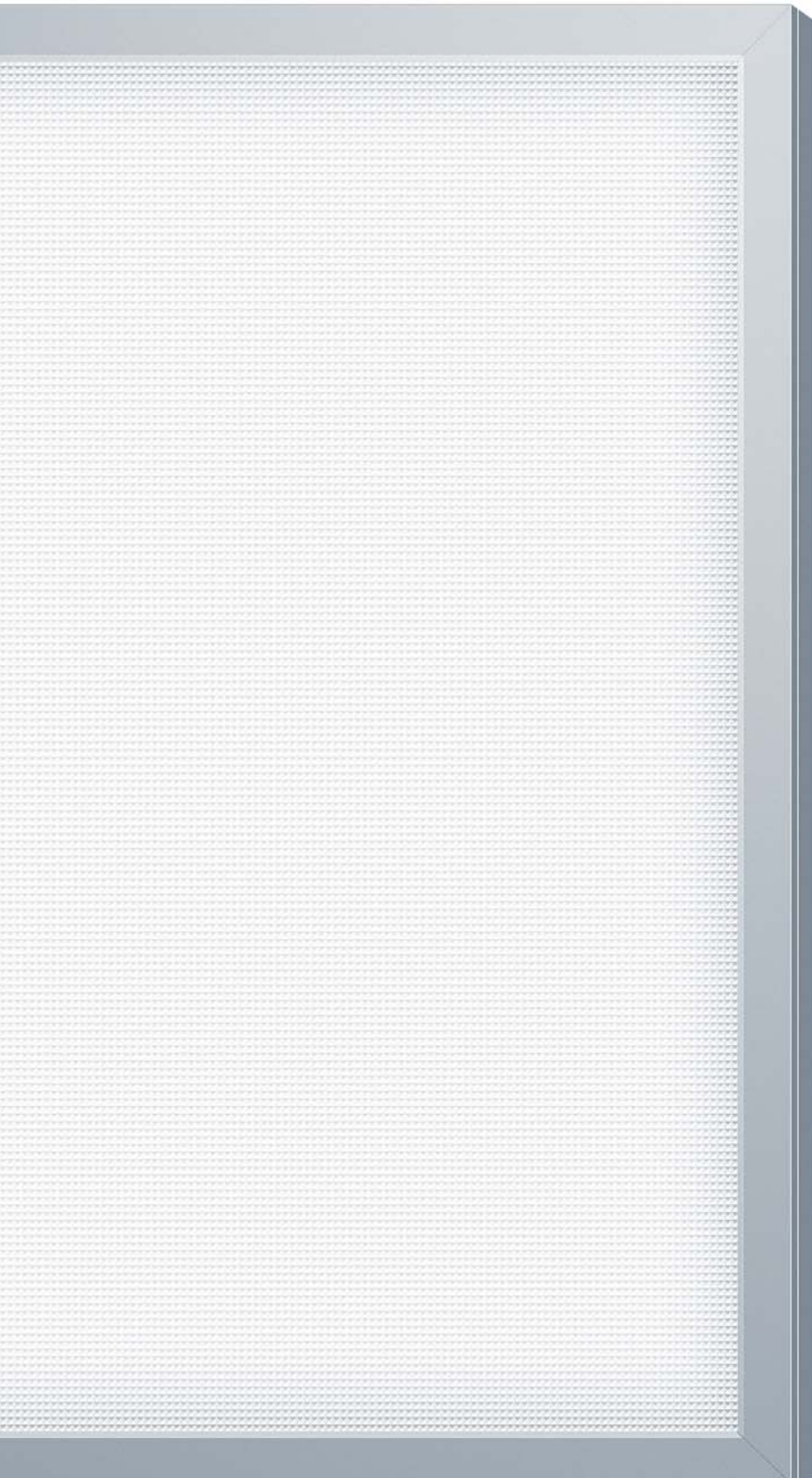




ZUMTOBEL



LIGHT FIELDS LED

Recessed and surface-mounted luminaire

Excellent lighting quality is topped off with new levels of uniformity and efficiency thanks to LED.

Uniform, flat and efficient

A brilliant way to unite alleged contradictions





Purism

An eye-catcher that never shows off



DESIGN CHRIS REDFERN, SOTTASS ASSOCIATI

“LED technology has completely redefined the universal lighting system of LIGHT FIELDS. The fields of light are now made up of sparkling micro-crystals which provide impressive uniformity and long-lasting efficiency.”





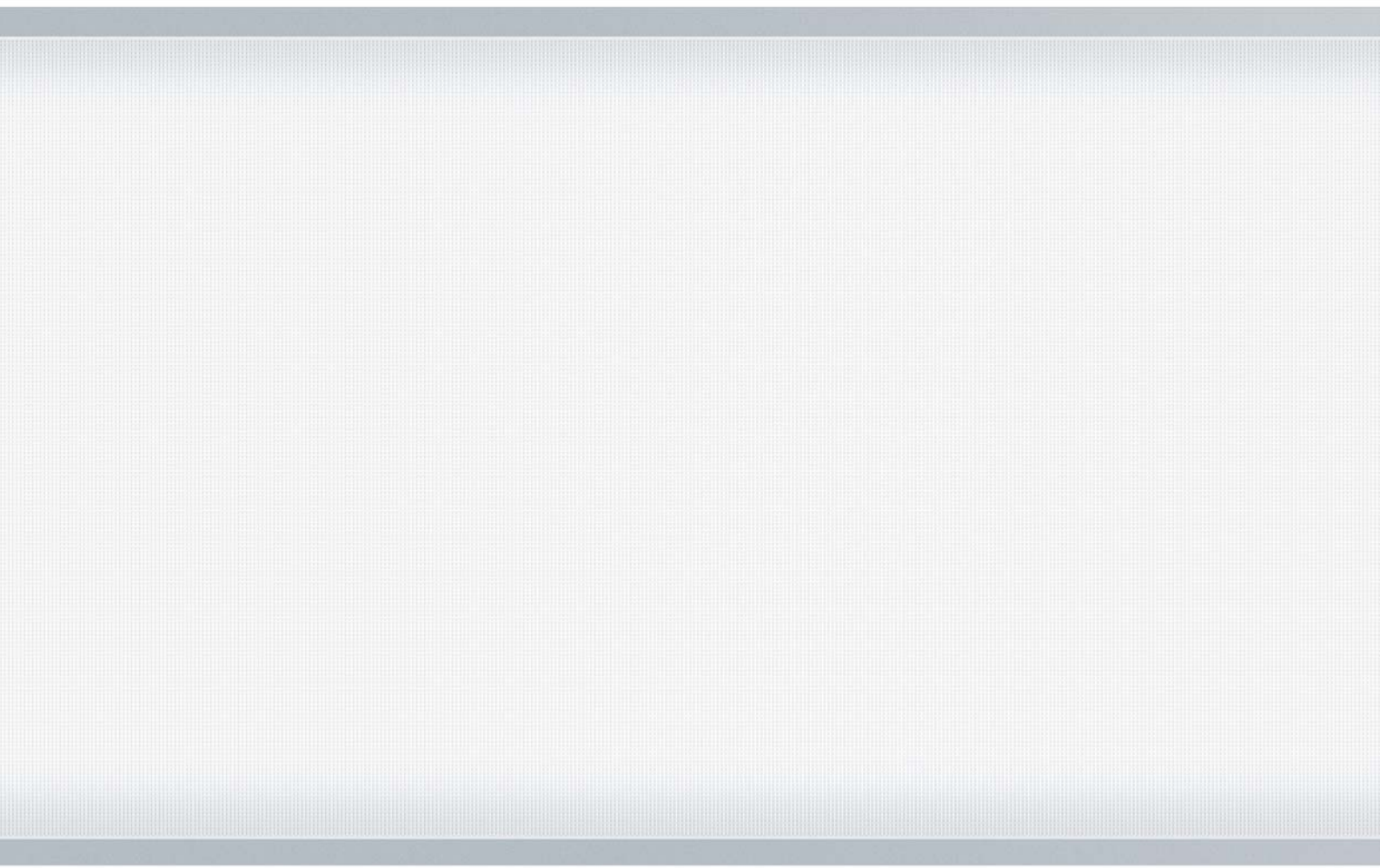
The Sottsass Associati designers have created a luminaire that cannot fail to impress with its straightforward, slim lines and highly expressive, refined materials. LIGHT FIELDS discreetly fits into the architecture without ever upstaging the architect's or designer's vision. The emphasis is on light, not on the luminaire. Due to LED technology, the luminous field reaches a level of uniformity that could not be reached so far. Thanks to the MPO+ micro-pyramidal optic, the only thing that really gets noticed is brilliant light; the luminaire unit fades into the background. This makes LIGHT FIELDS a flexible architectural and interior design tool.



