ZUMTOBEL

Product Portfolio

2017

Lighting and control systems for professional lighting solutions.

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

Zumtobel Product Portfolio

2017

1957
Presentation of the first ballast with patented wire winding ("random wind-ing"), which becomes the industry's standard.

1950
Dr. Walter Zumtobel founds "Elektrogeräte und Kunstharzpresswerk W. Zumtobel KG" in Dornbirn.

1958
The build-up of the German sales organisation signals the access to foreign markets. Zumtobel KG exhibits its products at the Hanover trade fair.

1952
Manufacture begins of complete luminaires. The first successful range is Profilux, the "thinnest batten luminaire in the world".

1959
The first Zumtobel lighting laboratory is started up. One of the first tasks is the creation of light distribution curves.

1980
Introduction of the world's first luminaire range with indirect-direct distribution for office use.

1967
Debut of LightTrack, the first German track system developed by Staff & Schwarz Leuchtenwerke.

History of the company

The success story of the Zumtobel brand started more than sixty years ago with the founding of "Elektrogeräte- und Kunstharzpresswerk W. Zumtobel" in Dornbirn. A passion for the medium of light and out-standing entrepreneurship have enabled Zumtobel to become a leading global provider of sustainable and integral lighting solutions. Today Zumtobel supplies a wide range of product lines for a variety of profes-sional interior lighting applications.

1988
Debut of the concept
of MELLOW LIGHT, a new
lighting solution generation
for office use.

1991
Launch of the bus-
compatible Luxmate®
lighting management
software.

1993
Take-over of the majority
of shares in the German
lighting company of Staff
founded in 1945. At the end
of 1994, all staff shares
were taken over.

1999
First series production of a
lighting solution incorporating
LED technology, and "Active Light"
for light in variable colours.
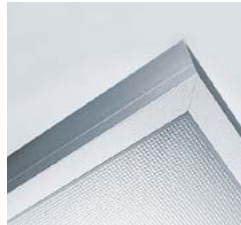
2002
The LIGHT FIELDS range
of luminaires introduces
the micro-pyramidal optic
for glare-free light at the
workplace.

2010
The PANOS infinity LED
downlight range outdates
conventional light sources
in terms of efficiency,
lighting quality and colour
rendering.

2014
Design and function form an
inseparable whole in CRAFT.
Never was a luminaire so
powerful , so compact and
so efficient.

2016
NIGHTSIGHT – the well
thought-out LED outdoor
lighting system for
architectural lighting.

1952 Profilux mounting rail,
      1956 product brochure
1957 LXG ballast,
      developed by Ernst Wiesner
1967 Staff Lite-Trac
      lighting track system
1980 Redesign of the Department of
      Education of the Canton of Berne.
      Lighting design: Peter A. Balla
1988 RCA Mellow Light
      surface-mounted luminaire.
      Design: Karin Pesau
1999 Sir Alexander Fleming Building,
      Imperial College London.
      Architects: Foster and Partners;
      colour design: Per Arnoldi;
      lighting solution/
      lighting management:
      Zumtobel Staff/Luxmate Controls
2002 LIGHT FIELDS detail
2010 PANOS infinity (cross section)
2014 CRAFT LED high-bay luminaire
      (cross section)

ZUMTOBEL

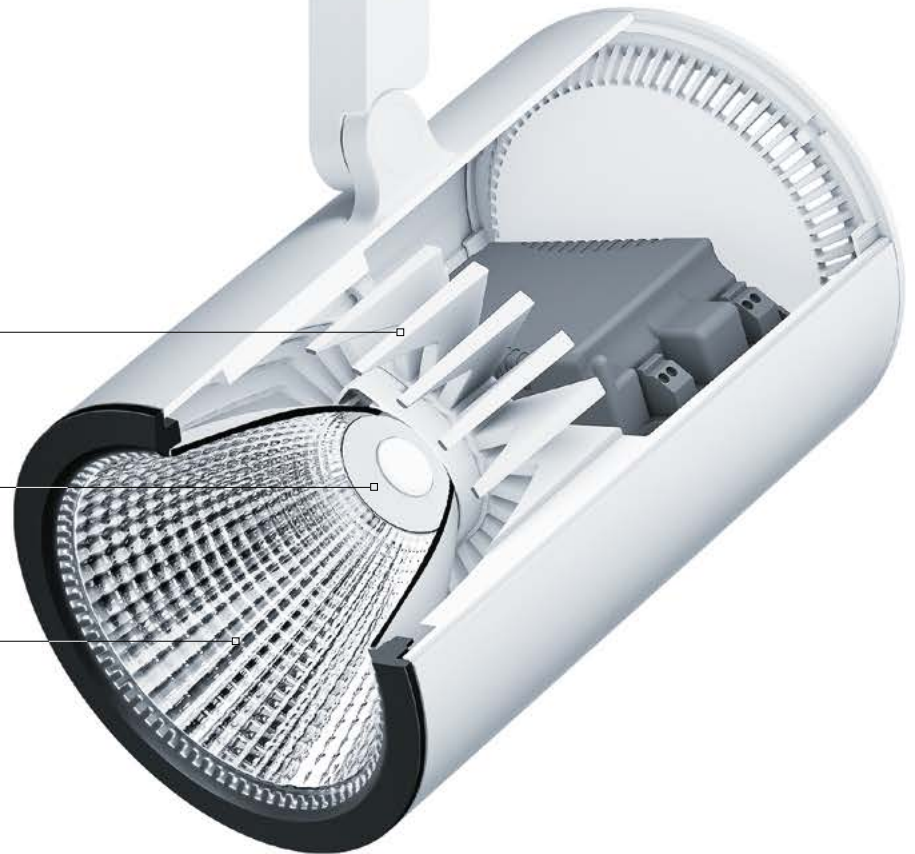*"For more than 60 years it has been our ambition to create the best light for people and environment"*

Zumtobel. The Light.

The Zumtobel brand stand for innovation, unique product and service quality and sophisticated design. Its knowledge about light and a profound understanding of its effects on people has at all times been the bedrock of the Zumtobel brand. Zumtobel brings lighting quality and energy efficiency into harmony and develops customised lighting solutions for measurable added value. Zumtobel addresses customer requirements and user needs in multifarious areas of application – always following its ambition of supplying the best light for people and the environment.

Intelligent thermal management ————————————

High-tech LED modul ——————————

Precision reflector ——————————

ONICO
LED lighting system
Design: LAPD lighting design

Scientific networks
Bartenbach Lichtlabor
Bauhaus-Uni Weimar
DIAL
ENTPE Lyon
EPFL Lausanne
ETH Lausanne
ETH Zurich
FH Detmold
FH Mittelhessen
FH Rosenheim
FH Vorarlberg
Fraunhofer IBP Stuttgart
Fudan University Shanghai
HAW Hamburg
HAWK Hildesheim
Hochschule Liechtenstein
HS Luzern
Human Research Weiz
Kompetenzzentrum Licht
KTH Stockholm
Light & Lighting LabOratory Gent
LRC Troy
NRC Ottawa
Tongji University
TU Berlin
TU Darmstadt
TU Graz
TU Ilmenau
TU Karlsruhe
UCL London

Research and development

Thanks to close cooperation with international experts and scientific institutions, Zumtobel leads the field in lighting research. By implementing the latest results in scientific research, based on its unique practical expertise in applied knowledge and comprehensive technological know-how, Zumtobel is consistently pressing ahead with product innovations. In its constant endeavour to ensure the best light for the customer, Zumtobel is quick off the mark in observing and researching local and global trends for the development of future-oriented lighting solutions.

MICROTOOLS
Modular LED lighting system
2012 iF Design Award GOLD, Design Plus by light+building

Product design

For Zumtobel, intelligent design means equal fulfilment of aesthetic and functional requirements. Numerous awards are evidence of these efforts. The Zumtobel product design team develops its products independently and in close cooperation with internationally renowned designers. The products excel in their maximum efficiency and subtlety of aesthetic design. Our approach to design is based on our profound knowledge of the application and use of light, while bearing in mind the continuous changes taking place in the working and living environment. Only then can light unfold all its effects and powers of expression.

iF
product
design award

2013 GOLD

reddot design award

GOOD
DESIGN

FX

DESIGN PLUS
powered by: light+building

Water and dust laboratory
Headquarters Dornbirn | AT

Quality

Products by Zumtobel fulfil the highest quality requirements, impress customers on account of their long service life and thus set standards in the industry. To secure the continual improvement of product and service quality, Zumtobel has implemented an uncompromising quality management system. This involved certifying all production locations in accordance with international standard ISO 9001. Over and above this, Zumtobel is one of the few companies in this sector that has accredited measuring laboratories at its disposal, ensuring that the development process operates at the highest level.

CONSUMPTION OF ENERGY RESOURCES

RECYCLING 1%

USE 90%

TRANSPORT 1%

PRODUCTION 7%

RAW MATERIALS 1%
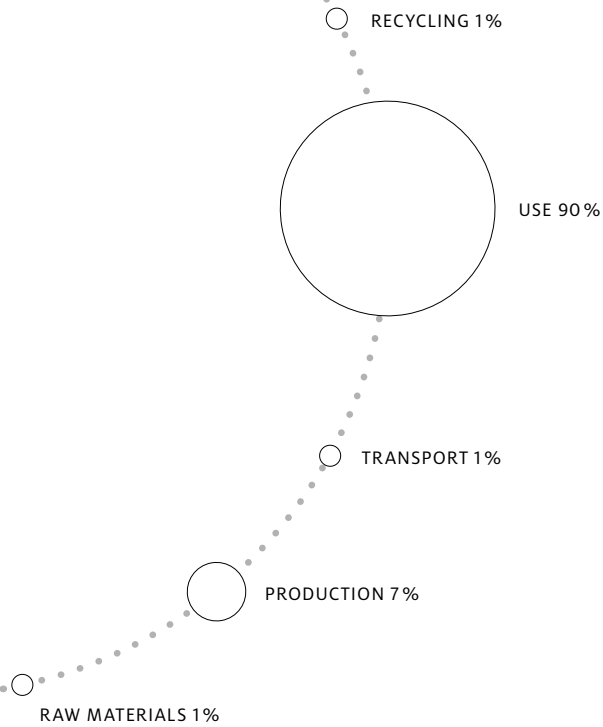
ONLITE PURESIGN
Design by EOOS

100% recycling
Manufactured without heavy metals,
the NiMH battery can be 100%
recycled and the wiring, too, is com-
pletely halogen-free.

Longevity
In order to guarantee constant average
luminance for the LED's entire service
life, PURESIGN features a built-in
maintenance function, which starts
operation at a dimming level of 70%
and gradually increases it to 100%.

Sustainability

Zumtobel is very much aware of its responsibility towards the environment.
Zumtobel issues environmental product declarations (EPD) for all its
products. The environmental impact of a product throughout its entire life
cycle is therefore quickly and simply visualised for the customer. Moreover,
EPD contribute greatly to the environmental certification of buildings.
With the introduction of EPD, Zumtobel has adopted a pioneering role in
supporting transparency and is emphasising its standards in terms of
sustainable use of resources.

zumtobel.com/sustainability

Sustainable product design
Resource-saving production through digital printing and eco-friendly powder coating of the aluminium frame.

Luminaire efficiency
The highly efficient LEDs of the latest generation guarantee outstanding luminaire efficiency including a longer service life and lower maintenance and energy costs.

Dual function
The ERI spotlight (Escape Route Illumination) is an energy-efficient LED spot combined with a patented lens. It provides 40 % of emergency lighting and makes additional emergency luminaires redundant.

Environmental product declaration (EPD)
- Product-specific environmental data sheet
- Based on a life cycle assessment (LCA)
- Complies with relevant European standards
- Program operator: Institute Construction and Environment e. V. (IBU)
- Verified by independent IBU expert committee
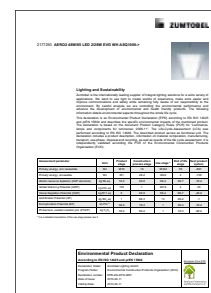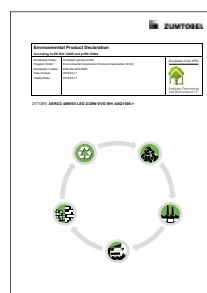
European Core EPD

Institute Construction
and Environment e.V.

Cooper Union, New York | US
LEED® certified, Platinum
Energy consumption reduced by 42 %
CO_2 emissions reduced by 60 000
tonnes over a life cycle of 50 years.

Environmental certification

Environmental certifications for buildings are enjoying great popularity,
resulting in a fast-growing market with large volumes. Environmentally
certified buildings – thanks to the latest construction measures, for
example in air conditioning, light or room design – have been proven to
have a positive effect on employees and thus a company's success*.

* CBRE Richard Ellis and USD University of San Diego, Green Buildings and Productivity (2009)

1

Sustainable products

Life cycle of Zumtobel products

The Zumtobel life cycle assessment is based on the international ISO 14 040/44 standard. By means of this generally accepted and reliable tool, the environmental impact of a product is measured and assessed from production of raw materials through to recycling. The underlying principle: to analyse environmental impact already during generation, and to keep it as low as possible over the product's service life.

2

Efficient lighting solutions

Integral lighting solutions

The perfect combination of luminaire and control system results in a whole package of benefits. In addition to efficient luminaires, Zumtobel therefore provides useful lighting design tools and a variety of services to assist you on your way to a sustainable lighting solution.

3

Detailed documentation

For improved transparency

By supplying each product with an Environmental Product Declaration (EPD), we make a major contribution to helping you obtain successful certification of your building. An EPD is a material and environmental statement based on the ISO 14 025, ISO 14 040/44 and EN 15 804 standards (sustainability of buildings, environmental product declarations, basic rules for the Construction Products category). Each document is checked and verified by the independent Institute Construction and Environment e. V. (IBU). In this way, we provide the prerequisite for comparability of products, for transparency in terms of materials used, and for ongoing product improvement.

zumtobel.com/greenbuilding

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Members of Zumtobel Group

zumtobel group

The Zumtobel Group is a leading global provider of lighting and related services. Our group of specialists deliver the right solution for the lighting needs of all of our customers.

With our internationally established brands Thorn, Tridonic and Zumtobel as well as acdc, Reiss and Zumtobel Group Services we offer a comprehensive range of products and services, combining our expertise in lighting infrastructures with that of leading technology partners to enable data-based services, connected buildings, cities and commerce.

acdc

REISS

THORN

TRIDONIC

zgs zumtobel group services

ZUMTOBEL

Zumtobel Group Services

Your service partner in the lighting industry

Turnkey Services

Tailored lighting solutions from a single provider
COMPLETE enables you to combine any number of Zumtobel Group products and services into a single individual solution. This includes everything from specifications, planning and project management to installation and even maintenance, which is available on request. The only things that count are your specific wishes and requirements. ZGS then develops needs-based complete solutions from a single source – solutions that can be realised immediately anywhere in the world.

Data-based Services

New insights, enhanced customer satisfaction
Digital technologies are changing both the way we live and the way we use light. Our team of experts will help you understand your requirements when it comes to networked lighting, enabling optimal usage of existing infrastructure or complete buildings by incorporating features such as remote monitoring and room management. The Internet of Things is creating genuine added value that has spawned a range of new services and business models. Our integrated approach makes us a popular partner for leading technology companies, paving the way for a series of ground-breaking project initiatives in the field of connected buildings and cities.

Emergency Lighting Systems

Leading you to safety
Functional emergency lighting is much more than just a legal requirement. The quality of the luminaires and the power supply system reflect the responsibilities of the operator towards the building, the people and the environment. Our complete range of services includes safety luminaires, escape sign luminaires, self-contained and central battery systems and maintenance agreements.

Finance Services

Lights that pays for itself
NOW provides you with the very best light for your company – while you pay nothing but the running costs. You do not even need to worry about the installation of the luminaires or the commissioning and maintenance of the system. This is all taken care of by our experts, as you would expect when you choose a complete and cost-effective solution – a solution that harnesses the most efficient lighting on the market to minimise both energy consumption and operating costs.

Connectivity Systems

Intelligent systems put you in control
Our services cover everything from advice, commissioning and maintenance of lighting management systems right through to the intelligent use of existing infrastructure for new data-based services. The size and scale of our hardware and software solutions are completely flexible. We utilise simple and intuitive interfaces to enable versatile lighting controls at the push of a button, while at the same time helping cities to introduce sophisticated and efficient management of their lighting infrastructures.

Technical & Maintenance Services

Lifecycle management for your lighting
The technical services from ZGS start with professional commissioning of lighting systems and continue with maintenance, routine testing and regular optimisation. We offer you worldwide assistance - either on site or using remote analysis. Our expert support improves the quality of light, maximises energy efficiency and guarantees outstanding reliability. We can also call on years of experience to help train the personnel who work with the solution on a daily basis. In line with a commitment to tailor our services to suit your individual requirements, product guarantees can also be extended.

zgservices.com

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 multifarious application areas, in a harmonious combination of lighting quality and efficiency based on state-of-the-art technology.

Tracks and spots

← **Museo delle Culture (MUDEC), Milan | IT**
Architecture: David Chipperfield Architects, Milan | IT
Lighting design: Manens Intertecnica /
Ove Arup & Partners, Milan | IT
Lighting solution: ARCOS, ONLITE RESCLITE,
ONLITE PURESIGN, LUXMATE LITENET

↑ **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, ONLITE RESCLITE, ONLITE 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 sophisticated lighting technology,

ARCOS LED is able to set the most varied objects perfectly centre stage. The luminaire also takes conservational requirements into account, for its UV- and IR-free light is extremely gentle on 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

reddot award 2014
winner

ARCOS
A complete range for the perfect lighting of exhibits

ARCOS 2 LED xpert
stableWhite

ARCOS 2 LED xpert
Projection spotlight

ARCOS 2 LED xpert
with wallwasher attachment

ARCOS 3 LED xpert
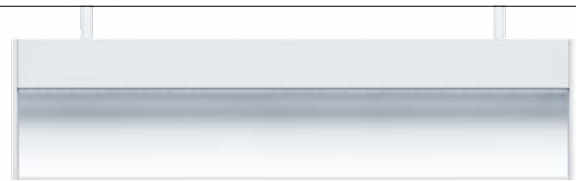stableWhite

ARCOS 3 LED
tunableWhite

ARCOS 3 LED
Projection spotlight

ARCOS 3 LED xpert liteCarve®
Wallwasher

ARCOS WW LED
Linear wallwasher 15 W

ARCOS WW LED
Linear wallwasher 30 W

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

↑ **Vodafone Village, Milan | IT**
Architecture and lighting design: Dante O. Benini & Partner s Architects, Milan I 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, ONLITE RESCLITE, ONLITE 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

DESIGN PLUS
powered by: light+building

German Design Award
WINNER 2013

iF product design award
2012

reddot design award
winner 2012

IYON LED
Spots

IYON S LED
Essential+, Essential

IYON M LED
TGRfashion, Essential+, Essential

	IYON S LED	IYON M LED
Distribution characteristics		
Spot	■	■
Flood	■	■
Wideflood		■
Colour		
White matt	■	■
Black matt	■	■
Installation		
3-phase track	■	■
L3 + DALI track	■	■
Luminaire diameter		
Ø 100 mm	■	
Ø 120 mm		■
TGRfashion		
36 W (3000 K, Ra › 90) 2400 lm		■
Essential+ stableWhite		
24 W (3000 K, 4000 K, Ra 90) 2100–2300 lm	■	
36 W (3000 K, 4000 K, Ra 90) 3100–3300 lm		■
Essential stableWhite		
24 W (3000 K, 4000 K, Ra › 80) 2700–2800 lm	■	
36 W (3000 K, 4000 K, Ra › 80) 4000–4100 lm		■
Accessories		
Anti-glare ring	■	■
Oval outline lens 50°	■	■
Honeycomb mesh	■	■
Interchangeable Spot reflector	■	■
Interchangeable Flood reflector	■	■
Interchangeable Wideflood reflector		■

↑ **MAK Design Labor, Vienna | AT**
Architecture: Exhibition design EOOS, Vienna | AT
Lighting solution: DISCUS, ONLITE central, RESCLITE CROSSIGN

	DISCUS evolution LED	DISCUS evolution LED E1
Distribution characteristics		
Spot	■	■
Flood	■	■
Wideflood	■	■
Colour		
White	■	■
Black	■	
Installation		
3-phase track	■	
L3 + DALI track	■	
Recessed depth		
to 100 mm		■
Luminaire diameter		
Ø 146 mm	■	■
LED		
32 W 1950 lm (3000 K / Ra 92)	■	■
32 W 2100 lm (3000 K / Ra 82)	■	■
32 W 2300 lm (4000 K / Ra 82)	■	■
Accessories		
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-generation 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

↑ **Spar Flagshipstore, Budapest | HU**
Architecture: LAB5 Architects, Budapest | HU
Lighting solution: VIVO LED, CARDAN LED, TECTON LED, ONDARIA

↓ **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 35 W to 50 W metal halide lamps.

VIVO-P L LED
Alternative cylindrical design version.

VIVO-SL LED
Semi-recessed directional spotlight for suspended ceilings.

	VIVO XS LED	VIVO M LED	VIVO L LED	VIVO-P L LED	VIVO-SL LED
Distribution characteristics					
Spot	■	■	■		■
Flood	■	■	■		■
Wideflood		■	■	■	■
Colour					
White	■	■	■	■	■
Black	■	■			
Silver	■	■	■	■	
Ceiling cutout					
150 mm round					■
150 mm square					■
Installation					
Recessed/semi-recessed					■
3-phase track	■	■	■	■	
L3+DALI track	■	■	■		
TECTON continuous-row lighting system		■	■	■	
Recessed depth					
min. 100 mm					■
LED					
36 W TGRfashion		■			■
36 W TGRfood				■	
36–44 W Tunable Colour			■		
24 W Essential stableWhite (2700–2800 lm)		■			■
36 W Essential stableWhite (4000–4100 lm)		■			
60 W Essential stableWhite			■		
20 W Essential+ stableWhite (1300–1400 lm)	■				
24 W Essential+ stableWhite (2100–2300 lm)		■			■
36 W Essential+ stableWhite (3100–3300 lm)		■			
Accessories					
Interchangeable reflector	■	■	■	■	■
Blocking filter				■	
Meat and cold meat (M+CM))				■	
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 integrat-
ed 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 surround-
ings. 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*

zumtobel.com/onico

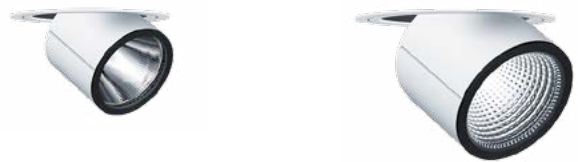**ONICO**
Uniform variety

LED spotlight

ONICO M
Compact, passively cooled LED spot-
light with integrated converter: Excel-
lent efficiency, glare suppression and
colour rendering distinguish ONICO M
as the perfect alternative to conven-
tional lighting systems with 20 W
metal halide lamps.

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 lumi-
naire with integrated converter:
Straight, discreetly bright alternative to
lighting systems with 35 W to 50 W
metal halide lamps.

ONICO M spotlight
with alignment tool

	ONICO M	ONICO L	ONICO-S M	ONICO-S L	ONICO M pendant	ONICO L pendant
Distribution characteristics						
Spot 13°/11°	■	■	■	■	■	■
Flood 25°	■	■	■	■	■	■
Wideflood 39°/40°	■	■	■	■	■	■
Colour						
White matt	■	■	■	■	■	■
Black matt	■	■	■	■	■	■
Installation						
L3+DALI track	■	■				
TECTON trunking	■	■				
Ceiling mount			■	■		
Pendant installation					■	■
Ceiling section						
Ø 150 mm			■			
Ø 190 mm				■		
Luminaire diameter						
Ø 95 mm	■		■		■	
Ø 132 mm		■		■		■
LED						
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		■		■		■
Accessories						
Reflector	■	■	■	■	■	■
Alignment tool	■		■			

↑ **Interspar Vienna Hauptbahnhof | AT**
  Architecture: Atelier Architekt Dipl. Ing. Bernhard Bügelmayer 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
Distribution characteristics		
▪ Spot	▪	▪
▪ Flood	▪	▪
▪ Wideflood	▪	▪
Colour		
White matt	▪	▪
Black matt	▪	▪
Installation		
3-phase track	▪	▪
Essential stableWhite		
27 W (3000 K, 4000 K, Ra > 80)	▪	▪
36 W (3000 K, 4000 K, Ra > 80)	▪	▪
TGRfood *		
36 W (baked goods)	▪	
36 W (cold meat)	▪	

* TrueGamutRendering

↑ **Hotz bakery/pastry shop, Dübendorf | CH**
Lighting solution: CARDAN LED

↓ **Audi Zentrum Aachen, Geilenkirchen branch | DE**
Lighting solution: CARDAN, PANOS infinity, LIGHT FIELDS

CARDAN LED

The lighting power pack

Fitted with the latest LED modules, the high-performance (2200–5000 lm) and highly efficient (up to 117 lm/W) CARDAN LED luminaire range. Intelligently differentiated performance packages (24–60 W) allow precise adjustment to a wide variety of requirements. The unobtrusive mounting frame in a contemporary design is made of high-quality die-cast aluminium and stable sheet steel, holding an LED lighting head including a passive high-performance heat sink and swivelling continuously through up to ± 30°. No fixing wheel is required due to the self-decelerating design. The springs can be easily operated and allow for quick no-tool installation.

zumtobel.com/cardan

Individual luminaires instead of light lines
Even lighting does not require a continuous light source. Thanks to KATALYST, individual luminaries arranged 3.5 metres apart are sufficient to homogeneously light up shelves with directed light and maximum brilliance.
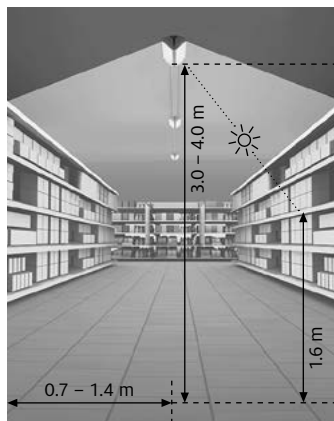
Flexible height and width
KATALYST performs precision work because there is a perfect solution for all common mounting heights and aisle widths. The highest illuminance is at eye-level, which is usually 1.6 metres.

Combine with spotlights
Mounted in three phases or on TECTON tracks, KATALYST general lighting can be extended at any time with spotlights positioned as desired. The result is an attractive combination of brilliant general light and selective accents.

KATALYST

Spotlight for vertical surfaces

By lighting up shelves with even, vertical light, merchandise receives all the attention that each individual product deserves. KATALYST combines top homogeneity with unique brilliance – as only directed light can provide. The alternative to the light line is therefore established.

Shopping in a brilliant lighting atmosphere
Supermarket lighting is based on a diverse range of tasks, which the KATALYST handles perfectly. The individually selectable and adjustable components open up different ways to set the scene for your product – enhanced by combination options with spot-lights. Since the highest illuminance is at eye level, the customer's attention instinctively goes in the desired direction. The hidden, highly-efficient LED provides bright light and excellent glare control, whereby the spotlight offers many advantages for vertical surfaces compared to traditional light lines.

zumtobel.com/katalyst

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
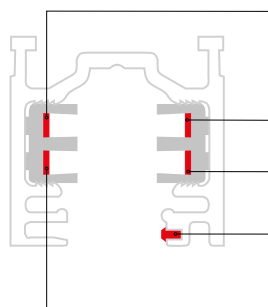
DALI tracks can also be bent.
Spotlights with *track box adapter*, e.g. VIVO models, cannot be installed in curved tracks.
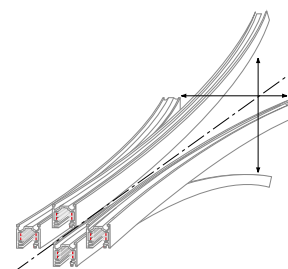
Possible bending directions with manufacturing tolerances are patterned on DIN ISO 2768

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
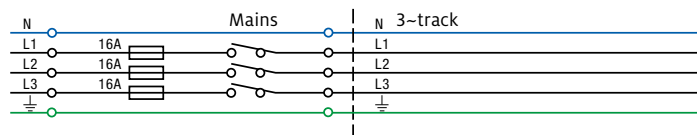
Cable 2 can be used as phase or DALI control line
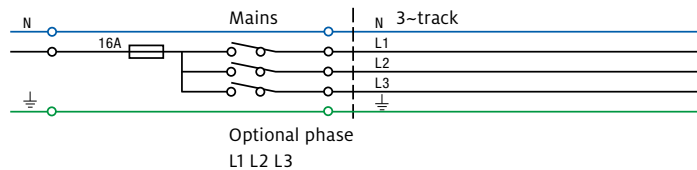
Cable 3 used as phase
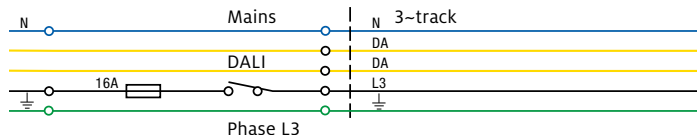
Earth

Neutral conductor

Electrical power connection

3-phase AC 400 V

N · Mains · N 3~track
L1 · 16A · L1
L2 · 16A · L2
L3 · 16A · L3

Single phase AC 230 V

N · Mains · N 3~track
16A · L1
· L2
· L3

Optional phase
L1 L2 L3

L3 + DALI 230 V

N · Mains · N 3~track
DALI · DA
· DA
16A · L3

Phase L3

	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	▪	

zumtobel.com/tracks

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, ONLITE RESCLITE,
ONLITE CROSSIGN, LUXMATE LITENET

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

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

SUPERSYSTEM II

High-quality, miniaturised lighting system for expert solutions
to tricky lighting problems

The second generation multi-functional SUPERSYSTEM II lighting tool continues the success story: sophisticated design, elegant materiality, and stringent miniaturisation brought together in a flexible system using efficient LED technology. The slim, extruded rail profile, combined with a wide choice of easy to install lighting inserts, covers all demanding lighting tasks and maximises light quality. SUPERSYSTEM II 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 II offers a solid base of uniform styling for a coordinated lighting solution in any space.

