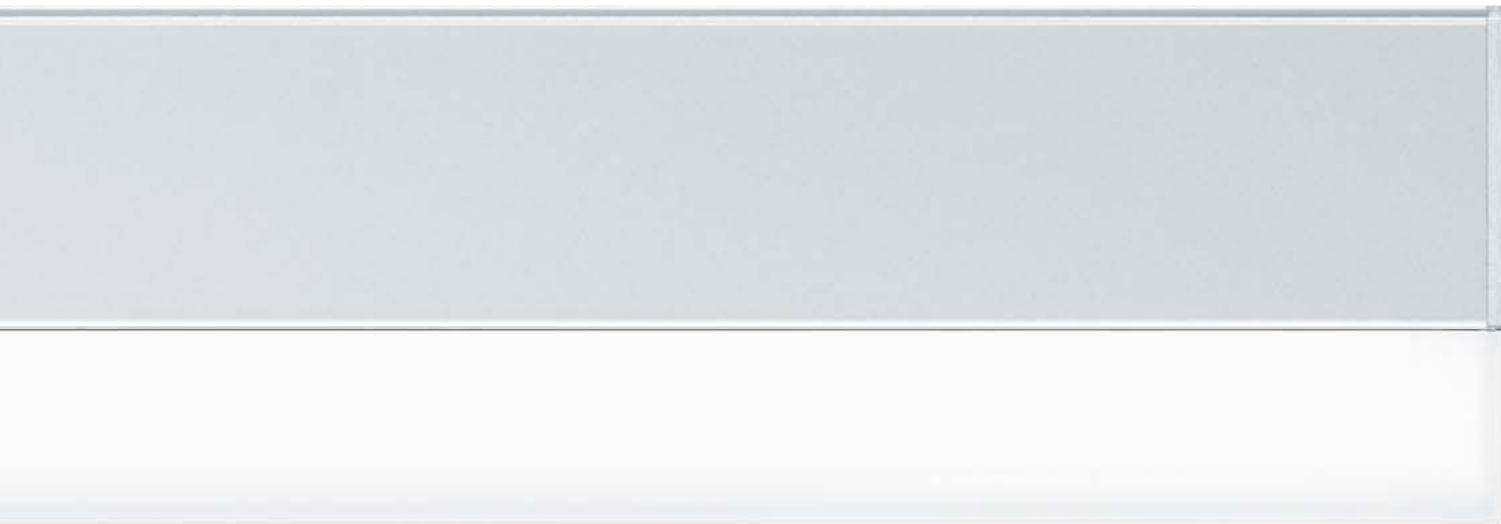
Lighting solution: LINARIA, SLOTLIGHT II, ARCOS, PANOS, MELLOW LIGHT V, ELEVO, ECOOS, PAN, SCOFFINE Sfera, VALUEA, LUXMATE LITENET

↓ **CMP Center for Mobile Propulsion, RWTH Aachen | DE**

Architecture: Lepel & Lepel Architektur Innenarchitektur, Cologne | DE

Lighting design: a-g Licht GbR, Bonn | DE

Lighting solution: LINARIA, ECOOS, TECTON, CHIARO, COPA



# LINARIA

A slender line which consistently allows architecture to take centre stage

*“The more simple and minimalist a product is to be, the greater the challenge is for all those involved. LINARIA is the result of single-purpose collaboration between design and lamp development. The luminaire asserts itself with the quality of its materials and its clear design; straight-line simplicity always survives the whims of fashion.”*

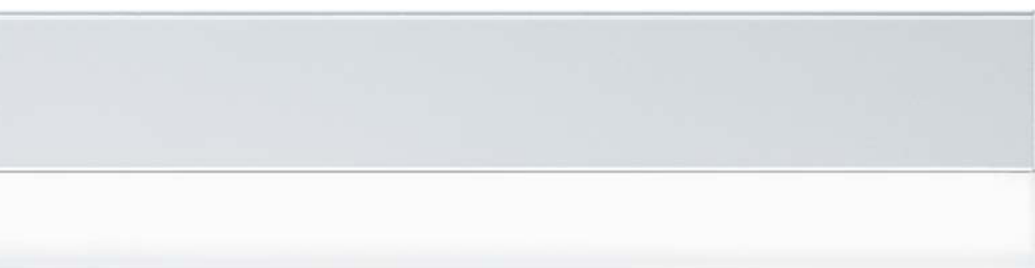
The creation of elegant light lines is the main purpose of the delicate **LINARIA LED** batten luminaire. This is made possible by various lengths ranging from 600 mm to 1800 mm that can be joined to form light lines. Freedom

of choice is provided by surface-mounted, recessed and pendant versions as well as models with colour temperatures of 3000 K and 4000 K. At a system efficiency of approximately 100 lm/W in the 900 mm version, LINARIA LED presents itself as a trend-setting lighting solution with class. Added value is also provided by the luminaire's easy handling, owing to the converter being built into the LED batten luminaire as well as its easy, straight-forward installation. LINARIA LED therefore has many assets.

*Design: Klaus Adolph - AGLICHT*

## LINARIA

### Batten luminaire and light line



#### Superior lighting all along the line

With LINARIA LED, Zumtobel perpetuates the slim light line's history of success. The combination of purist design with high-power LED modules results in consistently superior lighting that can be emitted across the luminaire's entire length and even at its front ends. Thanks to the completely resolved LED points, the luminaire's appearance is perfectly uniform.

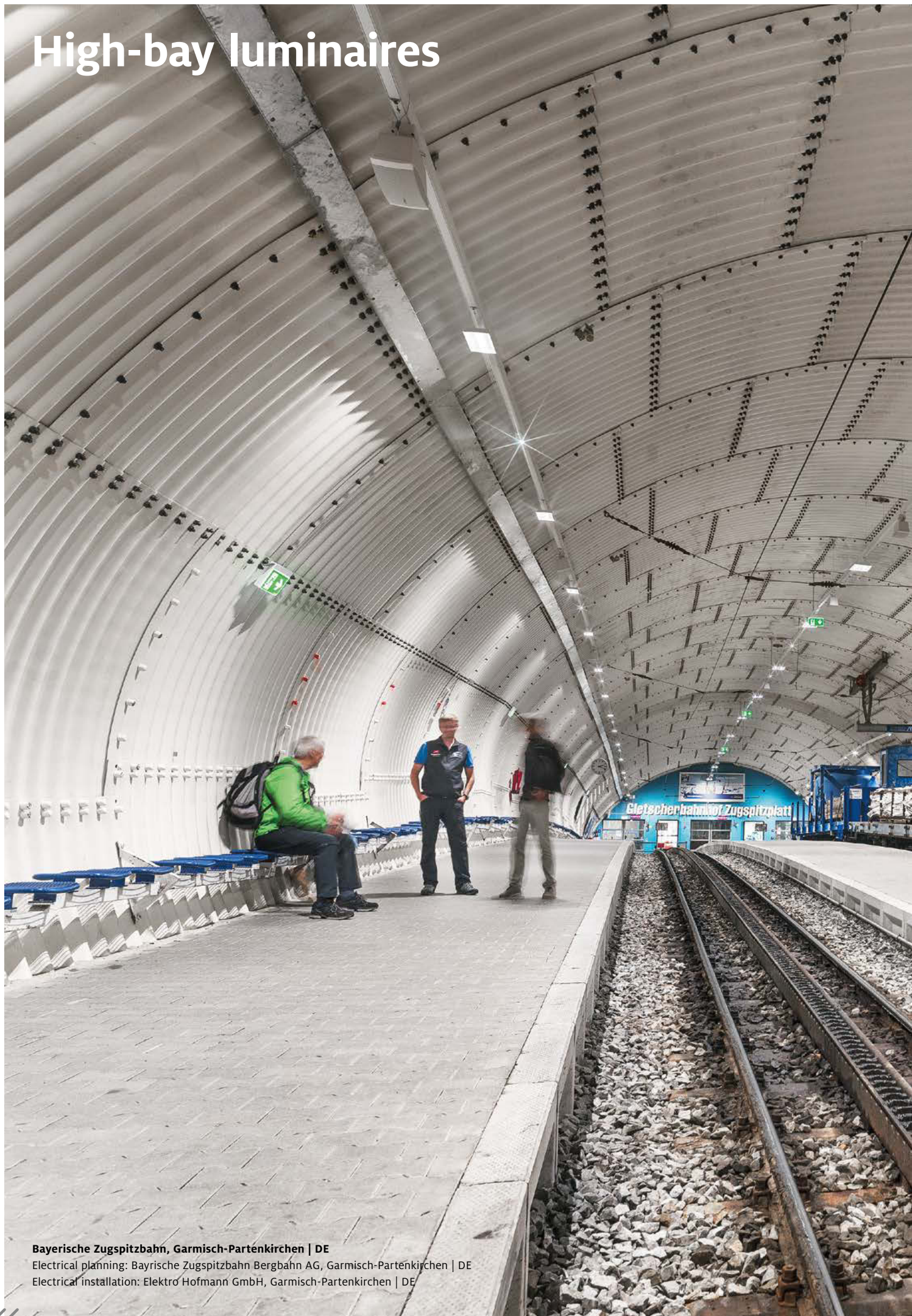
A further benefit is the also simplified mounting concept. Thanks to loop-through wiring, little effort is needed to form a light line. A push fastening enables easy access to a completely recessed luminaire.

## LINARIA LED light line

	LINARIA LED batten luminaire	LINARIA LED light line
<b>Distribution characteristics</b>		
■ Open light distribution	■	■
<b>Mounting</b>		
Recessed	■	■
Surface-mounted	■	■
Pendant	■	■
<b>Diffuser</b>		
Diffuse enclosure	■	■
<b>Dimensions batten luminaire</b>		
608 x 30 x 67 mm	■	
908 x 30 x 67 mm	■	■
1208 x 30 x 67 mm	■	■
1508 x 30 x 67 mm	■	■
1808 x 30 x 67 mm	■	■
<b>LED</b>		
1400 lm / 3000 K / Ra 80	■	■
2100 lm / 3000 K / Ra 80	■	■
2800 lm / 3000 K / Ra 80	■	■
3500 lm / 3000 K / Ra 80	■	■
4100 lm / 3000 K / Ra 80	■	■
1500 lm / 4000 K / Ra 80	■	■
2200 lm / 4000 K / Ra 80	■	■
3000 lm / 4000 K / Ra 80	■	■
3700 lm / 4000 K / Ra 80	■	■
4400 lm / 4000 K / Ra 80	■	■
<b>Accessories</b>		
Ceiling box oval, grey/white	■	■
Cord suspension	■	■
Transparent feeder cable	■	■



# High-bay luminaires



**Bayerische Zugspitzbahn, Garmisch-Partenkirchen | DE**

Electrical planning: Bayrische Zugspitzbahn Bergbahn AG, Garmisch-Partenkirchen | DE

Electrical installation: Elektro Hofmann GmbH, Garmisch-Partenkirchen | DE











↑ **Diesel SpA, Molvena | IT**  
 Architecture: Diesel Creative, Breganze / F & M Ingegneria SpA, Milan | IT  
 Lighting solution: CRAFT, ECOOS, IYON

↓ **Seeger Präzisionsdrehteile GmbH, Salem-Neufrach | DE**  
 Architecture: Planquadrat Gaiser & Partner Architekten und Baukonstrukteure, Sigmaringen | DE  
 Lighting design: Technum, Sint-Denijs-Westrem | BE  
 Lighting solution: CRAFT, ONDARIA, PANOS infinity, CREDOS



# CRAFT

You can depend on CRAFT  
Continuation of a success story

Its reliability creates multiple benefits: starting with unique thermal management, the CRAFT high-bay LED luminaire is best prepared for challenges in industry, retail and in sports halls. It combines high resilience, zero maintenance and a long life time with low electricity requirements. CRAFT handles the wide variety of lighting tasks with four sizes, various mounting options and illuminance from 7500 lm to 68 000 lm. Appropriate, good lighting reduces error rates and ensures

well-being. Additional safety is provided by stable light colours (3000 K, 4000 K, 6500 K or tunableWhite 2700 – 6500 K) and optimum lateral glare suppression ( $UGR > 22$ ). CRAFT meets the high requirements for colour rendering with values of up to  $Ra > 80$ . Stroboscopic effects in rotating machines are also entirely unheard of with these luminaires, even when dimmed.

*Design: Stephen Philips, Arup*

Customised lighting solution  
CRAFT offers application-oriented versatility



CRAFT S PM



CRAFT S PM TECTON



CRAFT M/L PM



CRAFT M/L PC



CRAFT M/L PM/PC TECTON



CRAFT M/L emergency



CRAFT HT (high-temperature)



CRAFT M/L FI (Food Industry)



CRAFT SENS (presence detector)



CRAFT M/L bmLINK






CRAFT XL



CRAFT M (mounting frame)

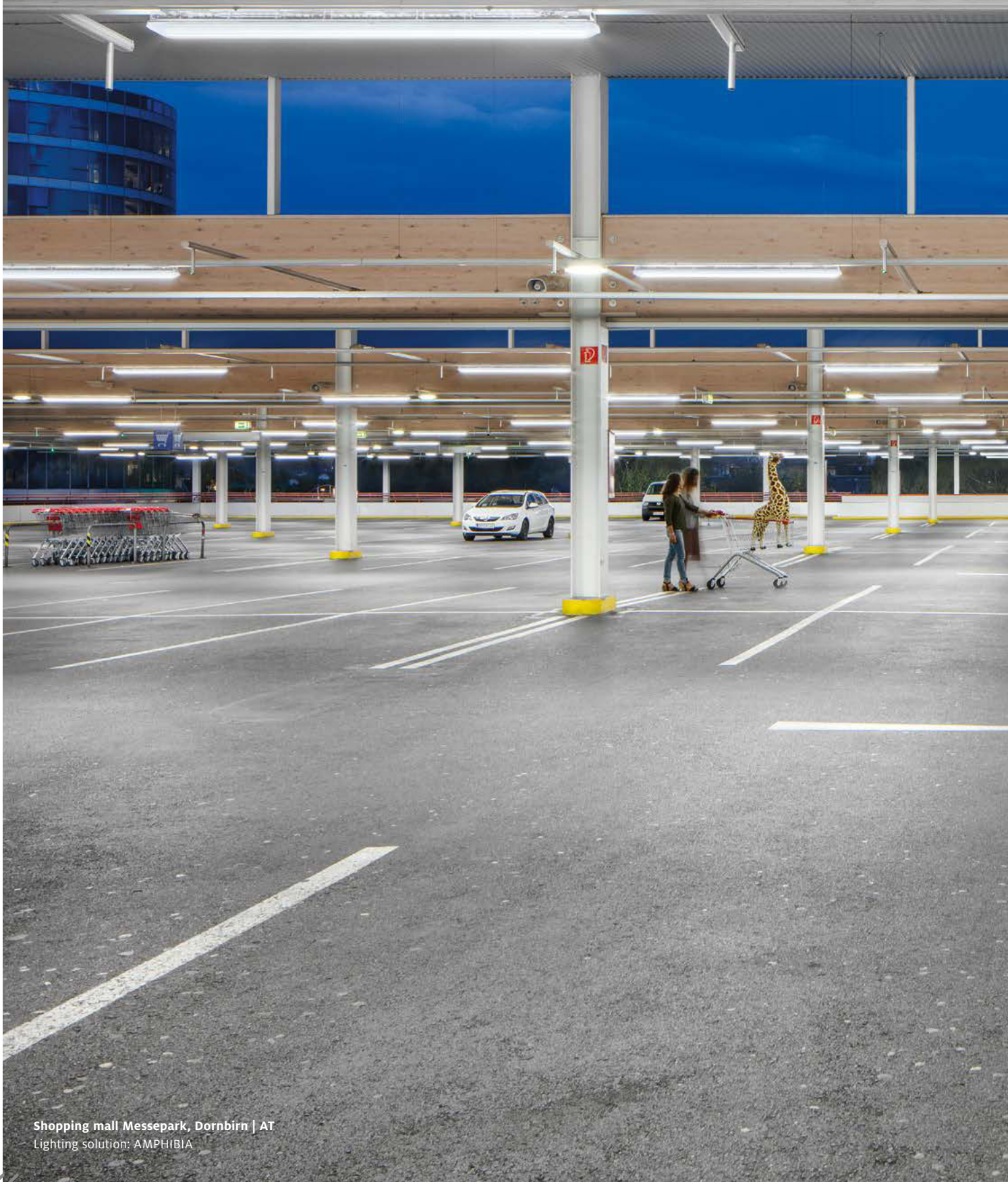


CRAFT L (mounting frame)

