



ZUMTOBEL



LIGHT FIELDS

Recessed, surface-mounted, free-standing and pendant luminaire

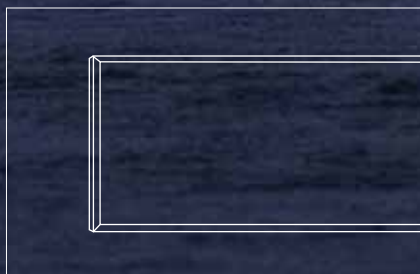
Perfect lighting quality and energy efficiency thanks to unique MPO+ micro-pyramidal optic combined with booster technology.

HUMAN ENERGY BALANCE

Lighting solutions for the balance between environment, energy and the individual.

LIGHT FIELDS Human Aspects

- Brilliant light thanks to micro-pyramidal optic
- Flexible interior design
- Ideal for screen-based work
- Minimalist, unobtrusive design
- Light source is hidden from direct view



Pleasant ambient lighting, supplemented by warm white accent lighting, gets the working day off to a good start.



LIGHT FIELDS' reduced lighting level is sufficient whenever enough daylight enters the room.



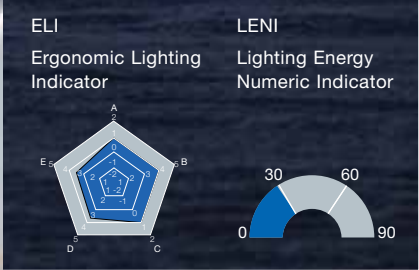
LIGHT FIELDS Energy Efficiency

- High light output ratio for surface-mounted/recessed and pendant luminaire
- Improved LIGHT FIELDS efficiency in the case of booster version
- Cluster arrangement for focused light in the task area
- Use of efficient T16 fluorescent lamps with good luminous efficiency
- DALI-compatibility allows integration into lighting management systems



Bright lighting which is similar to day-light avoids usual afternoon dips in concentration levels.

In the evening, light focused onto the task area ensures perfect visual conditions.



Lighting quality assessed on the basis of five criteria:
 A Visual performance
 B Vista
 C Visual comfort
 D Vitality
 E Empowerment

Energy consumption in kWh per annum and per square metre, based on EN 15193.

LIGHT FIELDS

Light on stage

The LIGHT FIELDS lighting system is unique in several respects: available as a direct surface-mounted or recessed luminaire, pendant or free-standing luminaire with direct/indirect light distribution or as a cluster light field which creates an initial impression of natural daylight, LIGHT FIELDS is a comprehensive range for office and interior lighting.

Design See the light, not the luminaire. Because of its pared-down, classic stylistic idiom, LIGHT FIELDS blends inconspicuously but highly effectively into interiors and architecture.

Brilliant optic The patented MPO+ micro-pyramidal optic delivers brilliant, glare-free light for perfect visual conditions when working at DSE workstations and in other situations. Lower luminance levels ensure that workstations can be arranged flexibly. LIGHT FIELDS ceiling-mounted luminaires can be positioned individually or in clusters as required, depending on room size.

Efficiency LIGHT FIELDS booster technology, with optimised light-source operating temperatures and silver-coated reflectors, makes sure that latest-generation luminaires achieve the very best light output ratios. Dimmable electronic ballasts leverage potential energy savings and improve people's individual lighting convenience.





Pure light
Purist design



DESIGN **LIGHT FIELDS** **SOTTASS ASSOCIATI**

“With LIGHT FIELDS, we have put into practice the idea of a flexible lighting module which allows architects and interior designers the greatest possible freedom to design and create when planning interiors – regardless of how big those spaces are or the demands that they make on the lighting.”





For designer Sottsass Associati, light rather than the luminaire was at the forefront of the process of designing and developing LIGHT FIELDS. The luminaire's design is correspondingly unobtrusive, and cannot fail to impress with its straightforward, slim lines and expressive, refined materiality. LIGHT FIELDS does not dominate the interior – it fits in discreetly without ever upstaging the architect's or designer's vision. 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.

www.zumtobel.com/lightfields



reddot design award

Minimalism

High-class technology

Innovation The patented MPO+ micro-pyramidal optic is now enhanced by trendsetting booster technology. Light output ratios are maximised by silver-coated reflectors and a Cool Spot cooler. The latest LIGHT FIELDS generation features dimmable ballasts as standard to allow custom light designs and tap into potential energy savings.



LIGHT FIELDS | Surface-mounted, recessed and pendant version

Minimalism

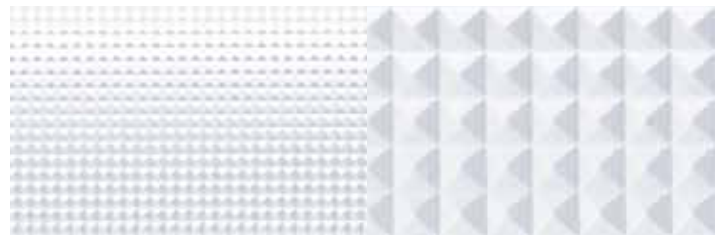
High-class technology



eco+ The new product label indicating a high-quality rating in terms of criteria relevant to consumption.

eco+ is a holistic product label evaluating all system components involved and the lighting quality of a luminaire. **eco+** falls below the levels specified by existing energy directives by as much as 20 %.

For more information on **eco+**, please visit www.zumtobel.com/eco

**MPO+**

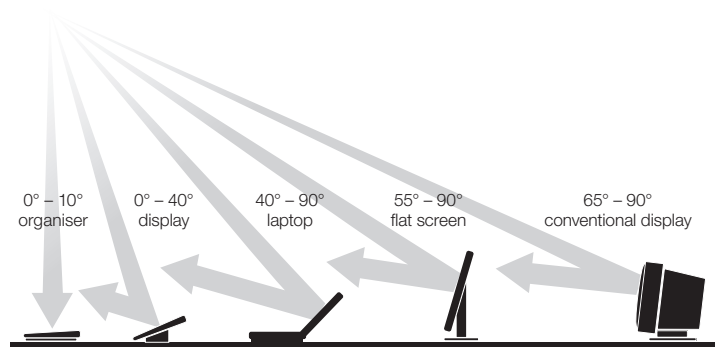
Scale 1:1 and 5:1

1500 x 300 mm / 600 x 600 mm

MPO+ Brilliant light thanks to precisely cut, sharp-edged micro-pyramids. HDTV-style lighting technology or 0.5 million pixels/m²; thanks to their crystalline structure, our newly developed micro-pyramids (1.5 x 1.5 mm) provide new levels of lighting comfort. The patented technology of the MPO+ micro-pyramidal optic reduces the luminance levels of the pendant, free-standing, surface-mounted and recessed luminaires and guarantees glare-free light at DSE workstations.

- High efficiency owing to accurate light direction with output ratios of up to 92 % purely direct and up to 96 % indirect/direct, at high direct ratio of 60–40 %
- Absorption of glare effect at steep angles, for applications involving steeply inclined displays
- Improved visual performance, thereby avoiding flagging mental concentration and excessive fatigue

The optical system The sandwich design of the MPO+ micro-pyramidal optic results in brilliant lighting. Together with two other layers, it forms an optical system that ensures glare control in conformity with relevant standards at flat angles (EN 12464) and reduced luminance at steep angles. This prevents reflected glare on steeply inclined displays of notebooks and on shiny surfaces.



LIGHT FIELDS

Understated and versatile

LIGHT FIELDS features impressive straight-line styling and high lighting quality. This makes LIGHT FIELDS ideal for use in many prestigious areas where importance is attached to high lighting quality and sophisticated design. LIGHT FIELDS blends effortlessly into the interior and is therefore especially suitable for flexible interior design. LIGHT FIELDS provides perfect lighting quality in offices, surgeries and educational establishments.

Dentist Dr. Martin Ladentrog, Graz / A

Architect: H. Fritz, technical office for interior design, Graz/A

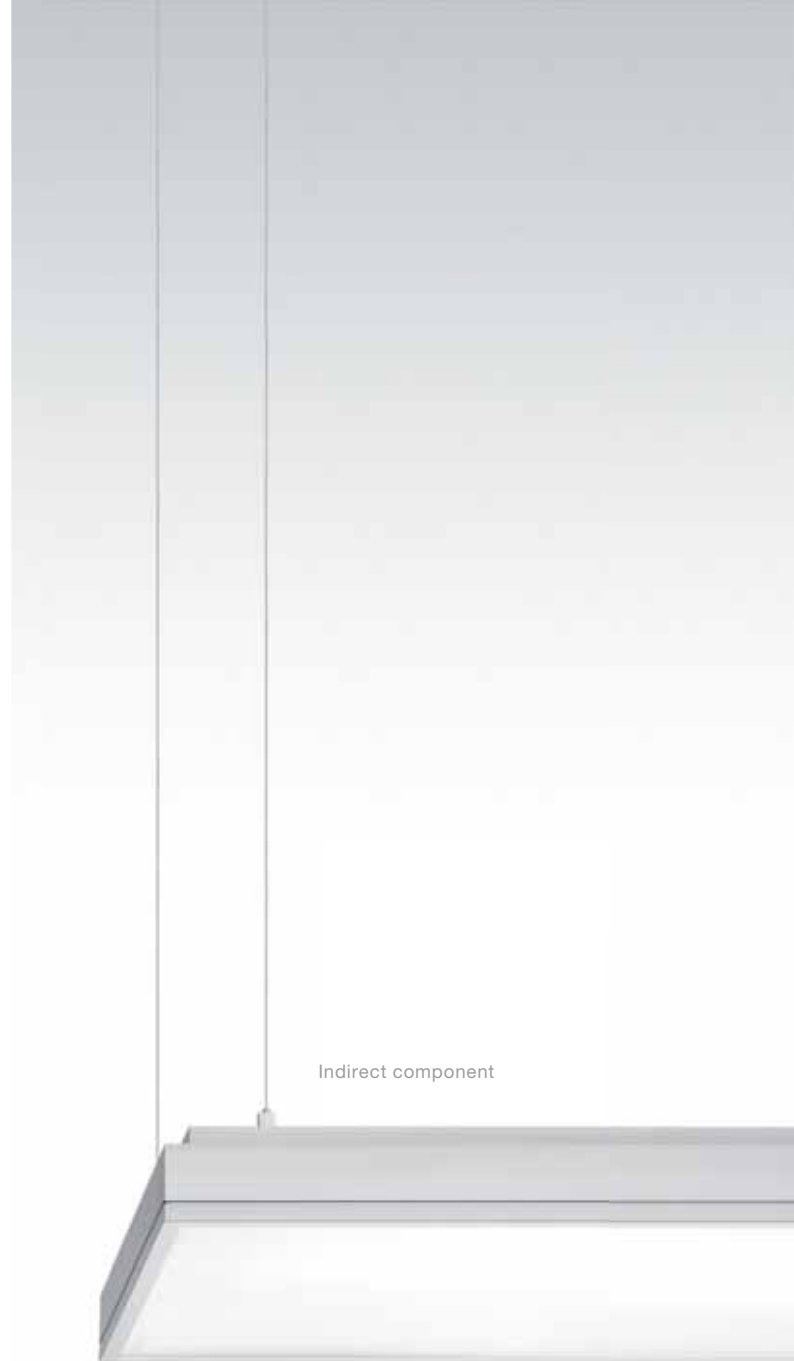
Lighting solution: LIGHT FIELDS surface-mounted and recessed luminaire