SUPERSYSTEM II
Accent lighting made to measure

SUPERSYSTEM II LED mini wallwasher   SUPERSYSTEM II LED mini spotlight
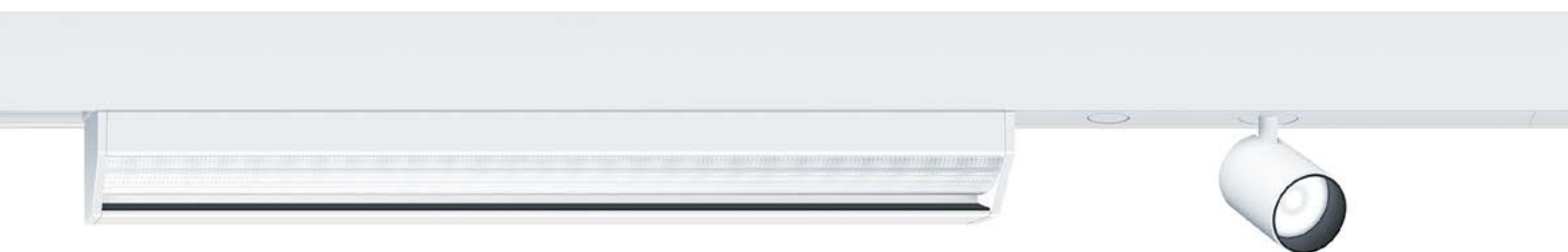
LEDs offer great opportunities to consistently miniaturise luminaires. SUPER-
SYSTEM II opens up this potential even further by concealing the driver units into
the extruded rail or behind the suspended ceiling. The minimalist LED spotlight can
now fully show off its elegance. This is particularly true when combined with the
sleek rail profile, the dimensions of which have also been reduced to a minimum.
The result is an LED lighting tool which is distinguished by absolute design simplic-
ity combined with high impact lighting quality. The variety of lighting inserts with
multiple task-specific lighting characteristics help solve any lighting problem.

SUPERSYSTEM II LED midi spotlight   SUPERSYSTEM II LED maxi spotlight   SUPERSYSTEM II LED midi framing spotlight

LED downlight and built-in spotlight

In addition to the bene ts of a track spotlight – from the exible orientation to the high lighting quality, to the application-speci c illuminance – the built-in spotlight also scores points for its reduced ceiling appearance. Depending on the di erent 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 II LED built-in spotlight midi
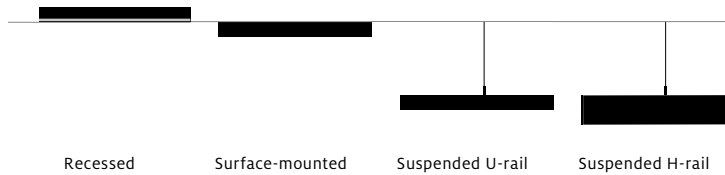downlight position   partly tilted out   completely tilted out

SUPERSYSTEM II
Overview

U-profile: H 30 mm x B 26 mm
H-profile: H 60 mm x B 26 mm
Lengths 1000 mm, 2000 mm and 4000 mm

Track modules	Recessed	Surface-mounted	Suspended U-rail	Suspended H-rail
LV track	■	■	■	■
Recessed profile set	■			
Angle connector 90° (mechanical)	■	■	■	■
Angle connector 90° (electrical)	■	■	■	■
Connector (mechanical)	■	■	■	■
Connector (electrical)	■	■	■	■
Mounting rail cover plates	■	■	■	■
Set of end plates	■	■	■	■
Cord suspension / pendant tube suspension			■	■
Electrical power feed DC/DC	■	■	■	■
Electrical power feed AC/DC		■	■	■
Recessed device	■	■	■	■
Ceiling rose			■	■

Distribution characteristics
- Extremely narrow-beam
- Narrow-beam
- Wide-beam
- Very wide-angle
- Oval-beam
- Contours (round/rectangular)
- Wallwasher
- Direct
- Indirect/direct

LED
1 x 2 W, 1 x 4 W
3 x 2 W, 3 x 4 W
1 x 6,5 W, 2 x 7 W
1 x 13 W, 1 x 22 W
1 x 9 W (framing spotlight)
1 x 18 W (framing spotlight)
1 x 8 W (wallwasher mini)
1 x 10 W (wallwasher midi)
1 x 8 W (LEDray S)
1 x 9 W (LEDline S)
1 x 9 W (LEDline H)
1 x 3 W, 1 x 5 W
1 x 7 W
1 x 12 W

Colour temperature
4000 K (Ra 80, Ra 90)
3000 K (Ra 80, Ra 90)
2700 K (Ra 80, Ra 90)

Accessoires
Light direction foils
Ring louvre
Anti-glare tube

SUPERSYSTEM II mini Ø 26 mm	SUPERSYSTEM II midi Ø 45 mm	SUPERSYSTEM II maxi Ø 65 mm	SUPERSYSTEM II wallwasher	SUPERSYSTEM II LEDray	SUPERSYSTEM II LEDline	SUPERSYSTEM II built-in spotlight mini Ø 26 mm	SUPERSYSTEM II built-in spotlight midi Ø 45 mm	SUPERSYSTEM II built-in spotlight maxi Ø 65 mm
■	■	■				■	■	■
■	■	■				■	■	■
■	■	■				■	■	■
■	■	■				■	■	■
■	■	■				■	■	■
	■	■						
			■					
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							■	
								■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■				■	■	■
■	■	■				■	■	■
■	■	■				■	■	■
■	■	■				■	■	■

↑ **Maison Ullens flagship store, Paris | FR**
Architecture: OMA, Rotterdam | NL
Lighting solution: SUPERSYSTEM, VIVO XS, CARDAN LED,
MICROTOOLS, PANOS infinity

↓ **Cathedral Treasury Aachen | DE**
Architecture: Plan Ing, DI Ralf Wolters, Aachen | DE
Lighting design: Labor für Lichtmesstechnik: PhotoMetrik GmbH, Darmstadt | DE
Lighting solution: SUPERSYSTEM, STARFLEX, ARCOS, PANOS infinity,
ONLITE RESCLITE, ONLITE ARTSIGN

SUPERSYSTEM

Modular LED lighting system

Thanks to its extremely pared-down and timeless design, SUPERSYSTEM unobtrusively enhances architectural structures and interior design, always presenting a high-quality impression. Thanks to a number of extensions and consistent implementation of cutting-edge LED technology, SUPERSYSTEM is now able to fulfil complex lighting tasks even more efficiently. Warm white colour temperatures are ideal for creating pleasant, relaxing lighting scenes. Zumtobel now meets the demand with a colour temperature of 2700 K. In addition, the successful mini-downlight is now also available in an extra-slim version: the fixed

lighting head is installed flush with the ceiling and is recommended wherever maximum unobtrusiveness is required.
In order to allow more freedom of design, an additional section type was introduced: the Height-Extended section. In comparison with the existing H section, it allows more space for cabling and thus facilitates addressing of several different phases. The extended SUPERSYSTEM product range allows for more facets to general lighting as well. Thanks to consistent further development of lighting technology, seamless LED light lines with direct and indirect light distribution can now

also be implemented using SUPERSYSTEM. If the lighting task requires a particularly high extent of glare control, a narrow light line with sophisticated lens technology is now available for insertion into the SUPERSYSTEM sections. A linear LED wallwasher has also been added to the portfolio for the "Museum, Art and Culture" application area, which is able to illuminate vertical surfaces in an especially uniform manner thanks to a unique reflector/lens combination.

Design: Supersymetrics

zumtobel.com/supersystem

SUPERSYSTEM
System versatility

Recessed LED modules

LED spotlight,
spot with antiglare tube

LED lighting insert,
direct and indirect light distribution

LED wallwasher

Emergency lighting module

LED spotlight module

Pendant luminaire fitted with LED lighting insert (direct)

	H section 3-Ph/L3 + DALI	S section 3-Ph/L3 + DALI	H section	S section	E section	HE section
Track modules						
Standard section	■	■	■	■		■
Extension section	■	■				
End section	■	■				
Recessed section kit					■	
Angle connector 90°	■	■	■	■		■
T connector	■	■	■	■		■
Cross connector 90°	■	■	■	■		■
Connector (mechanical)			■	■	■	■
Connector (electrical)	■	■				
Track end panel	■	■				
Trunking end panel			■	■		■
Front plate kit					■	
TECTON cord suspension					■	
SYSTEM LED DECOLINE BASIC installation kit	■		■			

	LED lighting units	3-phase spotlight unit	Wallwasher	Pendant luminaire unit	Emergency lighting unit
Distribution characteristics					
Narrow-beam	■	■		■	
Wide-beam	■	■		■	
Indirect/direct	■			■	
Direct	■				
Wallwasher	■		■		
Swivelling	■	■		■	
LED					
1 x 2.5 W, 1 x 4 W LED	■				
2 x 2.5 W, 2 x 4 W LED	■				
3 x 2.5 W, 3 x 4 W LED	■	■			
6 x 2.5 W LED + LED (direct)				■	
1 x 8.0 W LED			■		
Other inserts					
PMMA diffuser optic	■				
… all 3-phase and DALI spotlights		■			
Resclite					
1 x 2.4 W Power LED					■
Colour temperature					
4000 K (intermediate white, Ra 80)	■	■		■	
3000 K (warm white, Ra 80 / Ra 90)	■	■		■	
Accessories					
Interchangeable lens 36°	■	■		■	
Interchangeable lens 40° x 10°	■	■		■	
Anti-glare tube	■	■		■	

↑ **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, ONLITE PURESIGN, ONLITE RESCLITE,
LITECOM, THORN Aquaforce II

INTRO liteCarve® | 53 W

LED

Light exit area

Freeform reflector

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°.
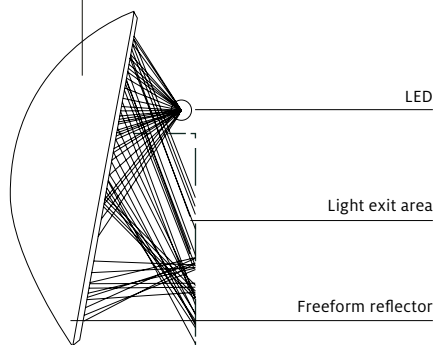
INTRO liteCarve®
installed on track

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 con-sistent 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
Distribution characteristics					
Spot	■				
Flood	■		■		
Wideflood	■			■	■
Swivelling	■	■			
Vertical flood		■			
Colour					
White	■	■	■	■	■
Black	■	■	■	■	■
Luminaire modules					
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 *	■				
LED					
TGRfashion	■	■			
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	■	■		■	■
Accessories					
Front ring **	■	■			
Replaceable reflectors	■				
Blanking cover	■	■	■	■	■
Offset frame	■	■	■	■	■
Cover		■			
Cover ring	■				

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

Front ring,
black

Front ring,
white

Front ring,
chrome

Front ring,
matt silver

Front ring,
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: emerg. lighting NDA, emergency lighting NSI,
emergency lighting NT1 und NT3

INTRO PANOS infinity
Downlight, module width: 100 mm, frameless
Reflector finishes: highly specular, matt silver,
matt gold, white

INTRO PANOS infinity
Downlight, module width: 150 mm, frameless
Reflector finishes: highly specular with facets,
highly specular, matt silver, white

↑ **Colonys, Zurich | CH**
  Interior design: Retailpartners AG, Wetzikon | CH
  Lighting solution: MICROTOOLS

↓ **Heimatmuseum Schloss Ritzen, Saalfelden | AT**
  Lighting design: TB Ing. Klaus Linzmaier, Saalfelden | AT
 Lighting solution: MICROTOOLS, SUPERSYSTEM, IYON, DISCUS LED

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
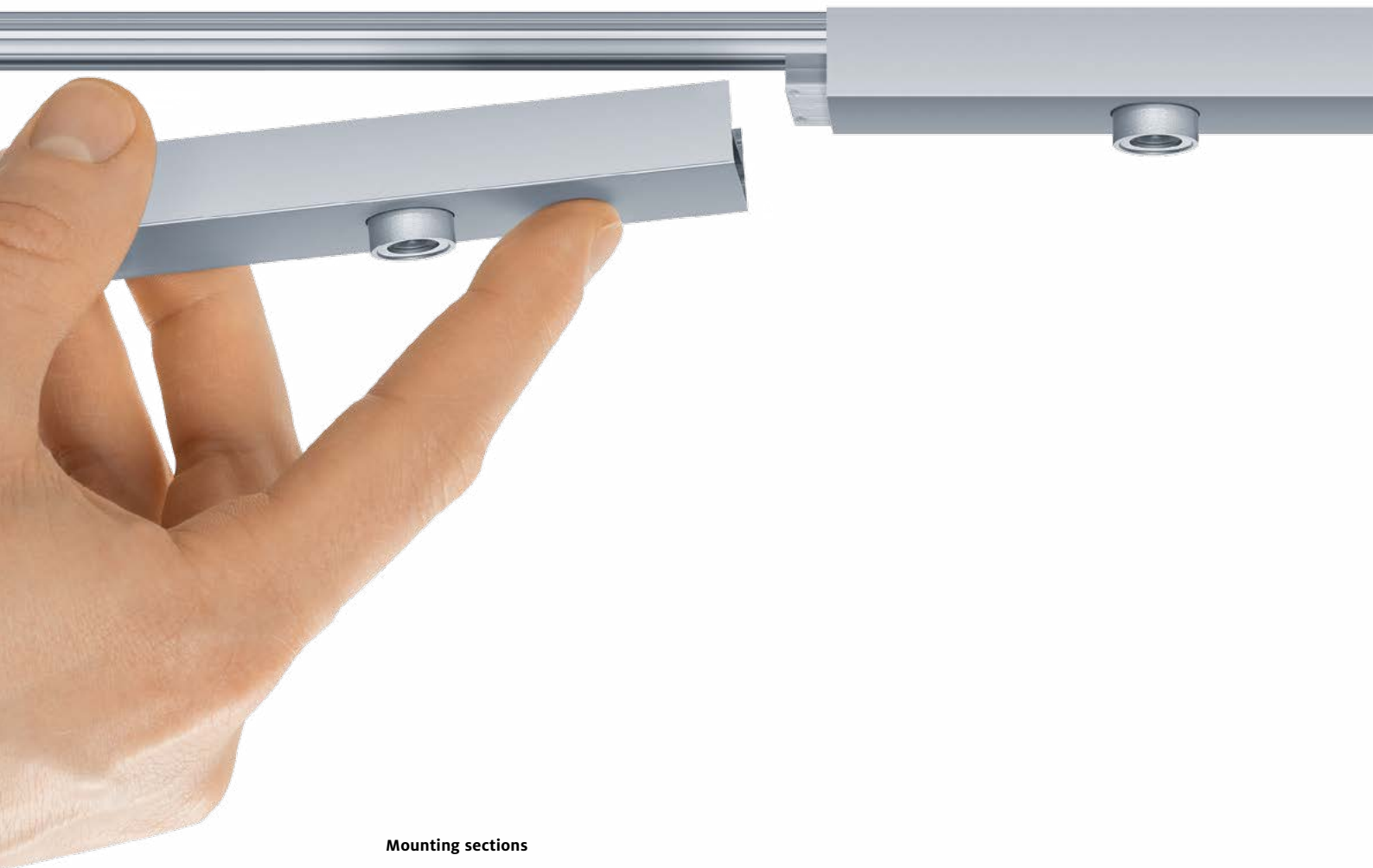
Mounting sections

MICROTOOLS mounting section (1000 / 2000 mm)

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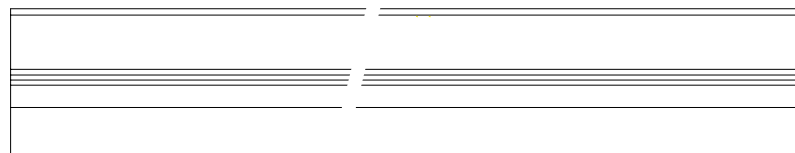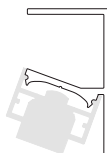
MICROTOOLS mounting section (1000 / 2000 mm), 20° angle with cover

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
Distribution characteristics				
Spot			■	
Flood		■	■	
Wideflood		■		
Colour				
Silver-anodised	■	■	■	■
Mounting sections				
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)				■
Lighting module Advanced				
1/1.1 W (3000 K, Ra > 90)			■	
2/1.1 W (3000 K, Ra > 90)		■	■	
3/1.1 W (3000 K, Ra > 90)		■		
Lighting module Essential				
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)		■		
Accessory				
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

← **Leica Camera AG, Leitz-Park, Wetzlar | DE**
Architecture: Gruber Kleine-Kraneburg Architects,
Frankfurt am Main | DE
Lighting solution: PANOS infinity, CLARIS II, LINARIA,
ONLITE ARTSIGN

↑ **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
Distribution characteristics		
◢ Narrow-beam	■	■
◢ Wide-angle	■	■
◢ Very wide-angle	■	■
Colour		
Titanium	■	■
White	■	■
Installation		
Recessed	■	■
Mounting depth		
122 mm	■	■
LED		
1000 lm (2700 K, 3000 K, 4000 K / Ra > 90)	■	■
1500 lm (2700 K, 3000 K, 4000 K / Ra > 90)	■	■
Accessories		
Installation kit (for thin ceiling)	■	■
Concrete casting surround	■	■

2LIGHT MINI LED

Downlights with unique lighting characteristics

The complete range of 2LIGHT MINI down-lights 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 Ra > 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

↑ **Leica Camera AG, Leitz-Park, Wetzlar | DE**
Architecture: Gruber Kleine-Kraneburg Architects, Frankfurt am Main | DE
Lighting solution: PANOS infinity, CLARIS II, LINARIA, ONLITE 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 120 lm/W, PANOS infinity and PANOS evolution have again set new standards on the market. This is achieved through the use of innovative LED multichannel technologies and other high-grade components that are combined within the optical luminaire system.

Powerful lumen packages

With a luminaire luminous flux of 800, 1000, 1800, 2400, 5000 up to 7400 lumens, both the PANOS infinity product range and the PANOS evolution product range cover all typical downlight applications. Thus the two ranges are recommended as economically efficient alternatives in all application areas where single- or twin-lamp downlights fitted with 18 W, 26 W or 32 W compact fluorescent lamps used to be installed.

Dimming or switching

The standard version of PANOS infinity is dimmable via DALI, which opens up great potential for further energy savings: Intelligently controlled lighting solutions reduce power consumption by 70 per cent. PANOS evolution offers a switchable 230 V converter as standard, but is optionally also available with DALI control gear.

Design: Chris Redfern, Sottsass Associati

PANOS infinity and PANOS evolution
Range of products for all functional lighting applications

Downlights

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

PANOS infinity Wallwasher R150
Highly specular aluminium reflector,
with frame

PANOS infinity Wallwasher R200
Highly specular aluminium reflector,
with frame

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

↑ **Brose Kompetenzzentrum, Bamberg | DE**
 Architecture: BM+P Architekten Hesse Haselhoff GmbH, Dusseldorf | DE
 Lighting design: Tropp Lighting Design GmbH, Weilheim | DE
 Lighting solution: PANOS infinity, SLOTLIGHT, ONLITE central eBox,
 ONLITE RESCLITE, ONLITE COMSIGN

↓ **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
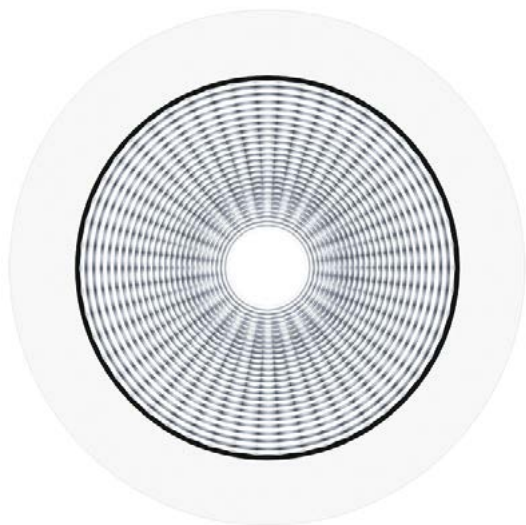
PANOS infinity and PANOS evolution

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 bril-
liance – 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, con-
ference 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

zumtobel.com/panosinfinity

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
Highly specular aluminium reflector,
with frame

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

PANOS infinity: 2700 K, 3000 K, 4000 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[1]	Highly specular	Silver matt	Gold	White	Black
Facetted[1]	Highly specular	Silver matt	Gold	White	Black

[1] Only available for Q68 Spot, R68 Spot models.

↑ **Swiss Ornithological Institute, Sempach | CH**
Architecture: W.+R. Leuenberger Architekten, Sursee | CH
Lighting solution partner: Illi AG, Willisau | CH
Lighting solution: CREDOS

↓ **Hartung GmbH & Co. KG, Neumünster | DE**
Lighting solution: CREDOS, MELLOW LIGHT IV, ONDARIA, PANOS infinity, ELEEA, LUXMATE DIMLITE

CREDOS

Compact, simple, economically efficient

This compact LED downlight combines efficiency and functionality with an attractive appearance. By using latest-generation LEDs, CREDOS achieves the same levels of performance as downlights fitted with compact fluorescent lamps up to 2/32 W – but uses minimal energy. With dimmable lumen packages of 1000, 2000 and 2600 lumens, CREDOS provides pleasant and uniform general lighting in public buildings, offices, hotels and wellness areas, as well as in shops and department stores. In closed ceilings, the downlight offers IP44 protection and can therefore be used in areas where there are requirements for extra protection. Another plus point: CREDOS has a service life of 50000 hours with a decline in luminous flux of no more than 20 % and is therefore also specially recommended for areas where there are very extended operating hours. This durability is based on an innovative aluminium housing with a design that combines passive thermal management with compact dimensions.

↑ **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.

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MICROS LED
Downlights

MICROS-C D68 LED

MICROS-C D95 LED

MICROS-S D105 LED
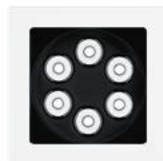
MICROS Q80 LED

	MICROS-C LED D68 LED	MICROS-C D95 LED	MICROS-S D105 LED	MICROS Q80 LED
Distribution characteristics				
Narrow-beam	▪	▪	▪	▪
Wide-angle	▪	▪	▪	▪
Swivelling	▪	▪	▪	
Trim				
Brushed aluminium	▪	▪		▪
Painted white	▪	▪	▪	▪
Recess diameter				
Ø 68 mm	▪			
Ø 95 mm		▪		
Ø 105 mm			▪	
□ 80 mm				▪
Mounting depths				
50 mm	▪			
75 mm		▪		▪
100 mm			▪	
LED				
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)			▪	▪
Accessories				
LED power pack	▪	▪	▪	▪
Concrete casting surround	▪	▪		▪

↑ 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 LED spotlight
Distribution characteristics		
◪ Flood	■	■
◩ Wideflood	■	
◪ Very wideflood	■	
◪ Wallwasher	■	
Diameter		
Ø 68 mm	■	
Mounting depth		
98 mm	■	
LED		
21/15 W LED (2700 K / Ra 80)	■	■
21/15 W LED (4000 K / Ra 80)	■	■
21/15 W LED (3000 K / Ra 90)	■	■
Accessories		
Cover for IP44	■	
Ceiling reinforcing ring	■	
Concrete casting surround	■	
Stray light cover	■	
LED power unit	■	

DIAMO

LED downlight and spotlight

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 and spotlights: 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, and as a spotlight. DIAMO is available in intermediate or warm light colours as well as switchable and dimmable models.

Recessed luminaires

4

← **Audi Zentrum Aachen, Geilenkirchen branch | DE**
Lighting solution: LIGHT FIELDS, CARDAN,
PANOS infinity

<<

Thanks to continuously adjustable colour temperatures ranging from 3000 K to 6000 K, LIGHT FIELDS evolution tunableWhite is perfectly tailored to users' 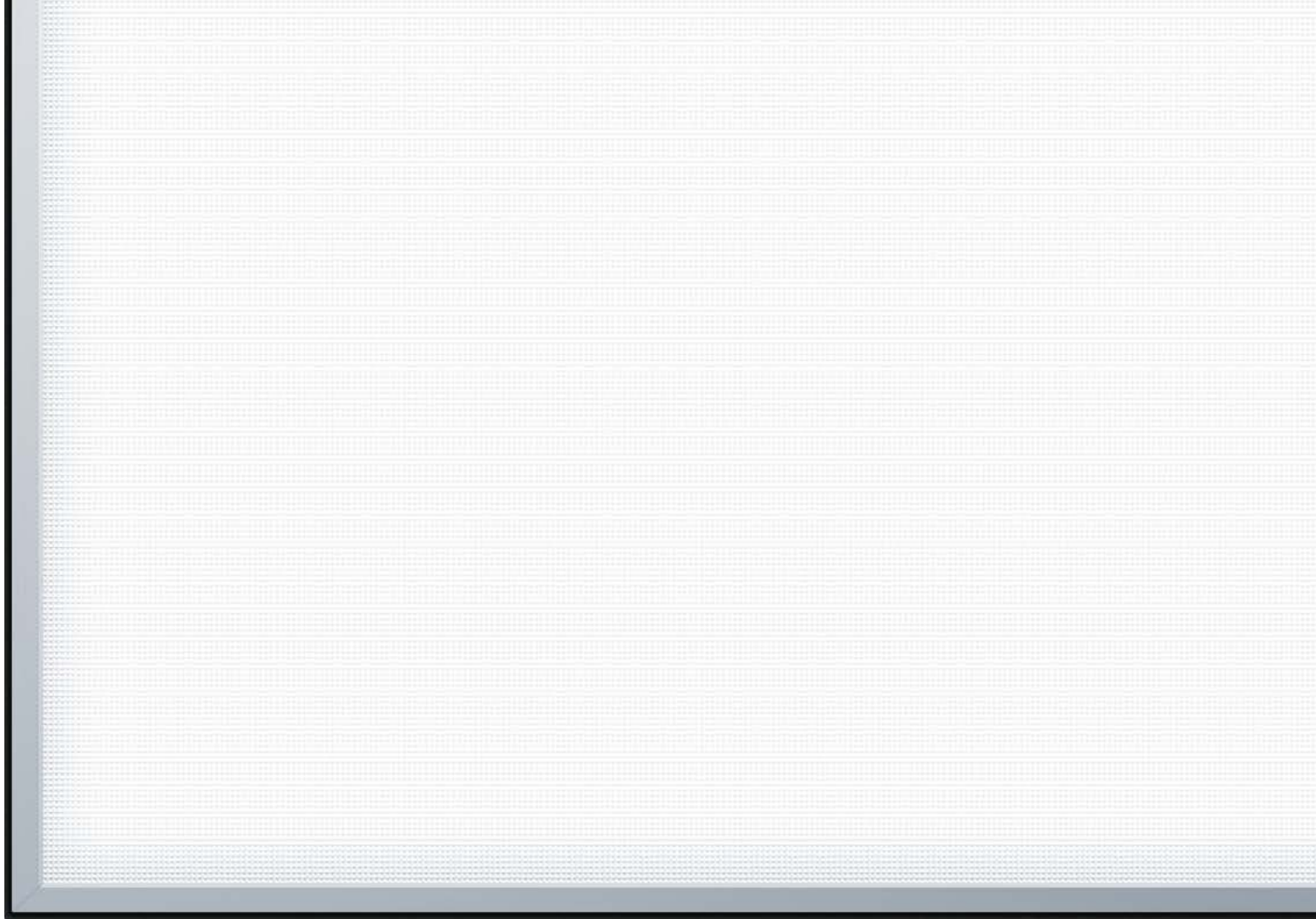individual requirements and biological needs – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.

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 3000 K and 6000 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 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 3000 K to 6000 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

zumtobel.com/study-office

LIGHT FIELDS evolution

Complete range of LED luminaires
for integral office lighting

The name LIGHT FIELDS evolution says it all:
the luminaire is entirely dedicated to pro-
gress and further development. The design
is minimalist and consistently uniform for all
models. LIGHT FIELDS evolution is impressive
not only in visual terms but also in terms of
technical features: the luminaire is fitted with
innovative technologies and always provides

perfect, glare-free light. At the same time, it
is efficient and flexible: qualities by which the
new generation stands out as contemporary
office lighting system that provides perfect
lighting conditions for many situations.

Design: Chris Redfern, Sottsass Associati

LIGHT FIELDS evolution
Recessed LED luminaires

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.

Recessed luminaires featuring backlit lighting technology for max. efficiency

	LIGHT FIELDS evolution recessed luminaire module 600	LIGHT FIELDS evolution recessed luminaire module 625
Distribution characteristics		
▌ Direct	▪	▪
Colour		
Silver	▪	▪
White (optionally)	▪	▪
Installation		
Cluster	▪	▪
Dimensions		
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		▪
LED		
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 / 3000 – 6000 K / Ra 80	▪	▪
6200 lm / 3000 – 6000 K / Ra 80	▪	▪

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.