reddot design award

LIGHT FIELDS LED

Brilliance meets uniformity and efficiency



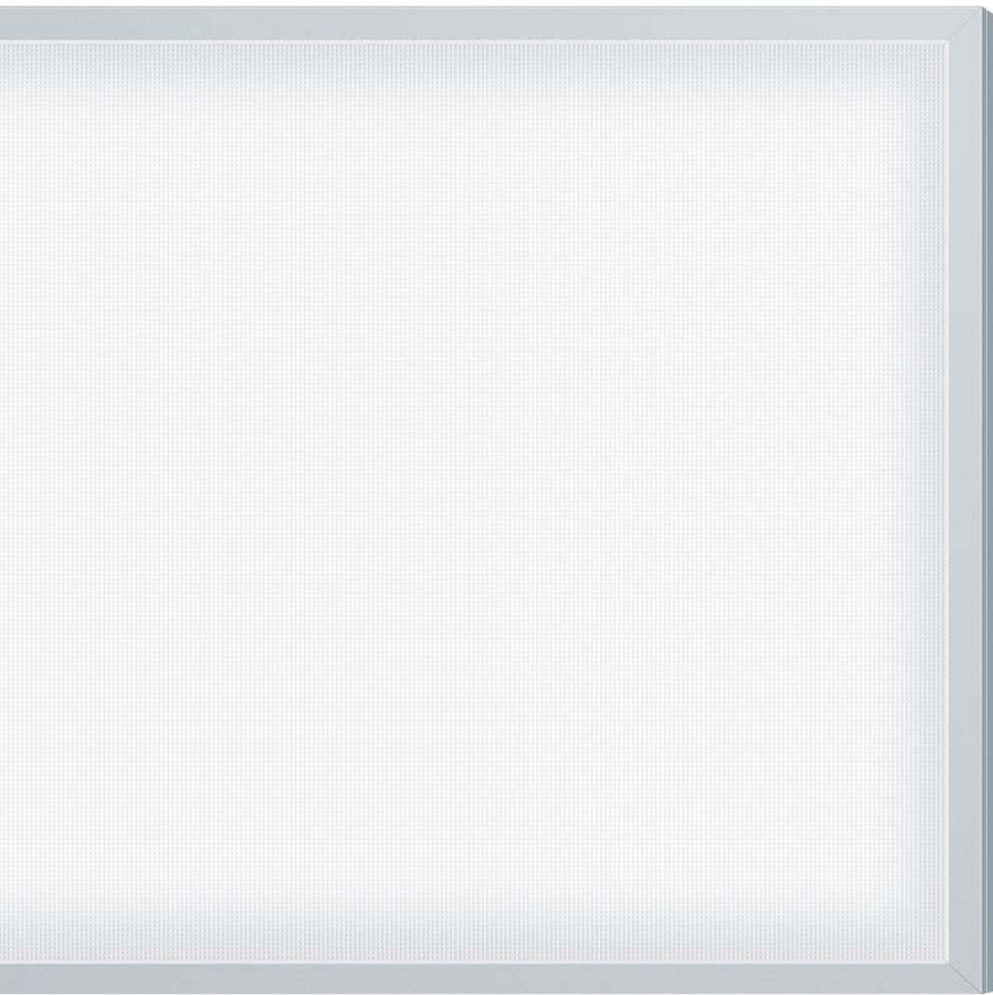
Top class to the core LIGHT FIELDS LED meets high requirements in terms of design and lighting quality without neglecting the efficiency of the luminaire. Until now, the T16 was the dominant lamp in office illumination. With an unrivalled high level of uniformity, and luminaire efficiency of more than 70 lumens per watt, this innovative LED luminaire marks the beginning of an era of technological change. An additional advantage for economic efficiency and the environment: the long service life of the light source reduces maintenance to cleaning of the luminaire. Due to its smooth surface, this requires only little time. The savings in energy and maintenance costs lead to quick amortisation.