Systematic flexibility

Pendant, surface-mounted and recessed luminaire



LIGHT FIELDS **Pendant**

When suspended from the ceiling (min. pendant length 35 cm), the well-balanced ratio between indirect and direct light makes LIGHT FIELDS really impressive. Sufficient vertical illuminance levels ensure uniform room illumination and perfect contrast rendition. In addition, the extremely wide-angle indirect component gently and uniformly brightens up the ceiling.

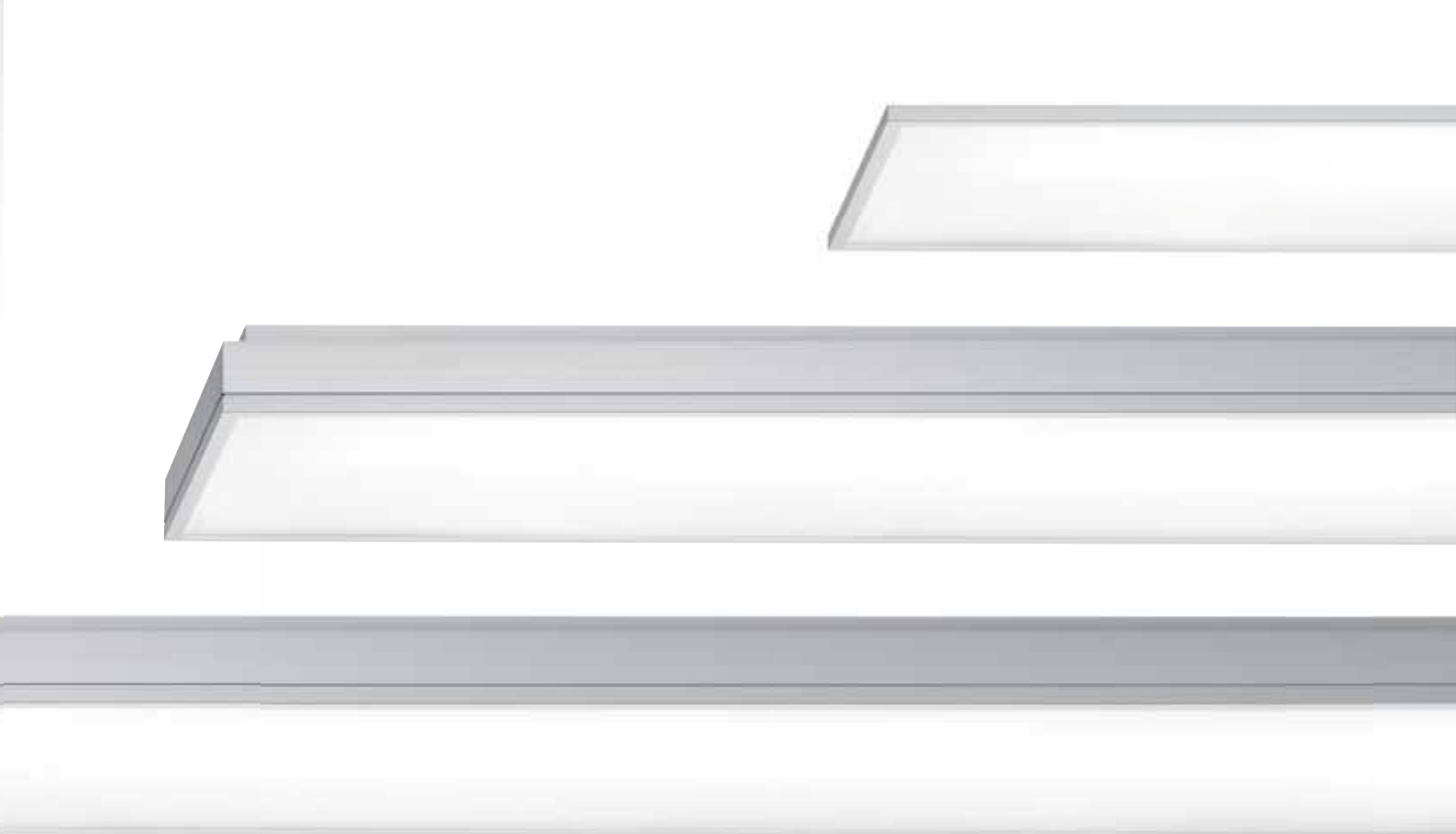
Individual luminaires, pendant version

1248 x 311

2/54 W

1548 x 311

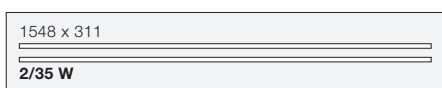
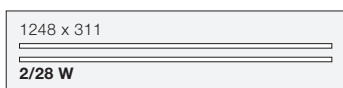
2/49 W



LIGHT FIELDS **Surface-mounted**

LIGHT FIELDS is recommended as a surface-mounted luminaire in rooms with comparatively low ceiling height. Its exclusive direct beam pattern is quite unique in terms of cutting reflected glare. LIGHT FIELDS' minimalist design and exceptionally shallow mounting height give it an almost two-dimensional appearance – like a flatscreen on the ceiling.

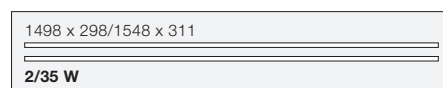
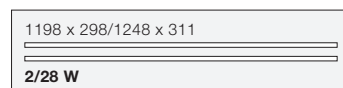
Individual luminaires, surface-mounted version



LIGHT FIELDS **Recessed**

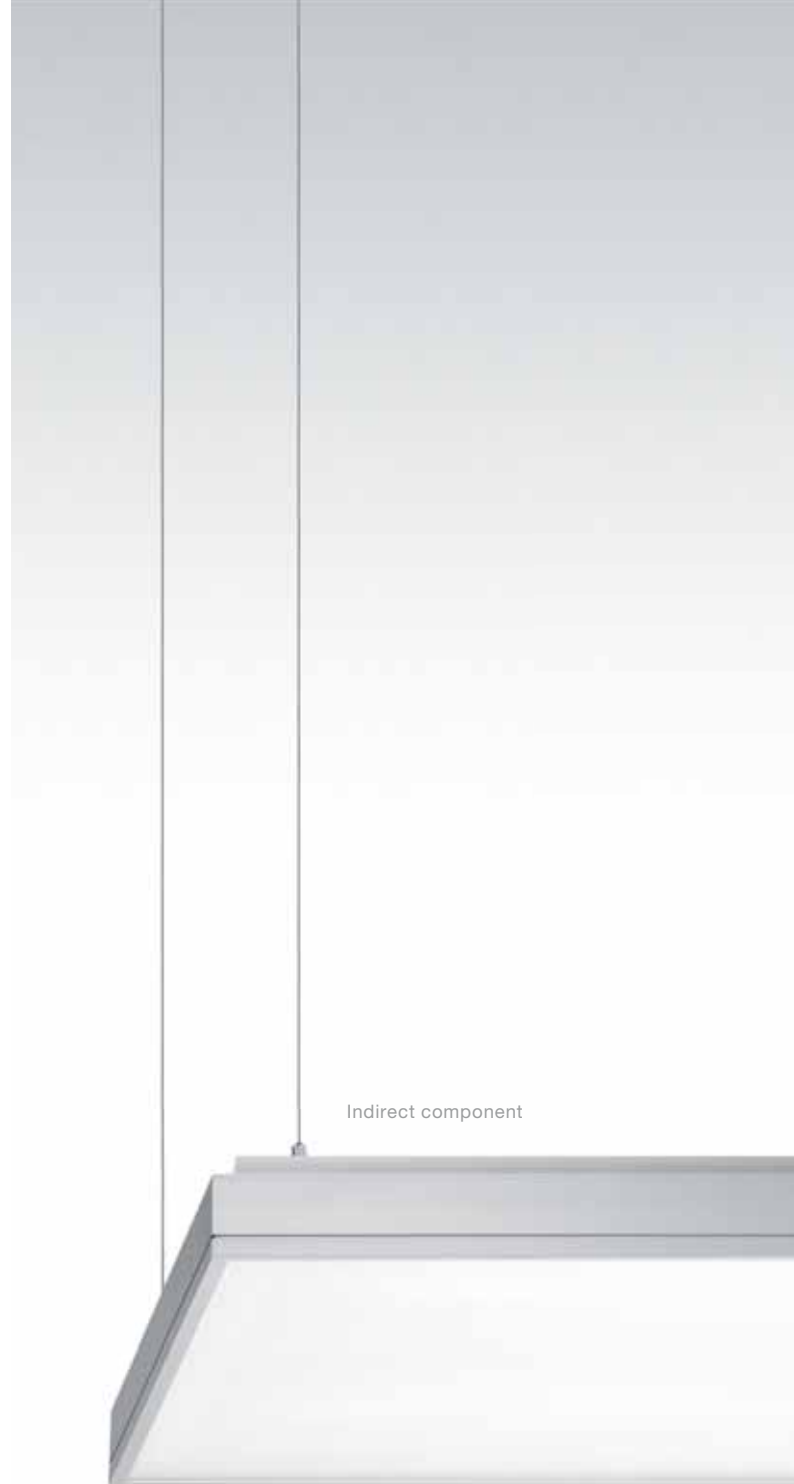
The recessed version of LIGHT FIELDS merges self-effacingly into its architectural setting, presenting its technical lighting strengths to impressive effect: conformity with relevant standards, all-round glare control and a high light output ratio. Another major plus point: the recessed luminaire blends seamlessly and inconspicuously into the ceiling, thus preserving a uniform, uncluttered ceiling appearance: its light has a similar effect to daylight.