MELLOW LIGHT evolution

1st channel

MELLOW LIGHT infinity

1st channel

2th channel
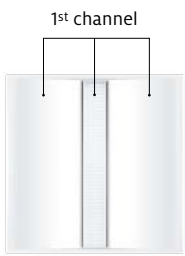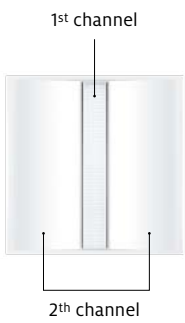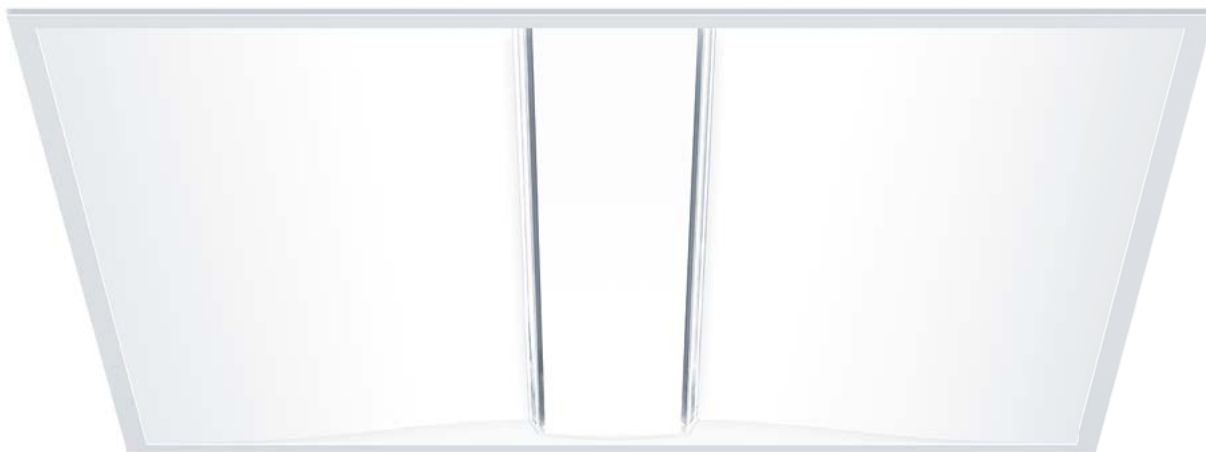
MELLOW LIGHT evolution / infinity

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.

	MELLOW LIGHT evolution		MELLOW LIGHT infinity	
	crystal optic	lenticular optic	crystal optic	lenticular optic
Distribution characteristics				
▱ Extremely wide-angle	▪	▪	▪	▪
Module 600				
598 x 598 x 77 mm	▪	▪	▪	▪
1198 x 298 x 82 mm	▪	▪	▪	▪
Module 625				
623 x 623 x 77 mm	▪	▪	▪	▪
1248 x 310 x 82 mm	▪	▪	▪	▪
LED				
3600 lm / 3000 K / Ra 80	▪	▪	▪	▪
3600 lm / 4000 K / Ra 80	▪	▪	▪	▪
3600 lm / 3000–6000 K / Ra 80			▪*	
3800 lm / 3000–6000 K / Ra 80				▪*
4000 lm / 3000–6000 K / Ra 80	▪			
4200 lm / 3000–6000 K / Ra 80		▪		
4800 lm / 3000 K / Ra 80	▪		▪	
4800 lm / 4000 K / Ra 80	▪		▪	
Accessories				
Ceiling-mounting kit	▪	▪	▪	▪
Cable strain relief set	▪	▪	▪	▪
PMMA Optics cleaning kit	▪	▪	▪	▪

* only square

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: 6000 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: 3000 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
MIREL 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 3000 K and 6000 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 MIREL 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 3000 K to 6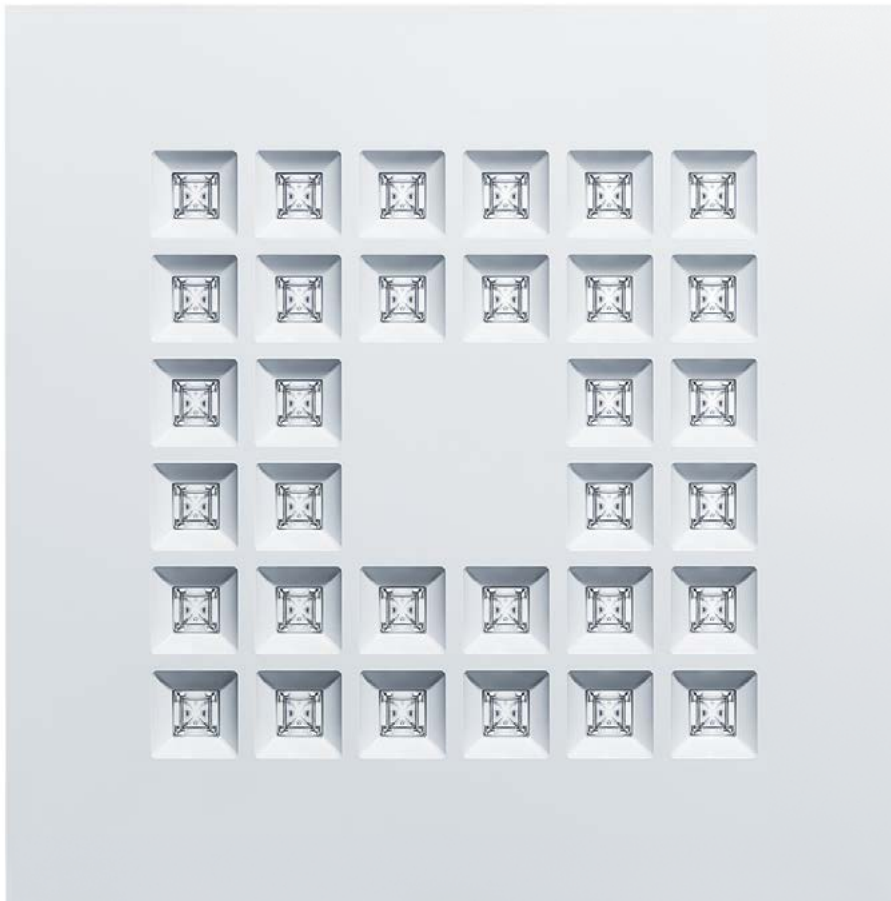000 K, MIREL evolution tunableWhite is perfectly tailored to the users' individual needs and biological requirements – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.

zumtobel.com/litecom

zumtobel.com/study-office

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

zumtobel.com/mirel

MIREL evolution
Recessed LED luminaires

MIREL evolution with lens optic
linear

MIREL evolution with lens optic
square

Recessed luminaire
with magnet

Recessed luminaire
with spring clip
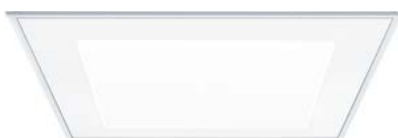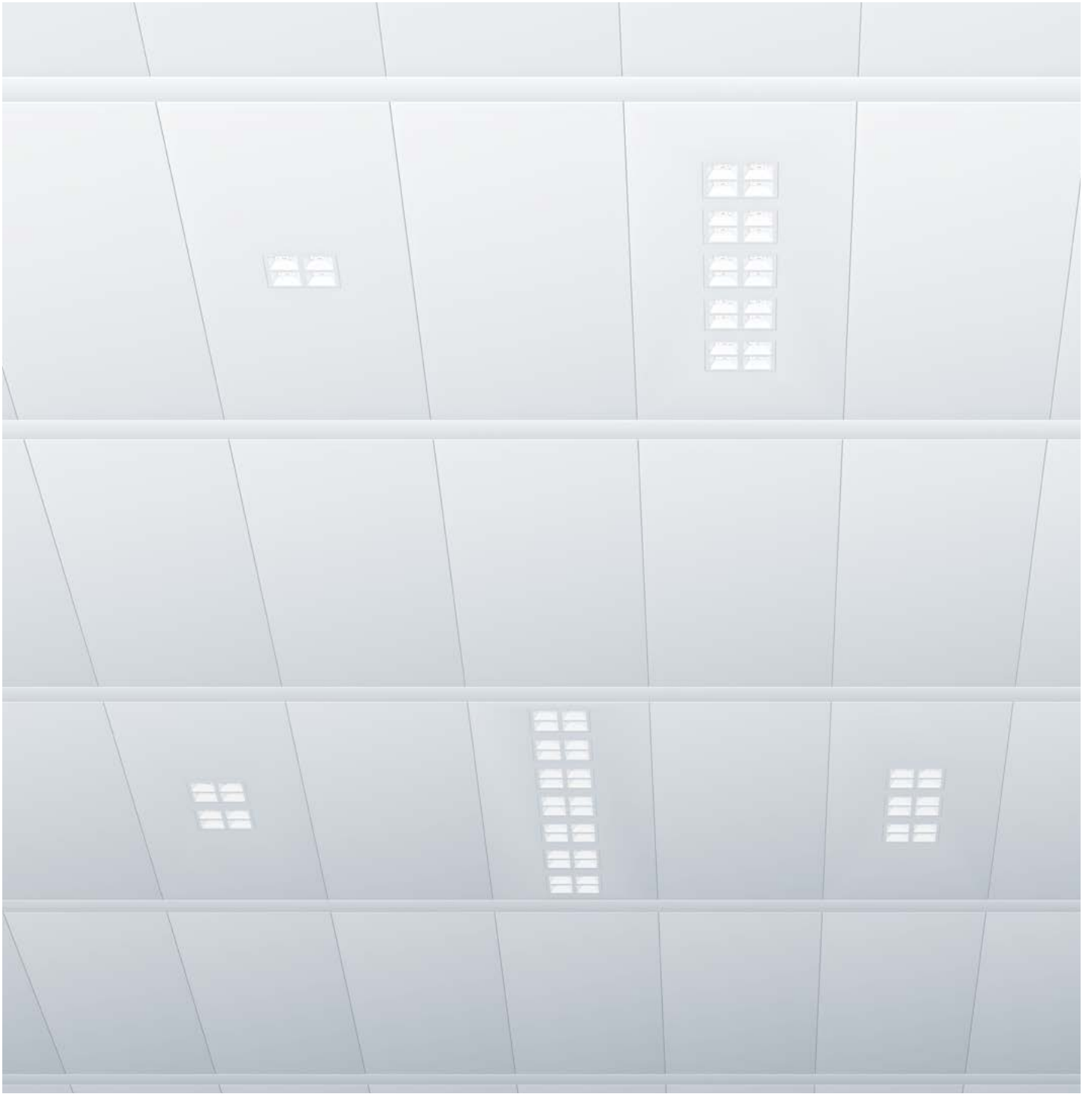
MIREL evolution mini with lens optic
square

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

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

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

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

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

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

MIREL FEW LED wallwasher
linear

	MIREL evolution lay-in luminaire with lens optic		MIREL evolution levelling-in luminaire with lens optic		MIREL evolution levelling-in luminaire with opal optic		MIREL evolution levelling-in luminaire with LRO optic		MIREL evolution rec. lum. mini with lens optic	MIREL FEW rec. lum. wallwasher
	linear	square	linear	square	linear	square	linear	square	square	linear
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 114 x 85 mm (1:1 T16 replacement)										■
1198 x 114 x 85 mm (1:1 T16 replacement)										■
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 114 x 85 mm (1:1 T16 replacement)										■
1248 x 114 x 85 mm (1:1 T16 replacement)										■
Module 675										
1348 x 298 x 38 mm	■									
673 x 673 x 38 mm		■								
1348 x 298 x 74 mm			■							
673 x 673 x 74 mm				■						
1348 x 298 x 85 mm					■					
673 x 673 x 85 mm						■				
Module mini										
150 x 150 x 38 mm (with magnet)									■	
170 x 170 x 38 mm (with spring clip)									■	
LED										
1000 lm / 3000 K / Ra 80									■	
1200 lm / 4000 K / Ra 80									■	
2200 lm / 3000 K / Ra 80					■	■				
2800 lm / 3000 K / Ra 80	■	■	■	■			■	■		
3600 lm / 3000 K / Ra 80	■	■	■	■	■	■				
3800 lm / 3000 K / Ra 80							■	■		
2200 lm / 4000 K / Ra 80										■
2400 lm / 4000 K / Ra 80					■	■				
2800 lm / 4000 K / Ra 80	■	■	■	■			■	■		
3800 lm / 4000 K / Ra 80	■	■	■	■	■	■	■	■		
3800 lm / 3000 – 6000 K / Ra 80					■	■				
4400 lm / 4000 K / Ra 80										■
Accessories										
Ceiling mounting kit			■	■	■	■				■

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

	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.

zumtobel.com/mirel

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: 6000 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: 3000 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
SLOTLIGHT infinity 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 3000 K and 6000 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 SLOTLIGHT infinity 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 3000 K to 6000 K, SLOTLIGHT infinity tunableWhite is perfectly tailored
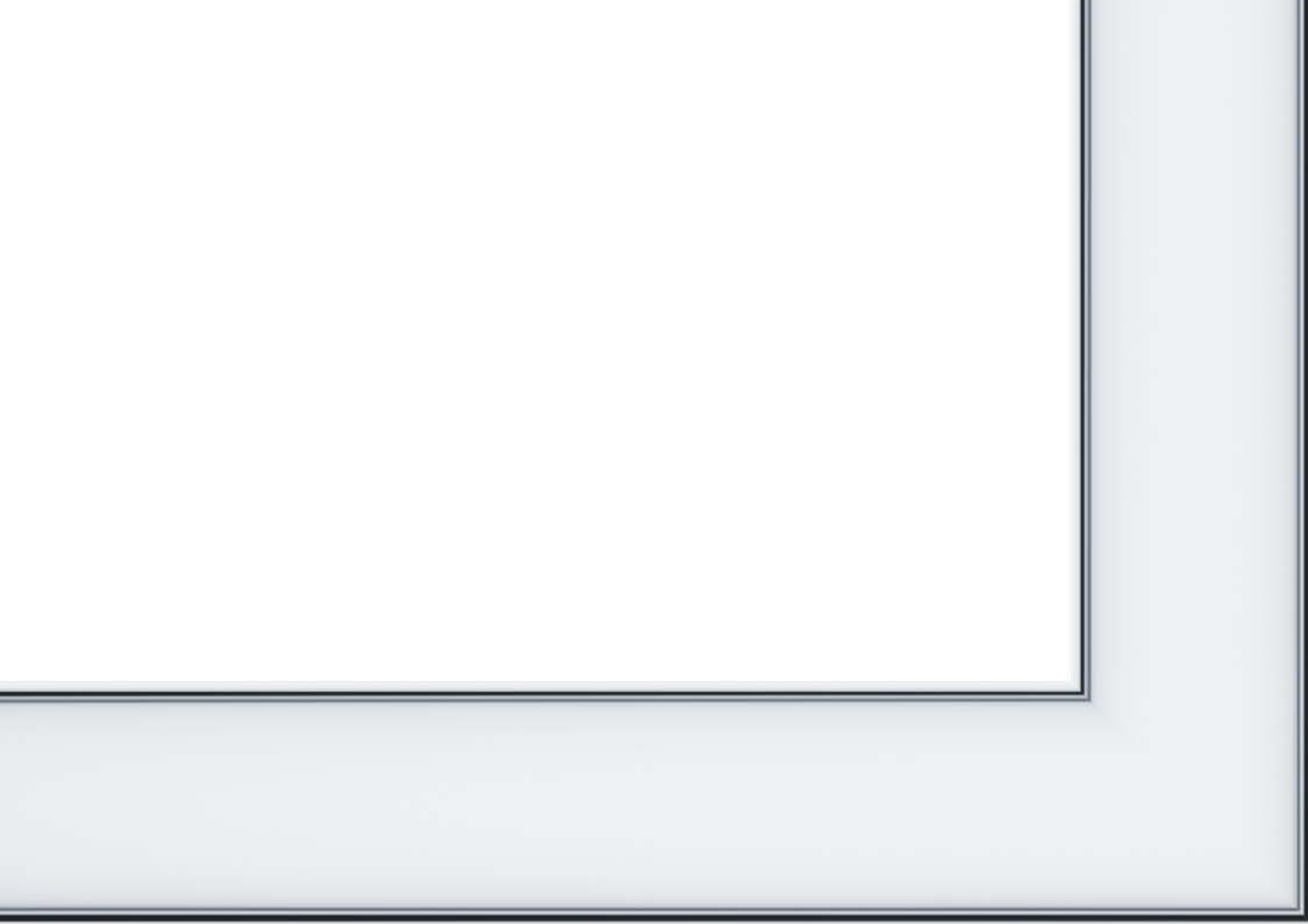
to the users' individual needs and biological requirements – with technical perfection, as the illuminance level remains constant even with changing colour temperatures.

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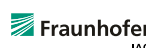
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SLOTLIGHT infinity

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
The entire spectrum of light

UGR < 25


UGR < 19 and L65 < 3000 cd/m²
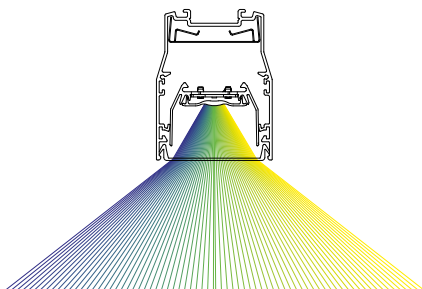
Opal cover
The diffuse distribution lens distinguishes a SLOTLIGHT infinity as a simple and efficient light line with an homogeneous appearance. The application area ranges from reception areas, to corridors, to lounge areas and break-out zones.
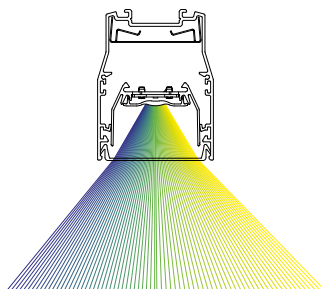
Cover for the office
With this cover, SLOTLIGHT infinity reduces the glare to UGR < 19 and thus ensures workplace lighting in accordance with EN12464:2011. The brilliantly appearing luminaire is ideal for offices, schools and meeting rooms.
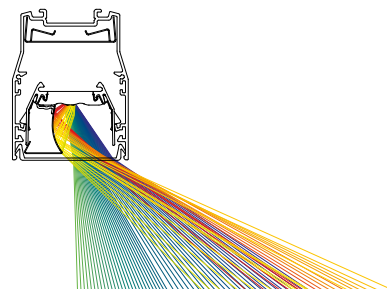
Decorative wall washer
The asymmetric distribution of the SLOTLIGHT infinity illuminates vertical wall areas or pictures evenly and, as a result, enhances traffic zones, for example. As the reflector is inside the luminaire, the wall washer is not recognisable as such from the outside.

Wall washer for school blackboards
Matched to the common blackboard formats and the highly visual tasks in a school, a 3m or 4m long SLOTLIGHT infinity wall washer illuminates the vertical blackboard surfaces with 500 lx and a uniformity of 0.7 in compliance with the standards. In doing so, the uniform appearance is not disrupted by protruding components.

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. ind. lum. recessed	SLOTLIGHT Inf. technical ind. lum. recessed	SLOTLIGHT Inf. continuous-row recessed	SLOTLIGHT Inf. wallwasher recessed	SLOTLIGHT Inf. ind. lum. surf.-mounted	SLOTLIGHT Inf. continuous-row surf.-mounted	SLOTLIGHT Inf. wallwasher surf.-mounted
Distribution characteristics							
Wide-angle	■	■	■		■	■	
Wallwasher				■			■
Optics							
PMMA (opal)	■	■	■		■	■	
LRO (office)	■	■	■		■	■	
Wallwasher		■		■			■
Installation							
Recessed (B 72 mm / ET 136 mm)	■	■	■	■			
Recessed technical (B 100 mm / ET 134 mm)	■	■	■				
Surface-mounted/pendant (B 76 mm / H 109 mm)					■	■	■
Corner luminaire module							
Recessed 545 x 545 mm	■		■				
Surface-mounted 543 x 543 mm					■	■	
Module recessed (channel / technical / continuous-row channel)							
1000 mm / 1048 mm / –	■	■					
1250 mm / 1298 mm / –	■	■					
1500 mm / 1548 mm / –	■	■					
1750 mm / 1798 mm / –	■	■					
2000 mm / 2048 mm / –	■	■					
2250 mm / 2298 mm / –	■	■					
2500 mm / 2548 mm / –	■	■					
2750 mm / 2798 mm / –	■	■					
3000 mm / 3048 mm / 3000 mm	■	■	■	■			
4000 mm / 4048 mm / 4000 mm	■	■	■	■			
Module surface-mounted (channel / continuous-row channel)							
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					■	■	■
LED							
stableWhite (3000 K)	■	■	■	■	■	■	■
stableWhite (4000 K)	■	■	■	■	■	■	■
tunableWhite (3000–6000 K)	■	■	■		■	■	
Inserts							
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				■			■
Accessories							
Set of end caps	■	■	■	■			
Masking plate			■			■	
U-shaped connector	■	■	■	■	■	■	■
Spacer	■	■	■	■			
Mounting clip	■	■	■	■			
Recessed rail (2500 mm)	■	■	■	■			
PST set		■	■		■	■	

Surface-mounted and pendant luminaires

5

← **Ardor International, Ahmedabad | IN**
Architecture: Design Module, Ahmedabad | IN
Lighting design: Associated Lighting Systems,
Ahmedabad | IN
Lighting solution: SLOTLIGHT II, VAERO,
LANOS, KAREA
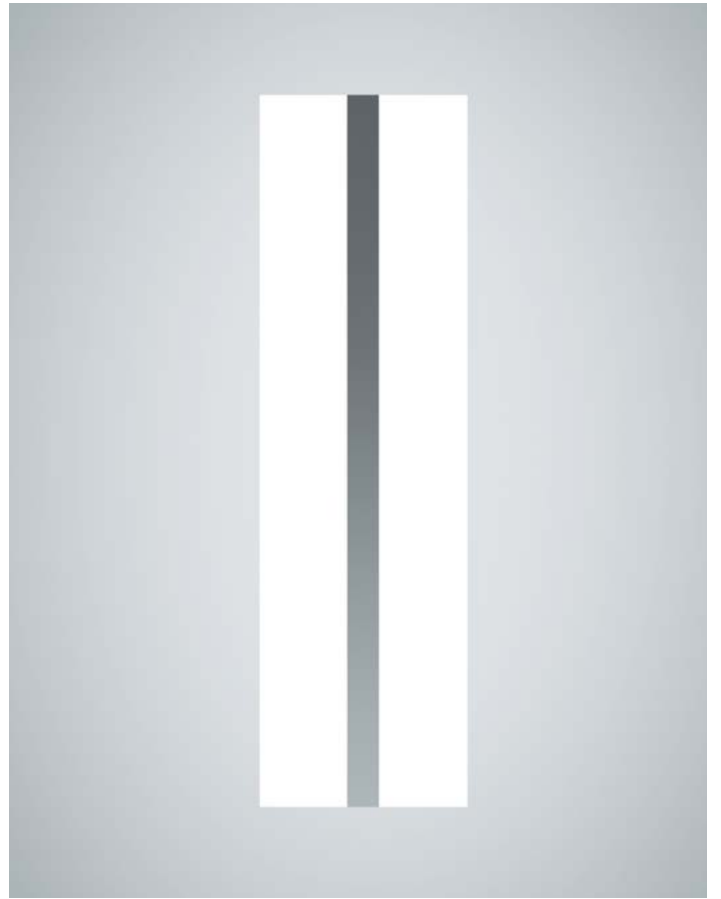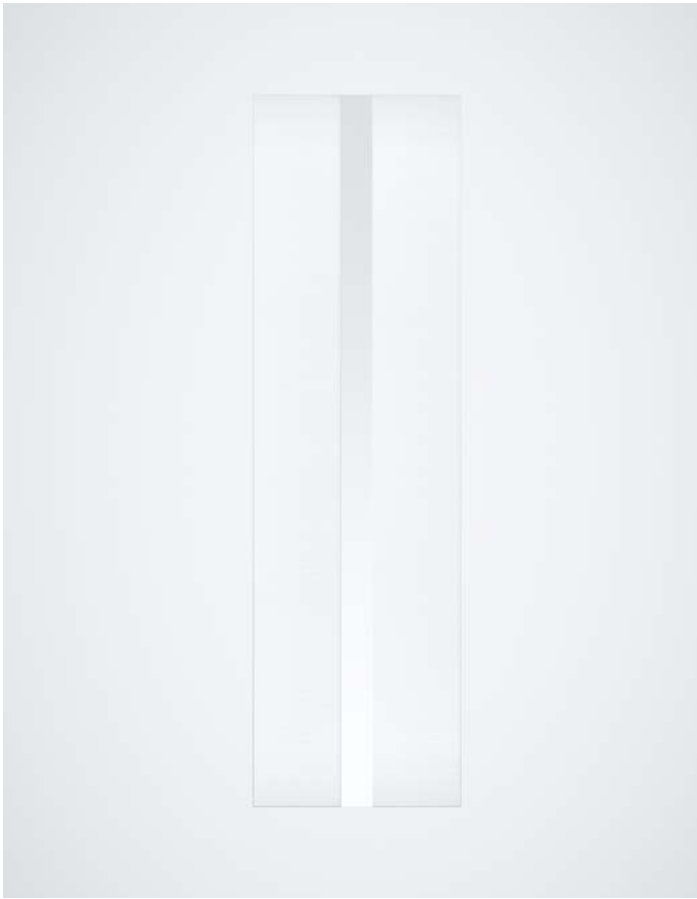
VAERO
LED pendant
luminaire

Distribution characteristics

Direct/indirect	■

Casing colour

White	■
Silver	■
Natural anodised aluminium	■
Brown	■
Black	■

Installation

Cord suspension	■

Dimensions

1250 x 365 mm	■

LED

5000 lm / 3000 K / 4000 K / Ra 80	■
6600 lm / 3000 K / 4000 K / Ra 80	■

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.

zumtobel.com/vaero

↑ **Temporary Visitors Center (TVC), Abu Dhabi | AE**
Lighting solution: AERO II, ARCOS, SLOTLIGHT II, MICROS, CHIARO, COPA, PASO II

AERO II LED

A design masterstroke

AERO II writes a new chapter in the history of lighting technology. Being a hybrid model, it was the first luminaire to interactively combine LED and fluorescent lamp. The 100 % LED version goes even further by exploiting the LED's potential not only for direct lighting, but also for indirect lighting. In terms of design and lighting technology, the AERO II LED is based on the classic AERO luminaire by Ettore Sottsass. Its high-quality waveguide technology with micro-pyramidal optic set new standards in lighting quality. By integrating LEDs in a consistent design concept, efficiency and quality have now been combined at the highest level.

Design: Sottsass Associati

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: 6000 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: 3000 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 3000 K and 6000 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
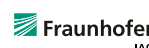
also includes specific design recommendations for biologically effective lighting. In this case, artificial lighting solutions incorporating wide-area panels emitting diffuse light such as LIGHT FIELDS evolution tunableWhite combined with lighting management are vital for supporting daytime activities and ensuring a good night's sleep.

Thanks to the LITECOM lighting management system and therefore continuously adjustable colour temperatures ranging from 3000 K to 6000 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.

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Fraunhofer IAO **zumtobel.com/study-office**

LIGHT FIELDS evolution

Complete range of LED luminaires for integral office lighting

The name LIGHT FIELDS evolution says it all: the luminaire is entirely dedicated to progress and further development. The design is minimalist and consistently uniform for all models. LIGHT FIELDS evolution is impressive not only in visual terms but also in terms of technical features: the luminaire is fitted with innovative technologies and always provides perfect, glare-free light. At the same time, it is efficient and flexible: qualities by which the new generation stands out as contemporary office lighting system that provides perfect lighting conditions for many situations.