	CRAFT PM PMMA cover	CRAFT PC PC cover	CRAFT TECTON PMMA/PC cover	CRAFT HT PC cover	CRAFT FI PC cover	CRAFT SENS PC cover	CRAFT bmLINK with/without sensor
<b>Distribution characteristics</b>							
 Narrow beam	■	■	■	■	■	■	■
 Wide beam	■	■	■	■	■	■	■
 Diffused glare	■	■	■	■	■	■	■
<b>Dimensions</b>							
339 x 164 x 125 mm (CRAFT S; 2,8 kg)	■		■				■
390 x 330 x 114 mm (CRAFT M; 5,6 kg)	■	■	■	■	■	■	■
680 x 330 x 114 mm (CRAFT L; 9,5 kg)	■	■	■	■	■	■	■
680 x 680 x 140 mm (CRAFT L; 9,5 kg)	■	■		■			■
<b>Colour</b>							
White	■	■	■	■	■	■	■
Silver	■	■	■	■	■	■	■
Black	■	■	■	■	■	■	■
<b>Installation</b>							
Ceiling installation (mounting frame)	■	■		■			
Surface-mounted (ceiling/wall)	■	■		■	■	■	■
Cord suspension	■	■		■	■	■	■
Chain suspension	■	■		■	■	■	■
TECTON trunking	■	■	■				
<b>LED</b>							
7 500 lm / warm white (3000 K, Ra 80)	■		■				
7 500 lm / neutral white (4000 K, Ra 80)	■		■				
7 500 lm / cool white (6500 K, Ra 70)	■		■				
10 000 lm / neutral white (4000 K, Ra 80)				■			
10 000 lm / cool white (6500 K, Ra 70)				■			
13 000 lm / neutral white (4000 K, Ra 80)	■	■	■		■	■	■
13 000 lm / cool white (6500 K, Ra 70)	■	■	■		■	■	■
16 000 lm / tunableWhite (2700–6500 K, Ra 80)		■	■				
17 000 lm / neutral white (4000 K, Ra 80)	■	■	■			■	■
17 000 lm / cool white (6500 K, Ra 70)	■	■	■			■	■
20 000 lm / neutral white (4000 K, Ra 80)				■			
20 000 lm / cool white (6500 K, Ra 70)				■			
25 000 lm / neutral white (4000 K, Ra 80)					■		
25 000 lm / cool white (6500 K, Ra 70)					■		
26 000 lm / neutral white (4000 K, Ra 80)	■	■	■			■	■
26 000 lm / cool white (6500 K, Ra 70)	■	■	■			■	■
32 000 lm / tunableWhite (2700–6500 K, Ra 80)		■	■				
34 000 lm / neutral white (4000 K, Ra 80)	■	■	■			■	■
34 000 lm / cool white (6500 K, Ra 70)	■	■	■			■	■
40 000 lm / neutral white (4000 K, Ra 80)				■			
40 000 lm / cool white (6500 K, Ra 70)				■			
68 000 lm / neutral white (4000 K, Ra 80)	■	■				■	■
68 000 lm / cool white (6500 K, Ra 70)	■	■				■	■
<b>Application options</b>							
Areas exposed to chemical substances	■		■	■	■		■
Sports facilities	■	■					■
Areas subject to increased temperatures				■			
Food industry					■		
Logistics	■	■	■			■	■

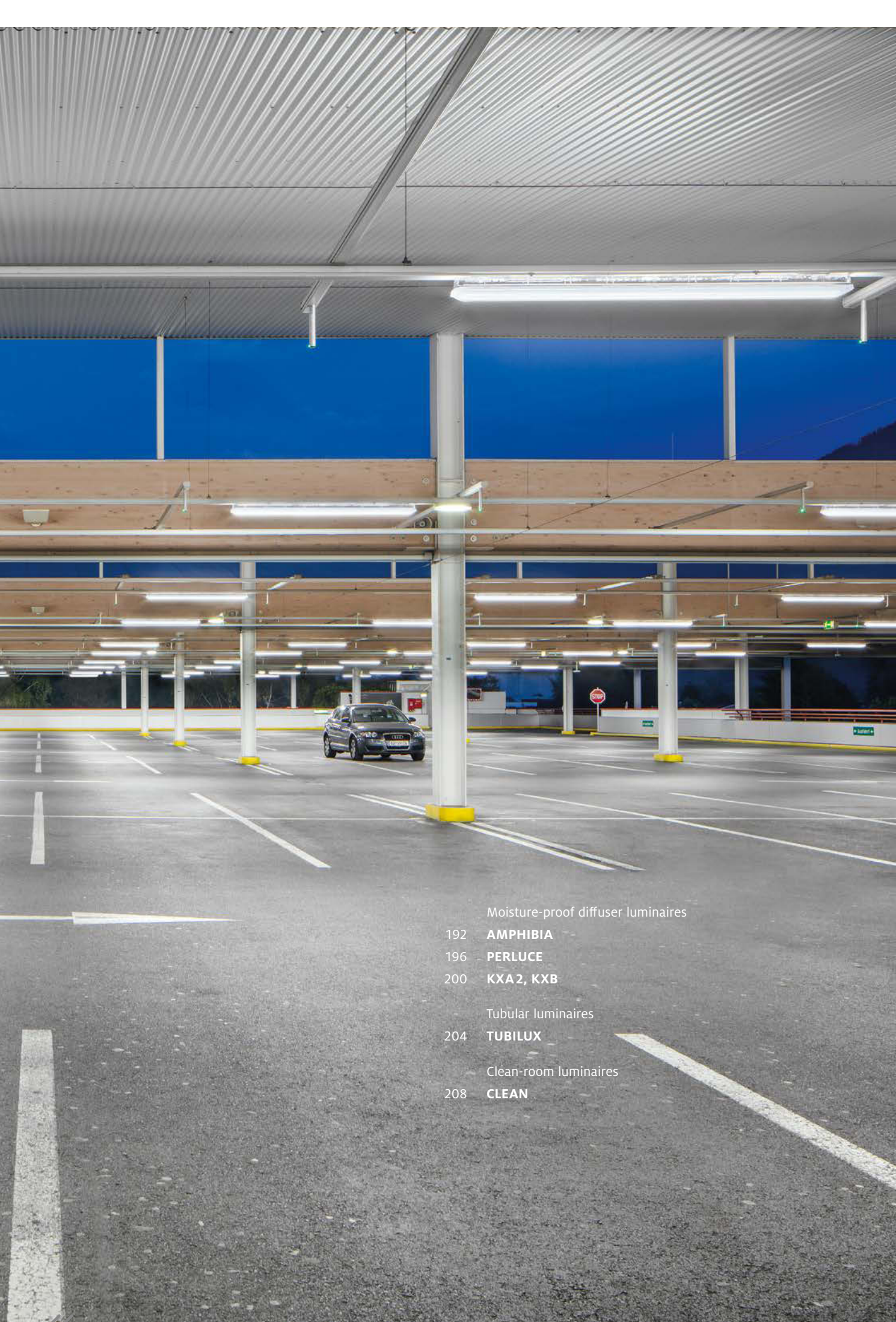


# Luminaires with extra protection



Shopping mall Messepark, Dornbirn | AT  
Lighting solution: AMPHIBIA





Moisture-proof diffuser luminaires

192 **AMPHIBIA**

196 **PERLUCE**

200 **KXA 2, KXB**

Tubular luminaires

204 **TUBILUX**

Clean-room luminaires

208 **CLEAN**





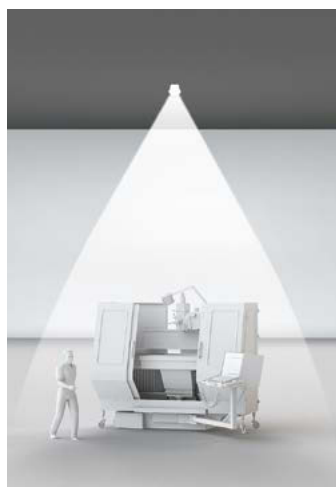
### Impressively effective

AMPHIBIA fulfils different visual tasks with maximum effectiveness. Homogeneous light without glare is offered in four beam characteristics for high halls and low rooms, for wide areas and narrow corridors.



#### Narrow Beam (NB)

The narrow-beam distribution directs high light levels onto shelves and down to the floor from heights of up to 8 metres, making it the ideal choice for high production facilities and logistics halls.



#### Medium Beam (MB)

Production and logistics areas with mounting heights of between 4 and 6 metres can benefit from the optimum efficiency achieved by this medium-wide option.



#### Wide Beam (WB)

The wide light distribution makes it possible to evenly illuminate production areas, shelving units and corridors – even from low mounting heights.



#### Asymmetric Beam (AB)

Focused asymmetric light provides high vertical illuminance for added visual comfort in rooms with heights of up to 4 metres (such as car parks or production zones).



# AMPHIBIA

High resistance meets high performance

Industry applications are tough places. Dust, moisture, chemicals and mechanical stress pose a constant threat, while new standards of lighting quality make a difficult job even harder. AMPHIBIA overcomes all these challenges, blending high resistance with performance levels optimised for the most demanding lighting tasks.

The advanced design of the IP66 moisture-proof luminaire guarantees safety and

reliability in over 245 industry applications. Its compact size and one-material construction (composed of PC, PMMA or CHEMO) ensure certified protection against chemicals, physical impact and extreme temperatures. The unique Drip-Edge-Effect design meets the strictest hygiene regulations by helping to stop dirt and detergents from gathering on the fitting. Yet AMPHIBIA also puts the focus on people with his needs. Four different light distri-

butions, created especially for industry, logistics and car parks, along with precise glare management and a transparent canopy for pleasant indirect light create a safe and effective working environment. Sensor and control options support smart-industry concepts and complete a powerful product portfolio – in every sense. A unique IP66 solution for the toughest environmental conditions and the most demanding lighting tasks.



## AMPHIBIA

### Moisture-proof luminaire



#### AMPHIBIA round

Two round versions of AMPHIBIA offer additional creative potential. For example, while the linear luminaire looks after general lighting in applications such as indoor car parks, the round model is often used to highlight special areas like entrances, exits or ticket machines.



#### Diameter

ø 390 mm | ø 680 mm

#### Material

Polycarbonate

#### Light distribution

Direct/Indirect

#### Colour temperature

3000 K | 4000 K

#### Luminous intensity

3000 lm | 5600 lm

#### Colour rendering

Ra > 80

#### Glare Control

UGR > 22

#### Protection class

IP65

**Length**

1100 mm | 1600 mm

**Material**

PMMAplus | Chemo | PC

**Light distribution**Narrow Beam | Medium Beam |  
Wide Beam | Asymmetric Beam**Colour temperature**

3000 K | 4000 K | 6500 K

**Colour rendering**

Ra &gt; 80

**Glare Control**

UGR &gt; 22

**Luminaire efficiency**

Up to 160 lm/W

**Protection class**

IP66

**Optical diffuser cover**

Linear microprisms broaden the light distribution in line with the visual task. Luminaires with a narrow or medium-wide beam only require light to be emitted laterally, while a completely structured diffuser generates the wide and asymmetrical light distributions.

**Diffuse primary optics**

A diffuse optic mounted above the LEDs dissolves the individual light points. This helps AMPHIBIA produce homogeneous glare-free light.

**LED module**

The precise light output and high luminaire efficiency stem from powerful LED modules, which are photometrically optimised and positioned according to the visual task.

**Direct and indirect light**

A completely clear luminaire covers all requirements. Wide-beam and asymmetric luminaires create a pleasant spatial effect through an indirect light component, while narrow-beam and medium-beam versions of AMPHIBIA use direct light to illuminate higher rooms with maximum efficiency.