Individual luminaires, recessed version



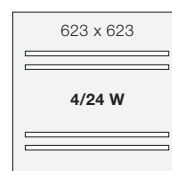
Square

Pendant, surface-mounted and recessed luminaire



LIGHT FIELDS Square **Pendant**

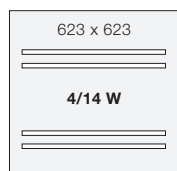
Individual luminaires, pendant version





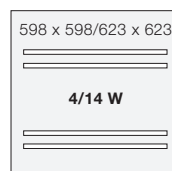
LIGHT FIELDS Square **Surface-mounted**

Individual luminaires, surface-mounted version



LIGHT FIELDS Square **Recessed**

Individual luminaire and compact luminaire



Pure skylight

Cluster – LIGHT FIELDS for task areas



LIGHT FIELDS Cluster **Surface-mounted**

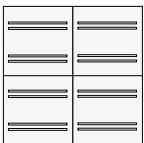
Cluster In situations where task areas are confined to comparatively small spaces, it is advantageous to put efficient lighting solutions into practice using the LIGHT FIELDS cluster version. Unlike traditional office lighting using individual luminaires, there is a close spatial relationship between the cluster and the task area. Accordingly, light is related to the workstation: bright, direct light is radiated down onto the task area where people work at their PCs, read through files, treat patients or confer with their colleagues. The qualities of the LIGHT FIELDS cluster, which resemble those of daylight, not only provide for a very special lighting scene, but also create a harmonious room impression. The cluster fits in discreetly with the ceiling, thus becoming an integral part of the interior design.



LIGHT FIELDS Cluster **Recessed**

Recessed/surface-mounted cluster versions

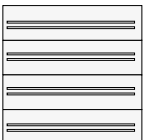
A 4 x 4/14 W



C 4 x 2/28 W



B 4 x 2/28 W



D 6 x 4/14 W



LIGHT FIELDS – Model	Visual representation	One-person office	Two-person office	Three-person office
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RECESSED

L-FIELDS E 4 x 4/14 W T16	A	■	■	
L-FIELDS E 4 x 2/28 W T16	B		■	
L-FIELDS E 4 x 2/28 W T16	C		■	
L-FIELDS E 6 x 4/14 W T16	D			■

SURFACE-MOUNTED

L-FIELDS A 4 x 4/14 W T16	A	■	■	
L-FIELDS A 4 x 2/28 W T16	B		■	
L-FIELDS A 4 x 2/28 W T16	C		■	
L-FIELDS A 6 x 4/14 W T16	D			■

Square and compact

Small LIGHT FIELDS MINI

LIGHT FIELDS MINI rounds out this luminaire range with units that are very compact. The small visible dimensions of the recessed luminaire produce a particularly well-proportioned effect in small spaces. LIGHT FIELDS MINI features the same unobtrusive design and advanced lighting technology as its larger brethren, and is the ideal luminaire for prestigious interiors, lobbies, foyers, circulation areas or shops. With this recessed model, the lighting concept of a building can be implemented in a consistent design.

298 x 298/310 x 310



1/32 W 1/42 W 2/32 W



The external gear box enables a mounting depth of just 115 mm, which is why the luminaire can be installed in most ceilings. Installation is carried out using the levelling kit supplied as standard.

Mannheimer Swartling, Göteborg / S

Architect: Lund & Valentin Architektur & Design AB, Göteborg/S

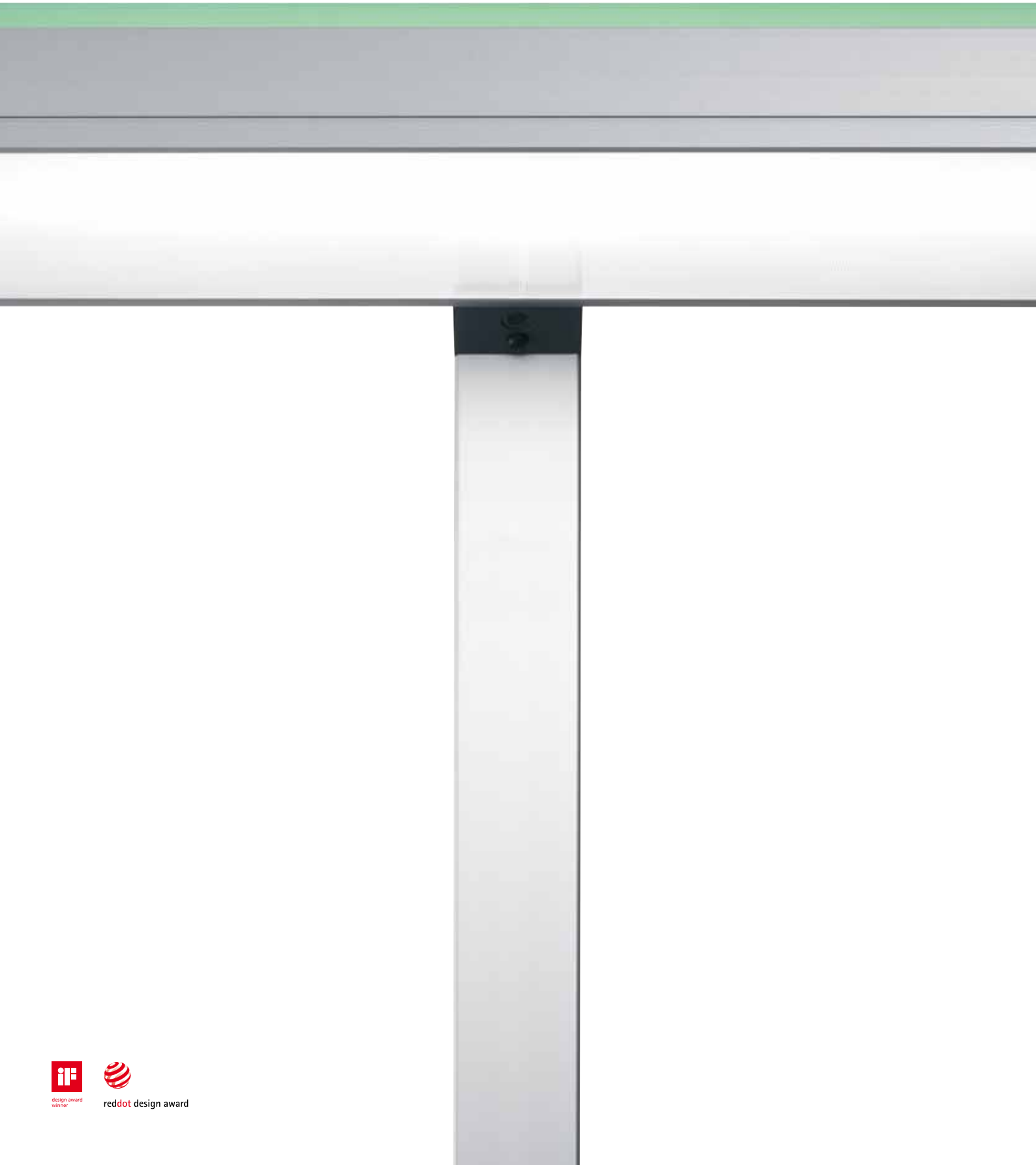
Lighting solution: LIGHT FIELDS MINI recessed luminaire





LIGHT FIELDS' pure individualism

Free-standing and wall-mounted luminaires – the classics



design award
winner



red dot design award



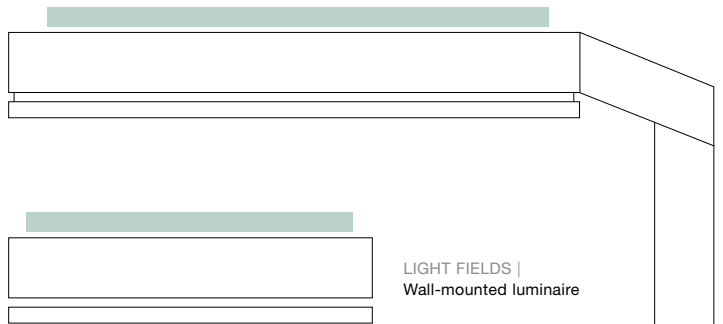
LIGHT FIELDS | Free-standing luminaire

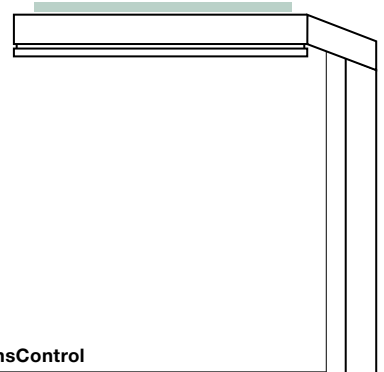
LIGHT FIELDS' pure individualism

Free-standing and wall-mounted luminaires – the classics



LIGHT FIELDS Free-standing luminaire New trends in office working, the desire for individuality, and frugal use of energy are all encouraging demand for variable lighting solutions. The LIGHT FIELDS free-standing luminaire – with its slim-line, clear styling and expressive materiality – is always easy to position perfectly near the workstation and it can be moved whenever wanted or required without any effort. Here too, the unique micro-pyramidal optic guarantees perfect glare-free light. Because of its highly efficient optic, the LIGHT FIELDS free-standing luminaire needs just three rather than four lamps; this reduces the installed load and energy consumption. Its asymmetrical indirect component provides pleasant general lighting and necessary brightening deep in the room, even where the luminaire is positioned close to a window. The **LIGHT FIELDS wall-mounted luminaire** has the same design and look and tops off the product portfolio.