Design: Chris Redfern, Sottsass Associati

LIGHT FIELDS evolution
Surface-mounted and pendant luminaire

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,
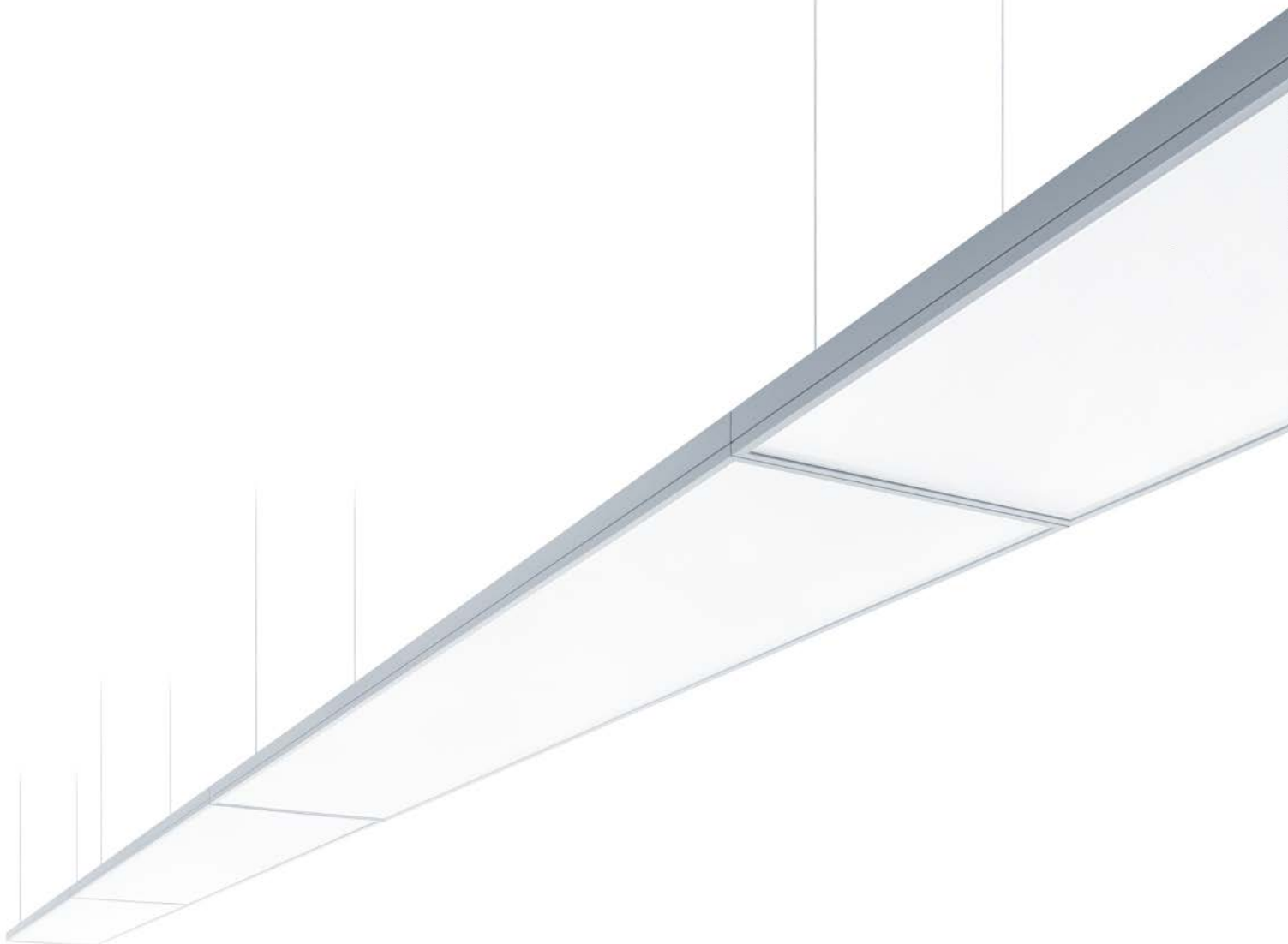
the gentle transition between the luminaire and the background providing good ergonomic compatibility. The light source, which is fitted with innovative litePrint® waveguide technology (patent pending), remains concealed despite its minimum height and delicate frame. This means that the high luminance 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.

* total height of luminaire: 56 mm
** except for MINI version

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

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.

	LIGHT FIELDS evolution surface-mounted luminaire	LIGHT FIELDS evolution pendant luminaire
Distribution characteristics		
Direct	■	
Indirect/direct		■
Colour		
Silver	■	■
Installation		
Cluster	■	
Continuous-row system		■
Dimensions		
324 x 324 mm	■	
636 x 636 mm	■	■
1518 x 268 mm	■	■
LED		
1500 lm / 3000 K / Ra 80	■	
4400 lm / 3000 K / Ra 80	■	■
5200 lm / 3000 K / Ra 80		■
1600 lm / 4000 K / Ra 80	■	
4600 lm / 4000 K / Ra 80	■	■
5600 lm / 4000 K / Ra 80		■
4200 / 3000 – 6000 K / Ra 80	■	■
4800 / 3000 – 6000 K / Ra 80		■
5000 / 3000 – 6000 K / Ra 80	■	

↑ **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.

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design
award
2010

ECOOS
Surface-mounted and pendant LED luminaire
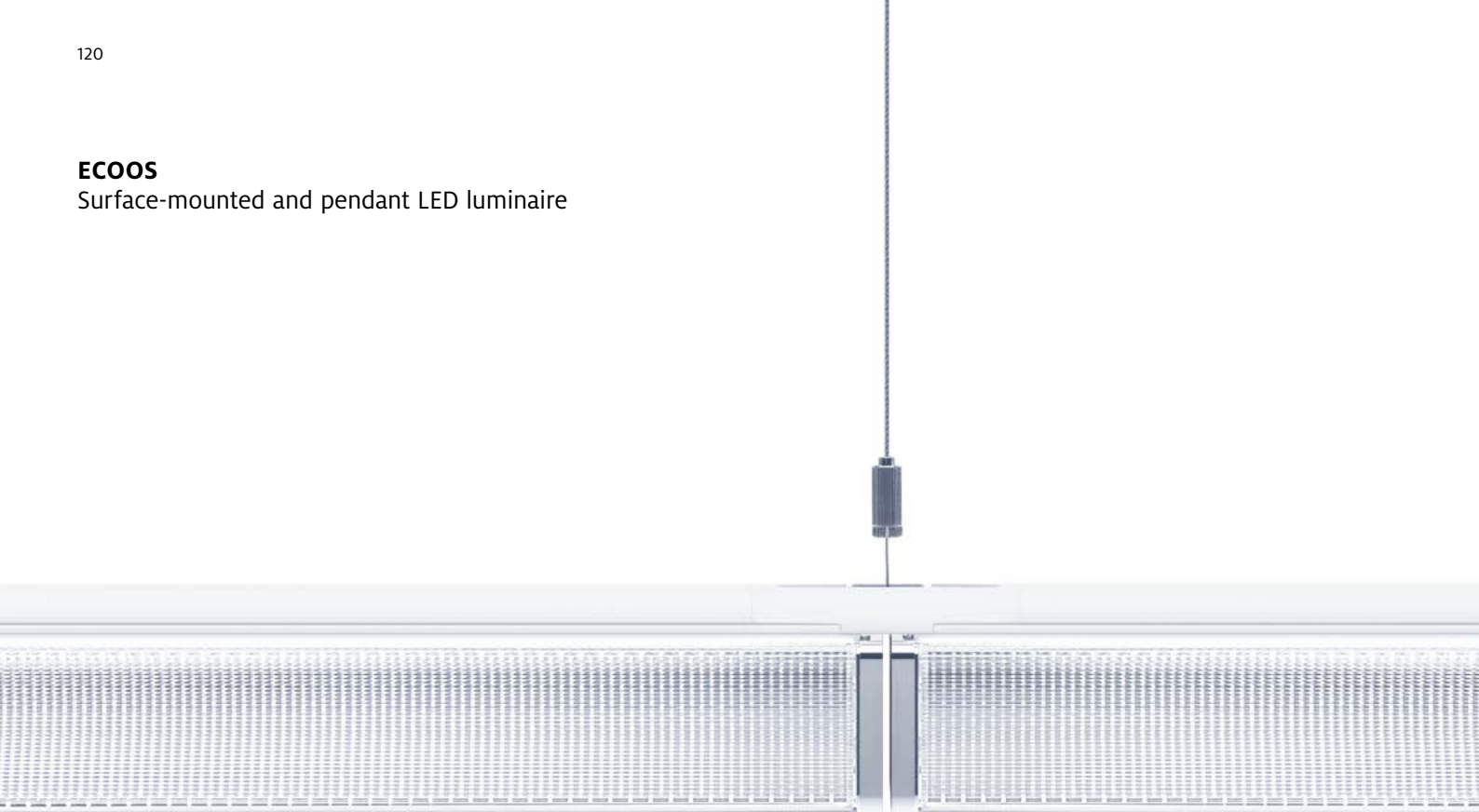
ECOOS continuous row system with connector

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 cd/m² at 65° and UGR < 19 is achieved by guiding the direct component through multiple layers via the MPO+ micro-pyramidal optic, diffuser film and reflectors.

ECOOS LED
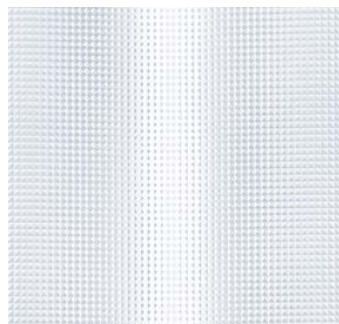
MPO+, Zumtobel's unique micro-pyramidal optic: outstanding glare control enables luminaires to be arranged freely, parallel or vertical relative to window frontage, and even directly above workstations.
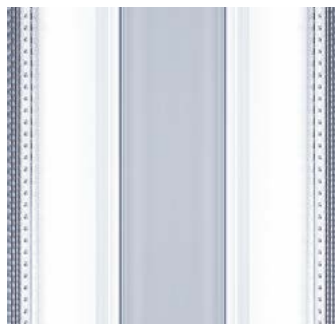
Indirect light component, wide-angle distribution: even with the minimum pendant length of 35 cm, the diffuser-pearl enclosure ensures uniform ceiling illumination.
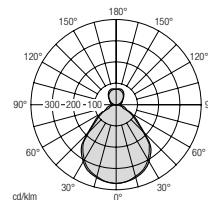
Mainly direct distribution characteristics (ID/DI – 1:3 ratio) combined with the luminaire's high operating efficiency of 90 % provide particularly energy-efficient lighting solutions. The balanced indirect component visually brightens up the room, creating a pleasant atmosphere.

	ECOOS A LED surface-mount luminaire	ECOOS ID LED pendant luminaire	ECOOS TEC LED TECTON
Distribution characteristics			
█ Direct	■		■
█ Direct/indirect		■	
Installation			
Individual luminaire	■	■	■
Continuous-row system		■	■
Dimensions			
1207 x 120 x 60 mm	■	■	■
1507 x 120 x 60 mm	■	■	■
LED			
4000 lm / 3000 K / Ra 80	■	■	
4400 lm / 4000 K / Ra 80	■	■	
5000 lm / 3000 K / Ra 80	■	■	
5400 lm / 4000 K / Ra 80	■	■	
6200 lm / 3000 K / Ra 80	■	■	
6600 lm / 4000 K / Ra 80	■	■	
2800 lm / 3000 K / Ra 80			■
3000 lm / 4000 K / Ra 80			■
3600 lm / 3000 K / Ra 80			■
3800 lm / 4000 K / Ra 80			■
5600 lm / 3000 K / Ra 80			■
6000 lm / 4000 K / Ra 80			■
Accessoires			
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: 6000 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: 3000 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 3000 K and 6000 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 3000 K to 6000 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.

zumtobel.com/litecom
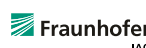
Fraunhofer IAO   **zumtobel.com/study-office**

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 luminaire 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.

As awarded by The Chicago Athenaeum: Museum of Architecture and Design.

DESIGN PLUS
powered by: light+building

iF product design award 2012

ONDARIA
Overviev

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.
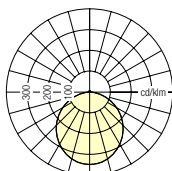
Surface-mounted

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.
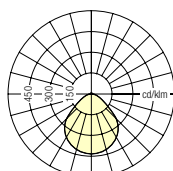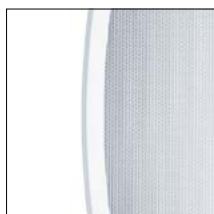
Pendant

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.
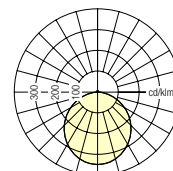
ONDARIA acoustic
Round wide-area luminaire with sound absorption

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
Distribution characteristics				
Wide-angle	■	■	■	■
Installation				
Recessed mounting	■	■	■	
Semi-recessed mounting	■	■	■	
Surface mounting ceiling	■	■	■	■
Surface mounting wall *	■	■	■	■
Pendant	■	■	■	■
Dimensions				
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				■
LED				
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 / 3000 K – 6000 K / Ra 80 tunableWhite				■
3400 lm / 3000 K – 6000 K / Ra 80 tunableWhite			■	
3600 lm / 3000 K – 6000 K / Ra 80 tunableWhite			■	
4000 lm / 3000 K – 6000 K / Ra 80 tunableWhite				■
7000 lm / 3000 K – 6000 K / Ra 80 tunableWhite			■	■
8000 lm / 3000 K – 6000 K / Ra 80 tunableWhite			■	
12000 lm / 3000 K – 6000 K / Ra 80 tunableWhite			■	
14000 lm / 3000 K – 6000 K / Ra 80 tunableWhite			■	
Accessoires				
Transparent supply cable	■	■	■	■
Cord suspension	■	■	■	■
Recessed housing	■	■	■	■
Cleaning set	■	■	■	■

* only Ø 590 mm and Ø 870 mm
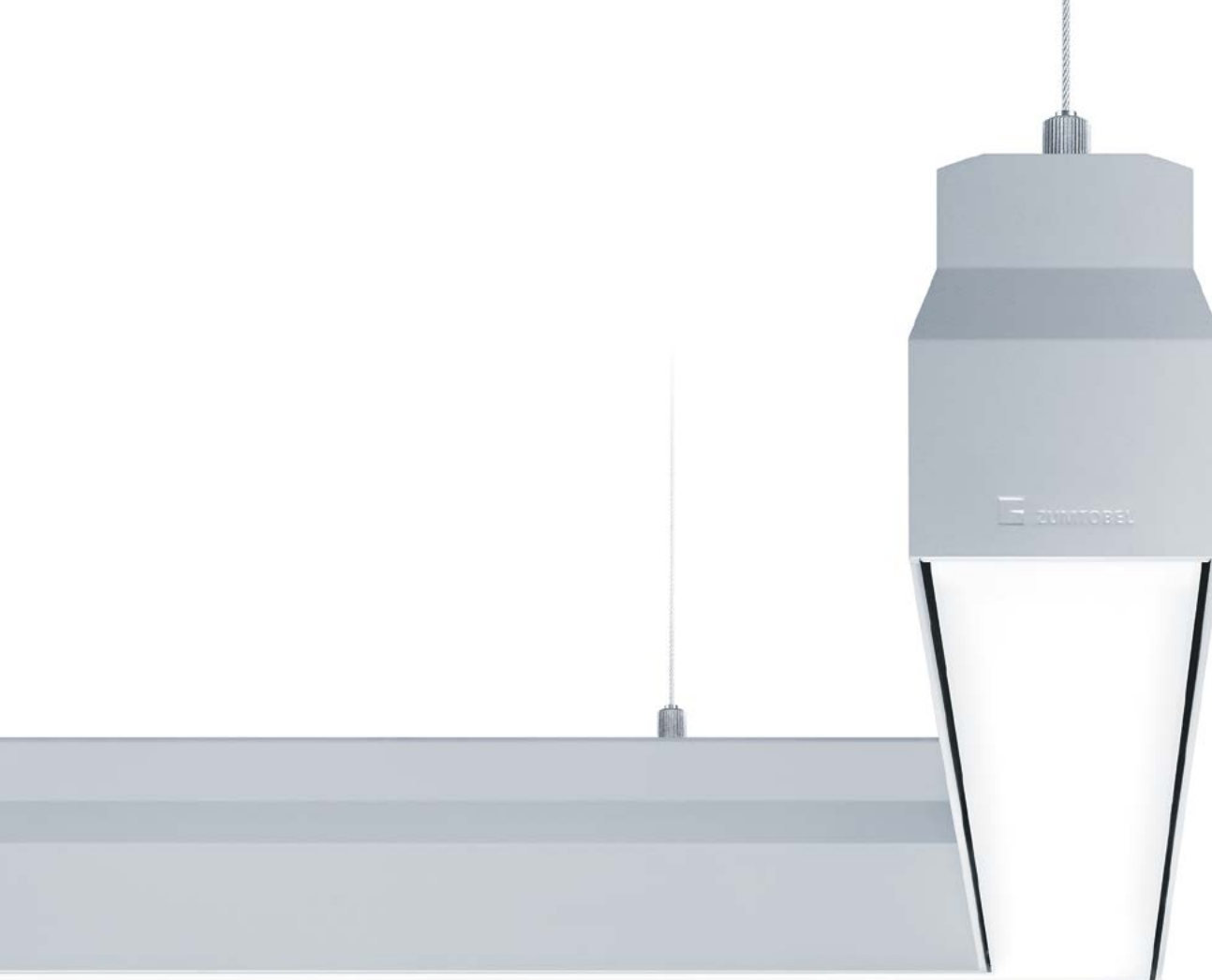
SLOTLIGHT infinity

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.

For more information, see section 4.

zumtobel.com/slotlightinfinity

MELLOW LIGHT evolution

1st channel

MELLOW LIGHT infinity

1st channel

2th channel

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.
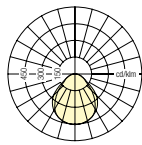
MELLOW LIGHT infinity

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
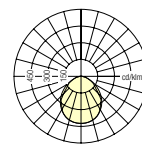
MELLOW LIGHT evolution / infinity
The daylight classic
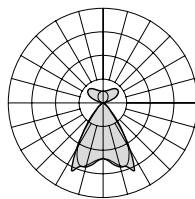
**Surface-mounted
luminaire**

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.

	MELLOW LIGHT evolution		MELLOW LIGHT infinity	
	crystal optic	lenticular optic	crystal optic	lenticular optic
Distribution characteristics				
▢ Extremely wide-angle	▪	▪	▪	▪
Surface-mounted				
600 x 582 x 69 mm	▪	▪	▪	▪
1151 x 349 x 69 mm	▪	▪	▪	▪
LED				
3600 lm / 3000 K / Ra 80	▪	▪	▪	▪
3600 lm / 4000 K / Ra 80	▪	▪	▪	▪
4800 lm / 3000 K / Ra 80	▪		▪	
4800 lm / 4000 K / Ra 80	▪		▪	
End caps				
White	▪	▪	▪	▪
Silver	▪	▪	▪	▪
Aluminium	▪	▪	▪	▪
Brown	▪	▪	▪	▪
Black	▪	▪	▪	▪
Accessories				
Ceiling-mounting kit				
Cable strain relief set	▪	▪	▪	▪
PMMA Optics cleaning kit	▪	▪	▪	▪

AXON

Thanks to a choice of two different types of light distribution, AXON covers a wide range of application areas. The basic version meets the demands for maximum energy efficiency. The centrally arranged light emitting panel and a direct light component of 67 percent add up to a luminaire efficiency level of 115 lm/W.
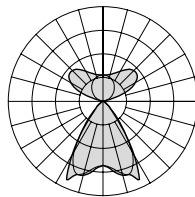
AXON CRF

The focus of AXON CRF is on working with tablet PCs or high-gloss brochures and reduced reflections. To achieve this, the luminaire with laterally emitted light and non-luminous central panel is installed directly above the workstation. The indirect light component of 48 percent ensures highly uniform light distribution at a luminaire efficiency level of 112 lm/W.

AXON

The uniquely slim indirect/direct luminaire combines maximum efficiency with convenient lighting provided by an office luminaire with good glare control.

The slim-line AXON pendant luminaire is characterised by contemporary architectural design and a large number of functions. Designed for installation in offices and with a cross-section of 38 × 38 mm, AXON provides excellent lighting quality and a high degree of glare control. This is made possible thanks to the integration of high performance LEDs in combination with the latest generation LED lens technology ensuring perfect direction

of light and glare control at the same time. Moreover, a well-balanced coordination of indirect and direct light distribution creates a pleasant atmosphere at the workstation. Various models of AXON are available for implementation into sophisticated lighting concepts. Available with a colour temperature of either 3000 K or 4000 K, the lighting can also be configured individually, depending on needs and preferences.
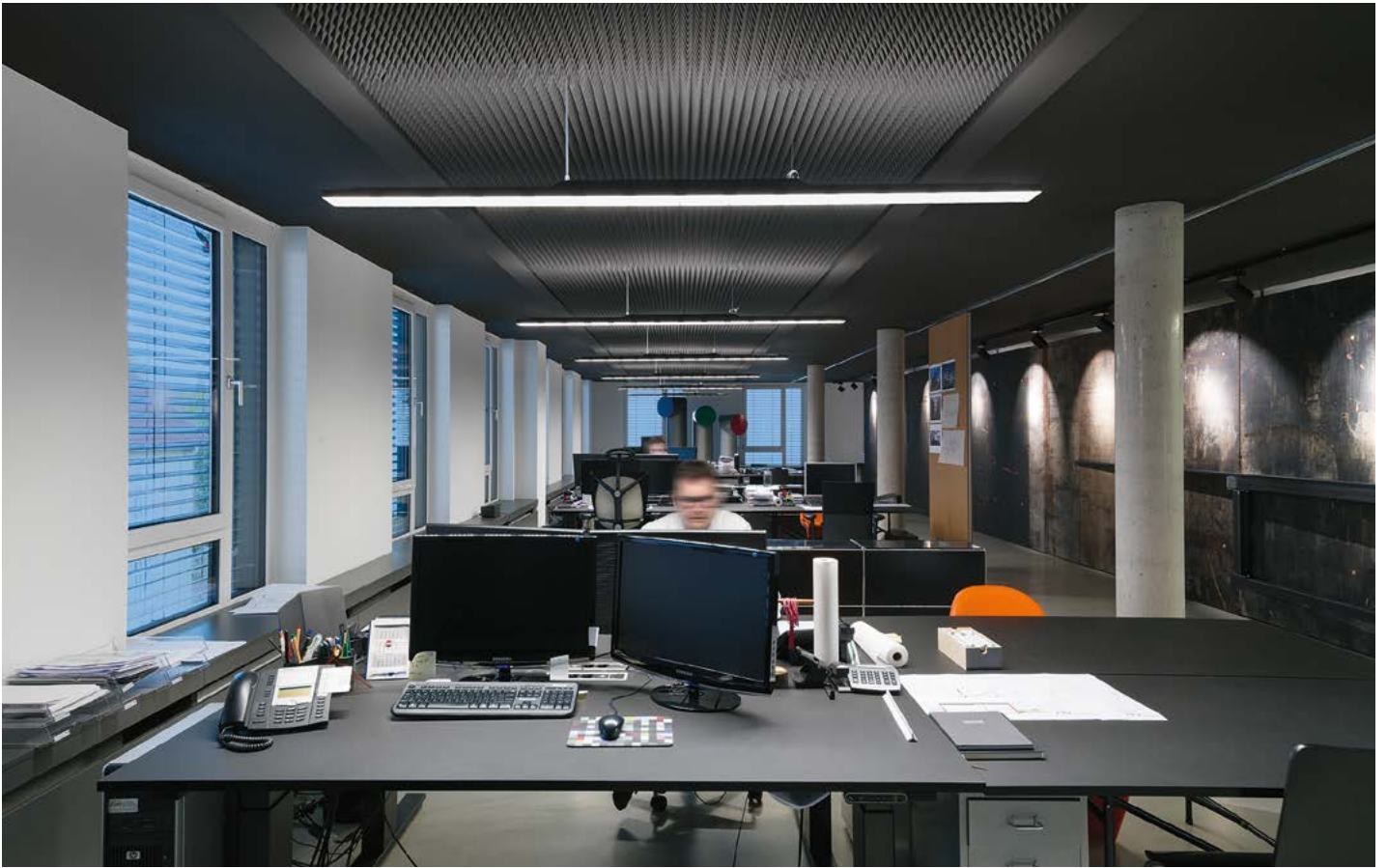
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winner

↑ **Planquadrat Gaiser & Partner Architekten, Sigmaringen | DE**
  Architecture: Planquadrat Gaiser & Partner Architekten, Sigmaringen | DE
  Lighting solution: SEQUENCE, VIVO, SLOTLIGHT LED, SCONFINE Sfera

↓ **Energie Service Biel | CH**
  Architecture: Gebert Architekten, Biel | CH
  Lighting solution: SEQUENCE, TECTON LED, PANOS Q
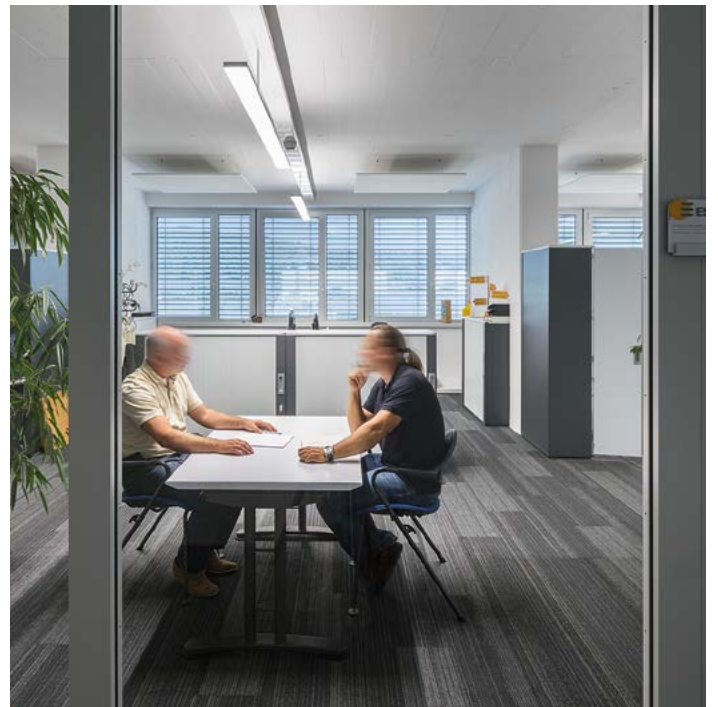
SEQUENCE

Individual lighting solution with smart control and
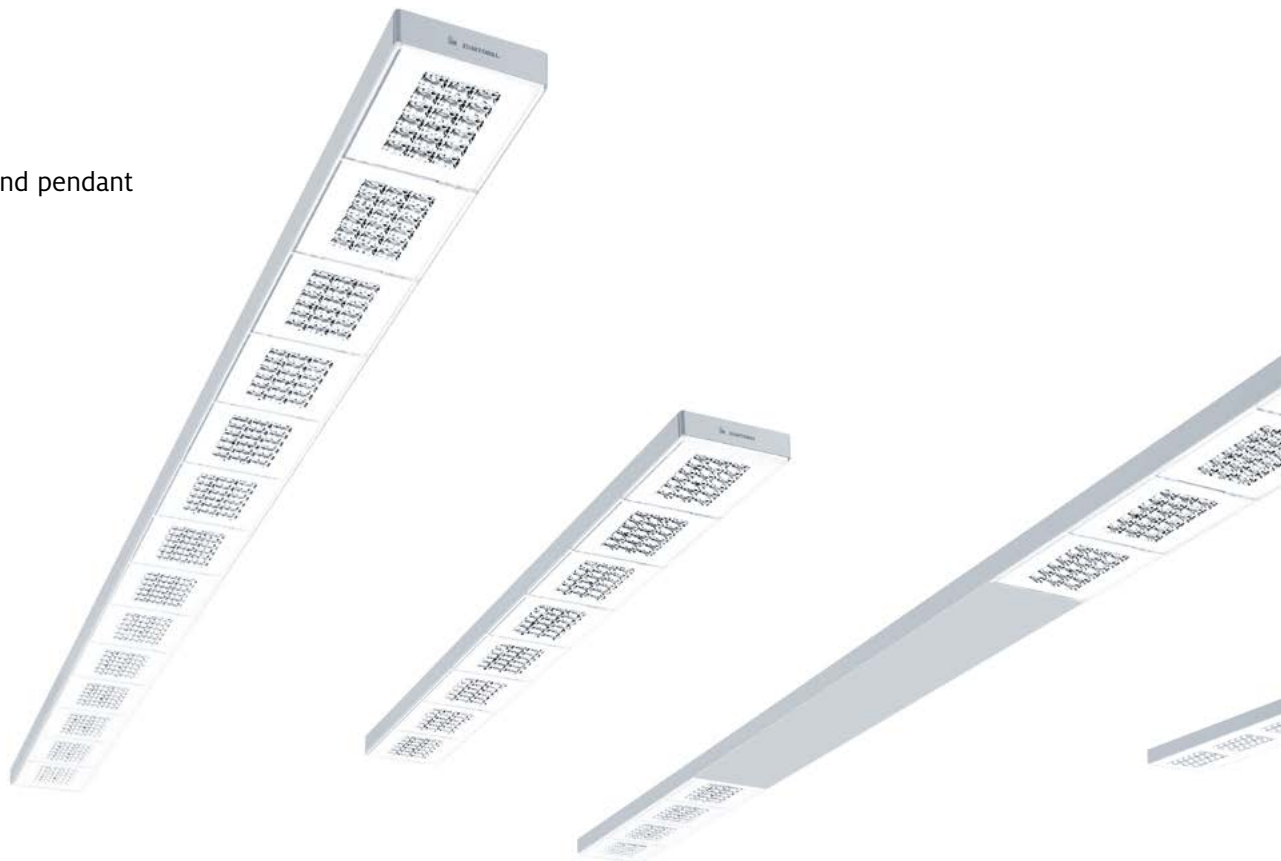luminaire control according to segments

Changing types of collaboration, whether in
project teams, at conventional workstations
or in open space, require flexible lighting solu-
tions that adapt to people's individual needs.
A study conducted by Zumtobel in collabora-
tion with Fraunhofer IAO has shown that
users prefer lighting solutions that can be
individually controlled. The SEQUENCE infinity
pendant and surface-mounted LED luminaire
perfectly meet these requirements.
Separately controlled LED modules cater
for users' individual needs in a flexible
manner. Even direct and indirect lighting
can be combined as required and dimmed
according to the visual tasks. The lighting
scenes are called up and adjusted with once
click using the LITECOM lighting control

unit – individual rooms in particular can be
fitted with a CIRCLE SEQUENCE infinity kit at
no great effort.
SEQUENCE consists of modular units of
identical design that are connected in series
and accommodated in a flat high-quality
aluminium housing, each module incorporat-
ing 6 × 3 centrally located LED lighting points.
Grouped together in three logical sets, the
individual modules and the indirect light com-
ponent can be controlled individually. This
makes adaptive lighting possible.
Continuous dimming, diffuse light emitted
through the opal frame, switching of individual
modules and nearly unlimited other useful
scenarios are conceivable.

zumtobel.com/sequence

reddot award 2015
winner

iF
DESIGN
AWARD
2015

ICO 2
NIC 0
AWA 1
RDS 6
INTERIOR
INNOVATION
winner

SEQUENCE
Surface-mounted and pendant
LED luminaire

Surface-mounted luminaire, 14 modules
(SEQUENCE infinity, SEQUENCE)

Surface-mounted luminaire, 8 modules
(SEQUENCE)

Surface-mounted luminaire, CRF
(SEQUENCE)

Modular variety

The modular design of SEQUENCE allows for a wide range of geometrical configurations and technical lighting options. A choice of pendant luminaires with direct/indirect light distribution and surface-mounted luminaires with purely direct light distribution is available. In order to perfectly implement changes in luminance, the 210 cm basic version comprises 14 LED modules. In case of a reduced luminaire length of 120 cm, the various lighting tasks will be performed by 8 LED modules. Deliberately doing without LED modules in the central direct lighting segment will solve any problem of annoying reflections on high-gloss surfaces. Directly positioned above the task area, SEQUENCE CRF increases contrast rendering and is therefore perfectly suited for working on tablet PCs.