81 lm/W

LIGHT FIELDS LED

52 lm/W

LIGHT FIELDS T16



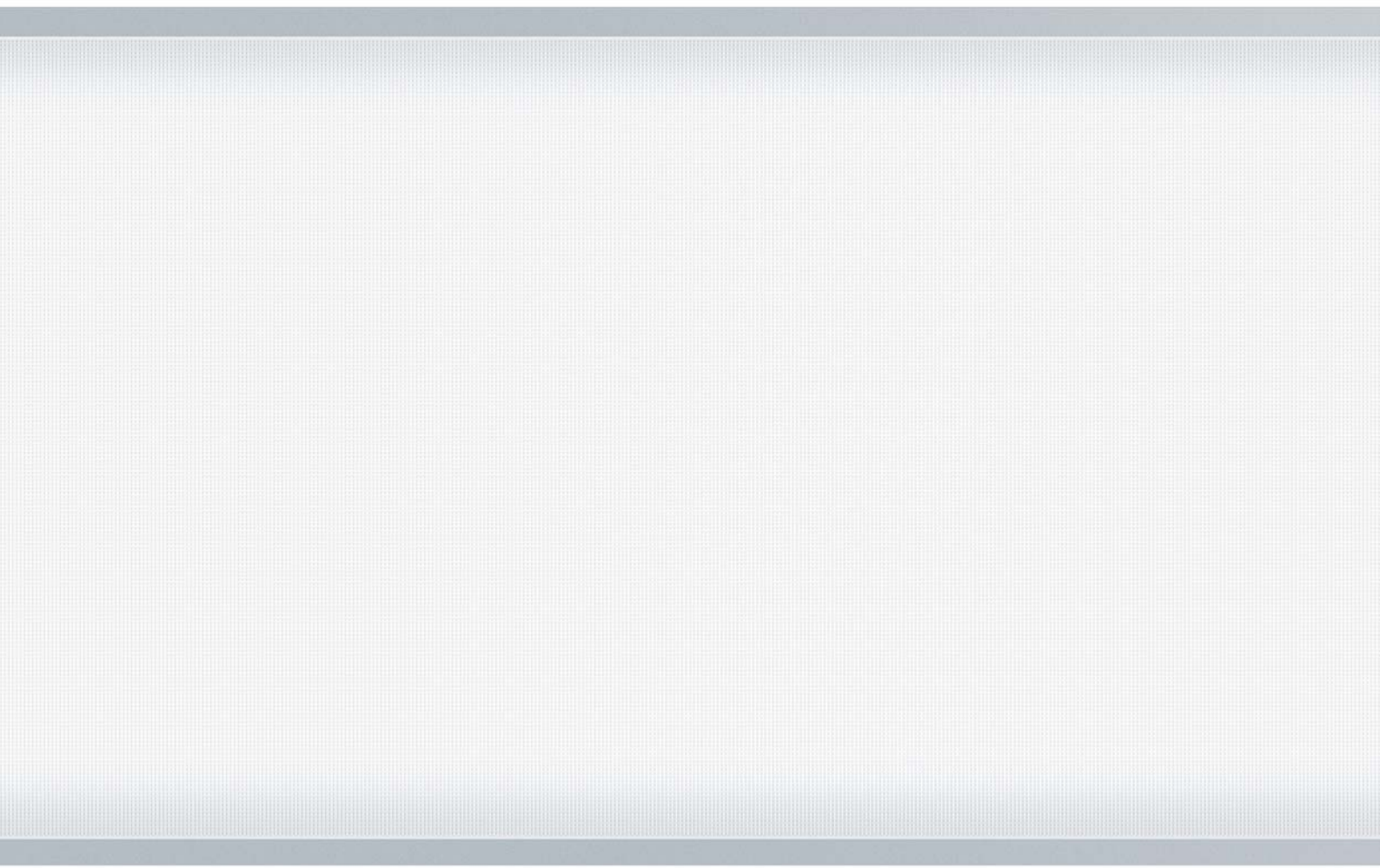
LIGHT FIELDS LED
Surface-mounted and recessed luminaires

eco⁺

LIGHT FIELDS LED bears the eco+ label
for especially resource-friendly products.
For more information on eco+, please visit
www.zumtobel.com/eco

LIGHT FIELDS LED

Brilliance meets uniformity and efficiency



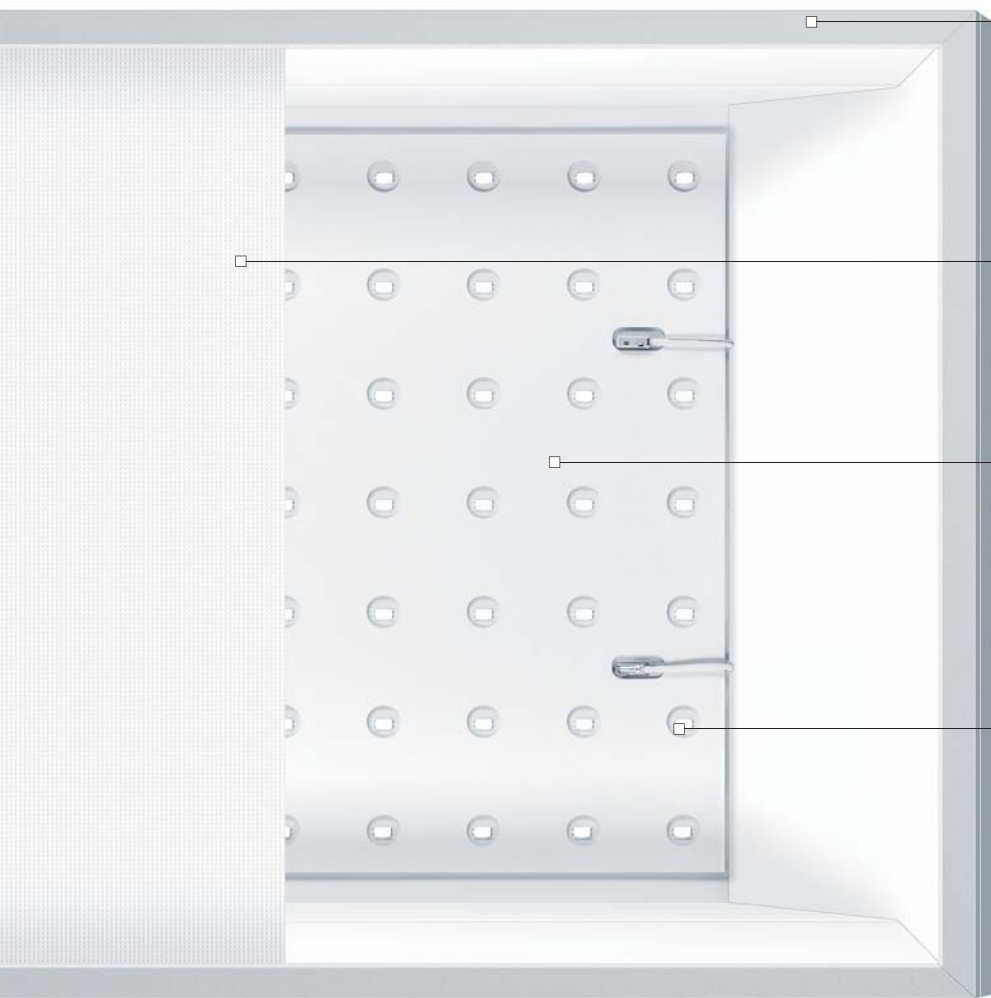
Top class to the core LIGHT FIELDS LED meets high requirements in terms of design and lighting quality without neglecting the efficiency of the luminaire. Until now, the T16 was the dominant lamp in office illumination. With an unrivalled high level of uniformity, and luminaire efficiency of more than 70 lumens per watt, this innovative LED luminaire marks the beginning of an era of technological change. An additional advantage for economic efficiency and the environment: the long service life of the light source reduces maintenance to cleaning of the luminaire. Due to its smooth surface, this requires only little time. The savings in energy and maintenance costs lead to quick amortisation.

81 lm/W

LIGHT FIELDS LED

52 lm/W

LIGHT FIELDS T16



Luminaire housing

The high-quality aluminium housing emphasises the brilliance of the optical system.

MPO+

The micro-pyramidal optic is exactly adjusted to the beam pattern of the LED lighting points, guaranteeing perfect glare control in conformity with relevant standards.

High-performance reflector

Due to intelligent reflector technology, the luminaire boasts excellent efficiency. The luminous power of each LED is used to optimum effect.

LED benefits in a package

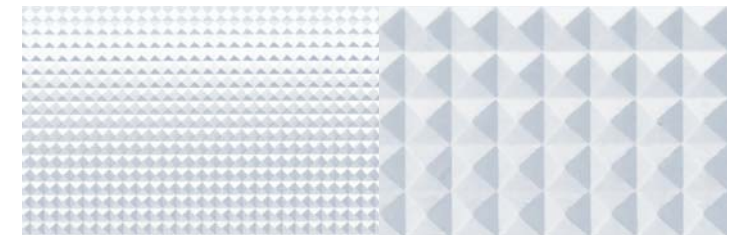
With excellent colour rendition of Ra > 80 and colour temperatures of 3000 K and 4000 K, LIGHT FIELDS LED meets all requirements placed on a contemporary office luminaire. The light source has a service life of 50,000 hours (at 70 % residual luminous flux), which means that minimum maintenance is required.