↑ **Brose Kompetenzzentrum, Bamberg | DE**

Architecture: BM+P Architekten, Düsseldorf | DE

Lighting design: Tropp Lighting Design, Weilheim | DE

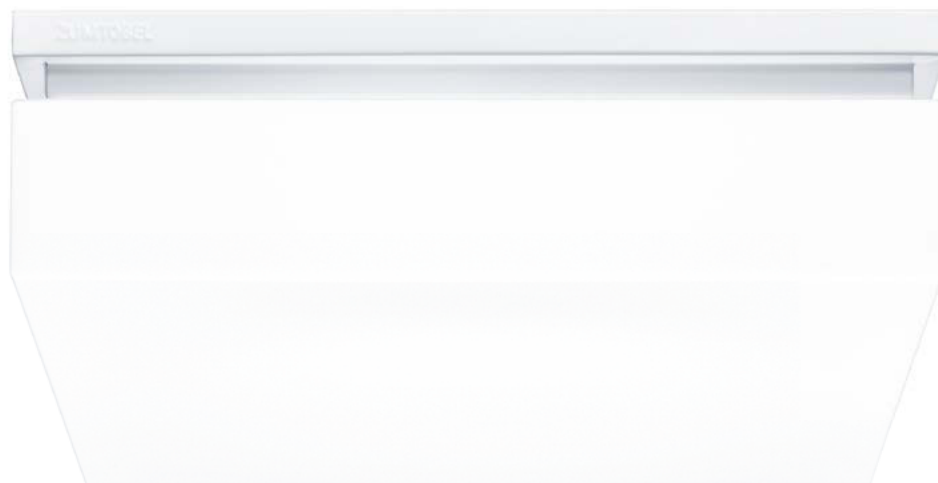
Lighting solution: PERLUCE, SLOTLIGHT infinity, PANOS infinity, ONLITE E-Box

↓ **Nikom d.d.o., Kragujevac | RS**

Architecture: MAPA architects, Belgrade | RS

Lighting solution: PERLUCE, MIREL, ONDARIA, MICROS, PANOS evolution, AQUAFORCE II, CETUS LED, D-CO R LED, OLSYS 2, LITECOM





# PERLUCE

A comprehensive product range that combines toughness with problem-solving expertise

Luminaires with extra protection are used when the primary requirement placed on a fit-for-purpose lighting solution is better protection and simpler maintenance. PERLUCE is a closed lighting system that sets new standards in terms of everyday usability and combines IP50 and IP54 protection and

various models. Its deliberately utilitarian materials are reflected in its functional design. Its plain, unpretentious stylistic idiom gives precedence to the architecture of the room: light, not the luminaire, is the centre of attention.

*Design: Stefan Ambrozus, Studio Ambrozus*

**PERLUCE**

Moisture-proof diffuser luminaires



**PERLUCE LED**  
linear LRO  
(micropyramidal optic –  
Luminance Reducing Optic)



**PERLUCE LED**  
linear opal



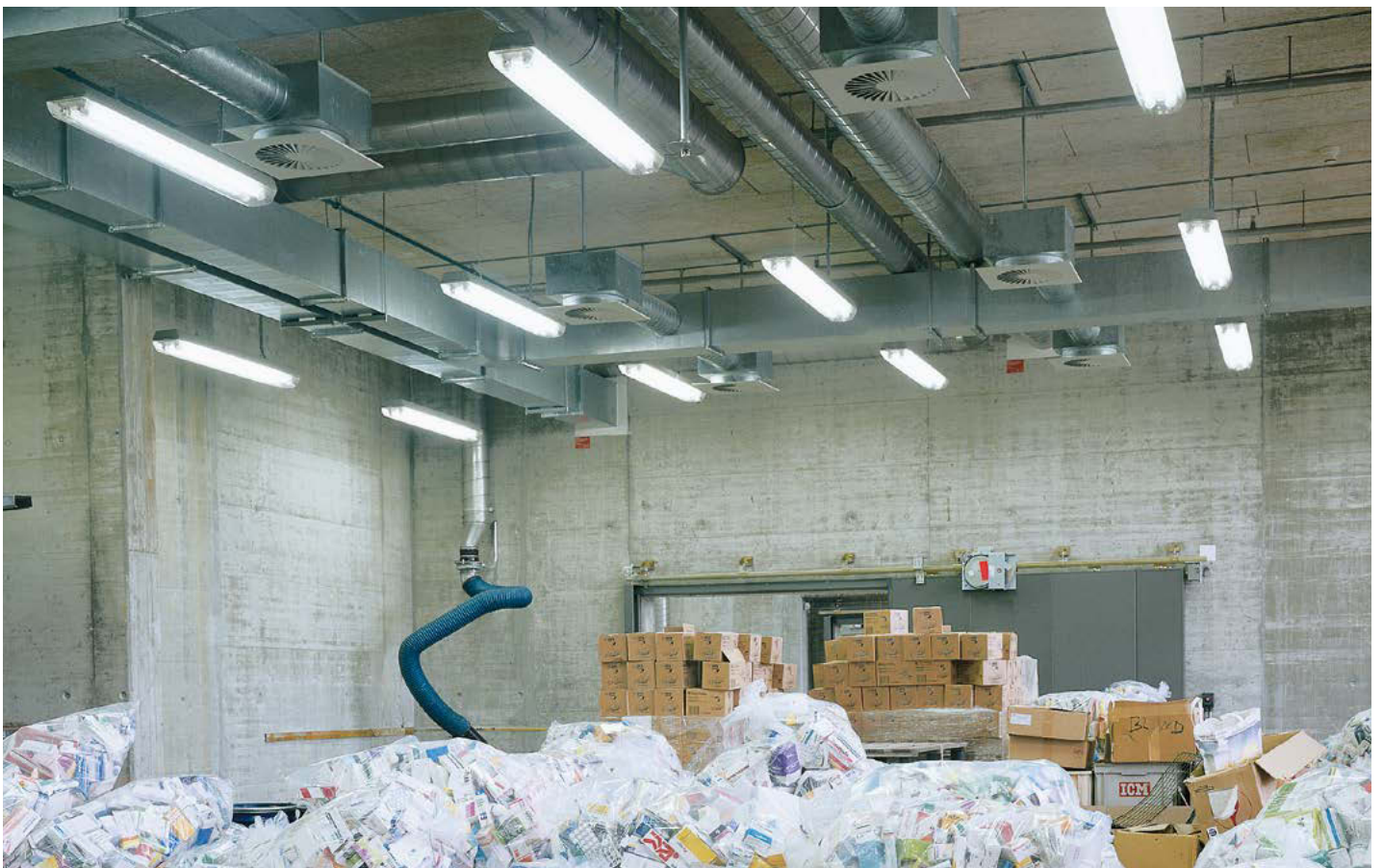
**PERLUCE LED**  
square opal



**PERLUCE LED**  
circular opal

	PERLUCE LED linear LRO	PERLUCE LED linear opal	PERLUCE LED square opal	PERLUCE LED circular opal
<b>Distribution characteristics</b>				
☒ Direct/indirect *	■	■	■	■
<b>Protection type</b>				
IP50	■	■	■	■
IP54		■	■	
<b>Installation</b>				
Surface-mounted	■	■	■	■
Trunking (TECTON)	■	■		
Trunking (ZX)	■	■		
<b>Dimensions</b>				
620 x 120 x 91 mm		■		
1220 x 120 x 91 mm	■	■		
1520 x 120 x 91 mm	■	■		
310 x 310 x 90 mm			■	
620 x 620 x 90 mm			■	
Ø 330 / H 104 mm				■
Ø 450 / H 114 mm				■
<b>LED</b>				
1800 lm / 3000 K		■		
2000 lm / 4000 K		■		
2000 lm / 3000 K			■	■
2200 lm / 4000 K			■	■
3400 lm / 3000 K	■			
3600 lm / 3000 K		■		■
3600 lm / 4000 K	■			
3800 lm / 4000 K		■		■
4200 lm / 3000 K	■			
4400 lm / 3000 K		■		
4400 lm / 4000 K	■			
4600 lm / 4000 K		■		
5000 lm / 3000 K			■	
5200 lm / 4000 K			■	
<b>Accessories</b>				
Adapter (TECTON)	■	■		

\* ceiling illuminated



↑ Hagenholz Recycling Centre, Zurich | CH  
Lighting solution: KXA-2



## KXA-2, KXB

Explosion-proofness guarantees perfect safety

ATEX explosion protection for Zone 1/21 and Zone 2/22. Two-channel electronic ballast with end-of-life monitoring and unilateral through wiring as standard.

Explosion-proof luminaires incorporating a revolutionary LED module and special reflector design with indirect light exit for light distribution without any shadows or spill light. Even KXA-2 (18 W and 36 W versions) luminaires that have already been installed can be retrofitted with the linear LED module without having to replace the ballast.



**KXA-2, KXB**  
Explosion-proof moisture-proof diffuser luminaires



KXA-2  
Zone 1/21




KXA-2  
with emergency lighting unit



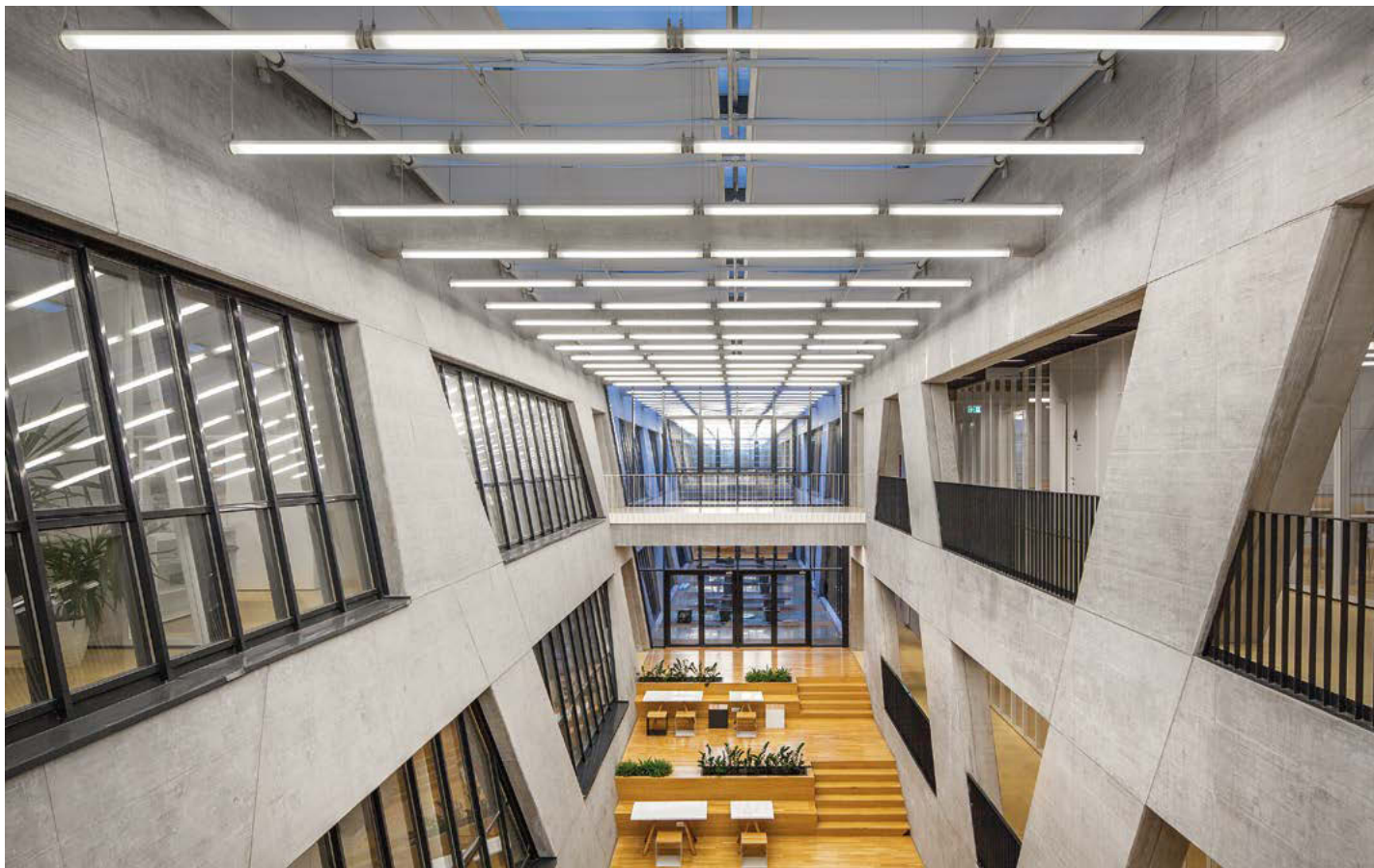
KXB  
Zone 2/22



KXB  
with emergency lighting supply unit

	KXA-2 Zone 1/21	KXA-2 with emerg. lighting unit	KXB Zone 2/22	KXB with emerg. lighting supply unit
<b>Distribution characteristics</b>				
 Very wide-angle	■	■	■	■
<b>Protection type</b>				
IP66	■	■	■	■
<b>Installation</b>				
Surface-mounted	■	■	■	■
Trunking	■	■	■	■
<b>Dimensions</b>				
760 x 188 x 130 mm	■		■	
1360 x 188 x 130 mm	■		■	
1660 x 188 x 130 mm			■	
900 x 188 x 130 mm		■		■
1500 x 188 x 130 mm		■		■
<b>LED</b>				
26 W (4000 K)	■	■	■	■
52 W (4000 K)	■	■	■	■
<b>Accessories</b>				
LED module upgrade kit*	■			
Chain suspension	■	■	■	■
Fixing components	■	■	■	■
Straight connector	■	■	■	■

\* for KXA-2 2/18W and KXA-2 2/36 W



↑ **Faculty of Civil Engineering, Osijek | HR**

Architecture: Dinko Peračić, ARP d.o.o., Split | HR

Lighting solution: TUBILUX, ECOOS, PERLUCE, TECTON, ELEEA, SEQUENCE, SLOTLIGHT 2, TROIKA, CONTRAST, RESCLITE, CROSSIGN, LUXMATE DIMLITE, LITECOM

↓ **Sudhaus FORST, Lagundo | IT**

Architecture: Brühner-Hüttemann Pasch BHP, Bielefeld | DE

Lighting solution: TUBILUX, LINARIA, SLOTLIGHT, PURESIGN



# TUBILUX

Tubular luminaire for demanding conditions

As a classic all-rounder, the new generation of TUBILUX offers maximum protection for applications with demanding conditions. The tubular luminaire with IP68 (TUBILUX slim,

TUBILUX HO) and IP69K (TUBILUX, TUBILUX XT) protection guarantees the highest degree of mechanical resistance and resists dust and moisture.

## TUBILUX

### Tubular luminaires



#### **TUBILUX, TUBILUX XT**

As a classic all-rounder, TUBILUX offers maximum protection for demanding applications. TUBILUX XT is ideal for industrial sites where higher temperatures, power surges and long lifetime are key issues.



#### **TUBILUX HO**

TUBILUX HO combines higher lumen output and excellent uniformity with increased protection against salt water and mechanical impacts.



#### **TUBILUX slim**

Last but definitely not least, TUBILUX slim is the perfect slender solution for architects and locations that are too small for the regular version.