Pendant luminaire, 14 modules
(SEQUENCE infinity, SEQUENCE)

Pendant luminaire, 8 modules
(SEQUENCE)

Pendant luminaire, CRF
(SEQUENCE)

|	SEQUENCE infinity surface-mounted luminaire	SEQUENCE infinity pendant luminaire	SEQUENCE surface-mounted luminaire	SEQUENCE pendant luminaire
Distribution characteristics				
Wide-angle	■		■	
Indirect/direct		■		■
Asymmetrical			■	■
Dimensions				
2100 mm (14 modules)	■	■	■	■
2100 mm (8 modules / CRF*)			■	■
1200 mm (8 modules)			■	■
LED				
2800 lm / 3000 K / Ra 80 (Comfort)			■	
3600 lm / 3000 K / Ra 80 (Comfort)				■
4200 lm / 3000 K / Ra 80			■	
4600 lm / 3000 K / Ra 80 (Comfort)			■	
4800 lm / 3000 K / Ra 80				■
5800 lm / 3000 K / Ra 80				■
7000 lm / 3000 K / Ra 80 (Comfort)				■
7400 lm / 3000 K / Ra 80	■		■	
9000 lm / 3000 K / Ra 80		■		■
3000 lm / 4000 K / Ra 80 (Comfort)			■	
3800 lm / 4000 K / Ra 80 (Comfort)				■
4600 lm / 4000 K / Ra 80			■	
5000 lm / 4000 K / Ra 80 (Comfort)			■	
5200 lm / 4000 K / Ra 80				■
6800 lm / 4000 K / Ra 80				■
7400 lm / 4000 K / Ra 80 (Comfort)				■
8000 lm / 4000 K / Ra 80	■		■	
10000 lm / 4000 K / Ra 80		■		■

* CRF: luminaire model with higher contrast rendering factor

↑ **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
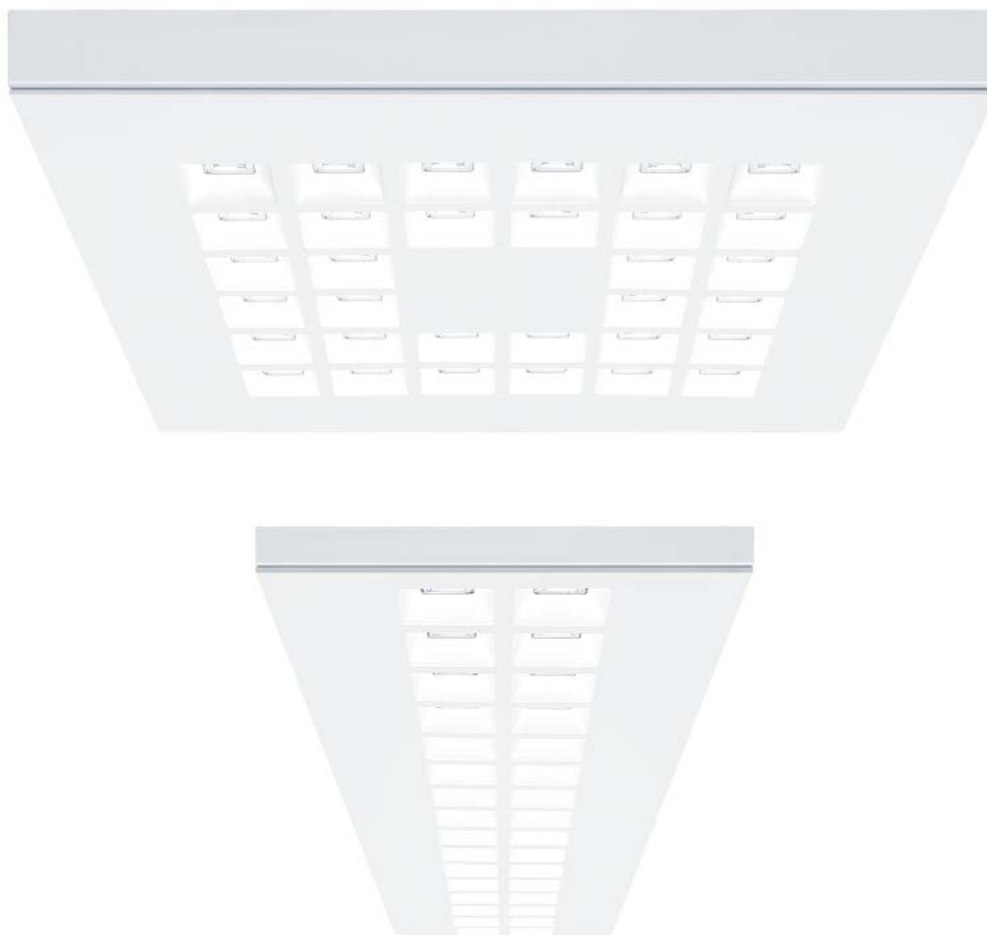
MIREL evolution

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 136 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

zumtobel.com/mirel

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
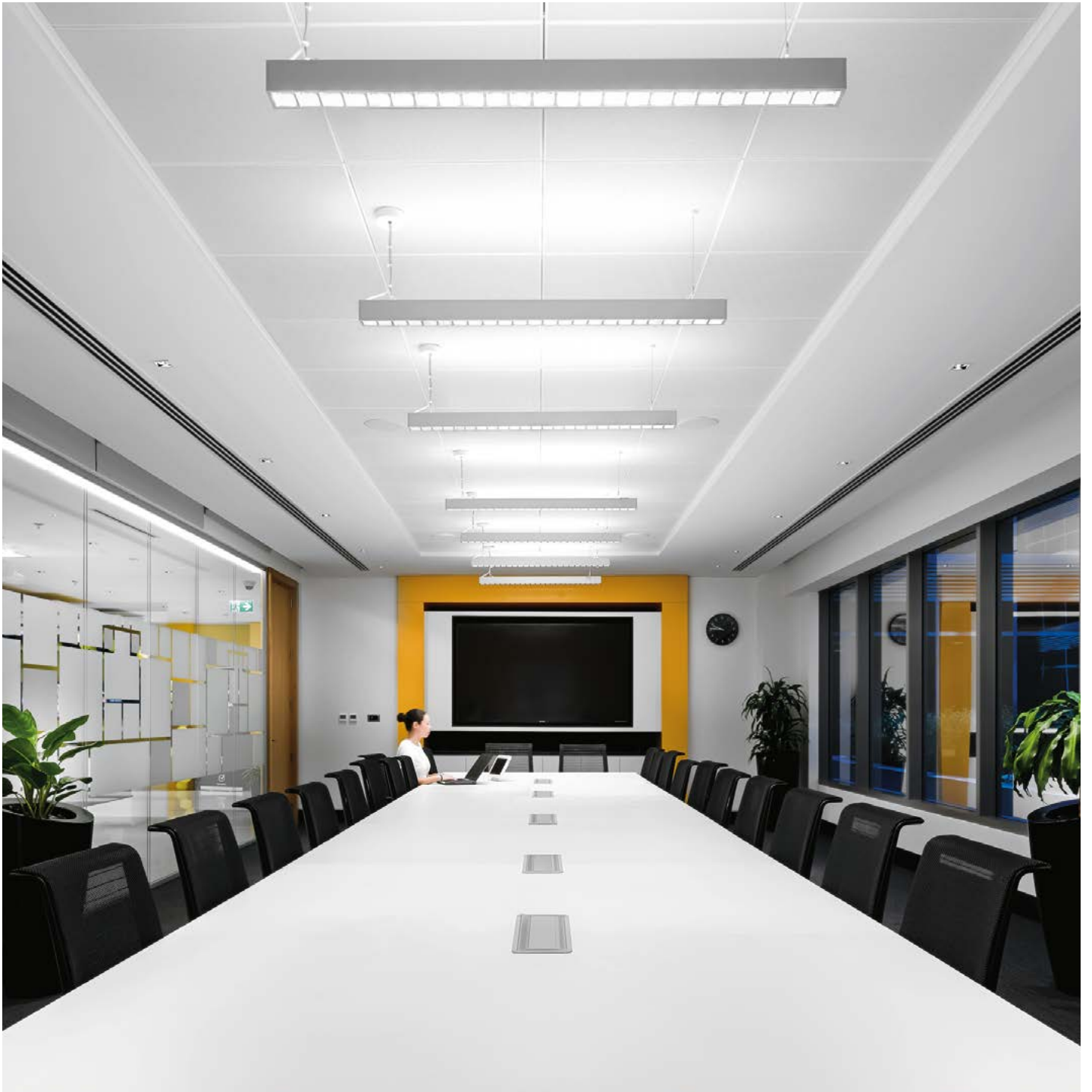square

MIREL evolution TEC luminaire
linear

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 TEC luminaire with lens optic linear	MIREL evolution pendant luminaire with lens optic linear	MIRAL FAW LED surface-mounted wallwasher linear
Distribution characteristics						
Wide-angle	■	■	■	■		
Direct/indirect	■	■			■	
Wallwasher						■
Dimensions						
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					■	
LED						
1000 lm / 3000 K / Ra 80			■			
2800 lm / 3000 K / Ra 80	■	■		■	■	
3600 lm / 3000 K / Ra 80	■	■		■		
5600 lm / 3000 K / Ra 80					■	
1200 lm / 4000 K / Ra 80			■			
2800 lm / 4000 K / Ra 80	■	■		■		
3000 lm / 4000 K / Ra 80					■	
3800 lm / 4000 K / Ra 80	■	■		■		
4400 lm / 4000 K / Ra 80						■
5800 lm / 4000 K / Ra 80					■	
Accessories						
Continuous row kit					■	
Continuous row connector					■	

↑ **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 %.
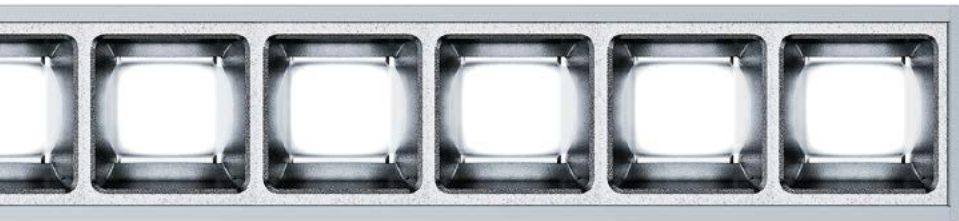
zumtobel.com/lincor

reddot award 2015
winner

LINCOR
Luminaire range
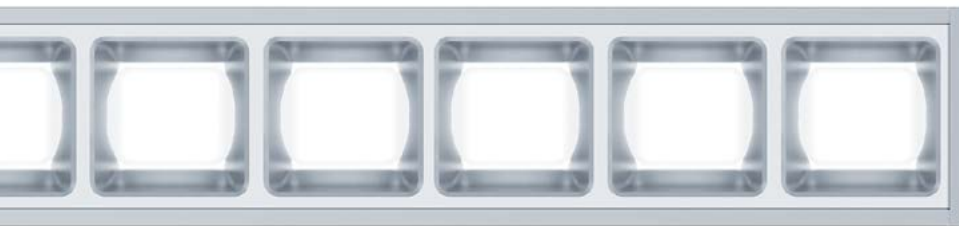
LED minicells Comfort

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.
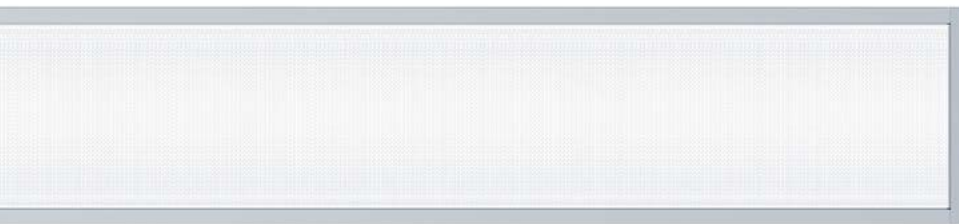
LRO

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.
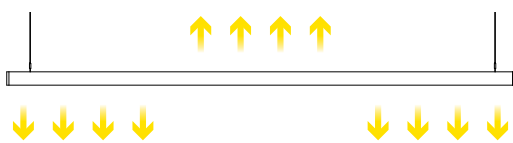
CRF

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
Distribution characteristics			
Direct			▪
Indirect/direct		▪	
Optics			
Comfort minicells		▪	▪
Darklight minicells		▪	▪
LRO		▪	
CRF		▪	
Colour			
Silver		▪	▪
White (optional)		▪	▪
Installation			
Individual luminaire		▪	▪
Continuous-row system		▪	
Dimensions			
1209 x 63 x 64 mm		▪	▪
2407 x 63 x 64 mm		▪	▪
Lumen packages (4000 K / 3000 K)			
3970 lm	3763 lm		▪
4070 lm	3858 lm		▪
4630 lm	4389 lm	▪	
4800 lm	4550 lm	▪	
4900 lm	4650 lm	▪	
7940 lm	7526 lm		▪
8140 lm	7716 lm		▪
9260 lm	8778 lm	▪	
9600 lm	9100 lm	▪	
9800 lm	9300 lm	▪	
8000 lm (CRF)	8400 lm (CRF)	▪	
Accessories			
Power-feed-kit		▪	
TECTON adapter			▪

Pendant luminaires

LINCOR **single length** 1209 mm, up to 4900 lm

LINCOR **double length** 2407 mm, up to 9800 lm

LINCOR **continuous-row system**

Surface-mounted luminaires

Single length 1209 mm, up to 4070 lm
Optionally available with TECTON trunking adapter
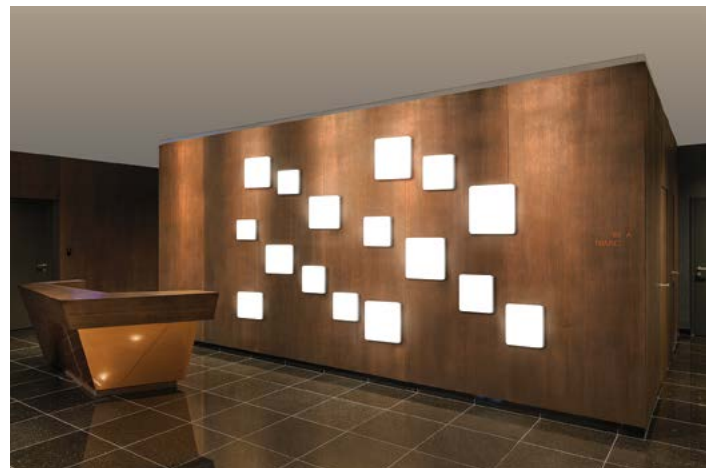
Double length 2407 mm, up to 8140 lm

↑ **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

reddot award 2016
winner

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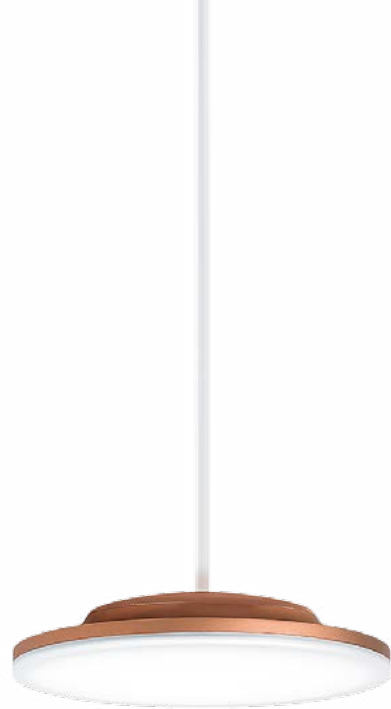
Ceiling mounting
Round or square, big or small:
The installation height of all models is only 57 mm.

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
Distribution characteristics		
◪ Lambertian	■	
◪ Asymmetrical		■
Style		
Circular	■	
Square	■	■
Colour		
White	■	■
Matt silver*	■	■
Grey**	■	■
Black**	■	■
Brass**	■	■
Copper**	■	■
Installation		
Wall installation	■	■
Ceiling installation	■	
Pendant installation	■	
Dimensions		
Ø 334 mm	■	
□ 331 mm	■	■
Ø 432 mm	■	
□ 431 mm	■	■
LED		
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 diametres 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
Distribution characteristics					
Narrow-beam	■		■		■
Wide-angle	■	■	■	■	■
Colour					
Chrome	■	■	■	■	■
Bronze	■	■	■	■	■
Installation					
Transparent suspension cord* (L 3000 mm)	■	■	■		
Transparent suspension cord* (L 4000 mm)				■	■
LED					
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)	■		■		■
Compact fluorescent lamps					
TCD-SE		■			
TCG-SE				■	
Accessories					
Inner sphere made of opal glass		■		■	

* Standard (including ceiling rose)

LQ CHANDELIER

A decorative pendant luminaire that can be arranged
to form a lighting object

"LQ" is a humorous reference by the New York architect Hani Rashid to Louis Quatorze, the Sun King. The application of certain geometrical principles, the focussing of miniature faces into a multi-facetted reflector, and the accurate arrangement of innovative LED light sources is all it takes to create exciting visual effects, a complex relational texture of form and light.

The basic unit of the modular chandelier consists of four LED modules, each fitted with 3 LEDs of 1.2 W each. A highly distinctive feature is the downwardly opening tulip-shaped design of the chrome-plated components, which emphasises the chandelier's avant-garde look.

Design: Hani Rashid

zumtobel.com/chandelier

Free-standing and wall-mounted luminaires

6

← **Hertz Autovermietung GmbH, Eschborn | DE**
Architecture: REAL GREEN GmbH,
Frankfurt am Main | DE
Lighting solution: SFERA free-standing luminaire
featuring swarmControl

↑ 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 or 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 wherever 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

SFERA
Free-standing luminaire

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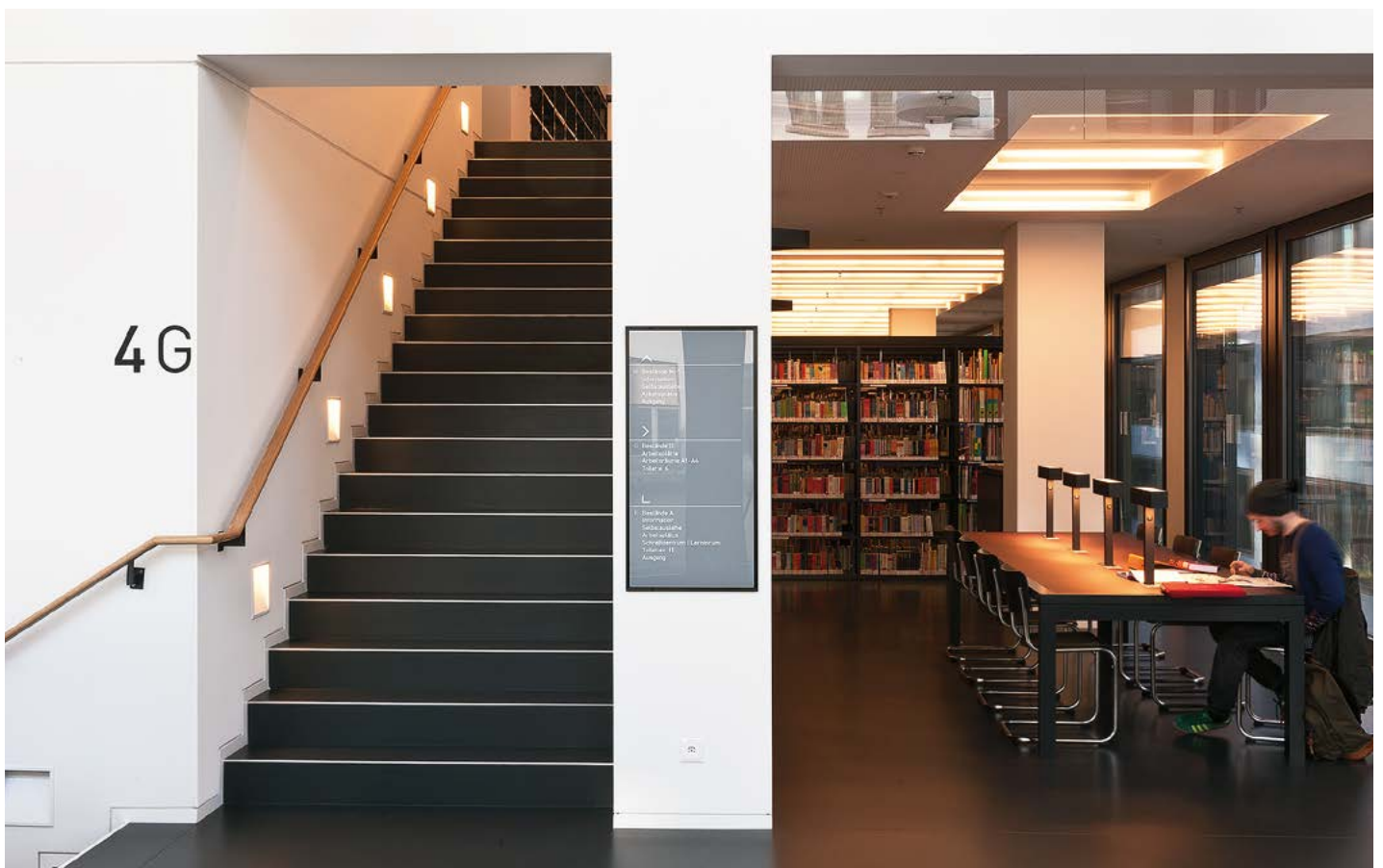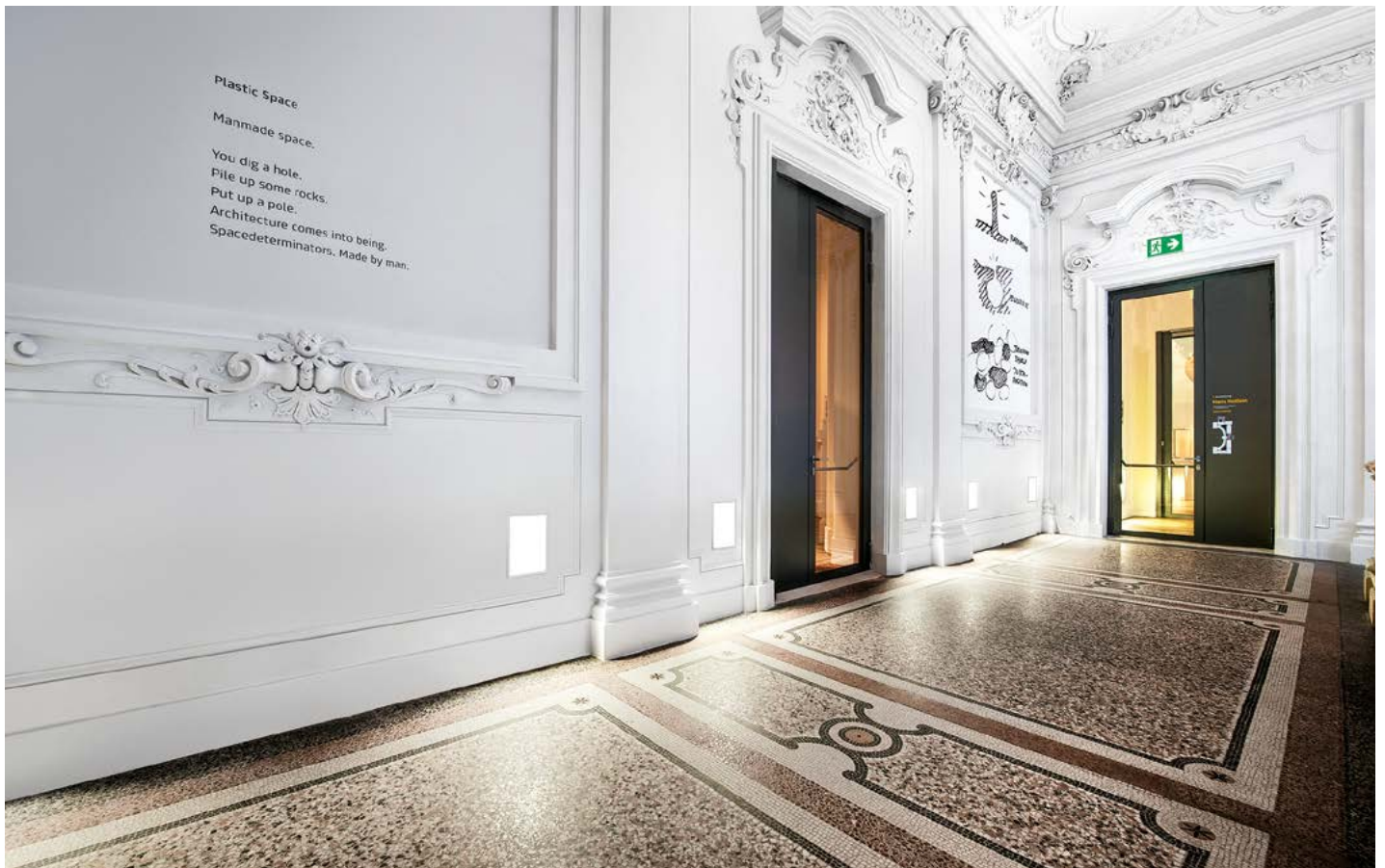
CAPA
Free-standing luminaire

CAPA Lite LED (cut edges)
Free-standing luminaire

CAPA Lite LED (rounded)
Free-standing luminaire

	LINETIK	SFERA	LIGHT FIELDS evolution	CAPA LED	CAPA Lite LED
Distribution characteristics					
Indirect/direct			■	■	■
Indirect/direct (separately controllable)	■	■	■		
Recommended application					
Single-person workstation	■	■	■	■	■
Two-person workstation	■	■	■	■	■
3-axes office			■		
Room*		■	■		
Installation					
Free-standing luminaire	■	■	■	■	■
Surface-mounted on wall			■		
Colour					
Aluminium			■		
Silver				■	■
White	■	■		■	■
Black	■				
Optics					
MPO+		■	■	■	■
Louvres	■				
Built-in control (free-standing luminaires)					
switchDIM	■				■
sensControl	■	■	■	■	■
swarmControl		■	■		
Light source					
LED	■	■	■	■	■
Efficiency					
80 – 100 lm / W		■			■
101 – 115 lm / W	■			■	
> 115 lm / W			■		

* Free-standing luminaires with swarmControl use radio signals sent
to adjacent luminaires to create a light cloud that always ensures ideal
lighting conditions in the workplace. This makes free-standing luminaires
with swarmControl an intelligent spatial solution.

Plastic Space

Manmade space.

You dig a hole.
Pile up some rocks.
Put up a pole.
Architecture comes into being.
Spacedeterminators. Made by man.