Dimmable as a standard

Intelligent luminaire. Dimming is the most effective way to save energy and cut costs. Dimmable lighting solutions offer added comfort since individual user requirements are satisfied. As LIGHT FIELDS LED is generally dimmable*, implementation of a sustainable and high-quality lighting solution is made quite simple.

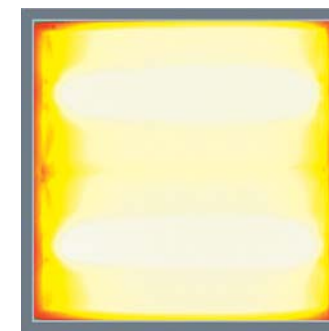
*LIGHT FIELDS mini is dimmable as an option



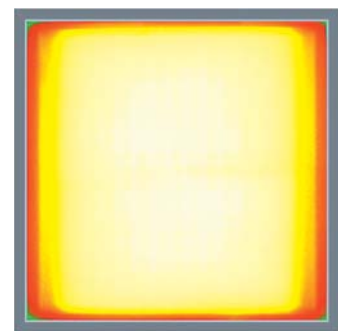
MPO+

1:1 scale and 5:1 scale

MPO+ Brilliant light thanks to precisely cut, sharp-edged micro-pyramids – this is HDTV-style lighting technology featuring 0.5 million pixels/m². Thanks to their crystalline structure, the high-precision micro-pyramids (1.5 x 1.5 mm) provide maximum lighting comfort. The patented technology reduces the luminance levels and guarantees glare-free light at DSE workstations.



LIGHT FIELDS T16



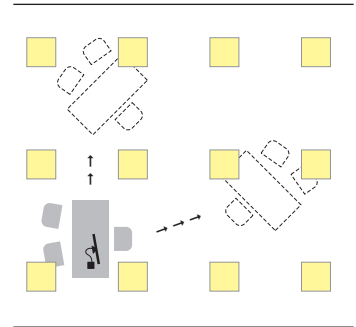
LIGHT FIELDS LED

Comparison of backlighting options The LIGHT FIELDS luminaires' incorrect display of colours using various light sources illustrates the high level of uniformity provided by the LED version. The uniform luminous panel emphasises the value of the lighting solution and creates an uncluttered look on the ceiling.

Micro-pyramidal optic

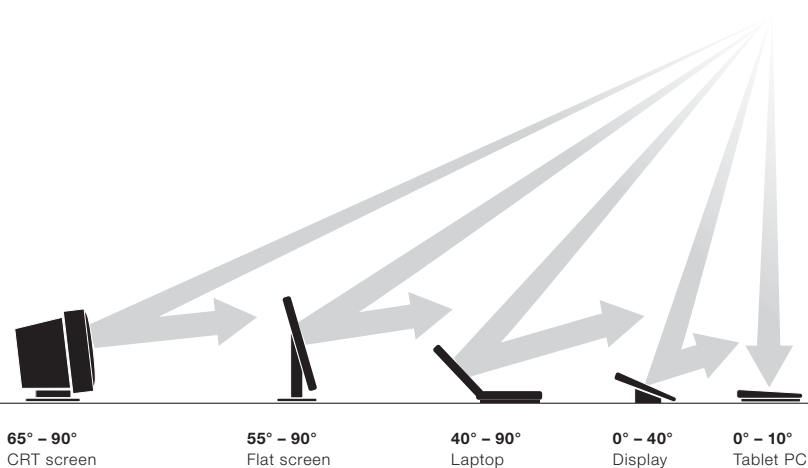
Glare control allowing freedom of design

The optical system The three-layered MPO+ sandwich ensures the brilliance of the LIGHT FIELDS LED light and guarantees perfect glare control in conformity with EN 12464-1:2011. UGR of < 19 are indicative of perfect lighting technology for office lighting. For vertical displays, the max. luminance levels above 65° are 1500 cd/m². Luminance has been reduced even for steep viewing angles to limit glare reflected from steeply inclined displays like laptops or tablet PCs. An additional advantage: the workstations can be arranged independently of the position of the luminaires.

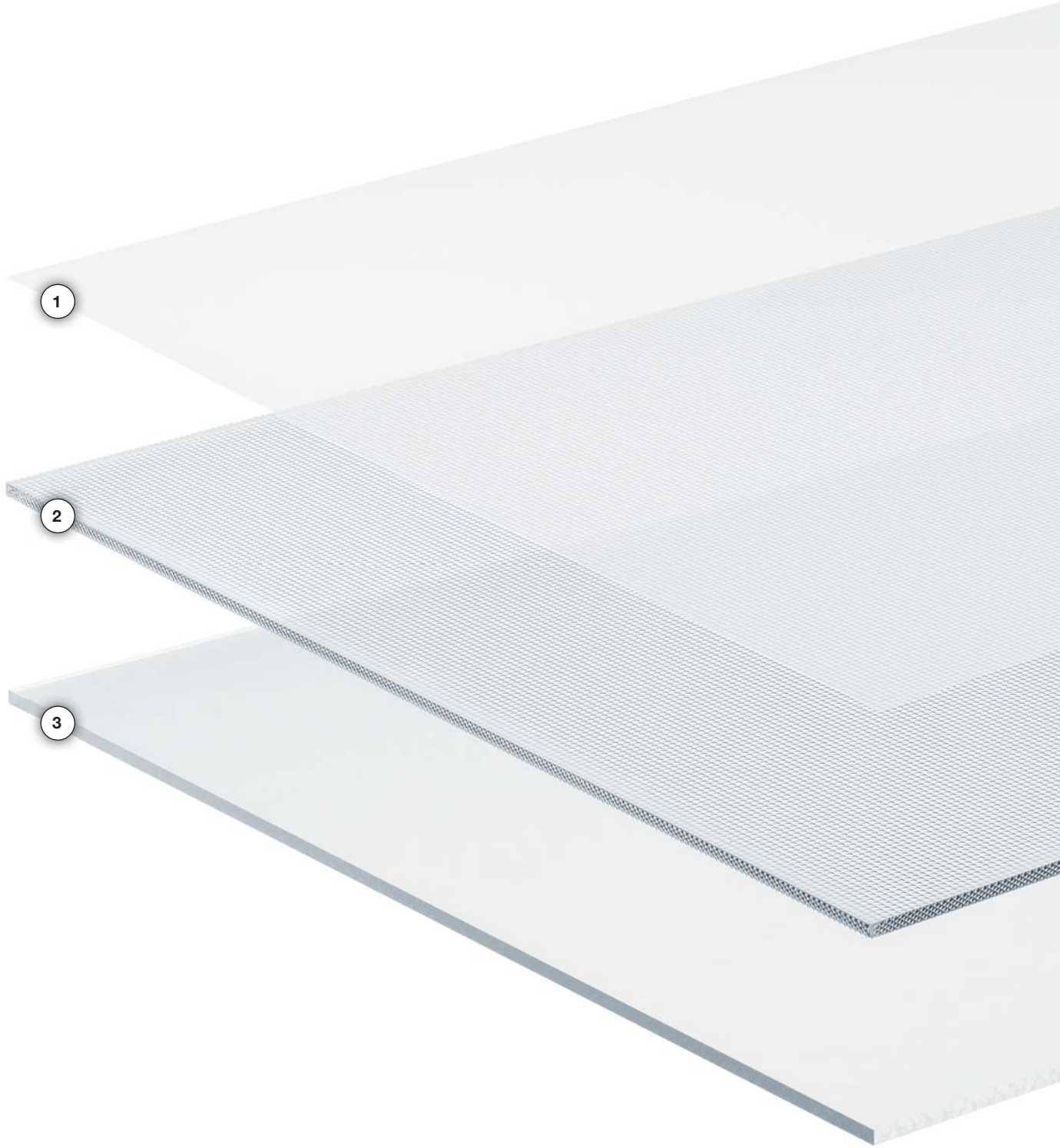


Free choice of place

Thanks to reduced luminance levels, even at steep beam angles, LIGHT FIELDS LED can be placed directly above workstations with strongly inclined laptop displays. This flexibility provides extensive freedom as workstations and luminaires are positioned independently.