**Cleaning**

Simply tilting up the reflector and light source housing makes it possible to clean the LIGHT FIELDS free-standing luminaire effortlessly and quickly without resorting to a protective dust cover which would reduce efficiency.

SensControl

The LIGHT FIELDS free-standing luminaire is controlled fully automatically, thus minimising energy consumption, thanks to a built-in brightness sensor and built-in presence detector.

SwitchDim

As an alternative to SensControl, the LIGHT FIELDS free-standing luminaire can be switched and dimmed by a modern metallic momentary-action switch. The luminaire is switched on/off at the press of a button. Pressing the button longer increases or reduces brightness. The previously set dimming level is preserved, even after the luminaire is switched off.

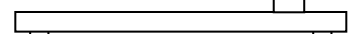
Operation

The clearly laid-out keypad is ergonomically located on the stand. The (+) and (-) keys enable the user to adjust the desired illuminance in the task area quickly and easily. Switch-off times can be varied and the sensor and detector can be individually (de)activated by corresponding keypress combinations.*

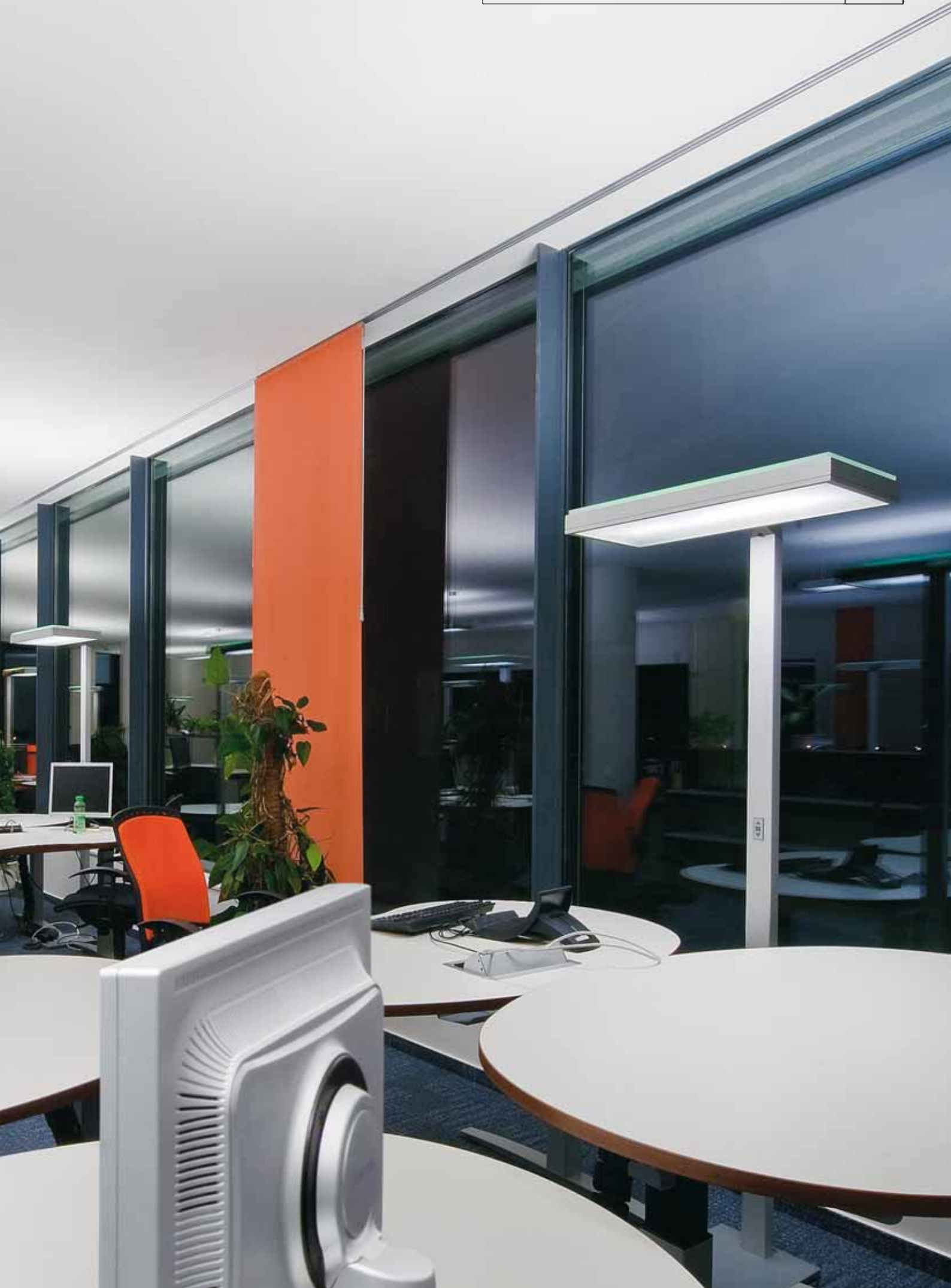


* Details at

www.zumtobel.com/stehleuchten







LIGHT FIELDS in a 3-AXIS OFFICE

Optimised for task areas

LIGHT FIELDS combines a pleasant room effect with first-class lighting quality. The purely direct recessed or surface-mounted luminaires deliver outstanding energy efficiency in low-ceilinged rooms. The pendant luminaires also enhance the general room ambience by brightening up the ceiling.

Efficiency

- 2/28 W LIGHT FIELDS boosters provide the same luminous flux as 2/35 W LIGHT FIELDS standard
- Identical illuminance with reduced installed load and lower energy consumption

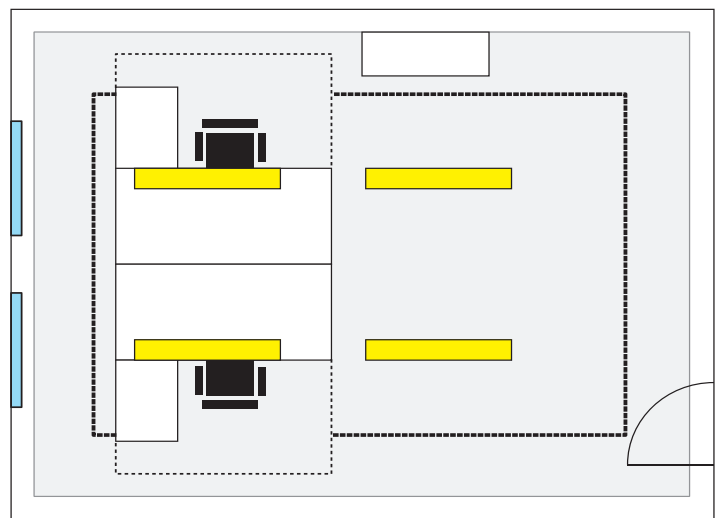
Maintenance

- Identical installed load – reduced maintenance factor thanks to longer maintenance intervals using LIGHT FIELD booster
- Reduced maintenance factor applies to booster version of recessed, surface-mounted and pendant luminaires

EFFICIENCY	Recessed	Recessed with booster
Wattage	35 W	28 W
Luminaires / number of lamps	4 / 2	4 / 2
Installed load per luminaire [W]	75.5	61.3
Total installed load [W]	302	245.2
Light output ratio [%]	70	90
Mean luminance above 65° [cd/m ²]	< 1000	< 1500
UGR axial / transverse	< 16 / < 16	< 19 / < 19
Reference maintenance factor	0.67	0.67
Mean illuminance E _m in task area [lx]	587	592
Uniformity g ₁ (with 0.25 m measuring grid)	0.61	0.61
Mean illuminance E _m in ambient area [lx]	588	594
Mean vertical illuminance E _{m,v} cabinet [lx]	276	279
W/m²	13.81	11.21
W/m ² / 100 lx	2.7	2.18

3-axis office

LIGHT FIELDS █
 Task area
 Ambient area



MAINTENANCE FACTOR

	Recessed	Recessed with booster	I/D pendant	I/D pendant with booster
Wattage	28 W	28 W	49 W	49 W
Luminaires / number of lamps	4 / 2	4 / 2	4 / 2	4 / 2
Installed load per luminaire [W]	61.3	61.3	106.1	106.1
Total installed load [W]	245.2	245.2	424.4	424.4
Light output ratio [%]	70	90	86	97
Mean luminance above 65° [cd/m²]	< 1000	< 1500	< 1000	< 1000
UGR axial / transverse	< 16 / < 16	< 19 / < 19	< 13 / < 13	< 13 / < 13
Reference maintenance factor	0.8	0.67	0.8	0.67
Mean illuminance E _m in task area [lx]	557	593	786	713
Uniformity g ₁ (with 0.25 m measuring grid)	0.61	0.61	0.6	0.61
Mean illuminance E _m in ambient area [lx]	556	593	785	711
Mean vertical illuminance E _{m,v} cabinet [lx]	255	279	367	344
W/m²	11.21	11.21	19.41	19.41
W/m² / 100 lx	2.32	2.19	2.88	3.18

Reference room:
 Axial dimension 1.35 m, room height 2.8 m, room depth 5.4 m, pendant length 0.4 m,
 standard reflection factors 70/50/20, window 16 %