4 G

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

↓ **University of Teacher Education, Zurich | CH**
  Architecture: Max Dudler, Zurich | CH
  Lighting solution: KAVA LED, PANOS, TECTON, SLOTLIGHT II, ONDARIA
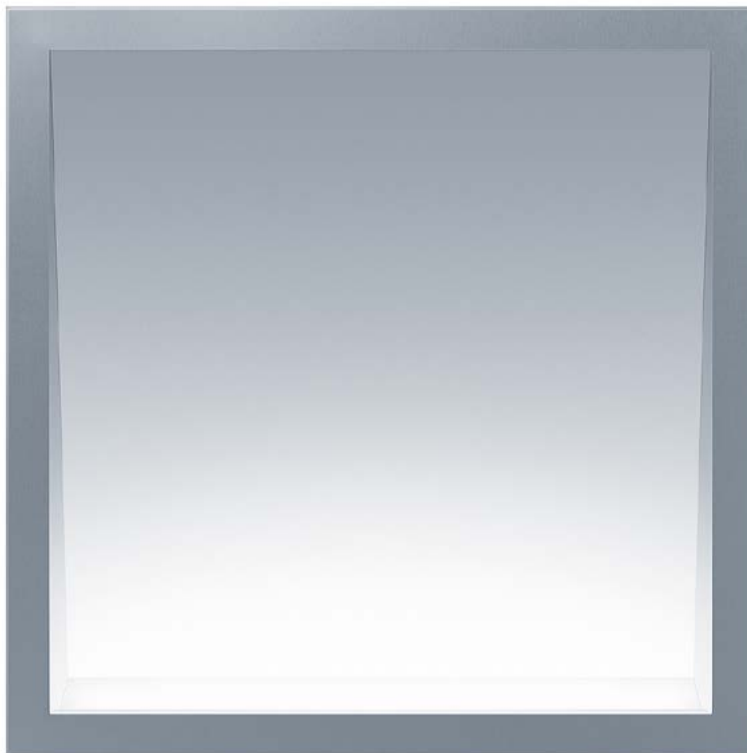
KAVA LED

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
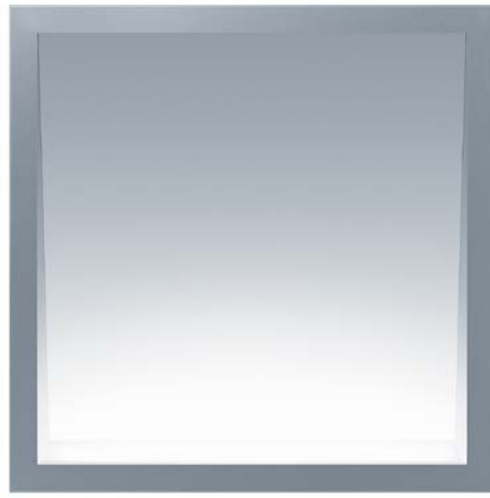
KAVA LED Q220

KAVA LED

	KAVA LED
Distribution characteristics	
Asymmetrical	▪
Installation	
Recessed wall	▪
Dimensions	
94 x 94 x 75 mm	
110 x 110 x 43 mm	▪
220 x 220 x 75 mm	▪
Reflectors	
Flat specular reflector	▪
LED	
LED 3000 K warm white	▪
LED 4000 K neutral white	▪
Accessories	
Glass cover	▪
Decorative cover	▪
Wall mounting IP 40	▪
Concrete casting surround	▪
Cavity wall installation kit	▪
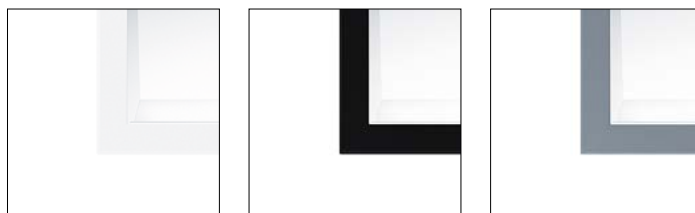
Housing frame colour: white or black powder-coated or in anodised aluminium

↑ **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.

zumtobel.com/helissa

Continuous-row systems
and individual batten luminaires

← **Autohaus Schweiger, Reutte | AT**
Architecture: archtirol, Helmut Schweiger and
Bernd Müller, Innsbruck | AT
Lighting design: systech-solution GmbH, Reutte | AT
Lighting solution: TECTON LED, CARDAN LED,
DIAMO, SLOTLIGHT infinity

↑ Menzi Muck AG, Kriessern | CH
Architecture: Carlos Martinez Architekten, Berneck | CH
Lighting design and electrical consultants:
Schmidheiny Engineering AG, Widnau | CH
Lighting solution: TECTON LED, VIVO LED, LIGHT FIELDS evolution,
SFERA free-standing luminaire

↓ Sollich KG, Salzuflen | DE
Architecture: Robert Wiehofsky, PODUFAL + WIEHOFSKY,
Architekten und Ingenieure, Löhne | DE
Lighting solution: TECTON LED, MELLOW LIGHT V LED, PERLUCE LED, CREDOS,
Thorn OLSYS, ONLITE central eBox, CUBESIGN, LUXMATE LITENET

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. It is simply a matter of replacing or adding lighting modules, light sources or optics as required.

TECTON MIREL LED brings together the best of two worlds. Whereas the slim continuous row stands out above all by its enormous flexibility, the MIREL evolution office luminaire guarantees high visual comfort, even with demanding visual tasks. The continuous-row lighting system that is rounded off in this way satisfies a wide variety of requirements in a uniform design.

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

TECTON fixing components

| Wall bracket | Ceiling bracket | Caddy clip | Chain suspension | Cord suspension |

TECTON trunking (silver/white)

| Trunking | Connector | | Feed-in and feed-out components |

TECTON LED continuous-row luminaires and single luminaire

| TECTON LED Wide Beam | TECTON LED Narrow Beam | TECTON LED Shelf Beam | TECTON LED Wallwasher |

| TECTON LED with CG Kit | TECTON MIREL LED | TECTON MPO LED | TECTON BASIC LED |
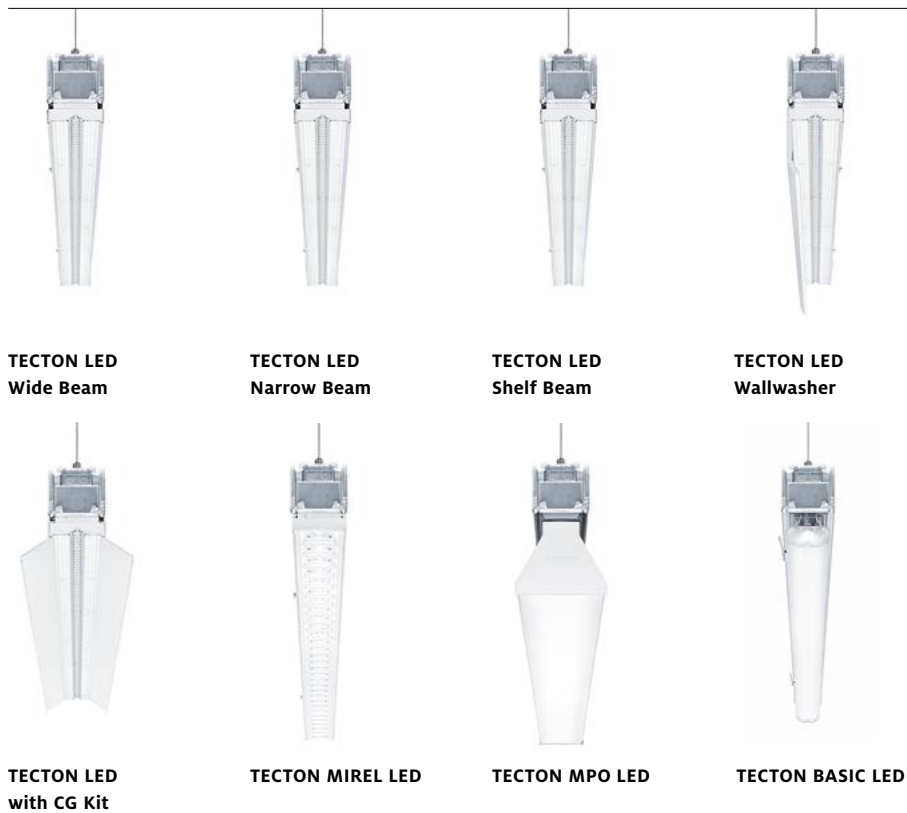
	TECTON LED individual installation	TECTON continuous row system
Trunking		
TECTON T LED 1000	■	
TECTON T LED 1500	■	
TECTON T LED 2000	■	
TECTON T 1522 (BASIC LED)	■	
TECTON T 1500/2000/2500/3000/3500/4000		■
TECTON T 1000 oE (leer)		■
Feed-in and feed-out components		
TECTON TM TA/TE central feed *		■
TECTON TM central feed *		■
TECTON TE feed *		■
TECTON TA feed-out		■
TECTON TA-F flexible feed-out		■
TECTON T-VL, T-VT, T-VX node connector		■

* incl. end cap and shock protection

	TECTON LED Wide Beam	TECTON LED Narrow Beam	TECTON LED Shelf Beam	TECTON LED Wallwasher	TECTON LED with CG Kit	TECTON MIREL LED	TECTON MPO LED	TECTON BASIC LED
Distribution characteristics								
▮ Narrow-beam		■						
◤ Wide-angle	■				■	■	■	■
◮ Shelf Beam			■					
◩ Asymmetrical				■				
LED								
2700 lm / 3000 K (1000 x 60 mm)						■		
2700 lm / 4000 K (1000 x 60 mm)						■		
3700 lm / 3000 K (1000 x 60 mm)	■		■	■	■	■		
3700 lm / 4000 K (1000 x 60 mm)	■	■	■	■	■	■		
3700 lm / 6500 K (1000 x 60 mm)	■	■	■	■	■			
5200 lm / 3000 K (1000 x 60 mm)	■		■	■	■			
5200 lm / 4000 K (1000 x 60 mm)	■	■	■	■	■			
5200 lm / 6500 K (1000 x 60 mm)	■	■	■	■	■			
8000 lm / 3000 K (1000 x 60 mm)	■							
8000 lm / 4000 K (1000 x 60 mm)	■	■						
8000 lm / 6500 K (1000 x 60 mm)	■	■						
4000 lm / 3000 K (1500 x 60 mm)						■		
4000 lm / 4000 K (1500 x 60 mm)						■		
5200 lm / 3000 K (1500 x 60 mm)								■
5200 lm / 4000 K (1500 x 60 mm)								■
5500 lm / 3000 K (1500 x 60 mm)	■		■	■	■	■		
5500 lm / 4000 K (1500 x 60 mm)	■	■	■	■	■	■		
5500 lm / 6500 K (1500 x 60 mm)	■	■	■	■	■			
8000 lm / 3000 K (1500 x 60 mm)	■		■	■	■			■
8000 lm / 4000 K (1500 x 60 mm)	■	■	■	■	■			■
8000 lm / 6500 K (1500 x 60 mm)	■	■	■	■	■			
12000 lm / 3000 K (1500 x 60 mm)	■							
12000 lm / 4000 K (1500 x 60 mm)	■	■						
12000 lm / 6500 K (1500 x 60 mm)	■	■						
5500 lm / 4000 K (1500 x 104 mm)							■	
6500 lm / 4000 K (1500 x 104 mm)							■	
8000 lm / 4000 K (1500 x 104 mm)							■	
5400 lm / 3000 K (2000 x 60 mm)						■		
5400 lm / 4000 K (2000 x 60 mm)						■		
7400 lm / 3000 K (2000 x 60 mm)	■		■	■	■	■		
7400 lm / 4000 K (2000 x 60 mm)	■	■	■	■	■	■		
7400 lm / 6500 K (2000 x 60 mm)	■	■	■	■	■			
10500 lm / 3000 K (2000 x 60 mm)	■		■	■	■			
10500 lm / 4000 K (2000 x 60 mm)	■	■	■	■	■			
10500 lm / 6500 K (2000 x 60 mm)	■	■	■	■	■			
16000 lm / 3000 K (2000 x 60 mm)	■							
16000 lm / 4000 K (2000 x 60 mm)	■	■						
16000 lm / 6500 K (2000 x 60 mm)	■	■						

TECTON
Decorative luminaires, adapter and spots

TECTON luminaires and adapter

MIREL evolution
Lens optic

CRAFT TECTON
High-bay luminaire

LINCOR D-D / C-D
Darklight/Comfort louvre optic

ECOOS TEC LED
Micropyramidal optic

PERLUCE TECTON
Moisture-proof luminaire

TECTON spots

VIVO M TEC LED

FACTOR TEC LED

ONICO TEC LED

VIVO-P L TEC LED

KATALYST TEC-GP LED

INTRO liteCarve® TEC-GP LED
Spotlight for vertical surfaces

	ECOOS TEC LED decorative luminaire	LINCOR D-D / C-D surface-mounted luminaire	MIREL evolution louvre luminaire	CRAFT TECTON high-bay luminaire	PERLUCE TECTON moisture-proof luminaire
Distribution characteristics					
Narrow-beam				▪	
Wide-angle	▪	▪	▪	▪	
Direct/indirect (ceiling illuminated)					▪
Lamps					
LED	▪	▪	▪	▪	▪

	VIVO M TEC LED	VIVO L TEC LED	VIVO-P L TEC LED	FACTOR TEC LED	ONICO TEC LED	KATALYST TEC-GP LED	INTRO liteCarve® TEC-GP LED
Distribution characteristics							
Spot	▪	▪	▪	▪	▪		
Flood	▪	▪	▪	▪	▪		
Wideflood	▪	▪	▪	▪	▪		
Asymmetrical						▪	
Double-asymmetrical						▪	
Wallwasher							▪
Colour							
Silver	▪	▪	▪				
White	▪	▪	▪	▪	▪	▪	▪
LED							
3200 lm / 3000 K / Ra 80							▪
3200 lm / 4000 K / Ra 80							▪
36–44 W Tunable Colour		▪					
24 W Essential stableWhite (2700–2800 lm)	▪	▪		▪	▪		
36 W Essential stableWhite (4000–4100 lm)		▪		▪	▪		
46 W Essential+ stableWhite (4300–5000 lm)						▪	
92 W Essential+ stableWhite (8600–10 000 lm)						▪	
24 W Essential+ stableWhite (2100–2300 lm)	▪	▪		▪	▪		
36 W Essential+ stableWhite (3100–3300 lm)		▪		▪	▪		
36 W bakery			▪	▪	▪		
36 W fresh meat			▪	▪	▪		

TECTON
Emergency/escape sign luminaires and sensors

TECTON emergency and escape sign luminaires

ONLITE RESCLITE escape HP
escape-route illumination

ONLITE RESCLITE escape
escape-route illumination

ONLITE RESCLITE escape H180
escape-route illumination

ONLITE RESCLITE escape
high ceilings

ONLITE RESCLITE anti-panic HP
antipanic lighting

ONLITE RESCLITE anti-panic
antipanic lighting

ONLITE RESCLITE anti-panic
high ceilings

ONLITE RESCLITE spot
object lighting

ONLITE PURESIGN 150 TECTON
escape sign luminaire

ONLITE CROSSIGN 110/160 TECTON
escape sign luminaire

ONLITE ECOSIGN TEC TECTON
escape sign luminaire

ONLITE ECOSIGN TEC TECTON
emergency luminaire

TECTON sensors

TECTON ED-SENS
occupany sensor

TECTON ED-EYE
daylight sensor

TECTON PST
motion sensor

TECTON ATIVO
contrast sensor

	ONLITE RESCLITE escape HP	ONLITE RESCLITE escape	ONLITE RESCLITE escape H180	ONLITE RESCLITE escape high ceilings	ONLITE RESCLITE anti-panic HP	ONLITE RESCLITE anti-panic	ONLITE RESCLITE anti-panic high ceilings	ONLITE RESCLITE spot
Central supply								
TEC LED NSI	■	■	■	■	■	■	■	■
TEC LED NDA	■	■	■	■	■	■	■	■
TEC LED NPS	■	■	■	■	■	■	■	■
Separate battery supply with monitoring								
TEC LED NT1	■	■	■		■	■		■
TEC LED NT3	■	■	■		■	■		■

	ONLITE PURESIGN 150 TEC-GP	ONLITE CROSSIGN 110 ERI TEC-GP	ONLITE CROSSIGN 110 TEC-GP	ONLITE CROSSIGN 160 ERI TEC-GP	ONLITE CROSSIGN 160 TEC-GP	ONLITE ECOSIGN TEC
Central supply						
TEC LED NSI	■	■	■	■	■	■
TEC LED NDA	■	■	■	■	■	■
TEC LED NPS	■		■		■	■
Separate battery supply with monitoring						
TEC LED NT1	■	■	■	■	■	■
TEC LED NT3	■	■	■	■	■	■

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

	ZX2 LED continuous-row lighting system
Fixing parts	
ZX2 ceiling suspension	▪
ZX2 ceiling or wall suspension 20°-45°	▪
ZX2 chain suspension	▪
ZX2 chain suspension for tilt	▪
ZX2 cord suspension	▪
Trunking	
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	▪
Trunking accessories	
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	▪
LED batten luminaire	
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.
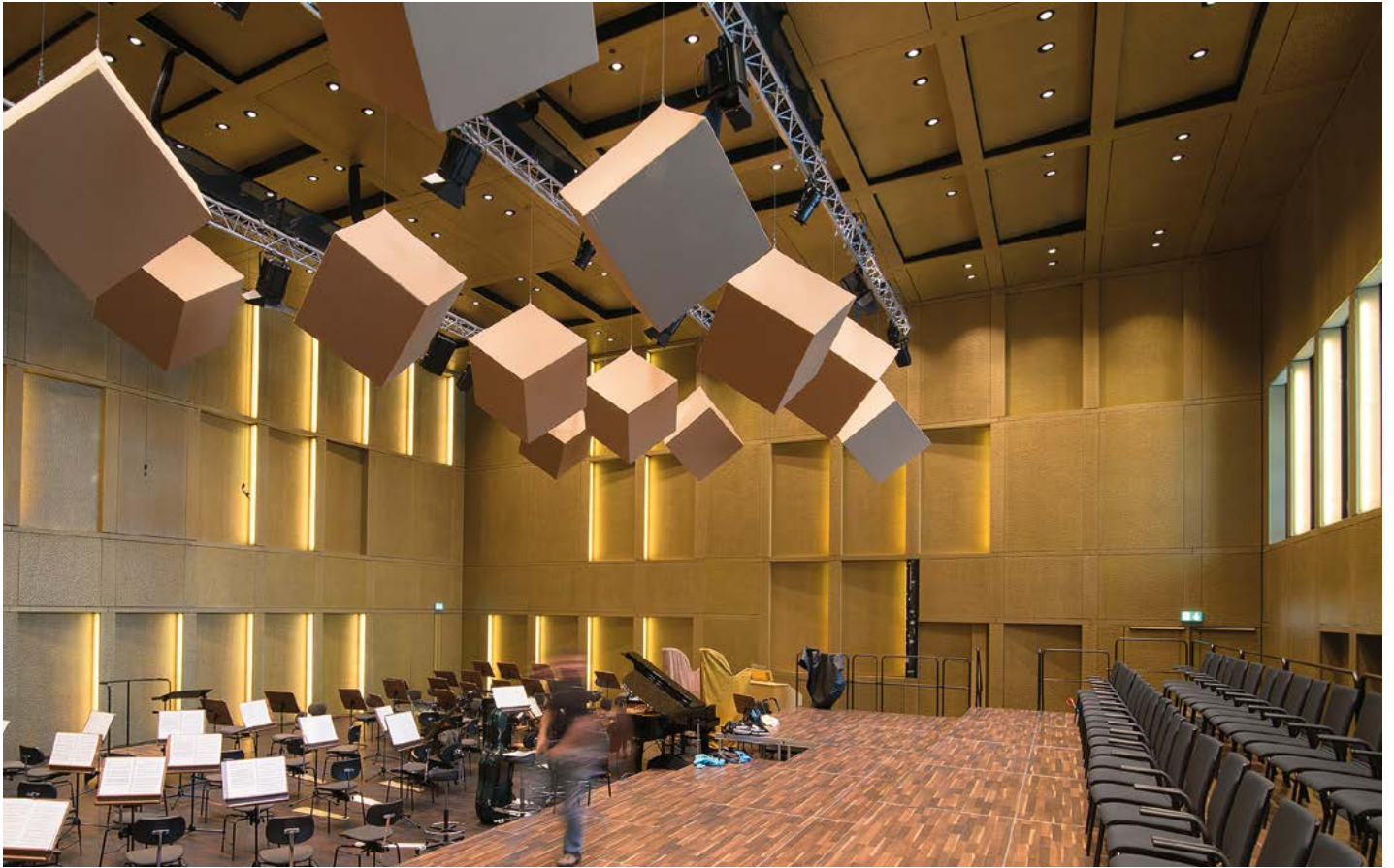
↑ **Musiktheater Linz | AT**
Architecture: Terry Pawson Architects, London | GB
Lighting design and electrical consultants: Wagner & Partner, Linz | AT
Lighting solution: LINARIA, SLOTLIGHT II, ARCOS, PANOS, MELLOW LIGHT V,
ELEVO, ECOOS, PAN, SCONFINE Sfera, VALUEA, LUXMATE LITENET

↓ **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

iF product design award 2009

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
Distribution characteristics		
▣ Open light distribution	▪	▪
Mounting		
Recessed	▪	▪
Surface-mounted	▪	▪
Pendant	▪	▪
Diffuser		
Diffuse enclosure	▪	▪
Dimensions batten luminaire		
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	▪	▪
LED		
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	▪	▪
Accessories		
Ceiling box oval, grey/white	▪	▪
Cord suspension	▪	▪
Transparent feeder cable	▪	▪

XPO

LED shelf lighting system

XPO is an efficient alternative to wide-area illumination and provides perfectly dosed amounts of light for each shelf bay, directly illuminating the products. Combined with a special narrow-beam optic, this brilliant LED light sets an extremely wide variety of products centre-stage superbly. The authenticity of products is accentuated by different colour temperatures. As LED light contains no infra-red or ultraviolet radiation, even delicate products can be gently lit and groceries stay fresher longer. There is also another economic benefit: the XPO's excellent efficiency of up to 79 lm/W and long service life of 50 000 hours (luminous flux never drops below 80 % of its original value!) ensure that XPO is a lighting solution with a small carbon footprint.

zumtobel.com/xpo

XPO shelf lighting
System overview
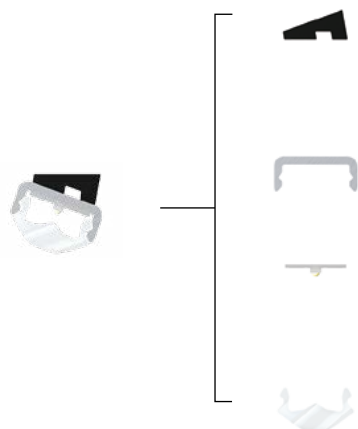
Magnetic holder
The magnetic strip provides both a fixed and variable connection between shelves and luminaire units. Designed as a wedge with a 20° angle, it directs light straight onto the first row of products.

Luminaire unit made of aluminium
The slender heat sink provides the basis for the LED luminaire's excellent thermal management which ensures a long service life.

LED board
XPO's great efficiency of 79 lm/W* and long service life of 50,000 hours (luminous flux decreases to no less than 80% of its original value) cut the costs of energy and maintenance.

Narrow-beam optic
Its optic, specially developed for shelves, focuses light to provide richly accented lighting. This achieves illuminance levels up to 1000 lx on the front edge of the merchandise (maximum distance from shelf below: 400 mm).

In conformity with standards
Suitable for standard supermarket shelf lengths of 600 mm, 1000 mm and 1200 mm, XPO ensures maximum levels of flexibility in all three lengths.
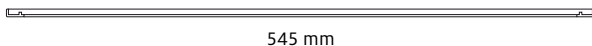
545 mm

923 mm

1112 mm

* Depending on light colour,
  without power loss in converter

Easily mounted on: metal   metal mesh   wood   glass

	XPO stableWhite
Distribution characteristics	
◤ Narrow-beam shelf optic with 20° angle	■
Luminaire length	
545 mm	■
923 mm	■
1112 mm	■
Cable length (black or white)	
500 mm	■
700 mm	■
Colour temperature	
2700 K, warm white for bread and baked goods	■
3000 K, warm white	■
4000 K, intermediate white	■
5000 K, cool white	■
Power supply kit	
Hub for 1–4 XPO batten luminaires, incl. converter 60 W IP20	■
Hub for 4–6 XPO batten luminaires, incl. converter 96 W IP20	■
Busbar for 1–4 XPO batten luminaires, incl. converter 60 W IP20	■
Busbar for 4–7 XPO batten luminaires, incl. converter 96 W IP20	■
Mounting	
Metal (standard)	■
Metal mesh (extra installation kit)	■
Wood (extra installation kit)	■
Glass (extra installation kit)	■
Accessories	
Luminaire extension 500 mm (black or white)	■
Luminaire extension 1000 mm (black or white)	■

High-bay luminaires

190   **CRAFT**

← **Carraro Headquarters, Campodarsego (Padua) | IT**
Electrical planner and fitter: EnergEtica, Carraro SpA,
Campodarsego (Padova) | IT
Lighting solution: CRAFT, LUXMATE DIMLITE

↑ **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

Never before has a luminaire been so powerful, so compact and so efficient

The CRAFT high-bay LED luminaire is a real success story, thanks in no small part to a specific design, rectangular light distribution and excellent thermal management. CRAFT S, M and CRAFT L models are even ready to cope with future demands, thanks to versions providing higher light output and sophisticated technical features that make it even easier to handle the luminaire. With luminaire efficiency reaching up to 154 lm/W, luminous flux levels now range from 7500 lm to 34 000 lm, helping CRAFT solve any lighting task with optimum precision. An individual suspension assembly, a 90° TECTON adapter and a dedicated CRAFT TEC model, which already includes a built-in TECTON adapter, provide additional scope for installation.

To achieve high-precision light direction, each LED has been assigned a separate lens, which means that long shelves can now be illuminated as efficiently as spacious bays.

Additional applications, for instance in projecting roofs of petrol stations or in sports facilities, are opened up by the special **mounting frame** for the CRAFT high-bay LED luminaire. Fitting the CRAFT S, CRAFT M and CRAFT L design sizes in each case, trend-setting lighting solutions can be configured that feature an attractive design and high functionality.

Design : Stephen Philips, Arup

zumtobel.com/craft

As awarded by The Chicago Athenaeum:
Museum of Architecture and Design
and The European Centre for Architecture
Art Design and Urban Studies.

Customised lighting solution
CRAFT offers application-oriented versatility

CRAFT S PMMA

CRAFT PMMA

CRAFT HT (high-temperature)

CRAFT S TECTON

CRAFT PC

CRAFT FI (Food Industry)

CRAFT TECTON

CRAFT SENS (presence detector)

CRAFT M (mounting frame)

CRAFT L (mounting frame)

	CRAFT PMMA cover	CRAFT PC cover	CRAFT SENS PC cover	CRAFT HT PC cover	CRAFT FI PC cover
Distribution characteristics					
Narrow-beam	■	■	■	■	■
Wide-beam	■	■	■	■	■
Dimensions					
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)	■	■	■	■	■
Colour					
White	■	■	■	■	■
Silver	■	■	■	■	■
Black	■*				
Installation					
Ceiling installation (mounting frame)	■	■		■	
Surface-mounted (ceiling)	■	■	■	■	■
Surface-mounted (wall)	■	■	■	■	■
Cord suspension	■	■	■	■	■
Chain suspension	■	■	■	■	■
TECTON trunking	■	■			
ZX2	■*				
LED					
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)	■	■	■		■
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)	■	■	■		
34 000 lm / neutral white (4000 K, Ra 80)	■	■	■		
34 000 lm / cool white (6500 K, Ra 70)	■	■	■		
Application options					
Areas exposed to chemical substances	■				
Sports facilities		■			
Areas subject to increased temperatures				■	
Food industry					■
Logistics	■	■	■		

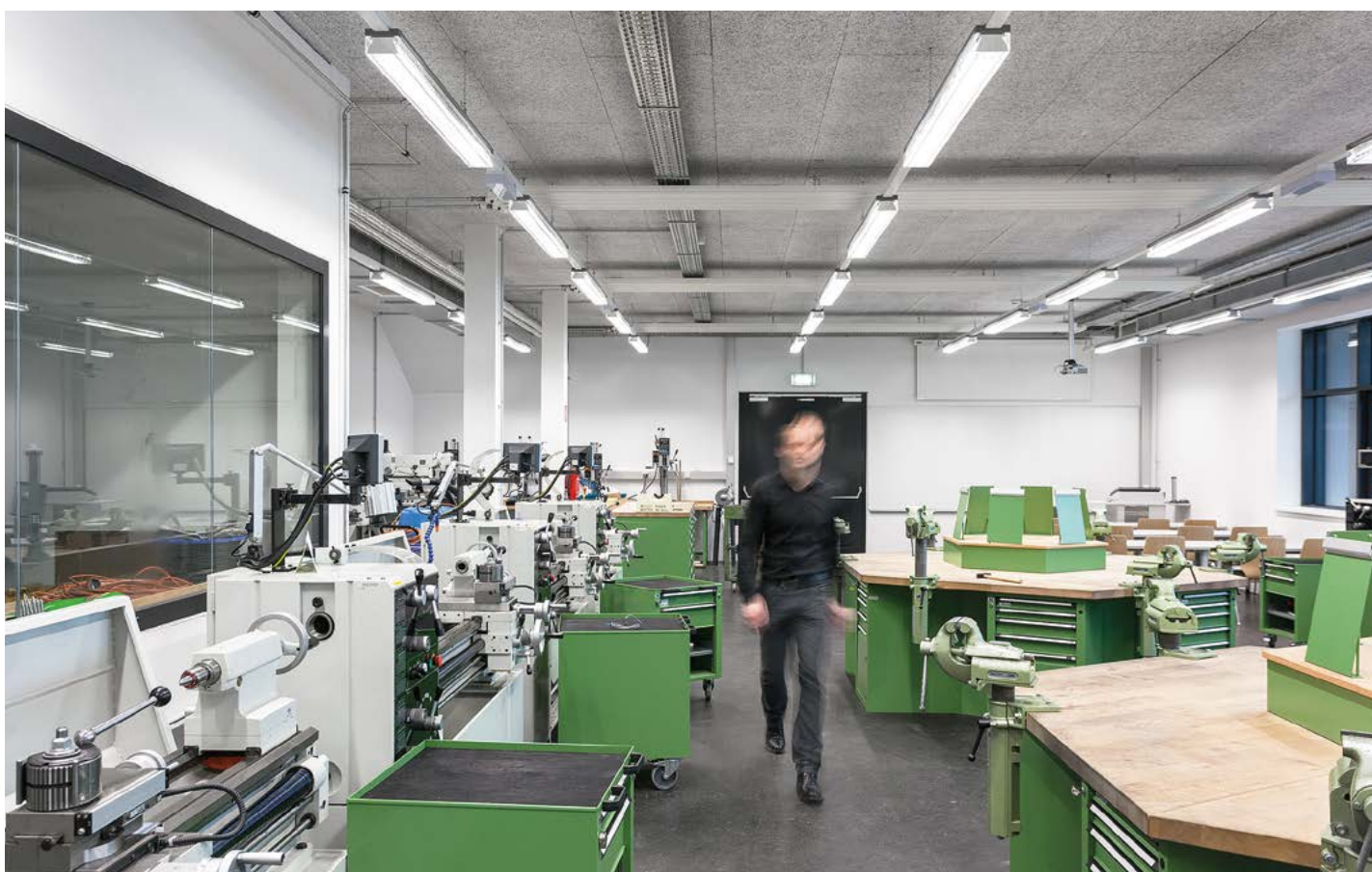* Size S

Luminaires with extra protection

← **Al Bahar Towers, Abu Dhabi | AE**
Architecture: Aedas, Abu Dhabi
Lighting design: Arup Gulf Ltd, Abu Dhabi | AE
Lighting solution: SCUBA, SLOTLIGHT II,
PANOS infinity, LEDOS III, CLEAN

↑ **Interspar Unterwart | AT**
  Architecture: Studio of architect Dipl. Ing. Bernhard Bügelmayer ZT GmbH,
  Dornbirn | AT
  Lighting solution: PERLUCE, TECTON LED, VIVO LED, CARDAN LED,
  LINCOR LED, DIAMO LED, PYLAS LED

↓ **WIFI test and training centre, Klagenfurt | AT**
  Architecture: Arch. D.I. Edgar Egger, Klagenfurt | AT
  Lighting solution: PERLUCE, PANOS infinity; PANOS, SLOTLIGHT,
  CLARIS, LUXMATE EMOTION

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 pro-
tection and simpler maintenance.
PERLUCE is a closed lighting system that sets
new standards in terms of everyday usability
and combines this with a variety of optics,
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

zumtobel.com/perluce

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
Distribution characteristics				
Direct/indirect *	■	■	■	■
Protection type				
IP50	■	■	■	■
IP54		■	■	
Installation				
Surface-mounted	■	■	■	■
Trunking (TECTON)	■	■		
Trunking (ZX)	■	■		
Dimensions				
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				■
LED				
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			■	
Accessories				
Adapter (TECTON)	■	■		

* ceiling illuminated

↑ **Athénée de Luxembourg, Luxemburg | LU**
  Architecture: Bruck + Weckerle Architectes, Luxemburg | LU
  Lighting solution: CHIARO II FTR circular luminaire, TECTON, PANOS,
  CRAYON, PURESIGN, ONLITE RESCLITE, ONLITE local

↓ **CITTI-PARK Parkhaus, Flensburg | DE**
  Architecture and lighting design: AX5 architekten bda, Kiel | DE
  Lighting solution: CHIARO II LED

CHIARO II

All-round, cheery light distribution

CHIARO II is a direct/indirect luminaire with a polycarbonate housing which outclasses conventional moisture-proof luminaires: it delivers an all-round, friendly lighting atmosphere that customers and employees regard as a hallmark of safety. Photometrically optimised for lighting car parks and industrial buildings, CHIARO II is a linear luminaire with a visually slimline design that demonstrates its abilities to full effect, even in spaces that have low ceilings or as a circular luminaire.