	TUBILUX	TUBILUX XT*	TUBILUX HO	TUBILUX slim
<b>Distribution characteristics</b>				
<input checked="" type="checkbox"/> Open light distribution	■	■	■	■
<b>Degree of protection</b>				
IP68	■	■	■	■
IP69K	■	■		
<b>Impact resistance</b>				
IK07	■	■		
IK10			■	■
<b>Material</b>				
End cap: PBT	■	■		■
End cap: Aluminium			■	
Tube: PMMA opal	■	■		
Tube: PC clear		■	■	■
<b>Dimensions</b>				
Ø 90 mm / 700 mm	■			
Ø 90 mm / 1260 mm	■	■		
Ø 90 mm / 1540 mm	■			
Ø 105 mm / 1500 mm			■	
Ø 50 mm / 620 mm				■
Ø 50 mm / 1180 mm				■
Ø 50 mm / 1460 mm				■
<b>LED</b>				
up to 6400 Lumen (135 lm/W)	■	■		
up to 12000 Lumen (140 lm/W)			■	
up to 3700 Lumen (120 lm/W)				■

\* TUBILUX XT

Service life: 73 000 h / L80

Ambient temperature: up to +50 °C

Overvoltage protection: 4 kV



↑ **Merli Hospital, Rimini | IT**

Architecture: Polistudio a.e.s. Architecture Engineering S.R.L.,  
Cumo Mori Roversi Architetti, Rimini | IT  
Lighting solution: CLEAN, ARCOS, PANOS, SLOTLIGHT, PASO,  
LUXMATE PROFESSIONAL, LUXMATE EMOTION

↓ **Dobro factories – part of the Žito d.o.o. Group, Ovčara | HR**

Architecture: Oliver Grigic, Čepin | HR  
Lighting solution: CLEAN, CRAFT, SLOTLIGHT, PERLUCE, MELLOW LIGHT V,  
FD 1000, RESCLITE, ECOSIGN, FORCE LED



# CLEAN

For cleanrooms in healthcare settings and industry

## **CLEAN SUPREME – for extreme requirements**

The unique feature of the top-of-the-range model in the CLEAN product line is a continuous smooth safety glass diffuser. The 4 mm thick toughened safety glass does not need a frame nor is it interrupted by fasteners (consistent IP65 protection rating). The innovative magnetic fasteners combine safety with functionality. The CLEAN SUPREME LED clean-room luminaire is now able to make full use of the potential of LED technology. In addition to its high colour rendering index of up to Ra 90, CLEAN SUPREME LED cannot fail to impress due to the extremely low maintenance requirement and hence reduced service costs. Fraunhofer IPA certificate for clean-room compatibility in clean rooms of Classes 3 to 9 (ISO class).

## **CLEAN ADVANCED – for exacting requirements**

The diffuser including a high-quality anodised aluminium frame with a safety glass panel inserted is characteristic of the mid-range model of the CLEAN clean-room luminaire (IP65 protection, IP54 on the side facing the ceiling). For application areas where a particularly high colour rendering index is required, Zumtobel now offers the CLEAN ADVANCED LED clean-room luminaire also with a colour rendering of Ra 90. Fraunhofer IPA certificate for clean-room compatibility in clean rooms of Classes 3 to 9 (ISO class).

## **CLEAN CLASSIC – for increased requirements**

The CLEAN CLASSIC LED luminaire with opal PMMA optic, available either with warm or intermediate light colour, has been added to the CLEAN portfolio. A choice of two colour rendering levels is available (Ra 80 or Ra 90). The classic version of the CLEAN luminaire focuses on basic clean-room requirements such as good hygiene and ease of cleaning. PMMA acrylic glass inserted into the high-grade anodised aluminium frame ensures IP54 protection (IP20 on the side facing the ceiling).

**CLEAN SUPREME, CLEAN ADVANCED, CLEAN CLASSIC**  
Clean-room luminaires



**CLEAN S-MP SUPREME LED**  
linear, MPO



**CLEAN A-MP ADVANCED LED**  
linear, MPO




**CLEAN C-O CLASSIC LED**  
linear, opal



**CLEAN A-MP ADVANCED LED**  
square, MPO



**CLEAN C-O CLASSIC LED**  
square, opal

	CLEAN SUPREME LED linear	CLEAN ADVANCED LED linear	CLEAN ADVANCED LED square	CLEAN CLASSIC LED linear	CLEAN CLASSIC LED square
<b>Distribution characteristics</b>					
 Wide-angle	■	■	■	■	■
<b>Installation</b>					
Surface-mounted	■				
Recessed		■	■	■	■
Mounting frame with flange	■				
<b>Optics</b>					
MPO	■	■	■		
Opal				■	■
<b>Dimensions</b>					
1250 x 350 x 96 mm	■				
1550 x 350 x 96 mm	■				
1198 x 298 x 106 mm		■			
1248 x 310 x 106 mm		■			
598 x 598 x 106 mm			■		
623 x 623 x 106 mm			■		
1198 x 298 x 101 mm				■	
1248 x 310 x 101 mm				■	
598 x 598 x 126 mm					■
623 x 623 x 126 mm					■
<b>LED</b>					
3800 lm – 4800 lm / 3000 K / 4000 K / Ra 80 / 4000 K / Ra 90		■	■		
5000 lm – 6200 lm / 3000 K / 4000 K / Ra 80 / 4000 K / Ra 90		■	■		
8000 lm – 11000 lm / 4000 K / Ra 80 / Ra 90	■				
4800 lm / 4000 K / Ra 90				■	■
5000 lm / 3000 K / 4000 K / Ra 80				■	■
5200 lm / 3000 K / 4000 K / Ra 80 / 4000 K / Ra 90				■	■
5400 lm / 3000 K / 4000 K / Ra 80				■	■
5800 lm / 3000 K / 4000 K / Ra 80				■	■



# Façade, media and outdoor luminaires



Mc Donald's, Lustenau | AT

Architecture: Baumschlager Eberle Architekten, Lustenau | AT

Lighting solution: SUPERSYSTEM outdoor

	LED outdoor luminaires
214	<b>SUPERSYSTEM outdoor</b>
	Surface-mounted spotlights
218	<b>PYLAS</b>
	Decorative façade luminaires
222	<b>APHRODITE</b>
	Recessed spotlights
224	<b>PAN</b>
226	<b>LEDOS III</b>
230	<b>PASO II</b>
234	<b>ORILED</b>







#### ↑ Municipality of Lech am Arlberg, Lech am Arlberg | AT

Lighting project design: Dieter Bartenbach, Innsbruck | AT

Electrical installation: Elektro Müller, Landeck | AT

Lighting solution: SUPERSYSTEM outdoor mast and façade luminaire, situation-specific with 6 to 34 pre-assembled LED tubes, central Zumtobel outdoor lighting management system with web interface

#### Lighting that makes an area effective

Conventional street lights primarily brighten horizontal areas. However, this is not sufficient to design an outdoor area impressively. SUPERSYSTEM outdoor includes both vertical as well as horizontal areas in the lighting concept – the spatial structure can thus also be experienced at night. Unique visual comfort is produced by division of the amount of light: Light emitted from multiple tubes prevents too high light pressure, limits the glare and distinguishes the luminaire as visually restraining lighting tool.



Conventional street lighting



Street lighting with SUPERSYSTEM outdoor



# SUPERSYSTEM outdoor

Multi-zone lighting for effective design of outdoor areas

## **SUPERSYSTEM outdoor is breaking new ground**

Multiple light tubes create a uniquely refined luminaire. As a result, the outdoor lighting gains in visual quality, design competence and precision. The best glare suppression increases visual comfort and well-being. Directed,

well-dosed light also actively protects against light pollution. The luminaire itself deliberately stays in the background and results in continuous design through all applications. Multi-zone light distribution and pivoting tubes on request make it possible.



## SUPERSYSTEM outdoor

### LED outdoor luminaire

#### SUPERSYSTEM outdoor

Area Light



#### SUPERSYSTEM outdoor 12 tubes module

Luminaire for pavements: Optics, inclination and opening angles of the 12 LED tubes are perfectly matched to the lighting of narrow paths and alleys.



#### SUPERSYSTEM outdoor 18 tubes module

Luminaire for road and street lighting: Optics, inclination and opening angles of the 18 LED tubes are perfectly matched to the lighting of streets and small squares.



#### SUPERSYSTEM outdoor 30 tubes module

Luminaire for squares: Optics, inclination and opening angles of the 30 LED tubes are perfectly matched to the lighting of large squares and streets.

#### SUPERSYSTEM outdoor

Projection



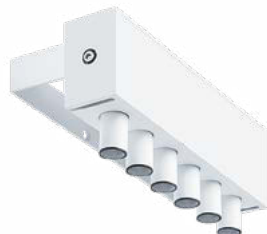
#### SUPERSYSTEM outdoor Fixed 3 tubes module

Compact façade floodlight with 3 fixed LED tubes: Ideal for accentuating façades with various radiation characteristics.



#### SUPERSYSTEM outdoor Movable 3 tubes module

Compact façade floodlight with 3 movable LED tubes: Ideal to flexibly accent individual façade elements.



#### SUPERSYSTEM outdoor Fixed 6 tubes module

Compact façade floodlight with 6 fixed LED tubes: Ideal for accentuating façades with various radiation characteristics.

#### SUPERSYSTEM outdoor

Accent luminaire



#### SUPERSYSTEM outdoor 3 tubes module

Light insert for light column with 3 movable LED tubes: Ideal for individually lighting decorative objects and setting accents.



#### SUPERSYSTEM outdoor 6 tubes module

Light insert for light column with 6 movable LED tubes: Ideal for individually lighting decorative objects and setting accents.





	SUPERSYSTEM outdoor Area Light	SUPERSYSTEM outdoor Projection	SUPERSYSTEM outdoor Accent luminaire
<b>Distribution characteristics</b>			
■ Narrow		■	■
■ Medium	■		
▲ Wide	■		■
■ Elliptical		■	
■ Swivelling		■	■
Special combination of tubes/optics	■		
<b>Colour</b>			
Charcoal	■	■	■
White		■	
<b>Installation</b>			
Wall and ceiling mounting with mounting bracket	■	■	
Mast mounting with mounting bracket (for square masts, 4.5 m and 6 m)	■		
Mast mounting (4.5 m and 6 m)			■
<b>Dimensions</b>			
350 x 170 x 87 mm	■		
350 x 200 x 87 mm	■	■	
350 x 290 x 87 mm	■		
250 x 70 x 100 mm		■	
350 x 70 x 100 mm		■	
<b>LED</b>			
12 x 2.1 W (25,2 W), 3000 K, 4000 K, up to 2000 lm	■		
18 x 2.1 W (37,8 W), 3000 K, 4000 K, up to 2800 lm	■		
30 x 2.1 W (63 W), 3000 K, 4000 K, up to 4800 lm	■		
3 x 2.1 W (6,3 W), 3000 K, 4000 K, up to 600 lm		■	■
6 x 2.1 W (12,6 W), 3000 K, 4000 K, up to 1200 lm		■	■
<b>Accessories</b>			
Mounting bracket	■	■	
Mast (4.5 m)	■		■
Mast (6 m)	■		■
Connector (for loop-through wiring)	■	■	■

#### SUPERSYSTEM outdoor pillar luminaire

Square light column, combinable with up to 4 different light inserts, 1 insert in each direction respectively: Ideal as a fully-integrated accent lighting combination with an unobtrusive design.

Mast: 4.5 m

Equipment: 3P (3 x 200 lm), 6P (6 x 200 lm)



← **Tower of Skies, Bremen | DE**  
 Lighting design: Lichtwerke Bremen | DE  
 Lighting solution: PYLAS



# PYLAS

Efficient façade lighting from close up or far away

Featuring superior LED technology and efficiency of more than 60 lumens per watt, the PYLAS LED floodlight is a pioneer in contemporary façade lighting. The extensive PYLAS product range, which includes four design sizes in an identical design, presents itself as an ideal solution for illuminating façades from various distances and for highlighting details. PYLAS is one of the most versatile floodlights available on the market, boasting power ratings from 1.2 to 52.5 W, narrow-beam and wide-angle radiation angles as well as various

white light colours and RGB models. The luminaire cannot fail to impress on account of its easy installation and functional design: double powder coating makes the LED spotlight with IP66 protection especially durable and resistant. Flush-fitting glass panels without a groove prevent deposit of dirt and residual water. The models can be precisely adjusted via a graduated scale and are fixed with a double safety mechanism. The anti-glare accessories available ensure targeted lighting without any scattered light.

**PYLAS**  
LED spotlight luminaire



PYLAS S LED



PYLAS M LED



PYLAS L LED



PYLAS XL LED



PYLAS S LED RGB



PYLAS M LED RGB



PYLAS L LED RGB



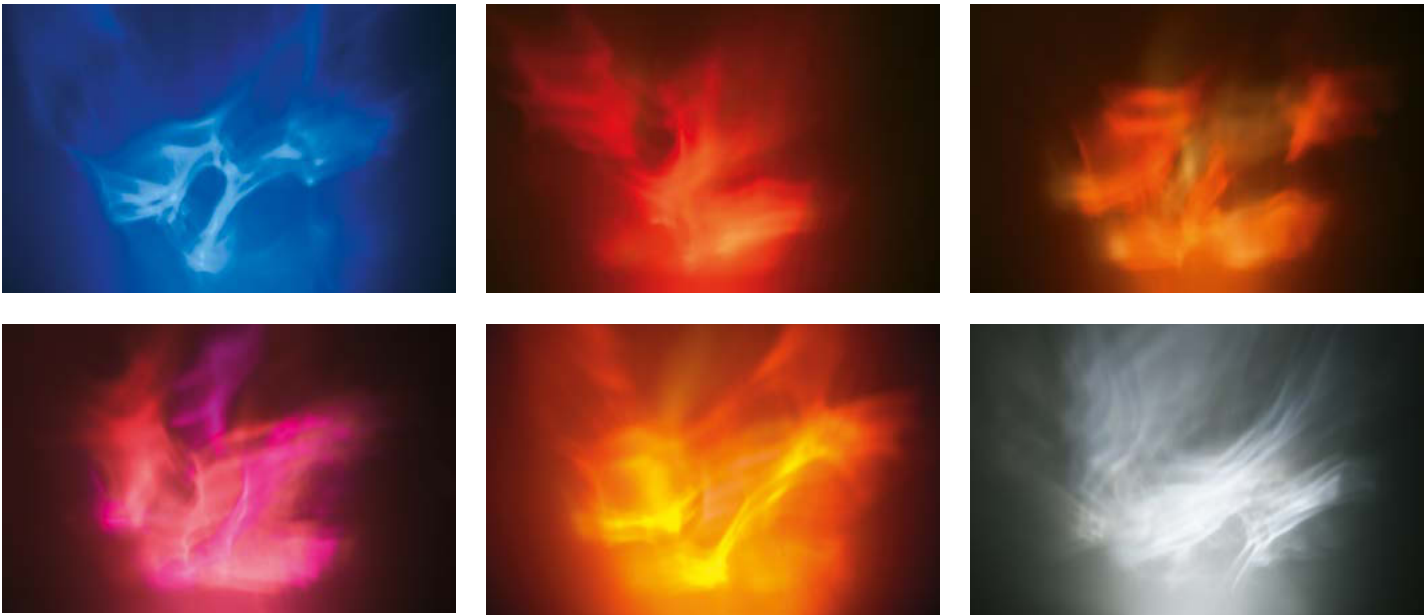
PYLAS XL LED RGB

	PYLAS S LED / LED RGB	PYLAS M LED / LED RGB	PYLAS L LED / LED RGB	PYLAS XL LED / LED RGB
<b>Distribution characteristics</b>				
■ Superspot	■	■	■	■
▲ Flood	■	■	■	■
<b>Pivoting range</b>				
approx. -40° to +90°	■			
approx. -21° to +201°		■		
approx. -14° to +194°			■	
approx. -19° to +199°				■
<b>Protection type/protection class</b>				
IP66, protection class I, LED white (AC/DC 230 V)	■	■	■	■
IP68, protection class III, RGB (DC 24 V)	■	■	■	■
<b>LED</b>				
1 x 1.2 W LED (3200 K, 6000 K)	■			
3 x 1.2 W LED RGB (flood)	■			
4 x 2.25 W LED (3200 K, 6000 K)		■		
4 x 2 W LED RGB (flood)		■		
7 x 2.25 W LED (3200 K, 6000 K)			■	
7 x 2 W LED RGB (flood)			■	
21 x 2.25 W LED (3200 K, 6000 K)				■
21 x 2 W LED RGB (flood)				■
<b>Accessories</b>				
Barn doors	■	■	■	■
Anti-glare hood	■	■	■	■
Earth spike	■	■	■	
Installation clip	■			
Clamp for fitting to masts			■	■
XLR 5-pole DMX IP65/67 socket	■	■	■	■
IP56 DMX ballast box	■	■		