LIGHT FIELDS in open-plan offices

Optimised for task areas

The economic benefits of LIGHT FIELDS are especially felt in open-plan offices:

Efficiency

- Flexible interior design, regardless of luminaire arrangement
- 2/28 W booster with same luminous flux as 2/35 W standard
- Lighting solutions with installed loads of less than 2 W/m²/100 lx or 10 W/m² are possible
- Slightly higher glare ratings in return for significant improvement in energy efficiency

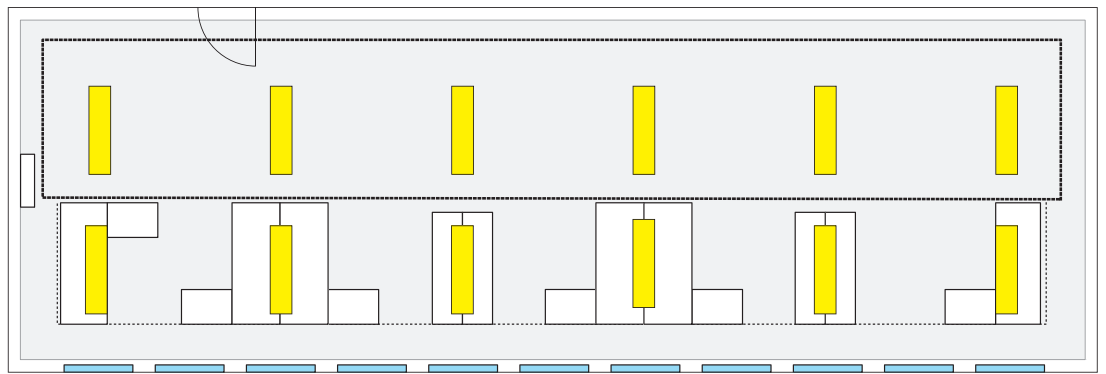
Maintenance

- Identical installed load – reduced maintenance factor thanks to longer maintenance intervals using LIGHT FIELD booster

EFFICIENCY	Recessed	Recessed with booster
Wattage	35 W	28 W
Luminaires / number of lamps	12 / 2	12 / 2
Installed load per luminaire [W]	75.5	61.3
Total installed load [W]	906	735.6
Light output ratio [%]	70	90
Mean luminance above 65° [cd/m ²]	< 1000	< 1500
UGR axial / transverse	< 16 / < 16	< 19 / < 19
Reference maintenance factor	0.67	0.67
Mean illuminance E _m in task area [lx]	500	506
Uniformity g ₁ (with 0.25 m measuring grid)	0.72	0.73
Mean illuminance E _m in ambient area [lx]	450	456
Mean vertical illuminance E _{m,v} cabinet [lx]	264	267
W/m²	10.36	8.41
W/m ² / 100 lx	2.49	1.99

Open-plan office

LIGHT FIELDS
 Task area
 Ambient area



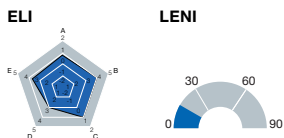
MAINTENANCE FACTOR	Recessed	Recessed with booster	I/D pendant	I/D pendant with booster
Wattage	35 W	35 W	49 W	49 W
Luminaires / number of lamps	12 / 2	12 / 2	12 / 2	12 / 2
Installed load per luminaire [W]	75.5	75.5	106.1	106.1
Total installed load [W]	906	906	1273.2	1273.2
Light output ratio [%]	70	89	86	97
Mean luminance above 65° [cd/m²]	< 1000	< 1500	< 1000	< 1000
UGR axial / transverse	< 16 / < 16	< 19 / < 19	< 13 / < 13	< 13 / < 13
Reference maintenance factor	0.8	0.67	0.8	0.67
Mean illuminance E_m in task area [lx]	596	632	678	616
Uniformity g_1 (with 0.25 m measuring grid)	0.72	0.73	0.71	0.72
Mean illuminance E_m in ambient area [lx]	537	571	610	557
Mean vertical illuminance $E_{m,v}$ cabinet [lx]	310	334	346	324
W/m²	10.36	10.36	14.55	14,55
W/m² / 100 lx	2.09	1.96	2.58	2.82

Reference room:
 Axial dimension 1.35 m, room height 2.8 m, room depth 5.4 m,
 pendant length 0.4 m, standard reflection factors 70/50/20, window 16 %

LIGHT FIELDS

Light for working and creative designing

The increasingly flexible way in which we work imposes new demands on office organisation and office lighting. Workstations are becoming more mobile and are configured as required, re-grouped and rearranged, and have to cope with the changing requirements of various types of activities. LIGHT FIELDS' excellent technical lighting characteristics give users total freedom when arranging workstations in a room. This applies even more because LIGHT FIELDS can be installed not only in a parallel configuration but also at an angle to the window frontage, or in a strictly task area-related layout; this provides additional scope when it comes to office organisation.



ELI: Besides the contemporary, unadorned look of LIGHT FIELDS pendant luminaires, their light distribution with direct and indirect components creates pleasant shadow detail and improves recognition of objects in the room. Uniform lighting of the task area and ambient area facilitates flexible use of space.
LENI: 16.29 kWh/m²a

Fraunhoferinstitut Munich / D
Architect: Mills Beaumont Levy Channon, Manchester/GB
Lighting solution: LIGHT FIELDS pendant luminaire 1248 x 311 mm – 2/54 W



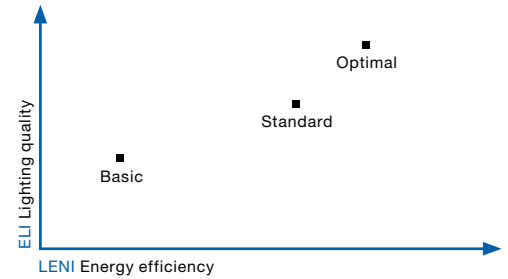


LIGHT FIELDS

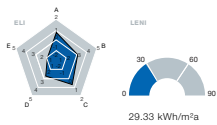
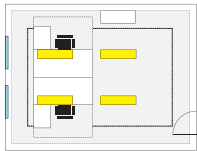
Human Aspects + Energy Efficiency = Humanenergy Balance

Balanced lighting solutions 3-axis office

Striking a perfect balance between lighting which is convenient and easy to operate for individuals and greater energy efficiency is crucial to good office lighting. As well as having a positive effect on the appearance of a room, supplementary light for accenting or brightening up walls has an impact on the wellbeing and productivity of people who work in the room.



Basic



- LIGHT FIELDS Recessed, standard 2/35 W
- Switched

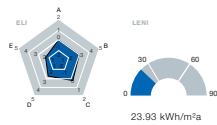
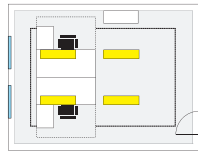
Lighting quality

- Optimal glare limitation thanks to MPO+ micro-pyramidal optic
- Flexible interior design

Energy efficiency

- Efficient T16 fluorescent lamps with good luminous efficiency

Standard



- LIGHT FIELDS Recessed, booster 2/28 W
- Dimmable (dim²save)

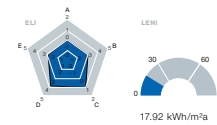
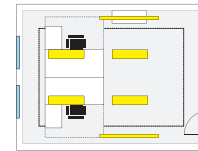
Lighting quality

- Equivalent lighting level with smaller installed load
- Slightly reduced glare limitation
- Individual adjustment of lighting level by manual dimming – greater empowerment

Energy efficiency

- Improved luminous efficiency thanks to booster technology
- Manual dimming using dim²save cuts energy consumption at appropriate times

Optimal



- LIGHT FIELDS Recessed, booster 2/28 W
- Wall brightening thanks to SUPERSYSTEM wallwasher
- Scenes, daylight-based lighting changes (Luxmate DIMLITE)

Lighting quality

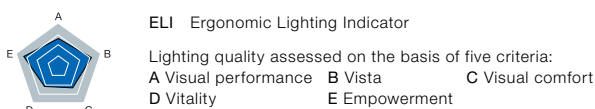
- Additional wall brightening in direction of view improves alertness and motivation of employees and produces pleasant light distribution

Energy efficiency

- Efficiency of booster technology is improved further still by daylight-based control of ambient lighting

Underlying conditions:

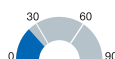
3-axis office 5.40 m x 5.05 m, 8 hrs., 250 days/year



ELI Ergonomic Lighting Indicator

Lighting quality assessed on the basis of five criteria:

A Visual performance B Vista C Visual comfort
D Vitality E Empowerment

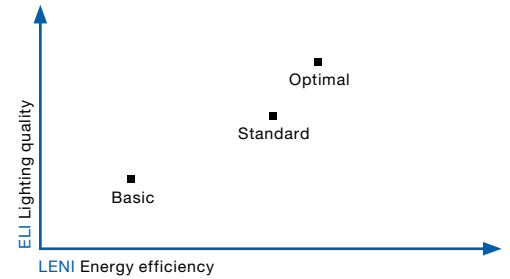


LENI Lighting Energy Numeric Indicator

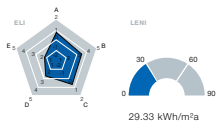
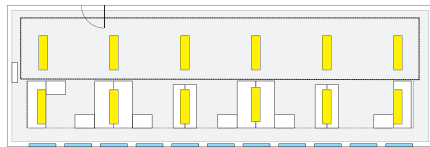
Energy consumption in kWh per annum and per square metre, based on EN 15193.

Balanced lighting solutions Open-plan office

Dividing up the lighting into work and non-work zones structures the way a room is perceived and reduces expenditure on energy.