Thanks to advanced LED technology, the CHIARO II LED linear luminaire and the CHIARO II FTR LED circular luminaire feature the same quality and functions as conventional moisture-proof luminaires with fluorescent lamps. Their extra benefits include the luminaires' general dimmability and significantly lower maintenance and electricity costs. The primary optic inside made of high-grade PMMA materials ensures uniform illumination and enhances the luminaires' homogeneous look.

zumtobel.com/chiaro

CHIARO II
Moisture-proof diffuser luminaires

CHIARO II LED
linear

CHIARO II FTR 390 LED
circular

CHIARO II FTR 680 LED
circular

	CHIARO II LED linear	CHIARO II FTR LED circular
Distribution characteristics		
Indirect/direct	▪	▪
Protection type		
IP65	▪	▪
Installation		
Surface-mounted	▪	▪
Suspension	▪	
Trunking	▪	
Optics		
Transparent diffuser luminaire	▪	
Dimensions		
1600 x 94 x 118 mm	▪	
Ø 390 mm H 125 mm		▪
Ø 680 mm H 125 mm		▪
LED		
2800 lm / 3000 K	▪	▪
3000 lm / 4000 K	▪	▪
3200 lm / 6500 K	▪	▪
4600 lm / 4000 K	▪	
5000 lm / 6500 K	▪	
5200 lm / 3000 K	▪	▪
5600 lm / 4000 K	▪	▪
5800 lm / 6500 K	▪	▪
6000 lm / 4000 K	▪	
6400 lm / 6500 K	▪	
7000 lm / 4000 K	▪	
7200 lm / 6500 K	▪	
Accessories		
V2A special-steel fastener	▪	
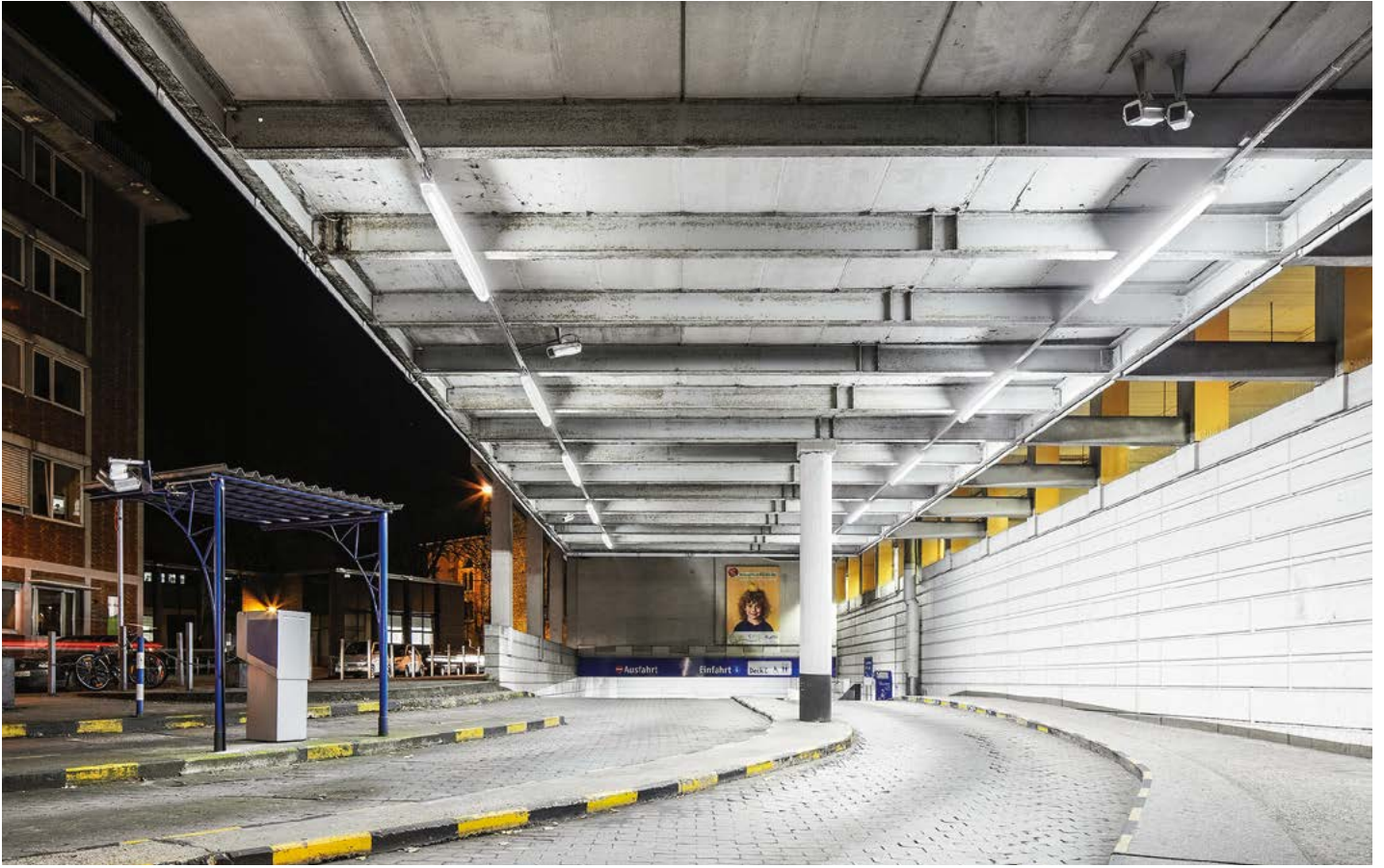
↑ **APAG car park, Aachen | DE**
  Lighting solution: SCUBA LED IP65

↓ **J. Hofstätter winery, Tramin | IT**
  Lighting solution: SCUBA, PANOS infinity, ONLITE central
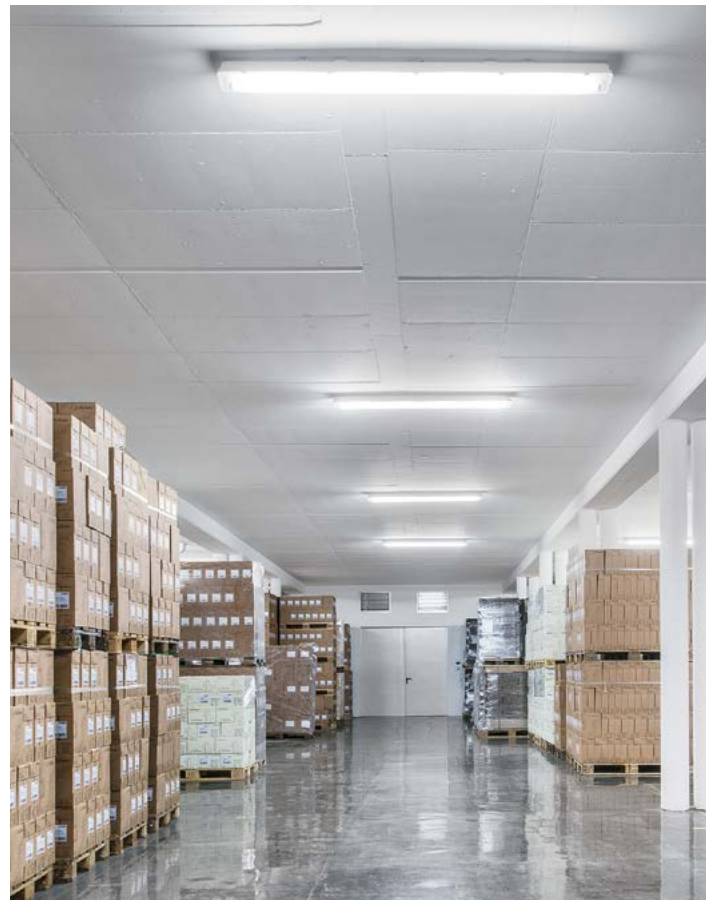
SCUBA

A luminaire that puts up with a lot and delivers even more

Its clever mix of features makes SCUBA the new innovation leader in moisture-proof luminaires. Not only are installation, maintenance and cleaning child's play – SCUBA always provides perfect lighting conditions, even under the most demanding environmental conditions, and also boasts reliable protection against external influences and chemicals.

Durable, virtually maintenance-free and efficient: high-quality LED luminaires are a reliable lighting tool for keeping operating costs sustainably low. Aspects of economy have been combined with aesthetic styling, performance and toughness for SCUBA LED. The consistent look of the luminaire, which is enshrined in a primary optic, is distinctive of this.

SCUBA luminaires feature outstanding long-term sealing performance. A dependable combination of sealing rim and all-round gasket prevents dripping water from penetrating inside the luminaire. Innovative material compositions ensure that seals remains durably elastic and dimensionally stable. A special expansion joint compensates for the different coefficients of expansion of various combinations of materials used in the housings and diffusers, thereby ensuring IP65 protection for all models.

Design: Massimo Iosa Ghini

SCUBA
Moisture-proof diffuser luminaires IP65

Surface-mounted

Mounted directly on the ceiling
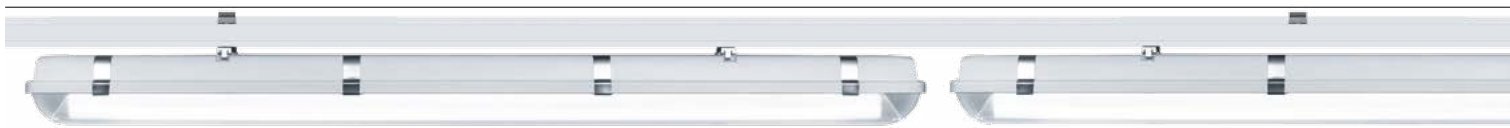
Installed on the ceiling using trunking

	SCUBA LED	SCUBA LED XT*
Distribution characteristics		
◣ Wide-angle	■	■
Protection type		
IP65	■	■
Installation		
Surface-mounted	■	■
Suspension	■	■
Trunking	■	■
Dimensions		
1594 x 112 x 112 mm	■	■
LED		
4400 lm / 4000 K	■	■
4600 lm / 6500 K	■	■
5600 lm / 4000 K	■	
6000 lm / 6500 K	■	
6600 lm / 4000 K	■	
6800 lm / 6500 K	■	

* XT: suitable for ambient temperatures between -35 °C and +50 °C

Pendant

Chain suspension

Chain suspension plus trunking

↑ **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

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. PMMS acrylic glass inserted into the high-grade anodised aluminium frame ensures IP54 protection (IP20 on the side facing the ceiling).

zumtobel.com/clean

iF product design award 2006

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
Distribution characteristics					
Wide-angle	■	■	■	■	■
Installation					
Surface-mounted	■				
Recessed		■	■	■	■
Mounting frame with flange	■				
Optics					
MPO	■	■	■		
Opal				■	■
Dimensions					
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					■
LED					
3800 lm – 4800 lm / 3000 K / 4000 K / Ra 80 / Ra 90		■	■		
5000 lm – 6200 lm / 3000 K / 4000 K / Ra 80 / Ra 90		■	■		
8000 lm – 11000 lm / 4000 K / Ra 80 / Ra 90	■				
4600 lm / 3000 K / Ra 90				■	■
4800 lm / 4000 K / Ra 90				■	■
5000 lm / 3000 K / 4000 K / Ra 80 / Ra 90				■	■
5200 lm / 3000 K / 4000 K / Ra 80 / Ra 90				■	■
5400 lm / 3000 K / 4000 K / Ra 80 / Ra 90				■	■
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

Impressive diversity
With an extensive selection of optics and sizes, NIGHTSIGHT precisely shapes light on all levels. A series of different application areas can therefore benefit from the creative freedom that helps provide an individual space with a strong identity.

NIGHTSIGHT Area Light with softGlow-optics
Excellent visual comfort for squares, pathways and residential streets is achieved by carefully controlling the direction of the light and by minimising the luminance contrast between the LED light points and the surrounding grid. An additional vertical lighting component enhances facial recognition and strengthens the feeling of safety. The softGlow optics support improved visual comfort. When a person enters the lit area, their eyes can easily adjust to the brightness and the sense of glare is reduced.

NIGHTSIGHT Projection with darkBeam-optics
Façades and architectural details that are showcased with light can only be truly appreciated when the luminaires themselves do not predominate. The LED optics are deliberately recessed into a matt black grid to limit visibility of the light source from the side and thereby reduce glare caused by stray light.

NIGHTSIGHT

NIGHTSIGHT delivers urban lighting on a human scale

Exterior light has the potential to fulfil essential functions and to stimulate human emotions. An atmosphere that enhances spatial orientation and increases social interaction is created when vertical and horizontal levels of light are intertwined.
The NIGHTSIGHT LED outdoor luminaire range makes this possible through a subtle blend of multi-zone precision and the integration of various structural shapes, sizes, installation options and colour temperatures in a modular system. The result is a lighting solution with a consistent design language in all areas – one that ensures exceptional visual comfort, a strong feeling of safety and genuine wellbeing.

Design: Ben van Berkel, UNStudio

reddot design award
winner 2017

iF DESIGN AWARD 2017

NIGHTSIGHT
Overview

NIGHTSIGHT Projection

NIGHTSIGHT Projection Wall 2/2

NIGHTSIGHT Projection Wall 4/4

NIGHTSIGHT Projection Wall 2/8

NIGHTSIGHT Projection Wall 4/8

NIGHTSIGHT Area Light

NIGHTSIGHT Area Light Wall 2/8

NIGHTSIGHT Area Light Pole 2/8
with adapter wall installation

NIGHTSIGHT Area Light Wall 4/8

NIGHTSIGHT Area Light Pole 4/8
with adapter pole installation

	NIGHTSIGHT Projection 2/2	NIGHTSIGHT Projection 4/4	NIGHTSIGHT Projection 2/8	NIGHTSIGHT Projection 4/8	NIGHTSIGHT Area Light 2/8	NIGHTSIGHT Area Light 4/8
Distribution characteristics						
Extremely narrow beam	■	■	■	■		
Narrow beam	■	■	■	■		
Moderately narrow beam	■	■	■	■		
Wide beam	■	■	■	■		
Very wide angle	■	■	■	■		
Oval beam	■	■	■	■		
Area Flood without back light					■	
Area Flood with back light					■	
Street Narrow without back light					■	
Street Narrow with back light					■	
Street Deep without back light						■
Street Deep with back light						■
Dimensions						
119 mm x 159 mm x 78 mm (Wall)	■					
222 mm x 292 mm x 118 mm (Wall)		■				
369 mm x 216 mm x 118 mm (Wall)			■		■	
369 mm x 292 mm x 118 mm (Wall)				■		■
369 mm x 452 mm x 118 mm (Pole)					■	
369 mm x 528 mm x 118 mm (Pole)						■
Luminous flux						
900 lm Projection	■					
3200 lm Projection		■	■			
6400 lm Projection				■		
2400 lm Area Light					■	
4800 lm Area Light						■
1600 lm Area Light					■	
3200 lm Area Light						■
Colour temperature						
3000 K	■	■	■	■	■	■
4000 K	■	■	■	■	■	■
Optics						
darkBeam	■	■	■	■		
softGlow					■	■
Converter and control						
Integrated converter		■	■	■	■	■
Without converter	■					
DALI		■	■	■	■	■
switchDIM		■	■	■		
RF communication					■	■
Installation						
Can be rotated	■	■	■	■		
Fixed					■	■
Pole – top mounting (adapter required)					■	■
Pole – side mounting (adapter may be required)	■	■	■	■	■	■
Pole adapter						
Round pole adapter	■	■	■	■	■	■
Pole side mounting adapter, 1-arm spigot 60 mm					■	■
Pole side mounting adapter, 2-arm spigot 60 mm					■	■
Pole side mounting adapter, 1-arm spigot 76 mm					■	■
Pole side mounting adapter, 2-arm spigot 76 mm					■	■
Side mounting adapter, round pole					■	■
Side mounting adapter, square					■	■
Accessories						
Spacer plate	■	■	■	■	■	■
Ground spike	■	■	■	■		
Converter set	■					

↑ **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.

reddot award 2016 winner

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.
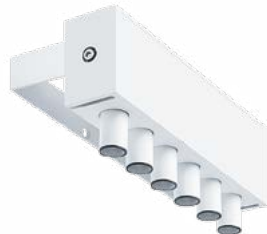
SUPERSYSTEM outdoor
Fixed 6 tubes module

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
Distribution characteristics			
Narrow		▪	▪
Medium	▪		
Wide	▪		▪
Elliptical		▪	
Swivelling		▪	▪
Special combination of tubes/optics	▪		
Colour			
Charcoal	▪	▪	▪
White		▪	
Installation			
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)			▪
Dimensions			
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		▪	
LED			
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		▪	▪
Accessories			
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.

zumtobel.com/pylas

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
Distribution characteristics				
▮▮ Superspot	▪	▪	▪	▪
◩ Flood	▪	▪	▪	▪
Pivoting range				
approx. -40° to +90°	▪			
approx. -21° to +201°		▪		
approx. -14° to +194°			▪	
approx. -19° to +199°				▪
Protection type/protection class				
IP66, protection class I, LED white (AC/DC 230 V)	▪	▪	▪	▪
IP68, protection class III, RGB (DC 24 V)	▪	▪	▪	▪
LED				
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)				▪
Accessories				
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	▪	▪		

↑ **Musiktheater, Linz | AT**
Architecture: Terry Pawson Architects, London | UK
Lighting design: Wagner & Partner, Linz | AT
Lighting solution: ELEVO, PAN, SCONFINE, PANOS, VALUEA, SLOTLIGHT,
MELLOW LIGHT V, ECOOS, ARCOS, LITENET

↓ **Rookery Building, Chicago | US**
Architecture: Burnham & Root, Chicago | US
Lighting design: Office for Visual Interaction, Inc. (OVI), New York | US
Lighting solution: ELEVO
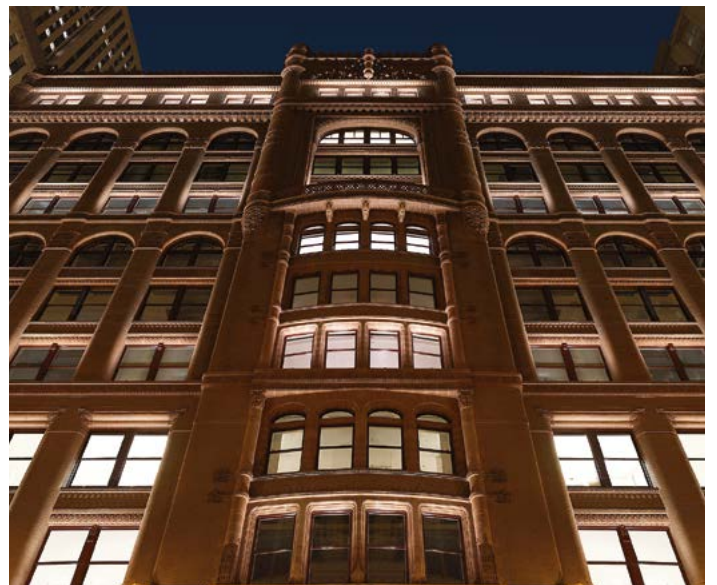
ELEVO

Accents for near and far

Precise and flexible: the flat LED spotlight is less than 3.5 cm high but handles an extremely wide range of lighting tasks brilliantly. It emphasises façade elements, relief slabs and projecting features, backlights surfaces uniformly and sets tall columns and portals centre stage with equally striking effectiveness. ELEVO combines various light distribution patterns with the option of selecting either warm white or cool white light. In this way, both historic redbrick façades and contemporary metal façades can be illuminated authentically or set centre stage using coloured and dynamic lighting in order to catch people's attention.

With its compact dimensions, the LED spotlight is primarily suitable for accent lighting on façades, for surfaces or implementation of media façades indoors and outdoors. Available with elliptical, narrow or wide beam angles or as a superspot, the luminaire ensures the targeted direction of light, and is able to produce lighting effects that are extremely finely tuned, depending on the lighting task at hand. A linear wallwasher that is available in lengths of 400 mm, 800 mm and 1200 mm, ELEVO Slimline is perfectly suited for illuminating large façades and surfaces. Just as flexible as ELEVO's application areas are the options to control it: either via a DMX protocol or a USB service tool, or ELEVO can also be dimmed using a separate PWM control line. The built-in temperature guard ensures a long service life of the IP66-rated luminaires.

zumtobel.com/elevo

iF
product
design award

2013

ELEVO
Surface-mounted LED spotlights

ELEVO P2

ELEVO P4

ELEVO Slimline

	ELEVO P2 MONO	ELEVO P2 RGB	ELEVO P4 MONO	ELEVO P4 RGB	ELEVO Slimline MONO	ELEVO Slimline RGB
	spotlight	spotlight	spotlight	spotlight	wallwasher	wallwasher
Distribution characteristics						
Superspot	■					
Narrow	■	■	■	■		
Flood	■	■	■	■		
Elliptical	■	■	■	■	■	■
Protection type						
IP66	■	■	■	■	■	■
Dimensions						
62 x 54 x 35 mm						
150 x 71 x 35 mm	■	■				
207 x 71 x 35 mm			■	■		
390 x 40 x 60 mm					■	■
790 x 40 x 60 mm					■	■
1190 x 40 x 60 mm					■	■
LED						
1 x 4 W						
2 x 1.5 W	■					
2 x 4.5 W	■	■				
4 x 4.5 W			■	■	■	■
8 x 4.5 W					■	■
12 x 4.5 W					■	■
Light colours						
3000 K	■		■		■	
6000 K	■		■		■	
RGB		■		■		■
Accessories						
Supply lead	■	■	■	■	■	■
Extension cable	■	■	■	■	■	■
Power supply PWM 150 W	■		■		■	
Power supply DMX 150 W		■		■		■
Converter 150 W	■		■		■	
Socket	■	■	■	■	■	■
Socket and plug/socket set	■	■	■	■	■	■
ASTO DMX VC USB		■		■		■
ELEVO COS WIB Adapter ASTO Set		■		■		■
ASTO Set		■		■		■
Splitter DMX VC		■		■		■
Fixing component H (wall)	■	■	■	■	■	■
Fixing component L (floor/ceiling)	■	■	■	■	■	■

APHRODITE lighting scenes
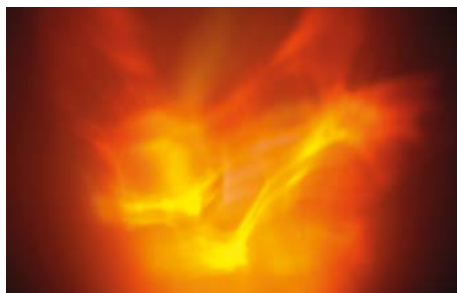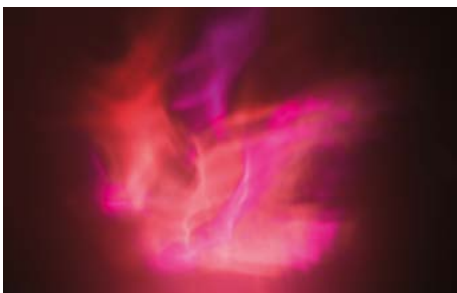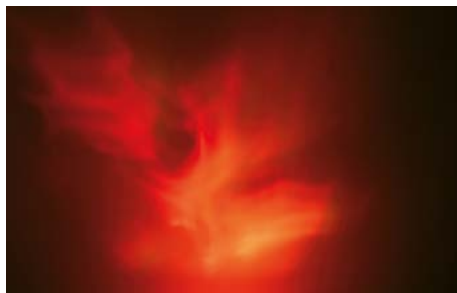
APHRODITE

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

zumtobel.com/aphrodite

↑ **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, ONLITE RESCLITE, ONLITE ECOSIGN,
ONLITE ERGOSIGN, ONLITE 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 illluminating 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
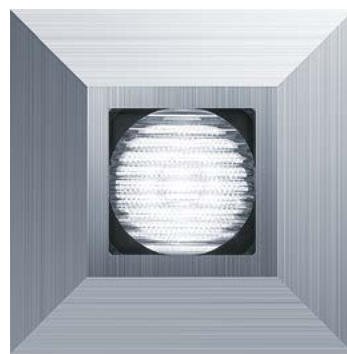
LEDOS III

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.

zumtobel.com/ledos

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
Distribution characteristics						
Uplight superspot					■	■
Uplight spot			■	■		
Uplight flood	■	■	■	■	■	■
Asymmetric			■	■		
Swivelling					■	■
Pivoting range						
approx. ±15°					■	■
Protection type/protection class						
IP67, protection class III	■	■	■	■	■	■
Optics						
Frosted protective cover, flat	■	■	■	■	■	■
Frosted protective cover, convex	■	■				
Spot lens optic			■	■		
Textured asymmetric lens optic			■	■		
Textured flood lens optic			■	■	■	■
Superspot lens optic					■	■
LED						
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)					■	■
Accessories						
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.

zumtobel.com/paso2

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
Distribution characteristics				
Uplight superspot		■		
Uplight spot	■		■	■
Uplight flood				
Swivelling	■	■		
Cover glass (optionally also anti-slip glass)				
Partially frosted glass	■	■		
Frosted glass			■	■
Recessed depth				
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				
Cover frame				
Cover (overlapping)	■	■	■	■
Cover (flush)	■	■	■	■
Without cover (flush)	■	■	■	■
LED				
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				
Accessories				
Installation kit for wooden and cavity floors	■	■	■	■
Installation kit for downlight and wall-mounting positions	■	■	■	■
Concrete casting surround	■	■	■	■

		Recessed depth 100 mm	Recessed depth 100 mm		
PASO II D/Q 190 Soft LED	**PASO II D/Q 190** Soft LED RGB	**PASO II D/Q 190** Power LED	**PASO II D/Q 190** Power LED RGB	**PASO II D 260** Power LED	**PASO II D 260** Power LED RGB
		■		■	
■	■				
			■		■
		■	■	■	■
		■	■	■	■
■	■				
■	■				
		■	■		
				■	■
■	■	■	■	■	■
■	■	■	■	■	■
■					
	■				
		■			
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■	■	■	■	■	■
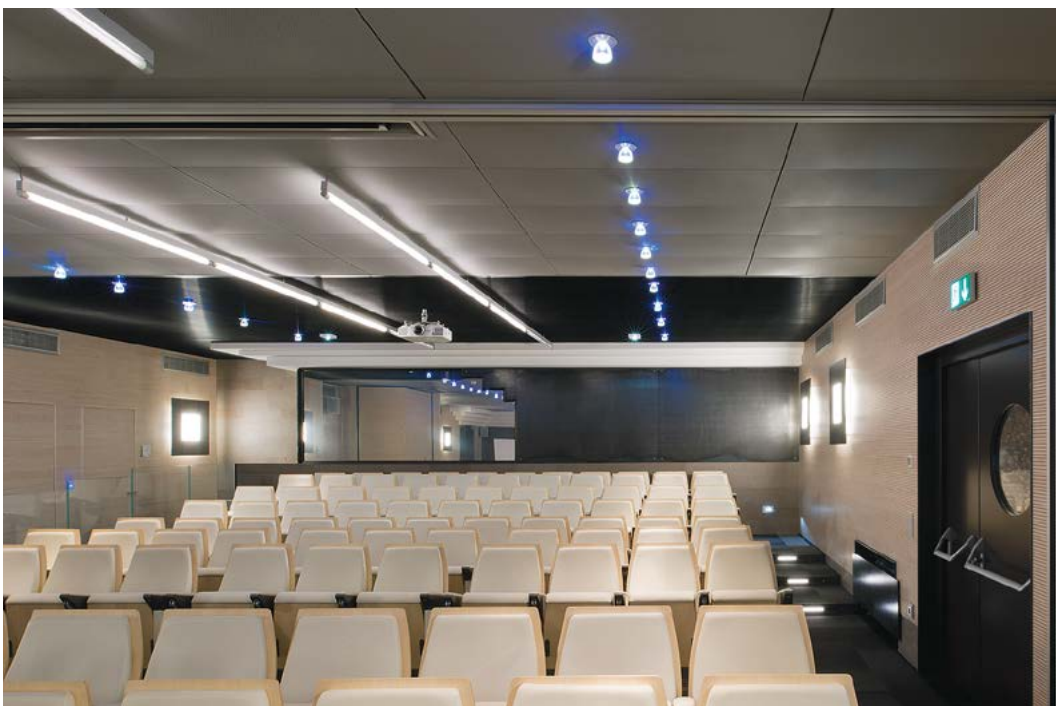
↑
↓ **Association of Trentino's municipalities, Trento | IT**
Architecture: Arch. Giovanni Modena, Studio associato Modena De Concini, Trento | IT
Lighting design: SIRA soc.coop.r.l., Rovereto (TN) | IT
Lighting solution: ORILED, AERO, ONLITE RESCLITE, ONLITE COMSIGN, ONLITE PURESIGN

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.

zumtobel.com/oriled

Lighting management

← **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 PROFESSIONAL
lighting management system

App concept
for a new dimension of
flexibility.

