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

“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.
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.
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.
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.
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.

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.

\*LIGHT FIELDS mini is dimmable as an option
**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.
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

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.

**LIGHT FIELDS LED linear version**

<table>
<thead>
<tr>
<th></th>
<th>Recessed (module 600)</th>
<th>Recessed (module 625)</th>
<th>Surface-mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1198 x 298 mm</td>
<td>1248 x 310 mm</td>
<td>1270 x 329 mm</td>
</tr>
<tr>
<td>Power</td>
<td>44 W 3100–3500 lm</td>
<td>55 W 3800–4300 lm</td>
<td></td>
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<td></td>
<td>1498 x 298 mm</td>
<td>1548 x 310 mm</td>
<td>1549 x 329 mm</td>
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</tbody>
</table>

Individual linear luminaire
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.

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.

**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.
**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 g^1 (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
**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)**: € 1,074  
**Energy costs (service life)**: € 7,519

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**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

[www.zumtobel.com/dimlite](http://www.zumtobel.com/dimlite)

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

- **4 x 18 W louvre luminaire**
- **LIGHT FIELDS 4 x 14 W**
- **LIGHT FIELDS LED**
- **LIGHT FIELDS LED + DIMLITE**

Amortisation: 1.9 years
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.

www.zumtobel.com/onlite
1. 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 E, recessed

- 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

Dimmable for module 600

<table>
<thead>
<tr>
<th>L/W/H</th>
<th>kg</th>
<th>Order no.</th>
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<td>44 W LED L830 L</td>
<td>1198/298/86</td>
<td>8.5</td>
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<tr>
<td>44 W LED L830 Q</td>
<td>598/598/86</td>
<td>8.3</td>
</tr>
<tr>
<td>44 W LED L840 L</td>
<td>1198/298/86</td>
<td>8.5</td>
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<tr>
<td>44 W LED L840 Q</td>
<td>598/598/86</td>
<td>8.3</td>
</tr>
<tr>
<td>55 W LED L830 L</td>
<td>1498/298/86</td>
<td>10.6</td>
</tr>
<tr>
<td>55 W LED L840 L</td>
<td>1498/298/86</td>
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Dimmable for module 625

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<td>44 W LED L830 L</td>
<td>1248/310/86</td>
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<tr>
<td>44 W LED L840 L</td>
<td>1248/310/86</td>
<td>9.2</td>
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<tr>
<td>44 W LED L840 Q</td>
<td>623/623/86</td>
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<tr>
<td>55 W LED L830 L</td>
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<td>11.2</td>
</tr>
<tr>
<td>55 W LED L840 L</td>
<td>1548/310/86</td>
<td>11.2</td>
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</table>

Accessory

- SET RFB FE/LE/ML/BR/CLEAN
- SUCTION CUP Suction cup

Please order fixing kit separately.

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 Mini recessed luminaire

- 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

### Technical Specifications

#### Luminous Flux (lm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Luminous Flux (lm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W LED L830 Q</td>
<td>298/298/84</td>
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<tr>
<td>25 W LED L840 Q</td>
<td>298/298/84</td>
</tr>
<tr>
<td>38 W LED L830 Q</td>
<td>298/298/84</td>
</tr>
<tr>
<td>38 W LED L840 Q</td>
<td>298/298/84</td>
</tr>
</tbody>
</table>

#### Light Output Ratio LOR

- 100 %
- 0 %
- 100 %
- 0.00 (0:100)
- 1.00

#### UGR

- 100
- 1000
- 10000

#### Luminance in cd/m² based on 1900 lm

<table>
<thead>
<tr>
<th>Model</th>
<th>Luminance in cd/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W LED L830 Q</td>
<td>2000/1000/750/500/300</td>
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<tr>
<td>25 W LED L840 Q</td>
<td>2000/1500/1000/750/500</td>
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<td>2000/1000/500/300</td>
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<td>38 W LED L840 Q</td>
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</tr>
</tbody>
</table>

#### Order Information

- Please order fixing kit separately.

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**Technical drawings and specifications are available for download.**

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Please visit Zumtobel’s website for more detailed information and specifications.
**Installation LIGHT FIELDS surface-mount. and pendant luminaires**

**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

**LIGHT FIELDS LED A accessories**

- Transparent feed cable
  - 3x0.75 mm²: 1.0 m: 42 120 919
  - 3x0.75 mm²: 1.5 m: 42 120 900
  - 3x0.75 mm²: 10.0 m: 42 127 714
- 3x1.5 mm²: 1.0 m: 42 157 568
- 3x1.5 mm²: 1.5 m: 42 157 566
- 3x1.5 mm²: 10.0 m: 42 157 567
- 5x0.75 mm²: 1.0 m: 42 125 146
- 5x0.75 mm²: 1.5 m: 42 125 146
- 5x0.75 mm²: 10.0 m: 42 125 122
- 5x1.5 mm²: 1.0 m: 42 157 570
- 5x1.5 mm²: 1.5 m: 42 157 571
- Suspension systems
  - ASH1000 Cord suspension: 22 157 323
  - ASH2000 Cord suspension: 22 157 324
  - ASH5000 Cord suspension: 22 157 163
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.

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.

zumtobel.com/guarantee

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

zumtobel.com/sustainability
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