Basic



- LIGHT FIELDS Surface mounted, standard 2/35 W
- Switched

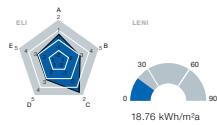
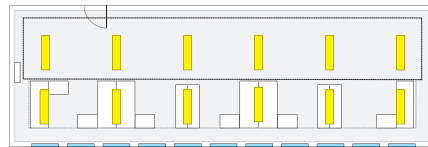
Lighting quality

- Delivers optimum visual conditions at the workstation and throughout the room

Energy efficiency

- Efficient T16 fluorescent lamps with good luminous efficiency

Standard



- LIGHT FIELDS Pendant direct/indirect 2/49 W booster
- Daylight-based dimming

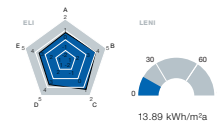
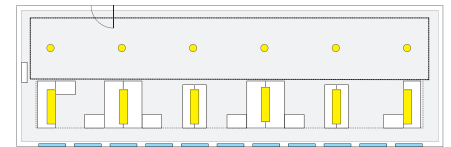
Lighting quality

- Direct and indirect components ensure well-balanced light distribution and shadow detail in the room

Energy efficiency

- Despite the larger installed load, actual energy consumption can be reduced by daylight-based lighting control and booster technology

Optimal



- Zoning LIGHT FIELDS Pendant direct/indirect 2/49W booster on task area
- Aisles lit by LED downlights
- Scenes, daylight-based lighting changes (Luxmate DIMLITE)

Lighting quality

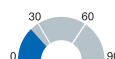
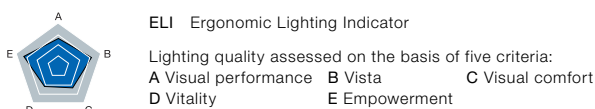
- Separation of task area lighting and aisle lighting creates a visual hierarchy in the room and focuses light onto the required areas

Energy efficiency

- Restricting the lighting to task areas saves energy
- Use of efficient LED downlights in aisles cuts expenditure on energy
- Scenes and daylight-based lighting control also improve the energy efficiency of the entire system

Underlying conditions:

Open-plan office 5.40 m x 16.20 m, 8 hrs., 250 days/year



LENI Lighting Energy Numeric Indicator

Energy consumption in kWh per annum and per square metre, based on EN 15193.



www.zumtobel.com/lightfields

Design: Sottsass Associati

LIGHT FIELDS

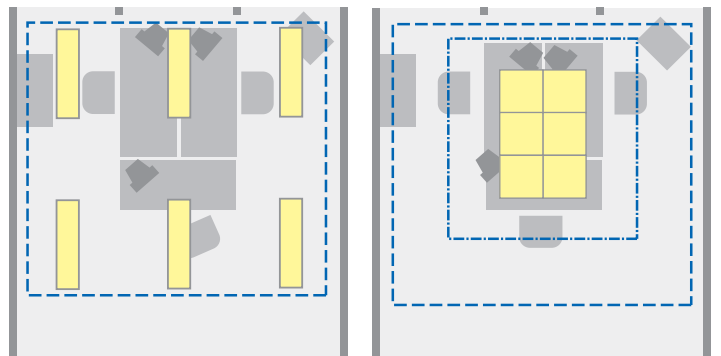
The ideal family for high-tech workplaces – best lighting quality thanks to micro-pyramidal lighting technology.

The recessed version of LIGHT FIELDS reveals the real strength of its technical lighting performance above all in relatively low-ceilinged rooms: all-round glare control in conformity with standards, with a high light output ratio. Major asset: the recessed luminaire blends seamlessly and inconspicuously into the ceiling, thus preserving a uniform, uncluttered ceiling appearance.

Traditional or innovative? Light that meets the standards.

LIGHT FIELDS opens up completely new office lighting possibilities by making it possible to arrange luminaires in two different ways. The traditional individual luminaire version or the innovative cluster arrangement.

Thanks to an LOR increase of up to 30 % and the general use of dimmable ballasts, LIGHT FIELDS **booster luminaires** offer huge potential for saving energy. Due to the luminaires' higher luminous flux levels, the installed load of the lighting system can be reduced or the maintenance intervals extended.



... Shared properties
LIGHT FIELDS

- Optic frame made of anodised aluminium
- MPO optic can be removed without tools
- 960 °C version available upon request
- „Dimmable DALI“ luminaires are fitted with a DALI-controllable electronic ballast
- Luminaire pre-wired using halogen-free leads
- The „dim²save“ luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

LIGHT FIELDS E, recessed, individual luminaire



- Flat housing made of painted sheet steel
- Particularly suitable for glare control for flat horizontal displays
- Single-piece MPO+ micro-pyramidal optic for a seamless look, employing multi-layer technology, with defined glare-free light emission $L < 1000 \text{ cd/m}^2$
- Ultra-efficient MPO-plus booster optic for maximum light output and $L < 1500 \text{ cd/m}^2$ optional
- LIGHTFIELDS booster luminaires are fitted with dimmable electronic ballasts



	L/W/H	kg	Order no.	Order no.
Dimmable for module 600				
2/24 W T16	598/598/63	6.1	42 176 782	42 918 689
2/28 W T16	1198/298/63	6.5	42 176 790	42 918 691
2/35 W T16	1498/298/63	7.7	42 176 798	42 918 694
4/14 W T16	598/598/63	6.0	42 176 805	42 918 697

	L/W/H	kg	Order no.	Order no.
Dimmable for module 600 with Booster optic				
2/28 W T16	1198/298/63	6.1	42 178 000	42 178 156
2/35 W T16	1498/298/63	7.7	42 178 001	42 178 158
4/14 W T16	598/598/63	6.0	42 178 002	42 178 160

	L/W/H	kg	Order no.	Order no.
Electronic ballast for module 600				
2/24 W T16	598/598/63	6.1	42 176 780	
2/28 W T16	1198/298/63	6.5	42 176 788	
2/35 W T16	1498/298/63	7.7	42 176 796	
4/14 W T16	598/598/63	6.0	42 176 804	

For 600 module, glow-wire test:

	L/W/H	kg	Order no.	Order no.
960 °Celsius				
2/24 W T16	598/598/63	6.1	42 176 781	42 176 783
2/28 W T16	1198/298/63	6.8	42 176 789	42 176 791
2/35 W T16	1498/298/63	8.3	42 176 797	42 176 799

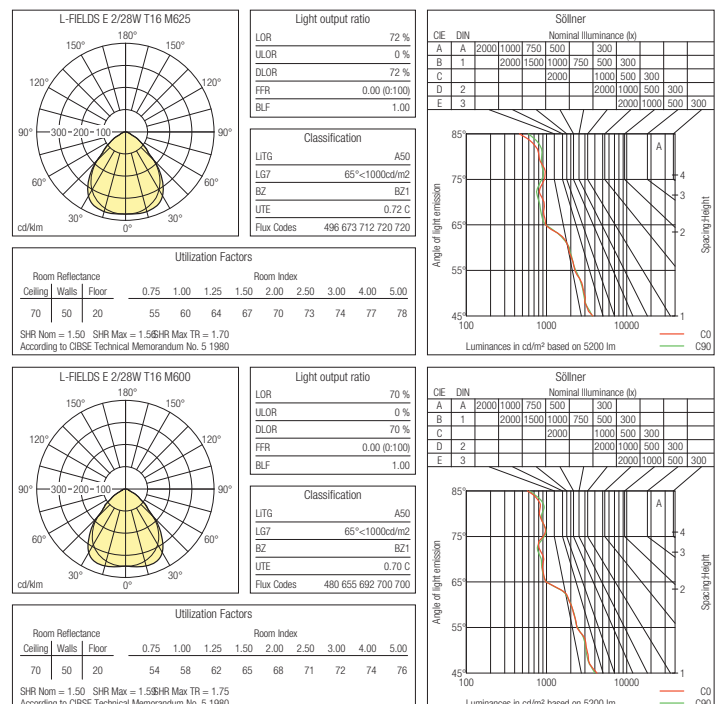
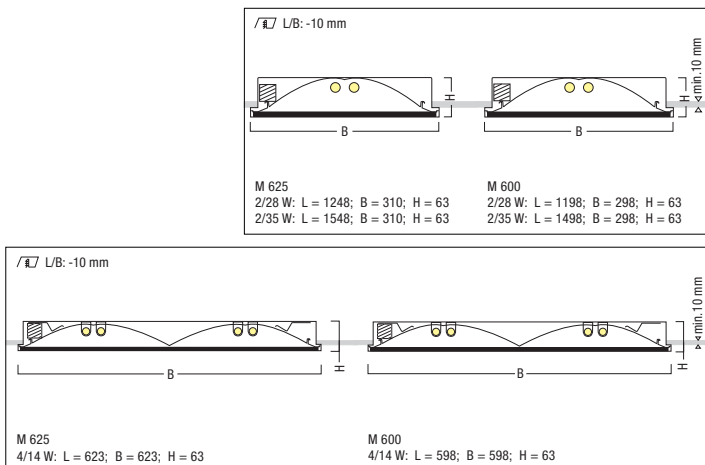
	L/W/H	kg	Order no.	Order no.
Dimmable for module 625				
2/24 W T16	623/623/63	6.2	42 176 786	42 918 597
2/28 W T16 eco*	1248/311/63	6.5	42 176 794	42 918 580
2/35 W T16 eco*	1548/311/63	7.7	42 176 802	42 918 583
4/14 W T16	623/623/63	6.2	42 176 808	42 918 586

	L/W/H	kg	Order no.	Order no.
Dimmable for module 625 with Booster optic				
2/28 W T16 eco*	1248/311/63	6.2	42 177 997	42 178 157
2/35 W T16 eco*	1548/311/63	7.7	42 177 998	42 178 159
4/14 W T16 eco*	623/623/63	6.2	42 177 999	42 178 161

	L/W/H	kg	Order no.	Order no.
Electronic ballast for module 625				
2/24 W T16	623/623/63	6.2	42 176 785	
2/28 W T16	1248/311/63	6.5	42 176 793	
2/35 W T16	1548/311/63	7.7	42 176 801	
4/14 W T16	623/623/63	6.2	42 176 807	