APHRODITE lighting scenes





# APHRODITE

## Special functional and emotive lighting effects

Light that is never static and never indicates any symmetry: the APHRODITE LED spotlight combines light, colour and movement in a fascinating manner, allowing to impressively set façades and rooms centre stage. Based on the lighting spectacles found in nature, a unique lighting concept has been developed that is characterised by highly emotive lighting scenes. In the process, the benefits of LED technology show to particular advantage. Permanently flowing, yet non-repetitive lighting projections are made possible by a special system (patent pending) comprising a specially developed LED module and a specially shaped, motor-driven rotating glass cylinder. A choice of seven pre-defined lighting scenes with three

speeds and various dimming levels is available. They create variable and ever-changing atmospheric lighting scenarios from functional white light in various colour temperatures, combining them with emotive coloured light from red, blue and amber LEDs.

Individual lighting scenes, and the projection direction and speed can be set manually via momentary-action switches on the spotlight or by remote control via DMX protocol.

Thanks to IP65 protection and the use of materials that are highly resistant to chlorine, APHRODITE is an eye-catcher also in wellness areas, inviting people to relax.

*Design: Nik Schweiger*



↑ **Mirage Shopping Center, Žilina | SK**

Architecture: Michal Diviš Architekti s.r.o., Žilina | SK

Lighting solution: PAN, CIELOS, SLOTLIGHT, FD 1000, MICROS, PANOS infinity, SUPERSYSTEM, ONDARIA, SCUBA, PERLUCE, RESCLITE, ECOSIGN, ERGOSIGN, COMSIGN, LUXMATE PROFESSIONAL



# PAN

## The small alternative to conventional floodlights

With a diameter of only 52 mm, PAN is the smallest recessed spotlight for façade lighting available on the market. The rugged spotlight can be fitted flexibly in a downlight or uplight position to highlight architectural details, which makes it an expert for illuminating windows and cornices while remaining perfectly unobtrusive itself. The luminaire, which is made of die-cast aluminium, features IP65 protection and is ready for recess and surface mounting using a surface-mounted housing, demonstrates its strengths for both modern buildings and buildings protected as historic monuments. PAN is fitted with a high-output LED and requires minimum power of only

1.25 W; it is therefore a contemporary and sustainable alternative to conventional floodlights with high lumen output.

Thanks to the varied range of models available, the maintenance-free LED luminaire provides plenty of design freedom: the choice of optical systems available includes narrow-beam spots and a wide-angle flood optic through to an elliptical lens with asymmetrical light distribution. Colour temperatures of 3200 K and 6000 K make PAN perfect for illuminating a variety of materials and surfaces such as aluminium and sandstone. The 350 mA luminaire can be wired conveniently and quickly with an external supply box with a built-in converter.



↑ **AOK, Berlin | DE**

Architecture: RKW Architekten, Berlin | DE, Klaus Gregoritsch, Klagenfurt | AT

Lighting design: Schreiber, electrical engineering office, Berlin | DE

Lighting solution: LEDOS III, CIELOS, MELLOW LIGHT IV, LUXMATE PROFESSIONAL





## LEDOS III

Design variety in terms of both form and function

The third generation of LEDOS is available in three sizes and two designs and is generally smaller, more powerful and more efficient. This highly flexible recessed luminaire produces impressive technical lighting results and excels as an all-rounder for walls, floors and ceilings in indoor and outdoor locations.

Different optics ensure application diversity using high-precision lighting technology, ranging from lighting points that allow easy orientation through to façade elements precisely lit in warm or cool white light. These luminaires boast reliable protection (IP67), can be walked over and can bear loads of up to 1000 kg.

**LEDOS III**  
Recessed spotlights



**LEDOS III S D**  
Ø 30 mm



LEDOS III S D  
with domed lens



**LEDOS III S Q**  
□ 29 mm



**LEDOS III M D**  
Ø 45 mm



LEDOS III M D  
with flat lens



**LEDOS III M Q**  
□ 43 mm



**LEDOS III L D**  
Ø 89 mm



LEDOS III L D  
with flat lens



**LEDOS III L Q**  
□ 85 mm

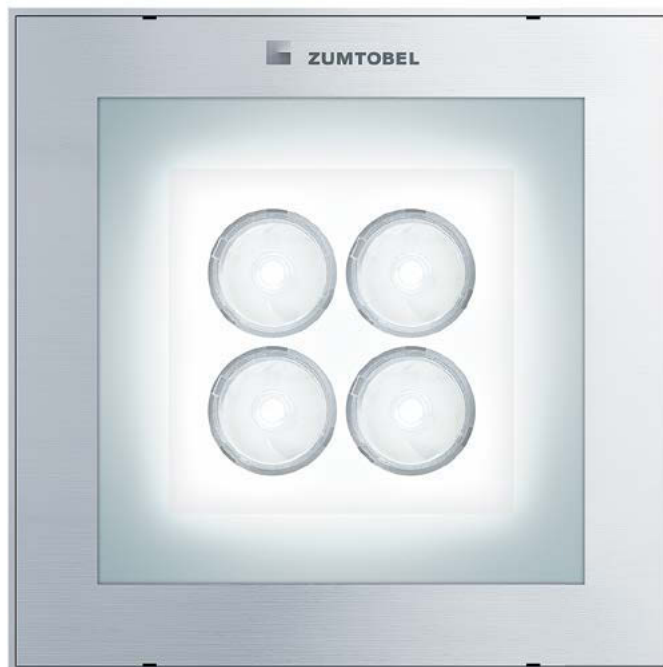
	LEDOS III S D30	LEDOS III S Q29	LEDOS III M D45	LEDOS III M Q43	LEDOS III L D89	LEDOS III L Q85
<b>Distribution characteristics</b>						
■ Uplight superspot					■	■
■ Uplight spot			■	■		
■ Uplight flood	■	■	■	■	■	■
■ Asymmetric			■	■		
🔄 Swivelling					■	■
<b>Pivoting range</b>						
approx. ±15°					■	■
<b>Protection type/protection class</b>						
IP67, protection class III	■	■	■	■	■	■
<b>Optics</b>						
Frosted protective cover, flat	■	■	■	■	■	■
Frosted protective cover, convex	■	■				
Spot lens optic			■	■		
Textured asymmetric lens optic			■	■		
Textured flood lens optic			■	■	■	■
Superspot lens optic					■	■
<b>LED</b>						
1 x 0.60 W LED (3200 K, 6000 K)	■	■				
1 x 1.25 W LED (3200 K, 6000 K)			■	■		
1 x 2.70 W LED (3200 K, 6000 K)					■	■
<b>Accessories</b>						
Concrete casting surround	■	■	■	■	■	■
Installation kit	■	■	■	■	■	■
LED power packs	■	■	■	■	■	■
Universal boxes	■	■	■	■	■	■
Cable connectors	■	■	■	■	■	■



↑ **Gioielleria Scintille, Cosenza | IT**

Architecture: De Marco Gennaro, Cosenza | IT

Lighting solution: PASO II, KAVA, 2LIGHT MINI, VIVO, STARFLEX



## PASO II

Lighting competence at every step and turn

PASO II knows how to hit all the right buttons when it comes to setting dramatic contemporary lighting scenes whilst remaining unobtrusive itself. Apart from conventional light sources, the PASO II luminaire range also offers a great variety of LED models.

When used as a recessed floor luminaire, the PASO II LED luminaire produces monochrome or colour-changing RGB columns of light.

The mature technology built into the PASO II recessed floor luminaire with IP67 protection also makes it perfect for installation on the ceiling (IP65). It ensures longevity and functional safety, particularly in locations where air humidity is high or there is significant exposure to dust or insects. PASO II LED luminaires are ideal for use in hospitals or wellness facilities because of their low maximum surface

temperature, which does not exceed 40 °C.

PASO II LED offers design variety with round and square models as well as a flush-mounted or overlapping special steel frame. With its round and square versions as well as flush-mounted and overlapping stainless steel frames in three sizes, 120/190/260 mm, PASO II provides for design variety.

It is particularly suitable for lighting sculptures, façades, public areas, as well as hotels or historical buildings. The corrosion-resistant stainless steel housing and the patented sealing system, in combination with the Camlock fastener, guarantee a premium-quality look.

The extra low-profile PASO II, which is available in sizes 190 and 260, is only 100 mm high, including its casting surround.



PASO II

Recessed floor luminaires

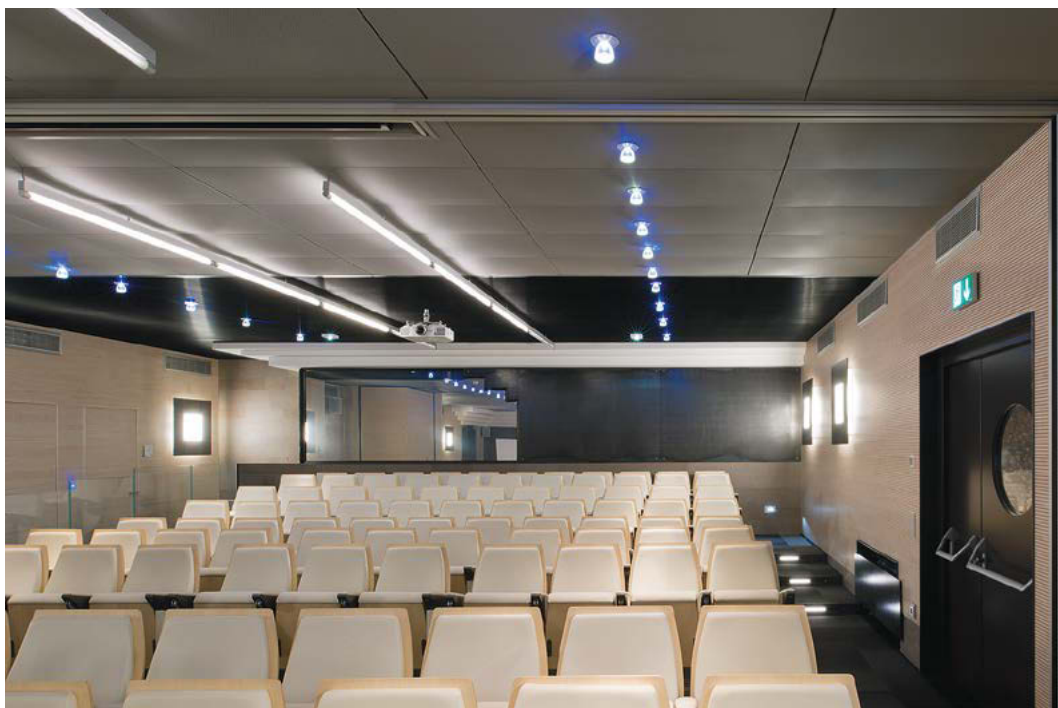


	PASO II D/Q 120 Power LED	PASO II D/Q 120 Power LED RGB	PASO II D/Q 120 Soft LED	PASO II D/Q 120 Soft LED RGB
<b>Distribution characteristics</b>				
■ Uplight superspot		■		
■ Uplight spot	■		■	■
■ Uplight flood				
■ Swivelling	■	■		
<b>Cover glass (optionally also anti-slip glass)</b>				
Partially frosted glass	■	■		
Frosted glass			■	■
<b>Recessed depth</b>				
93/100 mm / with insulation panel + 30 mm				
121/140 mm / with insulation panel + 30 mm	■	■	■	■
212/221 mm / with insulation panel + 30 mm				
219/227 mm / with insulation panel + 30 mm				
<b>Cover frame</b>				
Cover (overlapping)	■	■	■	■
Cover (flush)	■	■	■	■
Without cover (flush)	■	■	■	■
<b>LED</b>				
3 x 1.2 W LED (3200 K / 6000 K) 230 V	■			
3 x 1.2 W LED (RGB) 24 V		■		
1 x 1.2 W LED (3200 K / 6000 K) 230 V			■	
1 x 4.3 W LED (RGB) 24 V				■
4 x 1.2 W LED (3200 K / 6000 K) 230 V				
4 x 2.0 W LED (RGB) 24 V				
4 x 2.5 W LED (3200 K / 6000 K) 230 V				
4 x 2.0 W LED (RGB) 24 V				
7 x 2.5 W LED (3200 K / 6000 K) 230 V				
7 x 2.0 W LED (RGB) 24 V				
<b>Accessories</b>				
Installation kit for wooden and cavity floors	■	■	■	■
Installation kit for downlight and wall-mounting positions	■	■	■	■
Concrete casting surround	■	■	■	■



Recessed depth  
100 mm

**PASO II D 260**  
Power LED RGB



↑  
 ↓ **Association of Trentino's municipalities, Trento | IT**  
 Architecture: Arch. Giovanni Modena, Studio associato Modena De Concini, Trento | IT  
 Lighting design: SIRA soc.coop.r.l., Rovereto (TN) | IT  
 Lighting solution: ORILED, AERO, RESCLITE, COMSIGN, PURESIGN



# ORILED

## Orientation lighting close to ground level with LED

People need to be able to find their way intuitively at any time of day. This is especially true when it comes to finding one's way around public buildings. Light makes an important contribution to this and also improves safety. ORILED is the perfect alternative to conventional fluorescent lamps. A unique lens/reflector combination directs LED light onto the ground over a wide area. The luminaire's extremely uniform light distribution is ideal for specifically illuminating stairs, corridors, passageways and circulation areas.