Glare control in conformity with relevant standards and beyond



1

2

3

1

2

3

Creating uniformity

The very bright LED lighting points are perfectly broken up by the diffuser. At the same time, efficiency remains high due to the high transmission level of the LIGHT FIELDS LED diffuser layer.

Directing

The light-directing micro-pyramidal layer with its very precisely shaped miniature pyramids provides glare-free light. At the same time, the light emitting panel gets a brilliant look due to its structured surface.

Protecting

The supporting protective layer performs several functions. It protects the delicate micro-pyramids from external influences and reflects even light beams that enter at extremely flat angles. Its brilliance is enhanced by the smooth external surface, which is extremely easy to clean.

Designs and installation

A lighting tool that cannot fail to impress with its straightforwardness



RECESSED



SURFACE-MOUNTED

LIGHT FIELDS LED **linear version**

Due to its mounting depth of less than 100 mm, the **recessed luminaire** is perfectly suitable for suspended ceilings with little installation space. The **surface-mounted luminaire** allows modern office buildings to avoid suspended ceilings altogether. With a height of 62 mm it is even flatter than the recessed luminaire. Yet it provides the same level of uniformity, glare control and efficiency. Using appropriate accessories, the surface-mounted luminaire can be suspended from the ceiling very easily. This makes it also suitable for rooms with very high ceilings.

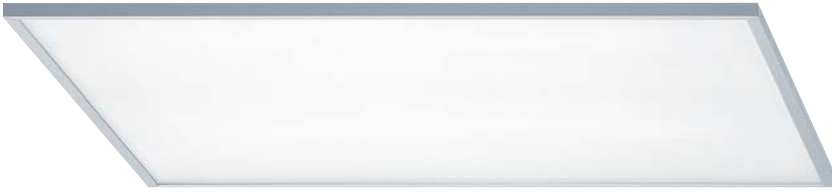
Individual linear luminaire



Recessed (*module 600*) 1198 x 298 mm
Recessed (*module 625*) 1248 x 310 mm
Surface-mounted 1270 x 329 mm
44 W 3100–3500 lm



Recessed (*module 600*) 1498 x 298 mm
Recessed (*module 625*) 1548 x 310 mm
Surface-mounted 1549 x 329 mm
55 W 3800–4300 lm



LIGHT FIELDS LED **square version**

In its square version, LIGHT FIELDS LED unfolds its maximum luminaire efficiency. Independent of colour temperature (3000 or 4000 K) and the dimensions of the module, the luminaire reaches an efficiency factor in excess of 70 lumens per watt.

LIGHT FIELDS LED **mini**

In many buildings, the task for the smallest member of the LIGHT FIELDS LED family is to continue a lighting concept and ensure its consistency. The identically designed luminaire is therefore used especially in peripheral areas, corridors and staircases.

Individual square luminaire



Recessed (*module 600*) 598 x 598 mm
 Recessed (*module 625*) 623 x 623 mm
 Surface-mounted 624 x 624 mm
44 W 3150–3570 lm

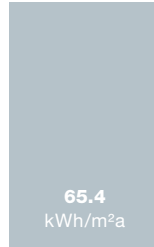
Individual square luminaire mini



Recessed (*module 600*) 298 x 298 mm
 Recessed (*module 625*) 311 x 311 mm
25–42 W 1200–1900 lm

Facts and figures

Economic efficiency that pays off

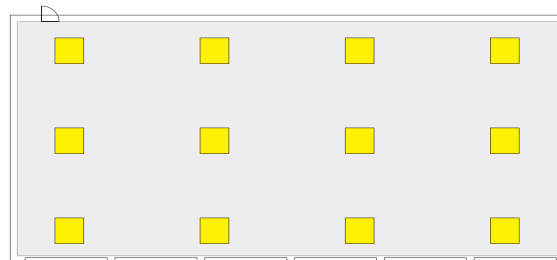


Comparative calculation

4x18 W T26 louvre luminaire

Dimmable	no
Installed load (per luminaire)	88 W
Lumen package (per luminaire)	3100 lm
Luminaire efficiency factor LEF	35 lm/W
Uniformity g1 (task level)	0.52

Maintenance costs (service life)	€ 3,466
Energy costs (service life)	€ 10,272



Energy costs	€ 0.12 / kWh
Period under review	15 years
Burning hours (year)	3120 h
Reflection factors	
Ceiling	70 %
Wall	50 %
Floor	20 %
Number of luminaires	12
Maintenance illuminance	500 lx
Luminaire spacing	2.5 m x 1.9 m
Maintenance factor	0.67

Reduce costs sustainably High luminaire efficiency leads to low power consumption; investing in a modern LED lighting solution using LIGHT FIELDS therefore pays off after a short time. Providing the same level of luminous efficiency, LIGHT FIELDS LED saves over 30 percent of energy compared to a 4 x 14 W T16 luminaire. Maintenance is reduced to cleaning of the outer part of the luminaire. Relamping will not be necessary under normal conditions. This means that the amortisation period is reduced to less than 2 years in comparison with a T16 alternative. Even the replacement of an existing older installation with LIGHT FIELDS LED will pay back in less than 7 years – at significantly higher lighting quality. Energy consumption can be reduced even further when combining LIGHT FIELDS LED with daylight-based and presence-based control.