Accessory

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



LIGHT FIELDS E, recessed, cluster



- [...]
 - Luminaire cluster for illuminating work areas
 - Particularly suitable for glare control for flat horizontal displays
 - Visually continuous luminaire cluster comprises lighting modules with flat housing made of painted sheet steel
 - Single-piece MPO+ micro-pyramidal optic for a seamless look, employing multi-layer technology, with defined glare-free light emission $L < 1000 \text{ cd/m}^2$ at $60^\circ/65^\circ$

Dimmable for module 600

	kg	Order no.	Order no.
4x2/28 W T16 1200x1200	25.8	42 176 814	42 178 095
4x2/28 W T16 2400x600	25.8	42 176 816	42 178 097
4x4/14 W T16 1200x1200	23.9	42 176 820	42 178 099
6x4/14 W T16 1800x1200	35.9	42 176 824	42 178 101

Electronic ballast for module 600

	kg	Order no.	Order no.
4x2/28 W T16 1200x1200	25.8	42 176 810	
4x2/28 W T16 2400x600	25.8	42 176 812	
4x4/14 W T16 1200x1200	23.9	42 176 818	
6x4/14 W T16 1800x1200	35.9	42 176 822	

Dimmable for module 625

	kg	Order no.	Order no.
4x2/28 W T16 1250x1250 <i>eco</i> ⁺	25.8	42 176 815	42 178 096
4x2/28 W T16 2500x625 <i>eco</i> ⁺	25.8	42 176 817	42 178 098
4x4/14 W T16 1250x1250	26.0	42 176 821	42 178 100
6x4/14 W T16 1875x1250	39.0	42 176 825	42 178 102

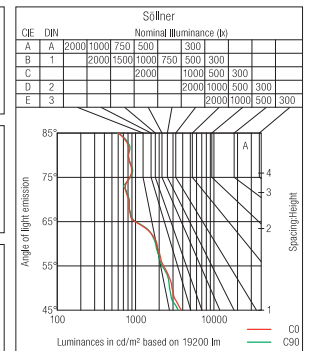
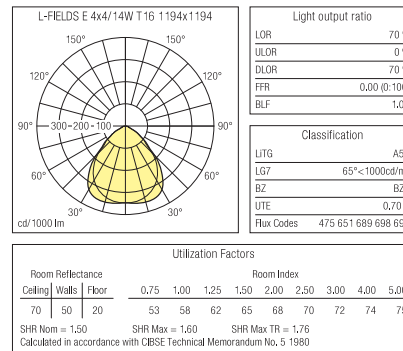
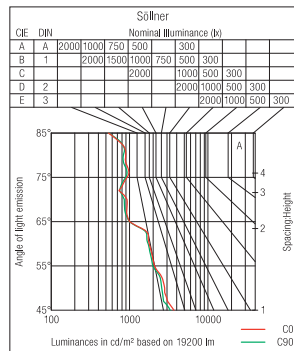
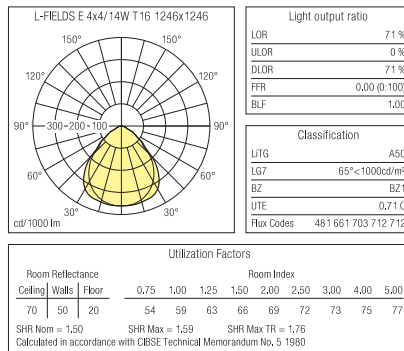
Electronic ballast for module 625

	kg	Order no.	Order no.
4x2/28 W T16 1250x1250	25.8	42 176 811	
4x2/28 W T16 2500x625	25.8	42 176 813	
4x4/14 W T16 1250x1250	26.0	42 176 819	
6x4/14 W T16 1875x1250	39.0	42 176 823	

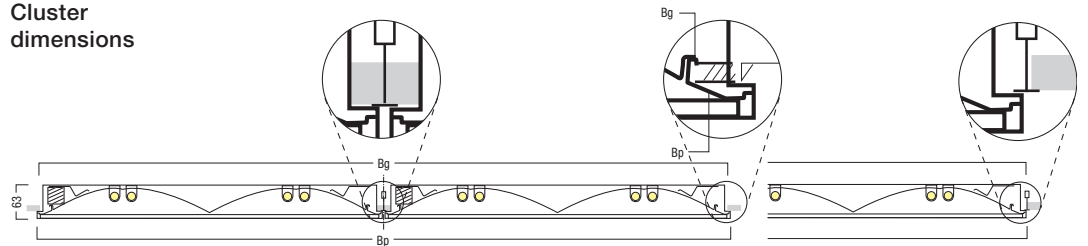
Accessory

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

Number of installation kits for recessed cluster corresponds with number of modules (e.g. 4x4/14 = 4 installation kits).



Cluster dimensions



1 x 4	4 x 2/28 W	
3 x 2	6 x 4/14 W	
2 x 2	4 x 4/14 W	
2 x 2	4 x 2/28 W	

	Axial dimensions		product dimensions		sawn cut-out	
	La	Ba	Lp	Bp	Lg	Bg
Modul 625						
4 x 4/14 W	2 x 625	2 x 625	2 x 623	2 x 623	1236	1236
4 x 2/28 W	2 x 1250	2 x 312	2 x 1248	2 x 310	2486	610
4 x 2/28 W	1 x 1250	4 x 312	1 x 1248	4 x 310	1238	1230
6 x 4/14 W	3 x 625	2 x 625	3 x 623	2 x 623	1859	1236
Modul 600						
4 x 4/14 W	2 x 600	2 x 600	2 x 598	2 x 598	1186	1186
4 x 2/28 W	2 x 1200	2 x 300	2 x 1198	2 x 298	2386	586
4 x 2/28 W	1 x 1200	4 x 300	1 x 1198	4 x 298	1188	1182
6 x 4/14 W	3 x 600	2 x 600	3 x 598	2 x 598	1784	1186

LIGHT FIELDS Mini E 300 recessed

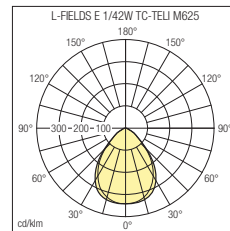
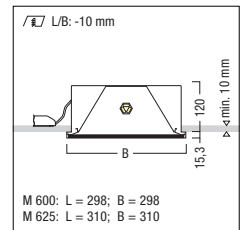


- [...]
 - Housing made of painted sheet steel
 - Direct lighting component provided by single-piece MPO+ micro-pyramidal optic for a seamless look, employing multi-layer technology, with defined glare-free light emission
 - Particularly suitable for corridor and shop areas
 - Complete luminaire comprises luminaire and external gear box (ballast unit)
 - Amalgam lamps recommended

	kg	Order no.	Order no.
Dimmable for module 600			
1/32 W TC-TELI	2.7	<i>dimmable Dali</i> 42 159 211	<i>dim²save</i> 42 918 699
1/42 W TC-TELI	2.7	42 159 213	42 918 701
2/32 W TC-TELI	2.8	42 159 212	42 918 704
Electronic ballast for module 600			
1/32 W TC-TELI	2.7	<i>electronic</i> 42 159 217	
1/42 W TC-TELI	2.7	42 159 207	
2/32 W TC-TELI	2.8	42 159 208	
Dimmable for module 625			
1/32 W TC-TELI	2.7	<i>dimmable Dali</i> 42 159 214	<i>dim²save</i> 42 918 588
1/42 W TC-TELI	2.8	42 159 216	42 918 591
2/32 W TC-TELI	2.8	42 159 215	42 918 596
Electronic ballast for module 625			
1/32 W TC-TELI	2.7	<i>electronic</i> 42 159 218	
1/42 W TC-TELI	2.7	42 159 209	
2/32 W TC-TELI	2.8	42 159 210	

Accessory

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

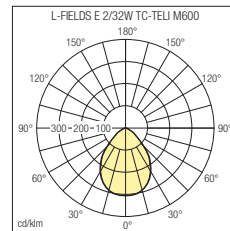
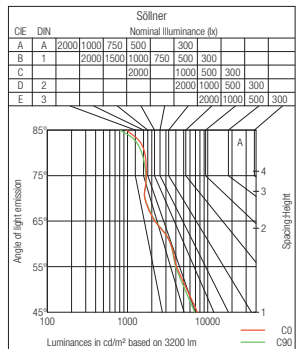


Light output ratio	
LOR	58 %
ULOR	0 %
DLOR	58 %
FFR	0.00 (0:101)
BLF	1.00

Classification	
LITG	A50
LG7	
BZ	BZ1/2.5/6Z2
UTE	0.58 B
Flux Codes	414 545 578 585 585

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	43	48	51	53	57	59	60	62	63

SHR Nom = 1.25 SHR Max = 1.4 SHR Max TR = 1.57
According to CIBSE Technical Memorandum No. 5 1980

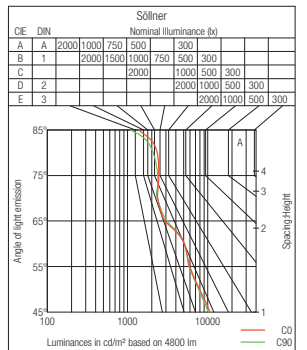


Light output ratio	
LOR	49 %
ULOR	0 %
DLOR	49 %
FFR	0.00 (0:100)
BLF	1.00

Classification	
LITG	A60
LG7	
BZ	BZ1
UTE	0.49 B
Flux Codes	352 457 483 488 488

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	36	40	43	45	47	49	50	52	53

SHR Nom = 1.25 SHR Max = 1.4 SHR Max TR = 1.53
According to CIBSE Technical Memorandum No. 5 1980





www.zumtobel.com/lightfields

Design: Sottsass Associati

LIGHT FIELDS

The ideal family for high-tech workplaces – best lighting quality thanks to micro-pyramidal lighting

The **recessed version** of LIGHT FIELDS reveals the real strength of its technical lighting performance above all in relatively low-ceilinged rooms: all-round glare control in conformity with standards, with a high light output ratio. Major asset: the recessed luminaire blends seamlessly and inconspicuously into the ceiling, thus preserving a uniform, uncluttered ceiling appearance.