Here, LED technology is an efficient alternative to light sources with relatively higher wattages and luminous flux levels.

The optionally flush-fitting or overlapping stainless-steel frame is safely yet invisibly attached using Camlock fasteners. These recessed luminaires and bollard luminaires are available with IP65 protection and are perfect for both indoor and outdoor use. Alternatively, ORILED is also available with separate battery packs for 1 or 3 hours of operation for use in emergency lighting systems.



# Lighting management



## Oslo Airport, Oslo | NO

Architecture: Nordic – Office of Architecture, Oslo | NO

Lighting design: Ingeniør Per Rasmussen AS, Vøyenenga | NO

Lighting solution: LITENET lighting management system, VIVO, CARDAN, AERO II, CRAFT, PANOS infinity, PURESIGN, CUBESIGN, CROSSIGN, SQUARESIGN, RECLITE, Thorn Mica, Thorn Area Flood

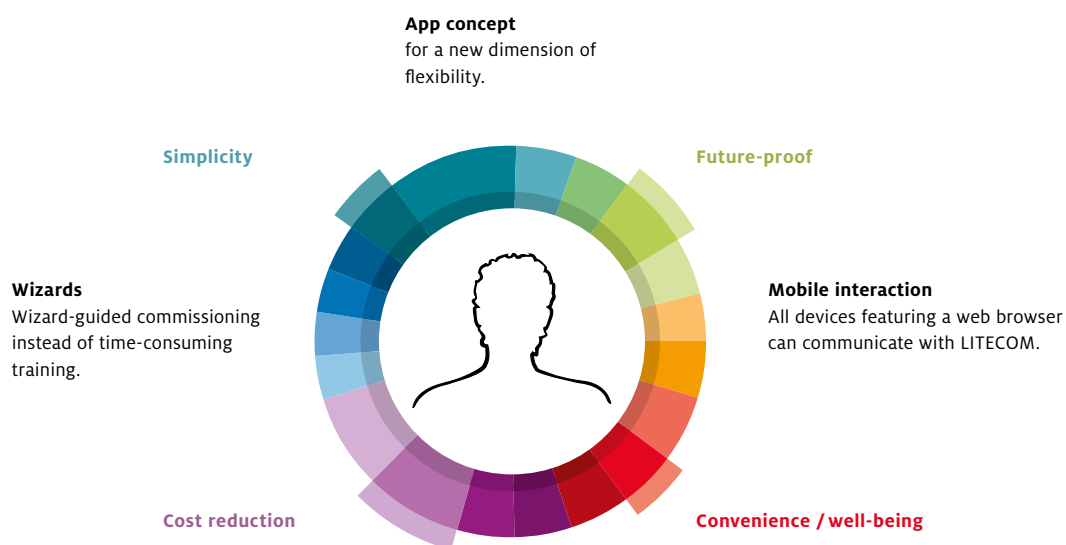


Lighting management systems

- 238 **LITECOM**
- 242 **LITECOM infinity**
- 246 **LUXMATE BASIC**
- LUXMATE DIMLITE**
- 248 **LUXMATE LITENET**
- 250 **LUXMATE**
- system components**







# LITECOM

## The next generation of lighting management

In order to develop LITECOM, Zumtobel cooperated with the best partners from the most varied disciplines. In collaboration with renowned development partners, they have created a pioneering and innovative open lighting management system that will forever change the world of building management. Interface designers and application experts have been involved in the project from the beginning. The result is a new form of lighting management that combines intuitive control via apps with easy installation and operation using an individual controller. For users,

LITECOM means easy configuration, intuitive user guidance and maximum flexibility, which is made possible thanks to the synthesis of controller, control unit and software within one system. This allows for the implementation, control and monitoring of individual lighting solutions that fully correspond to the specific requirements of a project: if required, additional functions can be programmed and integrated. LITECOM reduces complexity and can easily be controlled in an uncomplicated manner via any PC, smart phone or tablet using web technology.

# LITECOM lighting management

## Unique app concept

Through LITECOM, lighting management is given a new form of unlimited flexibility and customisation. This is made possible through a unique app concept.

### Customised functionality

Owing to the app concept, the lighting management system can be adjusted precisely to the needs of any building or user. Additional apps can be included at any time. Basic functions of the lighting system and building services are already covered by the Basic app. This includes, among other things, dimming luminaires, saving lighting scenes, and controlling screens, windows and blinds. Other functions, such as daylight-based lighting management, are covered by optional apps. Thus, any changes and additions have been provided for.

### Light that makes people feel good

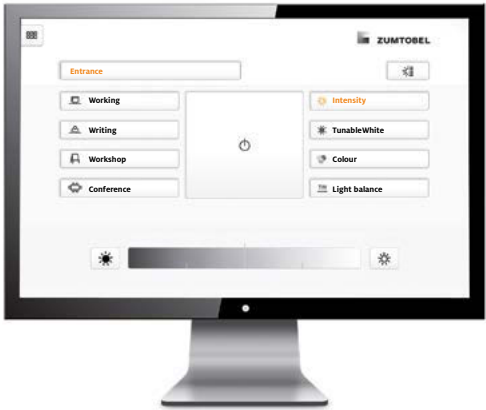
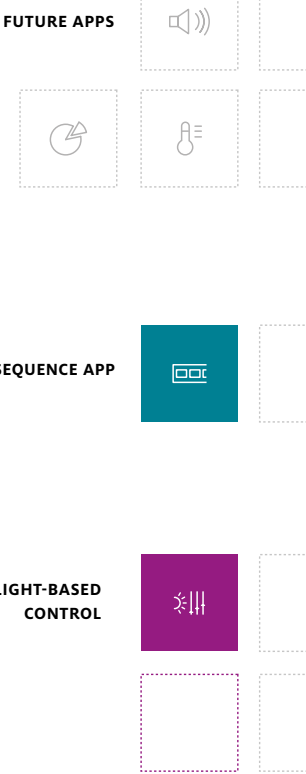
Based on the unique LITECOM control strategies, permanently available daylight not only increases the system's efficiency but also enhances people's well-being. At all times, visual contact with the outside world is maintained. Visible and noticeable daylight variations increase productivity and enhance the employees' loyalty towards the company. At the same time, LITECOM improves visual comfort, as there will be no glare even when the sun is low.

### LITECOM Wizards: guided commissioning

Step by step, the addressing wizard will guide you through the commissioning procedure. This tool allows even non-engineers to commission the system effectively. Basic functions such as switching and dimming of luminaires and luminaire groups as well as lighting scenes are available after just a few steps. Other wizards will help users make settings and configurations for special luminaires or daylight-based control.

### Mobile interaction

Every computer connected via a network, every tablet and every smartphone can assume the function of an operating point or control unit. The various expectations of users and system administrators are met in a target group-adequate manner using a 2-tier access system: no more than a click is required to call up a lighting scene, new functions can be added within seconds, and configuration is guided step by step. For the user interface especially developed for LITECOM is just as easy to use as a momentary-action light switch.



Every device fitted with a Web browser can be used as a LITECOM control unit. The user interface is displayed after one click.

## APP FOR EMERGENCY LIGHTING

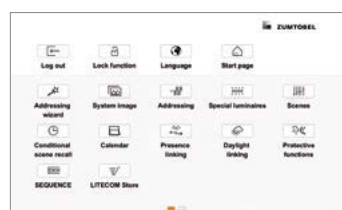


## APP FOR CONDITIONAL SCENE CALL

## BASIC APP



## APP FOR PRESENCE-BASED CONTROL



## APP FOR SPECIAL LUMINAIRES



## APP FOR SHOWS



CIRIA



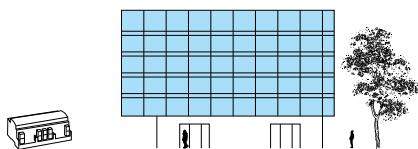
CIRCLE



Mom.-action switch

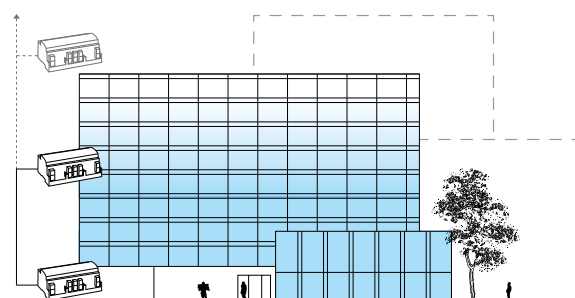
Zumtobel control units and conventional momentary-action switches fulfil the functions of traditional manual control in LITECOM systems.





#### LITECOM

A single LITECOM controller is enough for small buildings or a single floor. If the system is expanded to a LITECOM infinity system, several existing controllers are linked with one another. The opposite way is also possible at any time. By removing them from the system, each controller can again be transferred to the self-sufficient LITECOM mode with 250 addresses.



#### LITECOM infinity

The number of possible addresses adds up by linking several LITECOM controllers. A first generation LITECOM infinity system can comprise up to 2500 addresses with up to 15 controllers and ultimately up to 100,000 addresses will be possible. The system can thus be flexibly adjusted if the requirements in the building change.

LITECOM CCD, Central Control Device:  
The heart of the lighting management system





# LITECOM infinity

Next-generation lighting management for buildings and building complexes

The principle is astonishingly simple: The larger the system, the more controllers constitute a system. After networking for the first time, the controllers independently organise themselves into a LITECOM infinity system – without a central automation server, which is necessary for other systems. That is why the system is and remains so flexible. It is possible to join more controllers with a LITECOM infinity system or remove them again for self-sufficient LITECOM mode at any time.

The transition from LITECOM to LITECOM infinity is fluid. The control centre of both systems is the LITECOM CCD, which respectively controls 250 actuators. Larger systems simply need an additional LITECOM infinity controller (first version max. 2500 addresses with max. 15 LITECOM CCDs). The hardware is always the same and installation always takes place according to the same scheme. Every LITECOM infinity system of this size is presented to the observer as a unit and can be operated, monitored and configured centrally. Users only see floors and their rooms or zones when operating and can thus easily find their way.

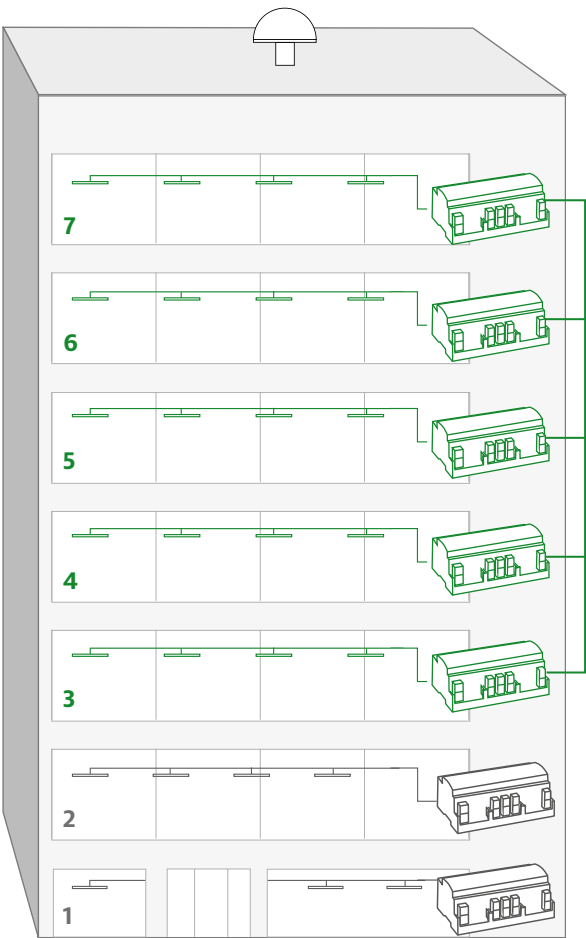
# LITECOM infinity

Lighting management with endless flexibility

**Flexible building use**

A LITECOM infinity system fits precisely into any building use. From self-sufficient lighting control on each individual floor through to building-wide overall systems with an Ethernet backbone, everything is possible. Thereby, areas can be brought together and removed from one another again.

Therefore, LITECOM and LITECOM infinity are not just the ideal solution for businesses that want to flexibly react to future changes, but also for buildings that are rented out to different users. Because with LITECOM, tenant himself can decide which function he wants to use in his own area.



**LITECOM infinity**

**Office:** infinity basic licence, daylight-based control with daylight measuring head, automatic blind control, shows, special luminaires