Energy cost increase of 7.5 % per year
Room dimensions: 10 m x 5 m x 2.8 m



LIGHT FIELDS 4/14 W T16

Dimmable	optional
Installed load (per luminaire)	65 W
Lumen package (per luminaire)	3400 lm
Luminaire efficiency factor LEF	52 lm/W
Uniformity g1 (task level)	0.56
Maintenance costs (service life)	€ 1,674
Energy costs (service life)	€ 7,519

LIGHT FIELDS 44 W LED

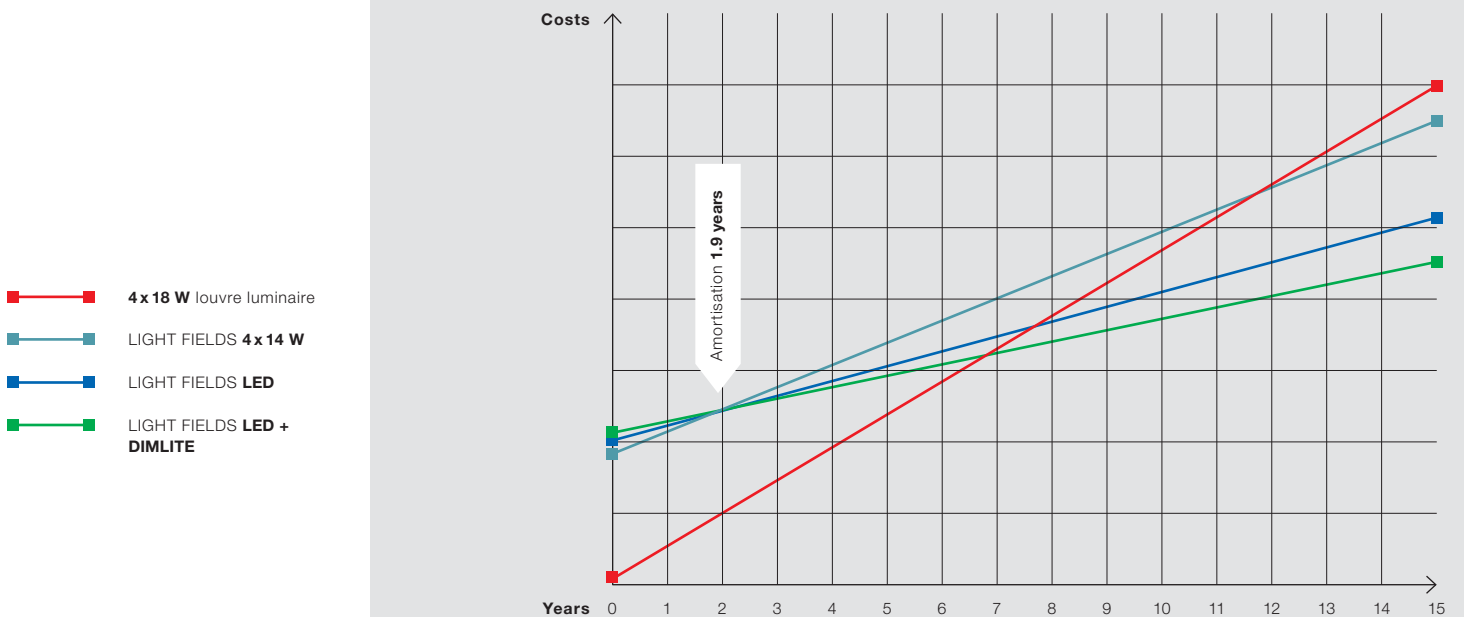
Dimmable	generally
Installed load (per luminaire)	44 W
Lumen package (per luminaire)	3570 lm
Luminaire efficiency factor LEF	81 lm/W
Uniformity g1 (task level)	0.56
Maintenance costs (service life)	€ 953
Energy costs (service life)	€ 5,260

Combination with DIMLITE

Energy costs (service life)	€ 3,465
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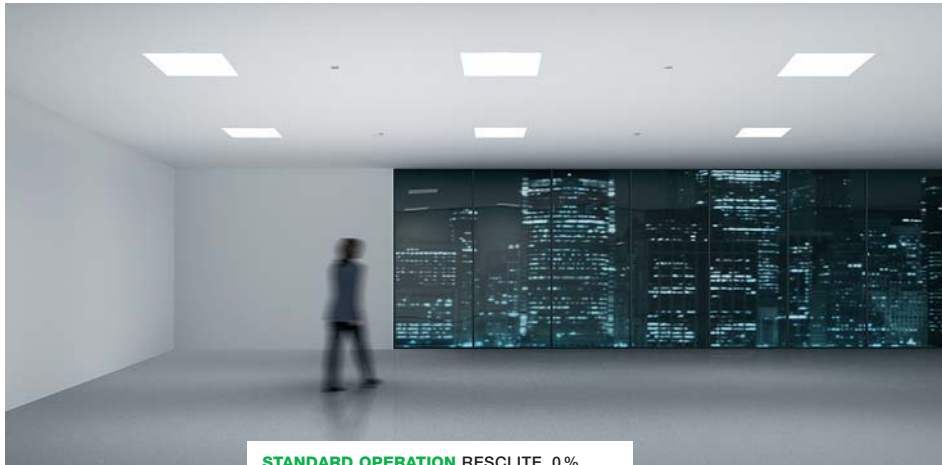
www.zumtobel.com/dimlite

Development of total costs for various lighting solutions in the course of 15 years

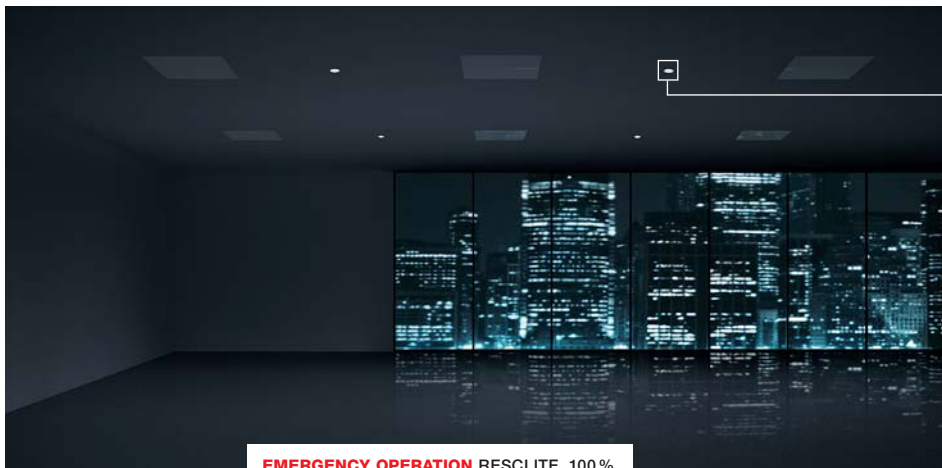


Emergency lighting

The LED solution for emergencies



Hardly visible, but ready for use at any time: the compact RESCLITE anti-panic LED emergency luminaires blend unobtrusively into the ceiling, side by side with LIGHT FIELDS LED.



ONLITE RESCLITE anti-panic Thanks to power LEDs, high efficiency and wide-angle light distribution, only few luminaires are needed to provide emergency lighting in conformity with the EN 1838 standard throughout the room.

LED + LED = a perfect match For emergencies, an emergency lighting solution is recommended that is adjusted to the particular situation on site. The combination of LIGHT FIELDS LED with RESCLITE emergency luminaires results in a lighting solution that is based on LED only. In this case, the designer is free to use the emergency lighting independently of the general lighting. A major benefit is that RESCLITE anti-panic with its rotationally symmetrical light distribution uniformly illuminates large areas. A single luminaire is sufficient to provide orientation within a space of 170 m² and make escape routes and obstacles visible.