Simplicity

Future-proof

Wizards
Wizard-guided commissioning
instead of time-consuming
training.

Mobile interaction
All devices featuring a web browser
can communicate with LITECOM.

Cost reduction

Convenience / well-being
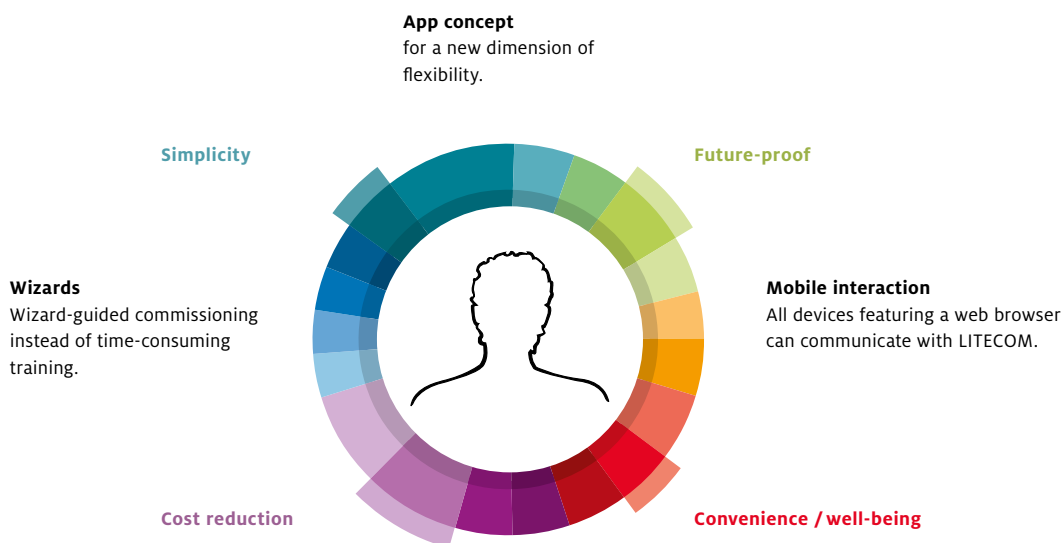
LITECOM

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.

zumtobel.com/litecom

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,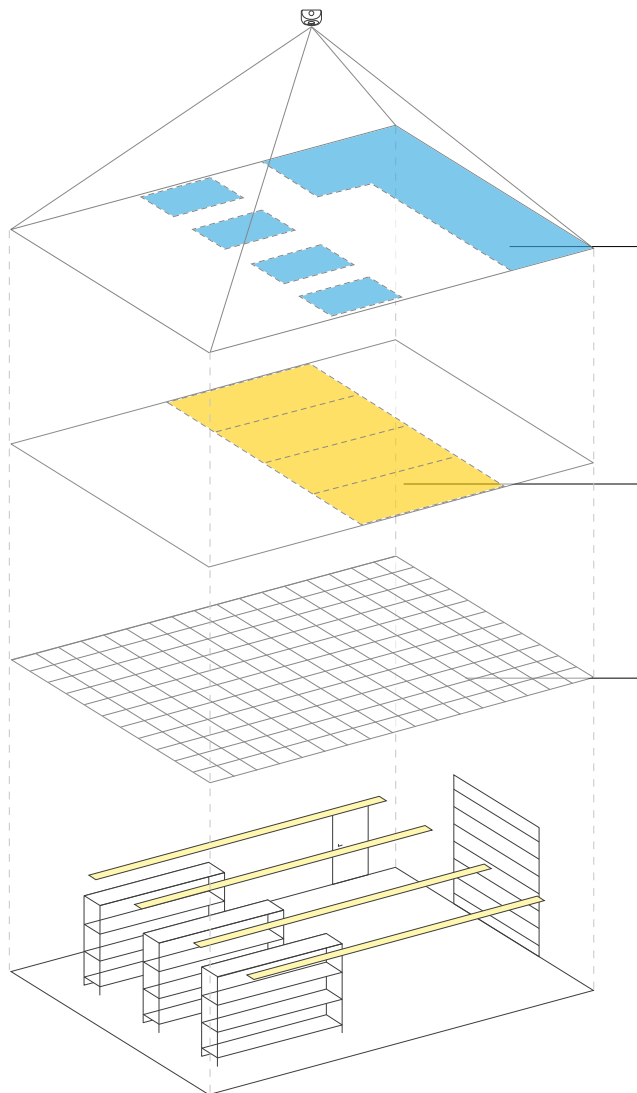 visual contact with the outside world is maintained. Visible and noticeable daylight variations increase productivity and enhance the employees' loyalty towards the company. At the same time, LITECOM improves visual comfort, as there will be no glare even when the sun is low.

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.

FUTURE APPS
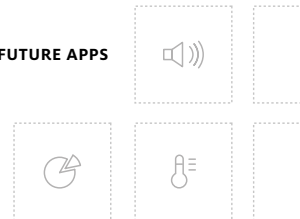
SEQUENCE APP

APP FOR DAYLIGHT-BASED CONTROL
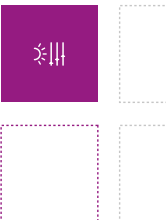
Every device fitted with a Web browser can be used as a LITECOM control unit. The user interface is displayed after one click.

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.
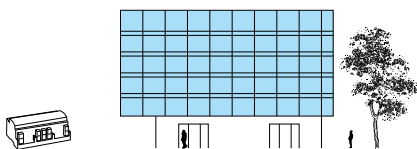
LITECOM

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.
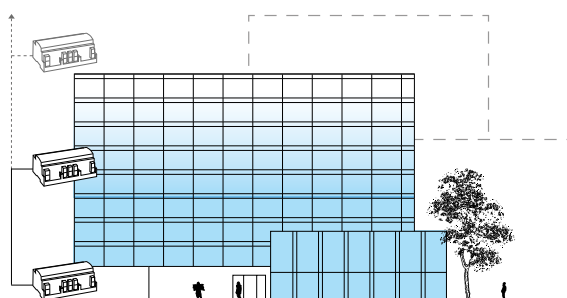
LITECOM infinity

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 in-
finity is fluid. The control centre of both
systems is the LITECOM CCD, which respec-
tively 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 pre-
sented 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.

zumtobel.com/litecom

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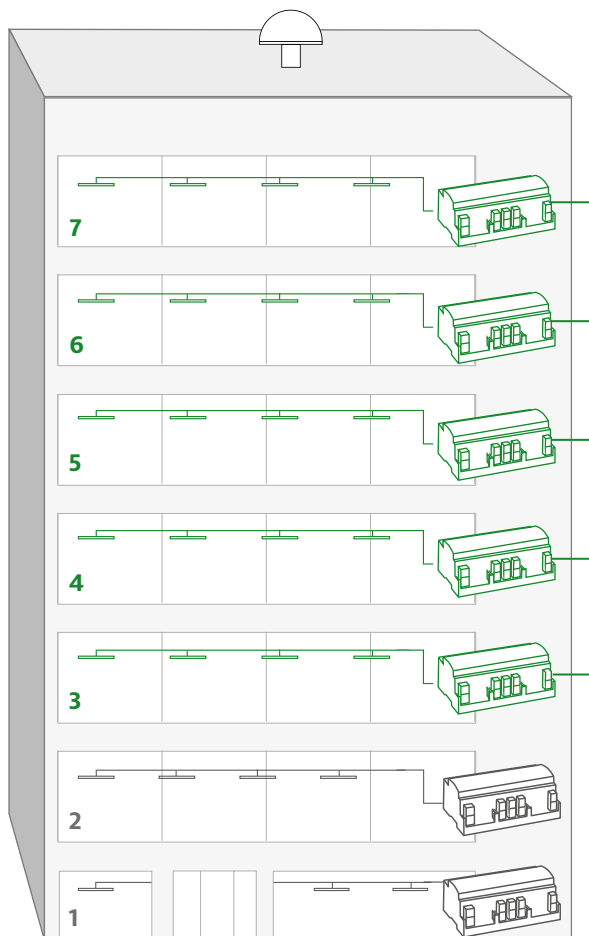
LITECOM infinity
Office: infinity basic licence, daylight-based control with daylight measuring head, automatic blind control, shows, special luminaires

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.

SPECIAL LUMINAIRES

CONDITIONAL SCENE CALL

BASIC FUNCTIONS

SHOWS

PRESENCE-BASED CONTROL

INFINITY
BASIC LICENCE

SEQUENCE

DAYLIGHT-LINKED
BLINDS CONTROL

DAYLIGHT-BASED
CONTROL
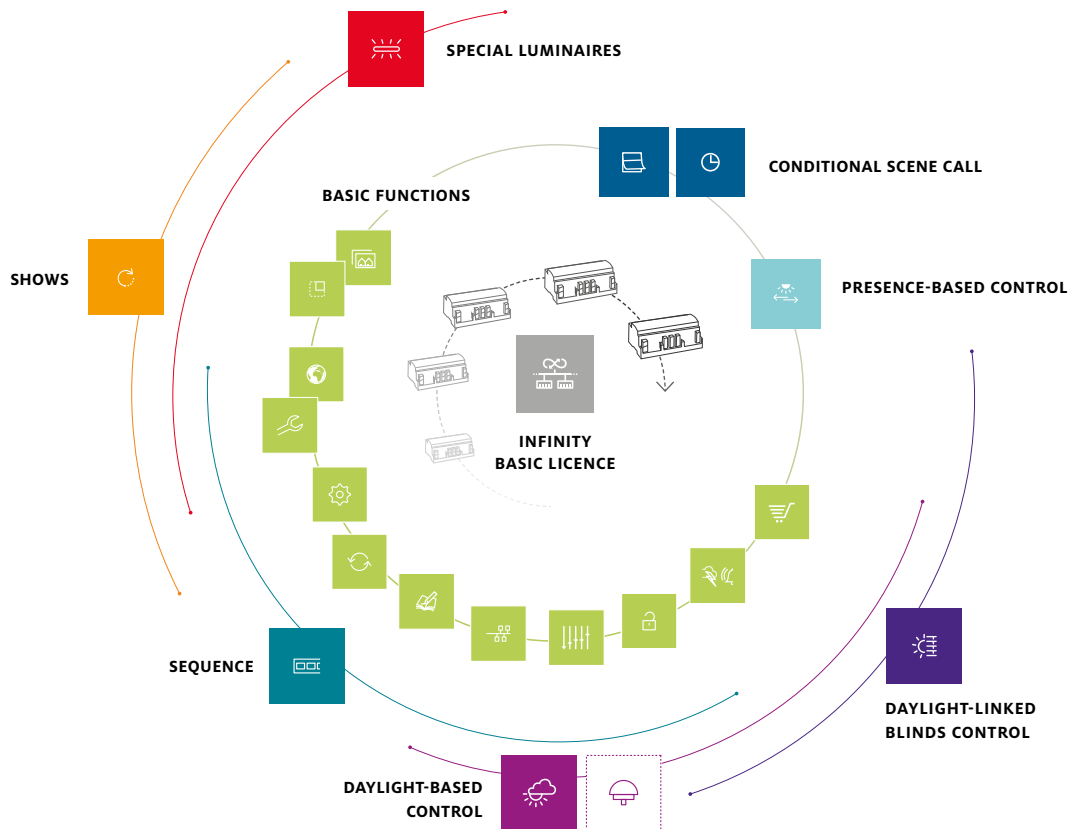
Sensors that adapt perfectly to the room layout

Movement zones
ATIVO detects presence in up to five movement zones optimising the light in each respective zone in the desired way.

Light measurement zones
The illuminance can be controlled to individually define values in five constant light zones that are independent of the movement zones.

Grid consisting of 17 x 11 cells
The customer-specific definition of all zones is performed flexibly by selecting any number of cells and can be changed at any time.

ATIVO

Multisensor for detecting light and movement in rooms with high ceilings

The ATIVO multisensor has been designed especially for detecting light and the presence or movement of people or vehicles, such as forklifts, in rooms with high ceilings. As compared to conventional PIR and radar sensors, the contrast sensor system features intelligent detection of objects and not only operates with significantly higher precision but is also faster, and therefore considerably less prone to errors. Applications of the ATIVO sensor include sports facilities and multi-purpose halls, industrial, manufacturing and production bays through to high-bay storage facilities and logistics centres. The sensor accurately monitors any walking or driving motion with ceiling heights between 6 m and 20 m. The ATIVO multisensor is ideal for application-specific solutions in which high energy efficiency is of major importance: to this end, up to five zones can be individually defined by the user for motion detection; in addition, five brightness levels can be programmed, so that any hall can be divided into zones according to the specific tasks to be performed.

In case of the ATIVO multisensor, plug'n'play means absolutely simple assembly and installation. ATIVO as a DALI master system independently actuates the luminaires. Integrated into LITECOM, it supports proven lighting management functions such as daylight-based control and also serves as a basis for the "Activity Based Lighting" presence-based control system. Through this function, LITECOM provides automatic selection of the lighting scene perfectly adjusted to the use of space.
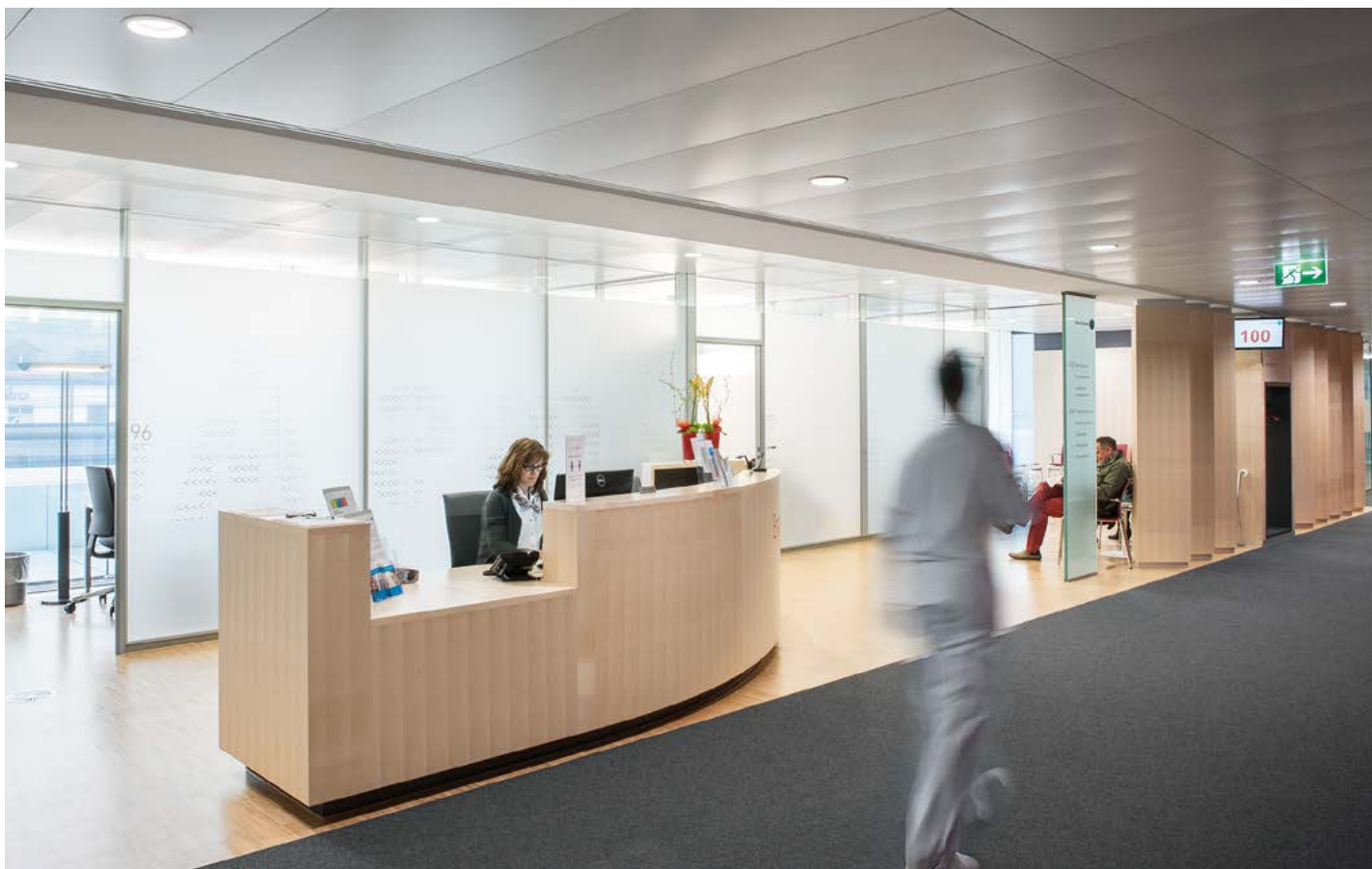
↑ **Aarau cantonal hospital | CH**
  Lighting design: Hefti. Hess. Martignoni., Aarau | CH
  Lighting solution: LUXMATE BASIC lighting management, MICROS LED, AERO II

↓ **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
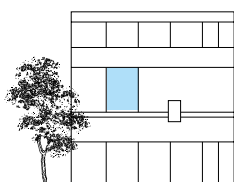
LUXMATE BASIC / DIMLITE

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
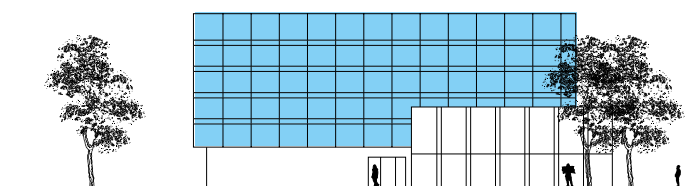
LUXMATE LITENET

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.

zumtobel.com/litenet

Control

Control panel
LM-CIRIA

Circle control units
ED/LM-CSS
LM-RCx

IR remote control unit
IRS
IRTOUCH

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

Presence detector
LM-4AWS

Sensors

Control

Receiver for IRS
IRED + LM-IRB

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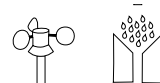
Weather sensors
LM-SN
LM-SR
LM-ST
LM-SW

Lighting control

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

Daylight actuators
LM-TLS
LM-2TL DALI

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
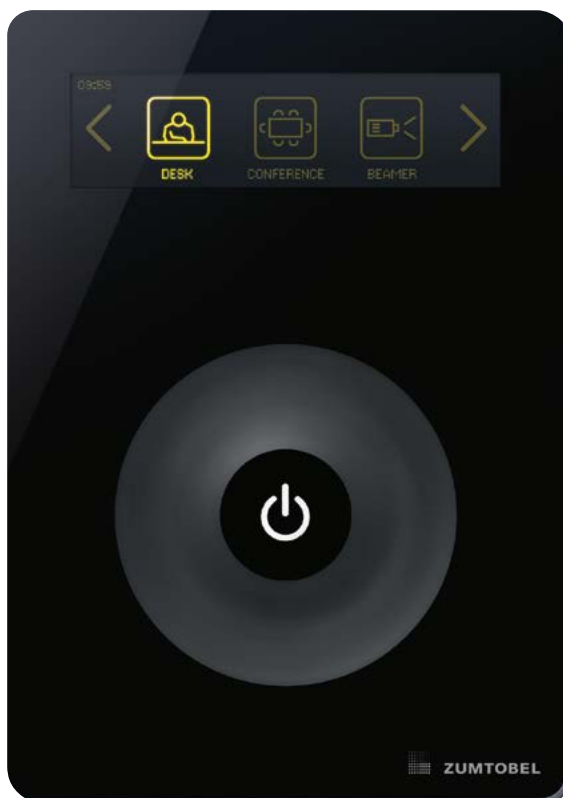
LUXMATE system components

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.

zumtobel.com/system-components

Emergency lighting

← **Kaspersky Lab, Moscow | RU**
Architecture: ABD architects, Moscow | RU
Lighting solution: ONLITE, AERO II, SLOTLIGHT II,
ONDARIA, LUXMATE PROFESSIONAL

↑ **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: ONLITE RESCLITE, ONLITE COMSIGN, ONLITE PURESIGN, AERO, ORILED

↓ **Gildemeister (DMG), Klaus | AT**
    Lighting design: Oskar Leo Kaufmann, Dornbirn | AT
    Lighting solution: ONLITE RESCLITE, ONLITE local, ONLITE central,
    ONLITE ARTSIGN, PANOS

ONLITE RESCLITE emergency luminaires

Innovative LED technology is the driver behind continuous progress

RESCLITE emergency luminaires are becoming increasingly unobtrusive and are capable of spanning ever-increasing distances. For example, it is now possible to illuminate extremely long escape routes and extremely extensive areas (anti-panic) in accordance with standards with the luminaire models in the RESCLITE high performance series – even in cases where minimum illuminance of 5 lux or one foot candle is required. The escape route luminaires are also even flatter without the side reflectors. Instead of this, two LEDs precisely couple the light into the secondary lenses, and therefore combine maximum efficiency with skilful light distribution.

zumtobel.com/resclite

ONLITE RESCLITE
Emergency lighting

Recessed into ceiling

IP40	White	**RESCLITE escape high performance**	**RESCLITE escape**	**RESCLITE antipanic high performance**	**RESCLITE antipanic**	**RESCLITE spot**

	Aluminium	**RESCLITE escape**	**RESCLITE antipanic**	**RESCLITE spot**

	Accessories	**Cover frame White**	**Cover frame Aluminium**	**Concrete casting surround Recessed into ceiling**

Surface-mounted on ceiling

IP40	White	**RESCLITE escape HP**	**RESCLITE antipanic HP**

	White	**RESCLITE escape**	**RESCLITE antipanic**	**RESCLITE spot**

	Aluminium	**RESCLITE escape**	**RESCLITE antipanic**	**RESCLITE spot**

IP65	White	**RESCLITE escape**	**RESCLITE antipanic**	**RESCLITE spot**

high ceilings*	White	**RESCLITE escape**	**RESCLITE antipanic**

* high ceilings are only available in centrally supplied NDA, NSI and NPS variants.

Wall-mounted

| IP65 | White | **RESCLITE wall** |

Recessed into wall

| IP40 | White / Aluminium | **RESCLITE wall** | **RESCLITE wall** | |
| | Accessories | | | **Concrete casting surround** **Recessed into wall** |

TECTON continuous-row lighting system

| IP20 | White | **RESCLITE escape HP** | **RESCLITE escape** | **RESCLITE escape H180** | **RESCLITE antipanic HP** | **RESCLITE antipanic** | **RESCLITE spot** |

| high ceilings* | White | **RESCLITE escape** | | | | **RESCLITE antipanic** |

* high ceilings are only available in centrally supplied NDA, NSI and NPS variants.
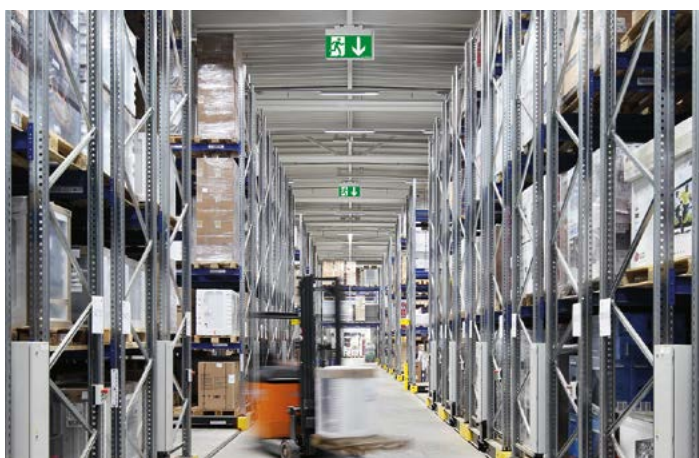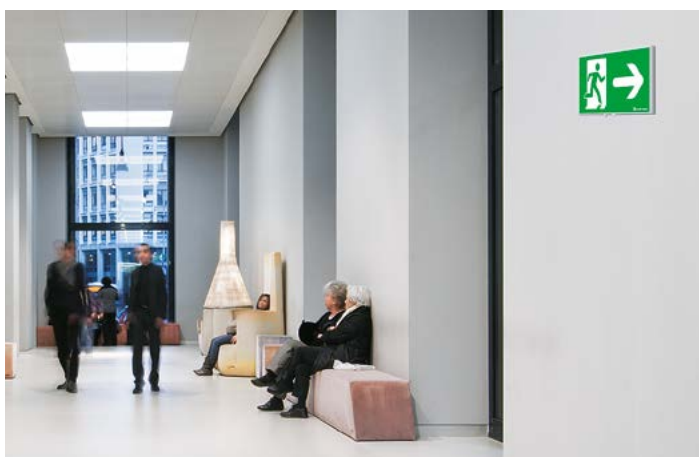
Emergency sets

| **RESCLITE escape** | **RESCLITE antipanic** | **RESCLITE spot** |

ONLITE escape sign luminaires

Safety for success

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

ONLITE 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.

ONLITE PURESIGN 150

ONLITE
Escape sign luminaires

ONLITE ARTSIGN

ONLITE COMSIGN 150

ONLITE PURESIGN 150

ONLITE CROSSIGN 110 / 160

ONLITE ECOSIGN

ONLITE ERGOSIGN

ONLITE CUBESIGN 210

ONLITE SQUARESIGN 300

	ONLITE ARTSIGN	ONLITE COMSIGN 150	ONLITE PURESIGN 150	ONLITE CROSSIGN 110/160	ONLITE ECOSIGN	ONLITE ERGOSIGN	ONLITE CUBESIGN 210	ONLITE SQUARESIGN 300
Protection typ								
Protection type 1	IP40	IP42	IP42	IP42	IP65	IP54	IP40	IP54
Protection type 2				IP54				
Recognition range								
Recognition range 1	15 m	30 m	30 m	22 m	32 m	16 m	42 m	60 m
Recognition range 2				32 m				
Colour								
Silver, powder-coated		■	■					
Anodised aluminium	■							
White				■	■	■	■	■
Installation								
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			■	■	■			
Escape sign								
Single-sided	■	■	■	■	■	■		■
Double-sided	■	■	■	■	■			
Multi-sided							■	
Lighting inserts								
LED	■	■	■	■	■	■	■	■
ERI spot								
with ERI spot			■	■				
without ERI spot	■	■	■	■	■	■	■	■
Luminaire type								
Escape sign luminaire	■	■	■	■	■	■	■	■
Emergency luminaire				■	■	■		

Each ONLITE luminaire is available with separate, group or central battery supply.
Zumtobel luminaires for general lighting can also be used as emergency luminaires.
For this purpose, they are fitted with an emergency lighting module at the factory.

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, ONLITE RESCLITE,
ONLITE 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.

zumtobel.com/local

↑ Gildemeister (DMG), Klaus | AT
Lighting design: Oskar Leo Kaufmann, Dornbirn | AT
Lighting solution: ONLITE central, ONLITE local, ONLITE RESCLITE,
ONLITE 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.

zumtobel.com/central

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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