**LITECOM**

**Shop:** basic functions, shows, special luminaires



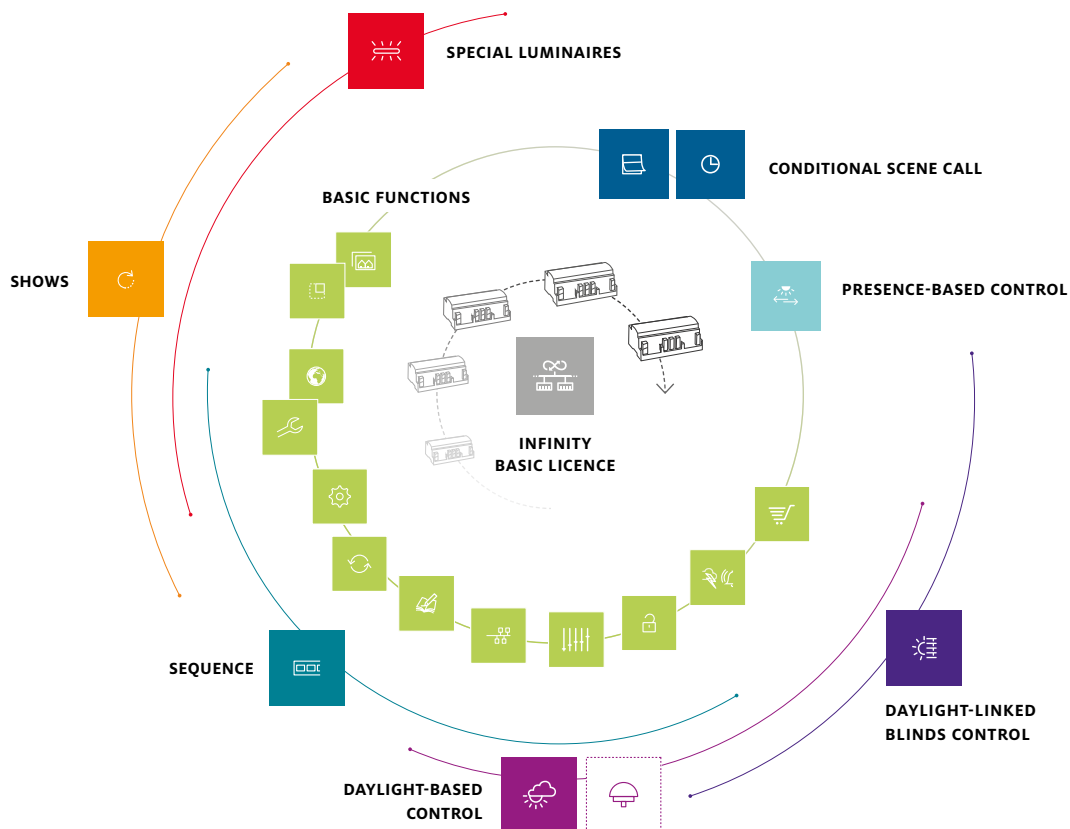
**LITECOM**

**Shop:** basic functions

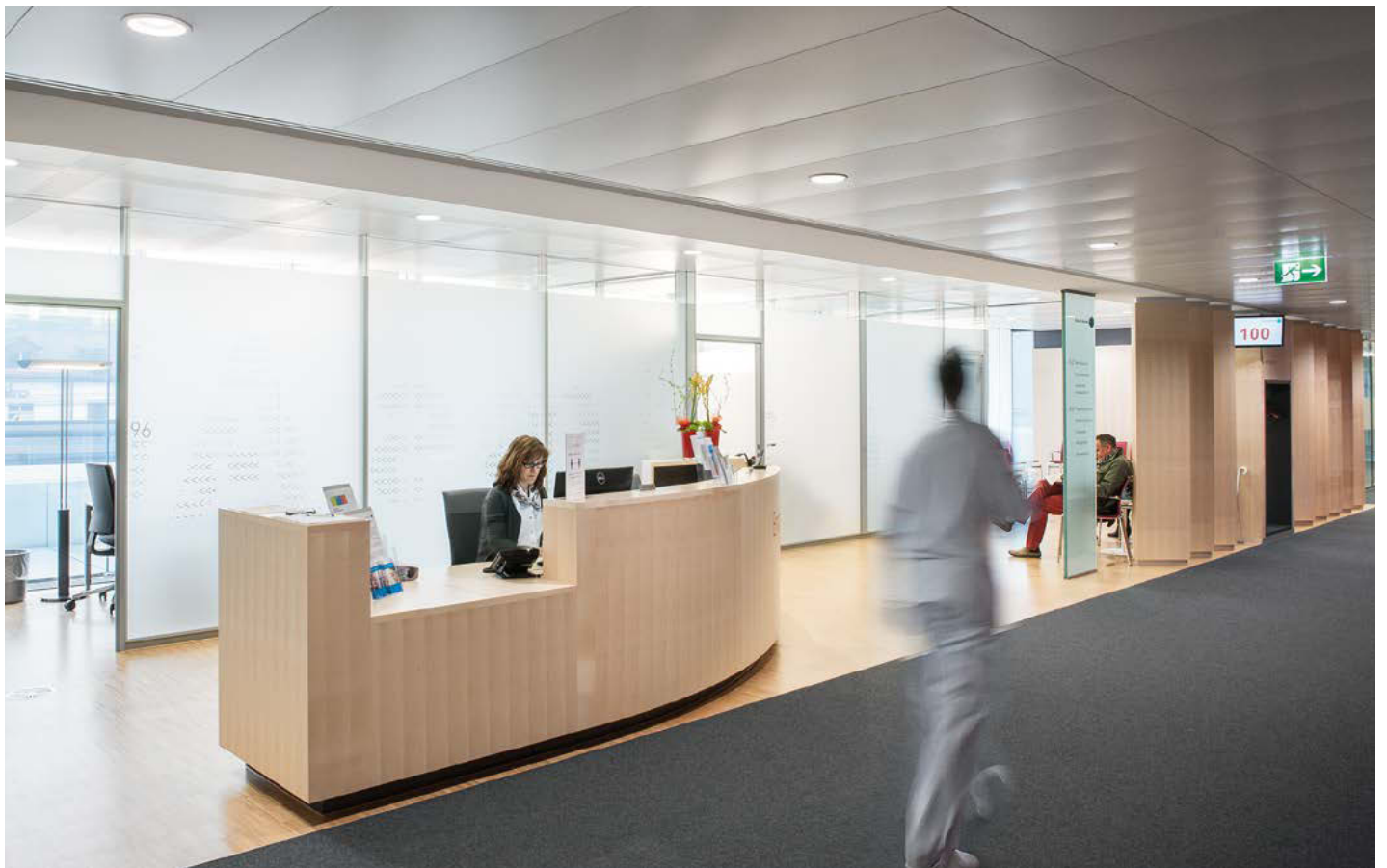


Additional LITECOM infinity licences can be included at any time. Basic functions of the lighting system and building services are already covered with the basic licence. This includes, among other things, dimming luminaires, saving lighting scenes, and controlling screens, windows and blinds.

Other functions, such as daylight or blind management with central daylight measuring head, are covered by optional licences. Thus, any changes and additions have been provided for.







↑ **Aarau cantonal hospital | CH**

Lighting design: Hefti. Hess. Martignoni., Aarau | CH

Lighting solution: LUXMATE BASIC lighting management, MICROS LED, AERO II

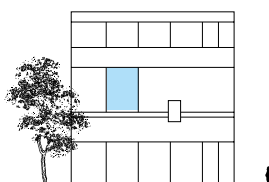
↓ **Hervis Wien Mitte, Vienna | AT**

Architecture: DIWAHN Architekten ZT GmbH, Wien | AT

Lighting and electrical design: IB Hartl & CO KG, Klagenfurt | AT

Lighting solution: LUXMATE DIMLITE lighting management, VIVO LED, TECTON LED, ZX2 LED, SCONFINE





# LUXMATE BASIC / DIMLITE

The ideal first step into the world of intelligent lighting control

The LUXMATE BASIC CIRCLE kit is the perfect solution for increasing comfort and at the same time reducing energy consumption using the simplest possible means. Compact, simple and straightforward. Thanks to its formally reduced design, the focus is placed on functionality. One CIRCLE kit includes all components necessary to make the first step into the world of lighting management: the control point and an appropriate bus power supply are all you need for smartly managing several luminaires. This is lighting management anyone can afford. For installation and commissioning, electricians need neither special training nor additional tools.

LUXMATE DIMLITE – simply connect piece by piece. This lighting control system works like a jigsaw puzzle: various components are added to a basic module, as required. Even the basic unit provides many practical functions such as dimming, a central ON/OFF function and one lighting scene. As requested, a variety of components can be connected to this central module for a functional upgrade. Whether convenient control units like the CIRCLE control point, a presence detector, or a light sensor for daylight-based lighting control – they all have one thing in common: simply connect them and they are ready.



### ↓ Torre Espacio, Madrid | ES

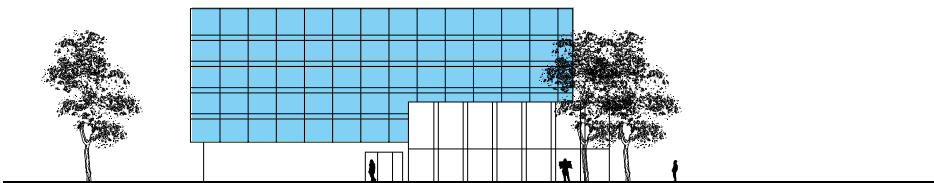
Architecture: Pei Cobb Freed & Partners,

Henry N. Cobb, New York | US

Lighting design: R. Urculo Ingenieros Consultores, S.A., Madrid | ES

Lighting solution: LUXMATE lighting management system





# LUXMATE LITENET

High-end room management system  
with lighting and blinds control

The intelligent way to reduce energy consumption: the flexible lighting management system handles small building units just as conveniently and reliably as large building complexes.

Its software also provides users with a consistent user interface. LITENET embodies cutting-edge communications standards and can be integrated into superordinate building systems.

Control



**Control panel**  
LM-CIRIA



**Circle control units**  
ED/LM-CSS  
LM-RCx



**IR remote control unit**  
IRTOUCH



**Momentary-action switches / switches**  
LM-4UAD  
LM-SxED  
ED-SxED



**Presence detector**  
LM-4AWS

Sensors

Control



**Presence detector + receiver for IRTouch**  
ED-SENS



**Receiver for EnOcean wireless switch**  
LM-RFR

Daylight-based control

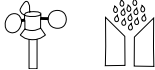


**Daylight sensor**  
LM-TLM



**Light sensor**  
LSD  
ED-Eye

Wind/rain-based control



**Weather sensors**  
LM-SN  
LM-SR  
LM-ST  
LM-SW

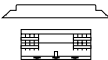
Lighting control



**Lighting actuators**  
LM-3DALIS2  
LM-DALIS  
LM-DALI  
LM-3DLIS  
LM-DSI  
LM-3DSIS  
LM-2ANAS



**Daylight actuators**  
LM-TLS



**Relay outputs**  
LM-1RUK  
LM-3RUKS  
LM-4RUKS



**Multifunctional box**  
LM-TLX



**Dimmers**  
LM-PAD 1000  
LM-PD 1000  
APDS 1000

Motor control



**Blind**  
LM-4JAS  
LM-2JASX  
LM-2JDCX

Central units



**Bus control**  
LM-BV  
LM-BVS35  
LM-BK



**Bus interface**  
PCSIX  
PCSIR  
LM-SIO3



**Room combination module**  
LM-RV



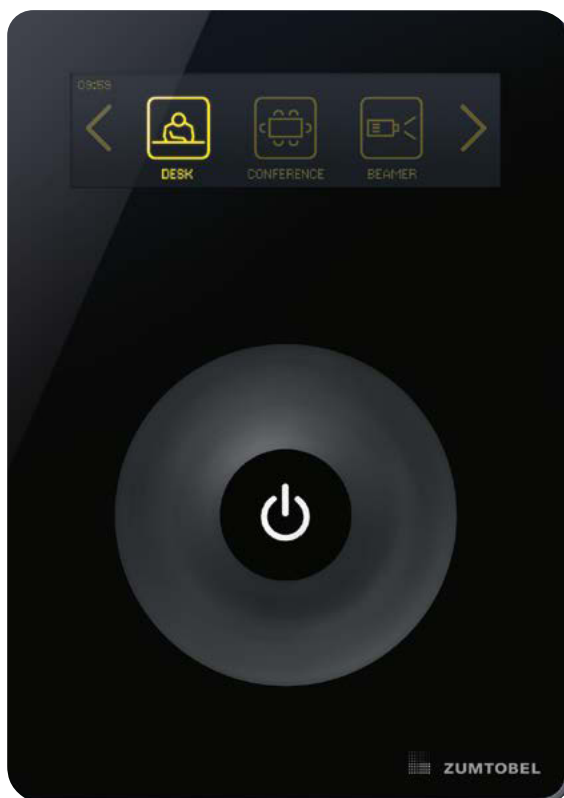
**Meteorological sensor input for weather sensors**  
LM-4WZS



**Light sensor input for LSD sensor**  
LM-4ILS



**Time-based control**  
LM-ZSM  
LM-iZSQ



## LUXMATE system components

LUXMATE system components make it possible to control luminaires and blinds, send control unit and sensor commands, and enable bus communication among units. In building automation, these are the field level units. The units can be operated at the LITECOM and LITENET automation systems. They can also be

operated as an autonomous lighting control system without automation. This provides the basis for the philosophy of decentralised control, according to which the key functions and settings can be run and stored in the respective field units.



# Emergency lighting



**Feinsinn – Bioladen & Genussküche, Mühl Dorf | DE**

Architecture: mhp Architekten/Innenarchitekten, Munich | DE

Lighting solution: PANOS infinity, ONICO, ONDARIA, LIGHT FIELDS evolution,  
MIREL evolution, COMSIGN, RESCLITE





Emergency luminaires

254 **RESCLITE PRO**

Escape sign luminaires

258 **ARTSIGN**

**COMSIGN**

**PURESIGN**

**CROSSIGN**

**ECOSIGN**

**ERGOSIGN**

**CUBESIGN**

**SQUARESIGN**


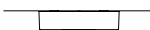




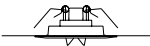





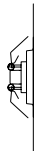
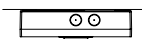




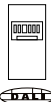






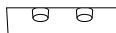
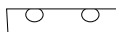
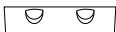

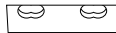

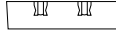


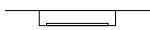
Supply and monitoring systems

262 **ONLITE local**

264 **ONLITE central CPS**

266 **ONLITE central eBox**

RESCLITE PRO

Recessed	Surface mounted	Continuous-row system	Optics	Colours	Types of power supply
 MRCR mini	 MSC	 TECTON	 escape	 White	 E1D Single battery 1h
 MRCR	 MSC HP	 TRINOS	 escape 90°	 Silver*	 E3D Single battery 3h
 MRWR	 MSC IP65		 escape wall	 Black*	
	 MSW		 escape high ceilings	* about myRESCLITE	 ECC central battery DALI
	 MSW IP65		 antipanic		 ECP central battery Powerline
			 antipanic high ceilings		 ECC central battery circuit-monitored
			 spot		
			 antipanic high ceilings		
			 antipanic		
			 escape beam		 E3T-H Single battery 3h
			 escape wall		
	 MSW IP65		 escape	 White	 E1T-H Single battery 1h
	 MSC IP65				
Surface mounted	Optics	Colours	Types of power supply		

RESCLITE PROtect



# RESCLITE PRO

The highest level of safety lighting

Compact, strong and energy-efficient: The powerful RESCLITE PRO uses innovative optics to meet all the varied demands of emergency lighting, blending attractive design with the highest technical standards.

New lenses help guide everyone to safety in the event of an emergency. The 90° escape optic illuminates two routes at the same time and the anti-panic lens features a square light distribution to light up large areas – right into the corners. Vertical light for first-aid kits and fire extinguishers is provided by the spot lens. At the same time, new PROset technology

makes this highly successful luminaire even more intelligent, allowing one-touch configuration and wireless addressing using the dedicated PROset smartphone app.

A discreet design means that RESCLITE PRO is ideal for architectural projects – especially when it comes to the discreet new miniature version, which almost seems to disappear into the ceiling. In addition to wall and ceiling mounting, RESCLITE PRO can be easily integrated into TECTON and TRINOS continuous-row systems, offering an optimum solution for shops and industry applications.

## RESCLITE PRO

### Guides your way

#### RESCLITE PRO escape 90°

The innovative 90-degree optics direct the light around the corner. Thus, a single luminaire is sufficient to illuminate two corridors at right angles. escape 90° is ideal for shops and retail where side and shelf aisles must be illuminated simultaneously. With the high-performance variant, the number of luminaires can be reduced furthermore.