I...I Shared properties
LIGHT FIELDS LED

- Colour rendering Ra 80 for office applications
- Light guided via the MPO+ Sandwich perfected for LED technology for maximum luminaire efficiency; ideal glare reduction and evenly spaced LED light points
- Crystal-clear diffuser made of high grade PMMA for an exceptional look of quality; low dirt accumulation and very easy to clean
- LED service life 50,000 h at 70 % luminous flux
- Luminaire pre-wired using halogen-free leads
- 850 °C thermal stability available on request
- Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

LIGHT FIELDS LED E, recessed



- I...I
- LED ceiling-recessed luminaire, Stable White, for general and task area lighting
- High luminaire efficiency of over 70 lm/W for 4000 K colour temperature and over 65 lm/W for 3000 K colour temperature
- UGR < 19 and L65 < 1500 cd/m² to EN 12464-1:2011
- Particularly suitable for glare control for monitors having a large tilt angle
- Reduced luminance at steep angles specifically designed to cut glare on tilted displays and allow maximum flexibility in positioning of luminaires
- Closed optical system is connected to the luminaire housing without tools
- Flat housing made of painted sheet steel
- Aluminium optic surround in silver-look finish. White finish available on request
- Luminaire optimised to fit in sawn ceiling apertures and in modular ceilings with concealed joist system
- LED unit and converter can be replaced separately
- Comes equipped with DALI-controllable converter
- Can be installed as an individual luminaire or in a cluster

L/W/H kg Order no.

Dimmable for module 600

	L/W/H	kg	Order no.
44 W LED L830 L	1198/298/86	8.5	42 180 003
44 W LED L830 Q	598/598/86	8.3	42 179 999
44 W LED L840 L	1198/298/86	8.5	42 180 001
44 W LED L840 Q	598/598/86	8.3	42 179 997
55 W LED L830 L	1498/298/86	10.6	42 180 007
55 W LED L840 L	1498/298/86	10.6	42 180 005

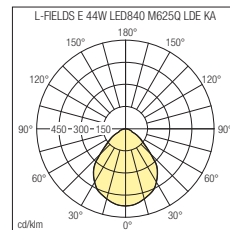
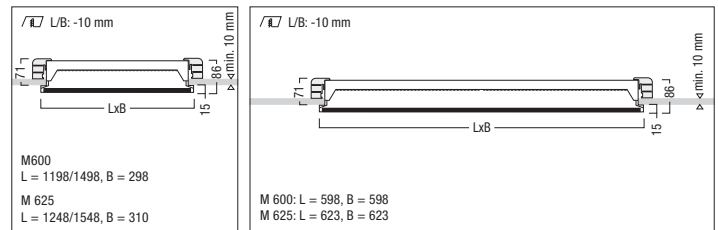
Dimmable for module 625

	L/W/H	kg	Order no.
44 W LED L830 L	1248/310/86	9.2	42 180 004
44 W LED L830 Q	623/623/86	8.5	42 180 000
44 W LED L840 L	1248/310/86	9.2	42 180 002
44 W LED L840 Q	623/623/86	8.5	42 179 998
55 W LED L830 L	1548/310/86	11.2	42 180 008
55 W LED L840 L	1548/310/86	11.2	42 180 006

Accessory

SET BEF FE/LF/MLIV/CLEAN	22 062 229
SUCTION CUP Suction cup	20 935 455

Please order fixing kit separately.

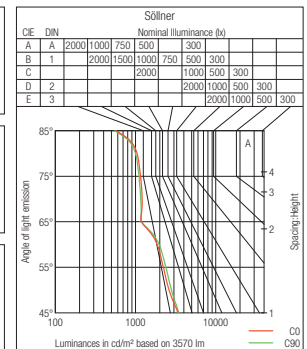


Light output ratio

LOR	100 %
ULOR	0 %
DLOR	100 %
FFR	0.00 (0:100)
BLF	1.00

Classification

LITG	A50
LG7	65° < 1500cd/m ²
BZ	B21/3/B22
LTE	1.00 C
Flux Codes	658 920 985 1000 1000



Utilization Factors

Room Reflectance			Room Index								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
70	50	20	70	79	85	89	95	99	101	105	107

SHR Nom = 1.25 SHR Max = 1.49 SHR Max TR = 1.64
According to CIBSE Technical Memorandum No. 5 1980

LIGHT FIELDS LED Mini E 300, recessed



- I...I
- LED ceiling-recessed luminaire, Stable White
- Luminaire efficiency of over 40 lm/W for 4000 K colour temperature and over 35 lm/W for 3000 K colour temperature
- Particularly suitable for corridor and shop areas
- UGR < 19 and L65 < 3000 cd/m² to EN 12464-1:2011
- Aluminium optic surround in silver-look finish. White finish available on request
- Fully assembled luminaire comprises luminaire and external gear box
- "DALI-dimmable" luminaires accommodate DALI-controllable converters

Dimmable for module 600

	L/W/H	kg	Order no.
25 W LED L830 Q	298/298/84	2.8	42 180 141
25 W LED L840 Q	298/298/84	2.8	42 180 139
38 W LED L830 Q	298/298/84	2.8	42 180 142
38 W LED L840 Q	298/298/84	2.8	42 180 140

Dimmable for module 625

	L/W/H	kg	Order no.
25 W LED L830 Q	310/310/84	2.8	42 180 164
25 W LED L840 Q	310/310/84	2.8	42 180 162
38 W LED L830 Q	310/310/84	2.8	42 180 165
38 W LED L840 Q	310/310/84	2.8	42 180 163

Electronic ballast for module 600

	L/W/H	kg	Order no.
25 W LED L830 Q	298/298/84	2.8	42 180 050
25 W LED L840 Q	298/298/84	2.8	42 180 046
42 W LED L830 Q	298/298/84	2.8	42 180 052
42 W LED L840 Q	298/298/84	2.8	42 180 048

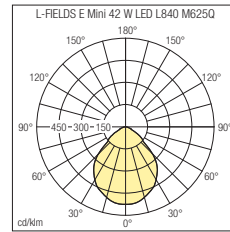
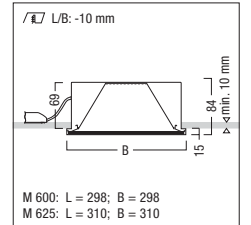
Electronic ballast for module 625

	L/W/H	kg	Order no.
25 W LED L830 Q	310/310/84	2.8	42 180 051
25 W LED L840 Q	310/310/84	2.8	42 180 047
42 W LED L830 Q	310/310/84	2.8	42 180 053
42 W LED L840 Q	310/310/84	2.8	42 180 049

Accessory

SET BEF FE/LF/MLIV/CLEAN	22 062 229
SUCTION CUP Suction cup	20 935 455

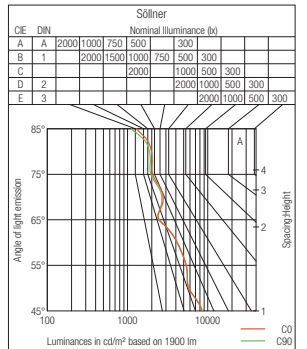
Please order fixing kit separately.



Light output ratio	
LOR	100 %
ULOR	0 %
DLOR	100 %
FFR	0.00 (0:100)
BLF	1.00

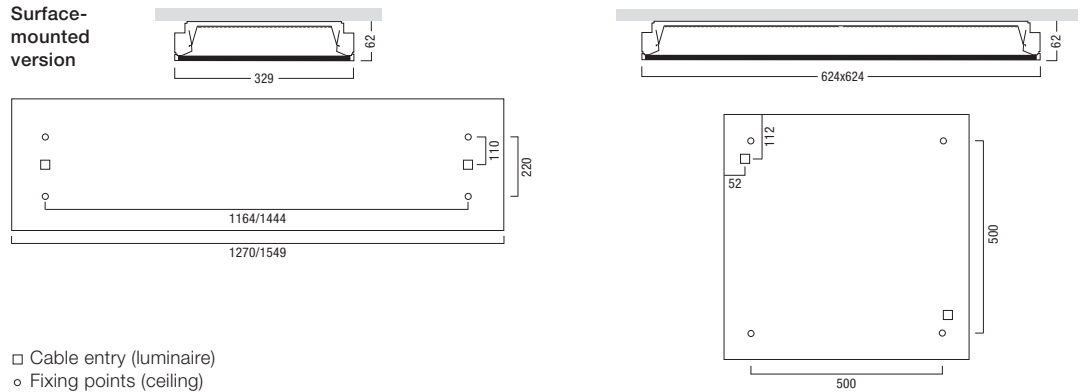
Classification	
LITG	A50
BZ	BZ1/4/BZ2
UTE	1.00 C
Flux Codes	657 921 985 998 998

Room Reflectance		Utilization Factors									
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
70	50	20	70	79	85	89	95	99	101	105	107
SHR Nom = 1.25			SHR Max = 1.48				SHR Max TR = 1.64				
According to CIBSE Technical Memorandum No. 5 1980											



Installation LIGHT FIELDS surface-mount. and pendant luminaires

Surface-mounted version



□ Cable entry (luminaire)
○ Fixing points (ceiling)

LIGHT FIELDS LED A, surface-mount



- LED surface-mounted ceiling luminaire, Stable White, for general and task area lighting
- Low-profile aluminium luminaire housing in silver-look finish. White available on request
- High luminaire efficiency of over 70 lm/W for 4000 K colour temperature and over 65 lm/W for 3000 K colour temperature
- UGR < 19 and L65 < 1500 cd/m² to EN 12464-1:2011
- Particularly suitable for glare control for monitors having a large tilt angle
- Reduced luminance at steep angles specifically designed to cut glare on tilted displays and allow maximum flexibility in positioning of luminaires
- Closed optical system is connected to the luminaire housing without tools
- LED unit and converter can be replaced separately
- Comes equipped with DALI-controllable converter
- Can be installed as an individual luminaire or in a cluster

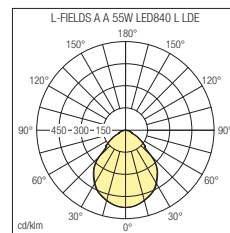
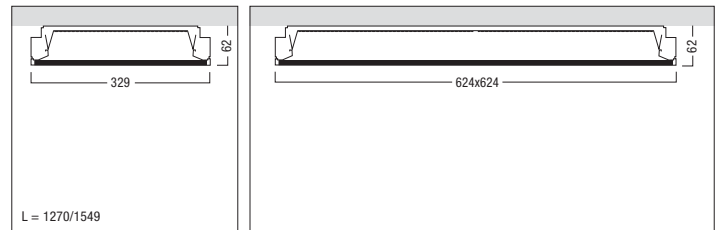
Dimmable surface-mount luminaire

	L/W/H	kg	Order no.
44 W LED 830 L	1270/329/62	9.7	42 180 012
44 W LED 830 Q	624/624/62	9.9	42 180 010
44 W LED 840 L	1270/329/62	9.7	42 180 011
44 W LED 840 Q	624/624/62	9.9	42 180 009
55 W LED 830 L	1549/329/62	11.9	42 180 014
55 W LED 840 L	1549/329/62	11.9	42 180 013

Accessory

Installation kit for cluster of 4 luminaires	22 166 808
Installation kit for cluster of 6 luminaires	22 166 809
SUCTION CUP Suction cup	20 935 455

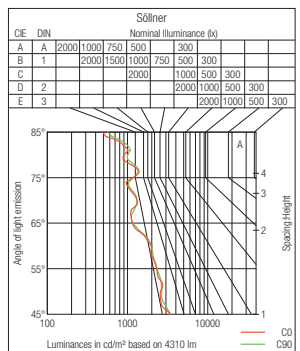
For suspended installation, suspension kit and supply cable must be ordered separately.



Light output ratio	
LOR	100 %
ULOR	0 %
DLOR	100 %
FFR	0.00 (0:100)
BLF	1.00

Classification	
LITG	A50
LG7	65° <= 1500cd/m²
BZ	BZ1/3/BZ2
UTE	1.00 C
Flux Codes	658 918 986 1000 1000

Utilization Factors	
Room Reflectance	Room Index
Ceiling Walls Floor	0.75 1.00 1.25 1.50 2.00 2.50 3.00 4.00 5.00
70 50 20	70 78 85 89 95 99 101 105 107
SHR Nom = 1.25	SHR Max = 1.48
According to CIBSE Technical Memorandum No. 5 1990	



LIGHT FIELDS LED A accessories



Transparent feed cable

	Order no.
3x0.75 mm ² 1.0 m	42 120 919
3x0.75 mm ² 1.5 m	42 120 900
3x0.75 mm ² 10.0 m	22 127 714
3x1.5 mm ² 1.0 m	22 157 566
3x1.5 mm ² 1.5 m	22 157 567
3x1.5 mm ² 10.0 m	22 157 568
5x0.75 mm ² 1.0 m	22 125 146
5x0.75 mm ² 1.5 m	22 125 152
5x0.75 mm ² 10.0 m	22 127 720
5x1.5 mm ² 1.0 m	22 157 569
5x1.5 mm ² 1.5 m	22 157 570
5x1.5 mm ² 10.0 m	22 157 571

Suspension systems

ASH1000 Cord suspension	22 157 323
ASH2000 Cord suspension	22 157 324
ASH500 Cord suspension	22 157 163



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Top quality – with a five-year guarantee.
As a globally leading luminaire manufacturer, Zumtobel provides a five-year guarantee for its complete product range with effect from 1 April 2010.

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For the sake of the environment: Luxo Light is chlorine-free paper from sustainably managed forests and certified sources.



Zumtobel is the internationally leading supplier of integral lighting solutions for professional interior and exterior lighting applications.

- Offices and Communication
- Education and Science
- Presentation and Retail
- Hotel and Wellness
- Art and Culture
- Health and Care
- Industry and Engineering

We provide unique customer benefits by integrating technology, design, emotion and energy efficiency. Under the Humanergy Balance concept, we combine the best possible ergonomic lighting quality for an individual's wellbeing with the responsible use of energy resources.

The company's own sales organisations in twenty countries, as well as commercial agencies in fifty other countries, form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

Lighting and sustainability In line with our corporate philosophy "We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment", Zumtobel offers energy-efficient high-quality products, while at the same time making sure that our production processes based on the considerate use of resources are environmentally compatible.

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TRACK AND SPOTS		<p>United Kingdom Zumtobel Lighting Ltd. Unit 4 - The Argent Centre, Pump Lane Hayes/Middlesex UB3 3BL T +44/(0)20 8589 1800 F +44/(0)20 8756 4800 M uksales@zumtobel.com www.zumtobel.co.uk</p>	<p>Czech Republic and Slovak Republic Zumtobel Lighting s.r.o. Jankovcova 2 Praha 7 170 00 Praha T +420/(2) 66 782 200 F +420/(2) 66 782 201 M praha@zumtobel.com www.zumtobel.cz</p>
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