#### RESCLITE PRO escape

Due to the unique lens technology, very long escape routes are illuminated with only a few light points. At the same time, the new type of crystal-clear lenses frees each escape route luminaire from disturbing reflectors. Luminaire spacing of up to 38 m can be achieved with the high-performance version.



#### RESCLITE PRO escape wall

The hardly visible recessed wall luminaire is perfectly suited to inconspicuously illuminate escape routes in stairwells or high-ceiling rooms. Optionally, a small frame makes a square version from the round recessed luminaire. In addition to the IP65-protected luminaire for more demanding surroundings, there is also an aesthetically pleasing surface-mounted version with protection class IP40.



#### RESCLITE PRO escape high ceilings (HC)

High-ceiling rooms, such as shelf aisles in logistics, are ideally prepared for an emergency with the escape route luminaire. Thanks to state-of-the-art lens technology, installation heights of up to 27 m are perfectly covered – with a surface-mounted luminaire or modules that can be easily clicked into the TECTON and TRINOS trunking systems.



#### RESCLITE PROtect

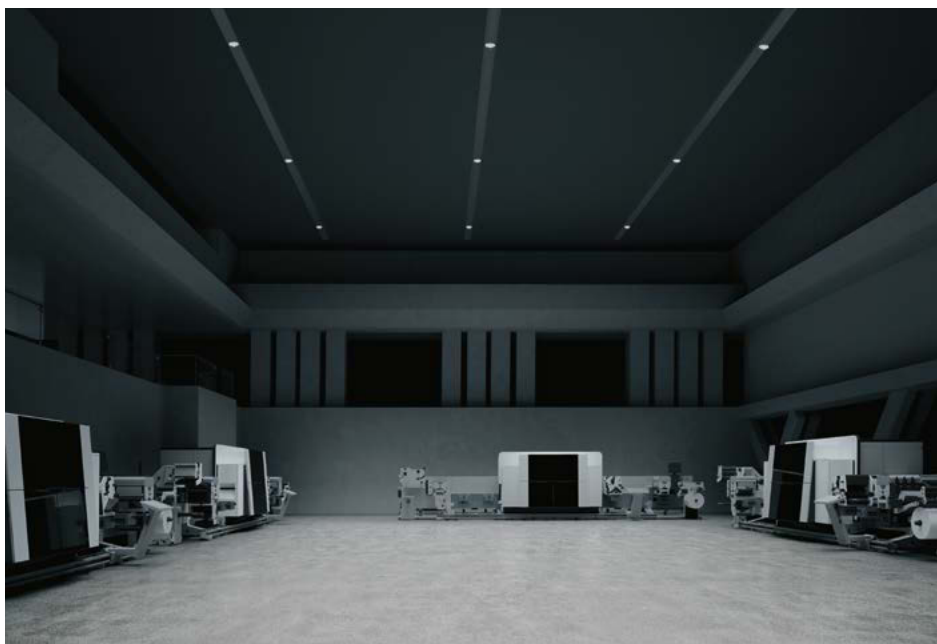
With its battery heating and sturdy materials, RESCLITE PROtect is ideal for outdoor areas and cold storage rooms.





#### **RESCLITE PRO antipanic**

The square light distribution directs light into every corner. This simplifies planning and illuminates rooms perfectly. With the high-performance variants (HP), higher illuminance levels can be achieved or the distances between luminaires can be extended further. Therefore, even large areas are covered by a few light points.

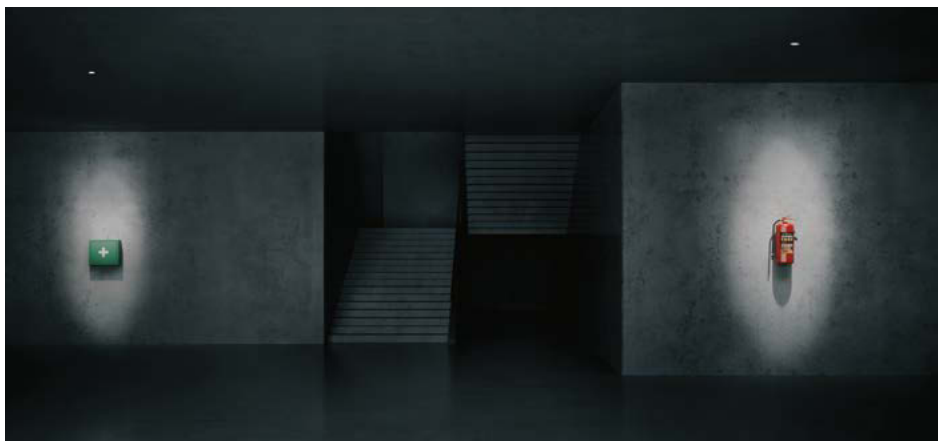


#### **RESCLITE PRO antipanic high ceilings (HC)**

Even from a height of 34 m, RESCLITE PRO manages to illuminate large rooms over a wide area. Thus, industrial halls or shopping centres with the anti-panic light for high rooms are well prepared to offer the greatest possible level of security in the event of power failure.

#### **RESCLITE PRO spot**

A powerful, asymmetrically radiating lens directs the view to the life-saving objects in an emergency, such as a fire extinguisher or defibrillator – from a mounting height of up to 6 m. Thanks to the rotatable light heads, emergency luminaires integrated into TECTON and TRINOS rails can be precisely aligned.







# Escape sign luminaires

Safety for success

Zumtobel is based on extensive expertise in the area of “emergency lighting”. From one source, clearly structured, and providing a perfect solution for any application.

Thus allows to combine general lighting and emergency lighting into one unit which performs both tasks. In this context, great importance was attached to functional integration of the escape sign and emergency luminaires into the architecture.

Escape sign luminaires



ARTSIGN



COMSIGN



PURESIGN



CROSSIGN 110 / 160



ECOSIGN



ERGOSIGN



CUBESIGN



SQUARESIGN

	ARTSIGN	COMSIGN	PURESIGN	CROSSIGN 110/160	ECOSIGN	ERGOSIGN	CUBESIGN	SQUARESIGN
<b>Protection typ</b>								
Protection type 1	IP40	IP42	IP42	IP42	IP65	IP54	IP40	IP54
Protection type 2				IP54				
<b>Recognition range</b>								
Recognition range 1	15 m	30 m	30 m	22 m	32 m	16 m	42 m	60 m
Recognition range 2				32 m				
<b>Colour</b>								
Silver, powder-coated		■	■					
Anodised aluminium	■							
White				■	■	■	■	■
<b>Installation</b>								
Ceiling-recessed	■	■	■					
Surface-mounted on ceiling		■	■	■	■	■	■	
Wall-recessed	■		■					
Surface-mounted on wall 90°		■	■	■	■			
Surface-mounted on wall 180°		■	■	■	■	■		■
ASI cord suspension		■	■	■	■		■	
ESI cord suspension		■	■					
RSI cord suspension		■	■					
Pendant suspension				■	■			
TECTON continuous row			■	■	■			
<b>Escape sign</b>								
Single-sided	■	■	■	■	■	■		■
Double-sided	■	■	■	■	■			
Multi-sided							■	
<b>Lighting inserts</b>								
LED	■	■	■	■	■	■	■	■
<b>ERI spot</b>								
with ERI spot			■	■				
without ERI spot	■	■	■	■	■	■	■	■
<b>Luminaire type</b>								
Escape sign luminaire	■	■	■	■	■	■	■	■
Emergency luminaire			■	■	■			

Each escape sign luminaire is available with separate, group or central battery supply.

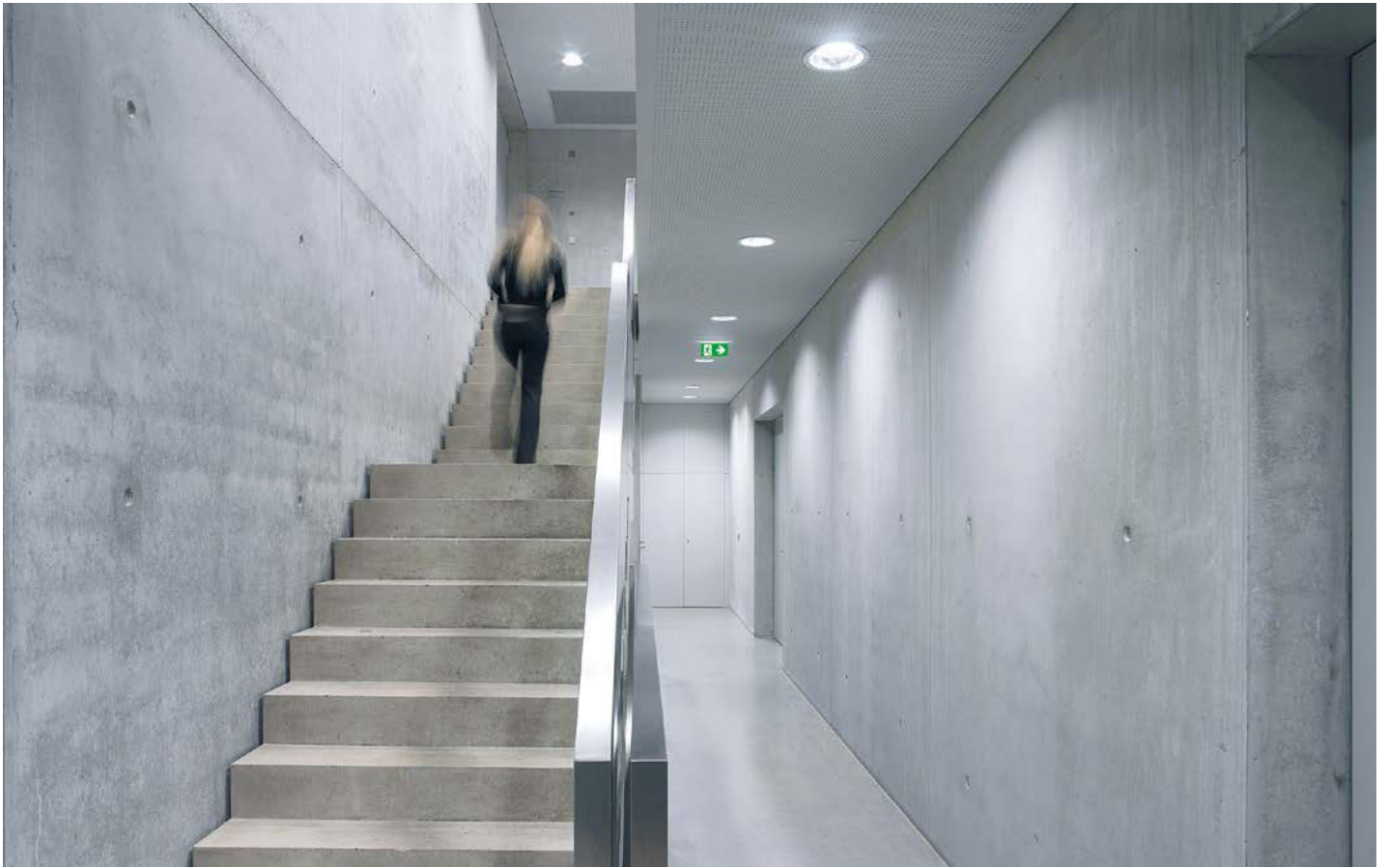


Lens shown in original size

#### ERI spots

Luminaires with ERI spots boast lenses on the underside which can be manually adjusted in 90° increments. The lighting cones can therefore be aligned to the escape route and adjusted locally to the building situation. Irrespective of whether the luminaire is fixed in a corner or above intersecting escape routes, the light beam can be optimised and adjusted with a single flick of the wrist.

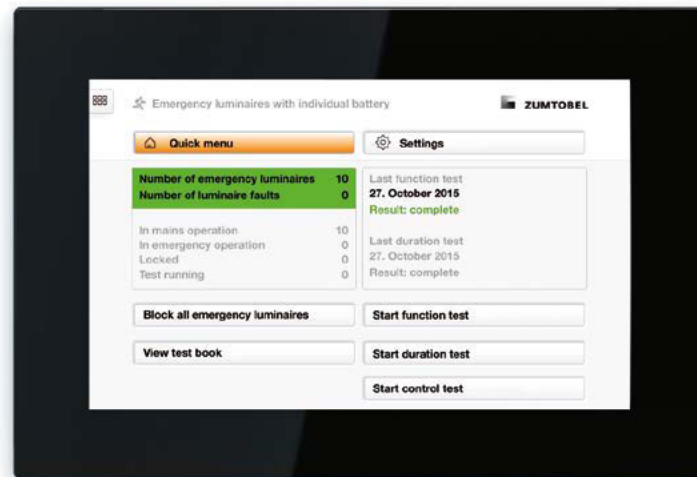




↑ **Gildemeister (DMG), Klaus | AT**

Lighting design: Oskar Leo Kaufmann, Dornbirn | AT

Lighting solution: ONLITE local, ONLITE central, RESCLITE,  
ARTSIGN, PANOS



## ONLITE local

The emergency lighting system with separate battery supply

Emergency lighting systems with separate battery supply have one feature in common – a battery is fitted into every luminaire. In emergency mode, this supplies the lamp with power in order to prevent panic reactions, ensure the workplace is evacuated safely and

show the escape route. Economic efficiency and a high level of safety are both factors in favour of systems with separate battery supply. This system is the ideal solution for small and medium-sized buildings in particular.



↑ **Gildemeister (DMG), Klaus | AT**

Lighting design: Oskar Leo Kaufmann, Dornbirn | AT

Lighting solution: ONLITE central, ONLITE local, RESCLITE,  
ARTSIGN, PANOS





# ONLITE central CPS

Project-specific customised,  
networked central battery system

Every central battery system is designed project-specifically on the basis of a modular system. This produces solutions which are optimised in terms of the cost and functional-

ity of the system. The modular design of ONLITE central CPS guarantees a tailor-made solution for any project and a significantly optimised cost/functionality ratio.







# ONLITE central eBox

## Central emergency power supply system

The ONLITE central eBox works in perfect harmony with Zumtobel LED emergency and escape sign luminaires. Even the use of standard luminaires with mains voltage of 230 V AC or 216 V DC is possible. Thanks to the convenient structure and the modular plug-in technology, the central emergency power supply system can be used very flexibly. Another advantage: convenient handling thanks to straightforward assembly, optional cable entry from above and from below, and a large cable clamp compartment. Initial commissioning via the WIZARD-based menu is also very easy.

Without any additional software, up to 10 000 luminaires or 100 systems are visualised via the web browser interface. Maintenance is made easy because ONLITE central eBox disposes of indicator fields for entering individual designations, and the special hood concept provides for the simple, space-saving opening of the installation. The ideal ventilation conditions of the battery compartment offer protection against overheating.

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*The Light.*



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