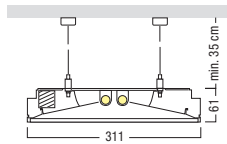
Luminaire is only 61 mm high and has a thin chamfered edge.

Thanks to an LOR increase of up to 30 % and the general use of dimmable ballasts, LIGHT FIELDS **booster luminaires** offer huge potential for saving energy. Due to the luminaires' higher luminous flux levels, the installed load of the lighting system can be reduced or the maintenance intervals extended.

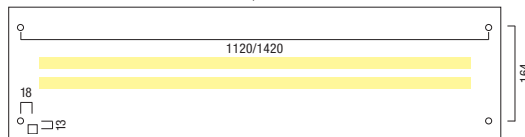
When **suspended** (from the ceiling (min. 35 cm), the well-balanced ratio between indirect and direct light makes LIGHT FIELDS really impressive. Sufficient vertical illuminance and excellent shadow detail guarantee pleasantly homogeneous room lighting and perfect contrast rendition. In addition, the extremely wide-angle indirect component produces gentle transitions in luminance on the ceiling.

Installation LIGHT FIELDS surface-mount. and pendant luminaires

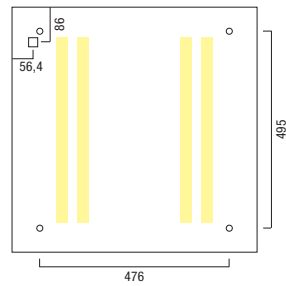
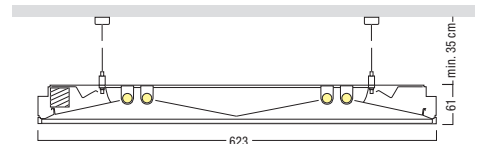
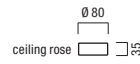
Suspended version



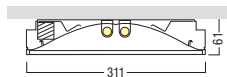
54 W 1248, 49 W 1548



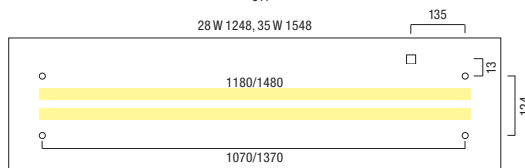
- Cable entry (luminaire)
- Fixing points (ceiling)



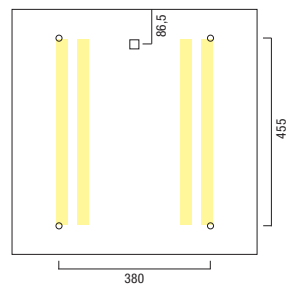
Surface-mounted version



28 W 1248, 35 W 1548



- Cable entry (luminaire)
- Fixing points (ceiling)



I...I Shared properties
LIGHT FIELDS

- Particularly suitable for glare control for flat horizontal displays
- Optic frame made of anodised aluminium
- MPO optic can be removed without tools
- 960 °C version available upon request
- “Dimmable DALI” luminaires are fitted with a DALI-controllable electronic ballast
- The “dim²save” luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE
- Continuous-row version available on request
- Luminaire pre-wired using halogen-free leads
- Single-piece MPO+ micro-pyramidal optic for a seamless look, employing multi-layer technology, with defined glare-free light emission $L < 1000 \text{ cd/m}^2$ at $60^\circ/65^\circ$

LIGHT FIELDS A-ID, indirect/direct

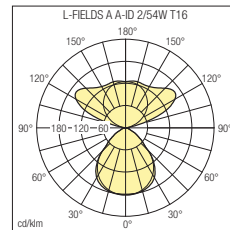


- I...I
- Flat, stepped housing made of anodised aluminium
- Ultra-efficient MPO-plus booster optic for maximum light output and $L < 1500 \text{ cd/m}^2$ optional
- Wide-angle indirect component for uniform appearance of ceiling and minimum spacing of 35 cm
- LIGHTFIELDS booster luminaires are fitted with dimmable electronic ballasts
- Please order feed cable separately
- Please note: the transparent supply cable is only suitable for supplying a single luminaire. For through-wiring, a cable of cross-section 1.5 mm^2 must be used to satisfy safety regulations.

	L/W/H	kg	Order no.	Order no.
Dimmable luminaire with cord suspension				
2/49 W T16 eco+	1548/311/61	8.9	42 176 768	42 178 170
2/54 W T16 eco+	1248/311/61	7.3	42 176 773	42 178 171
4/24 W T16	623/623/61	7.4	42 176 778	42 178 172
Luminaire in Booster optic with cord suspension				
2/49 W T16 eco+	1548/311/61	8.9	42 177 994	42 178 162
2/54 W T16 eco+	1248/311/61	7.3	42 177 995	42 178 163
4/24 W T16 eco+	623/623/61	7.4	42 177 996	42 178 164
Luminaire with cord suspension				
2/49 W T16	1548/311/61	8.9	42 176 766	
2/54 W T16	1248/311/61	7.3	42 176 771	
4/24 W T16	623/623/61	7.4	42 176 776	

Accessory

Installation accessories SUCTION CUP Suction cup 20 935 455

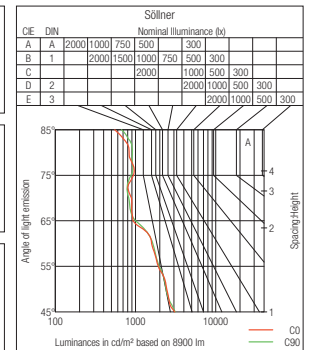


Light output ratio	
LOR	86 %
ULOR	51 %
DLOR	35 %
FFR	1.45 (59.41)
BLF	1.00

Classification	
LITG	C53
LG7	$65^\circ < 1000 \text{ cd/m}^2$
BZ	B21
UTE	$0.35 \text{ C} + 0.51 \text{ T}$
Flux Codes	237 324 346 351 861

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	45 51 55 59 64 67 69 72 74

SHR Nom = 1.50 SHR Max = 1.53HR Max TR = 1.68
According to CIBSE Technical Memorandum No. 5 1980



LIGHT FIELDS A, surface-mounted, individual luminaire

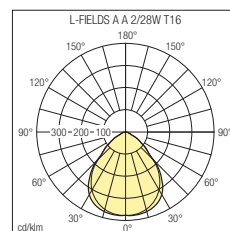


- I...I
- Flat, stepped housing made of anodised aluminium
- Ultra-efficient MPO-plus booster optic for maximum light output and $L < 1500 \text{ cd/m}^2$ optional
- LIGHTFIELDS booster luminaires are fitted with dimmable electronic ballasts

	L/W/H	kg	Order no.	Order no.
Dimmable surface-mount luminaire				
2/28 W T16 eco+ ▽	1248/311/61	7.8	42 176 747	42 918 627
2/35 W T16 eco+ ▽	1548/311/61	9.7	42 176 750	42 918 633
4/14 W T16 ▽	623/623/61	7.5	42 176 755	42 918 636
Surface-mount lum. with Booster optic				
2/28 W T16 eco+ ▽	1248/311/61	7.8	42 177 991	42 178 153
2/35 W T16 eco+ ▽	1548/311/61	9.7	42 177 992	42 178 154
4/14 W T16 eco+	623/623/61	7.5	42 177 993	42 178 155
Surface-mounted luminaire				
2/28 W T16 ▽	1248/311/61	7.8	42 176 746	
2/35 W T16 ▽	1548/311/61	9.7	42 176 749	
4/14 W T16 ▽	623/623/61	7.5	42 176 754	

Accessory

Installation accessories SUCTION CUP Suction cup 20 935 455

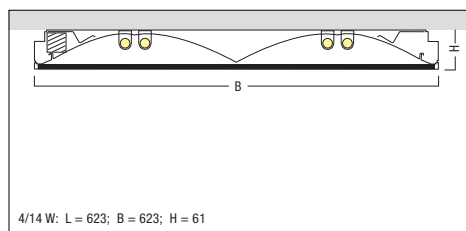
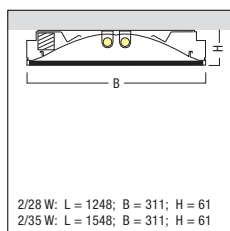
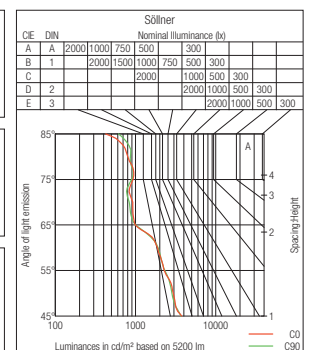


Light output ratio	
LOR	72 %
ULOR	0 %
DLOR	72 %
FFR	0.00 (0:100)
BLF	1.00

Classification	
LITG	A50
LG7	$65^\circ < 1000 \text{ cd/m}^2$
BZ	B21
UTE	0.72 C
Flux Codes	493 670 709 717 717

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	55 60 64 67 70 73 74 76 78

SHR Nom = 1.50 SHR Max = 1.54HR Max TR = 1.68
According to CIBSE Technical Memorandum No. 5 1980



LIGHT FIELDS A, surface-mounted, cluster



- [...]
 - Luminaire cluster for illuminating work areas
 - Luminaire cluster with no visible joins is composed from lighting modules with flat, stepped housing made of anodised aluminium



L/W/H kg Order no. Order no.

Dimmable lum. cluster, surface-mount.

dimmable Dali

dim²save

3x2/35 W T16 1550x930	1548/933/61	29.1	42 176 753	42 178 110
4x2/28 W T16 1250x1250	1248/1244/61	31.3	42 176 759	42 178 110
4x2/28 W T16 2500x625	2496/622/61	31.3	42 176 760	42 178 111
4x4/14 W T16 1250x1250	1246/1246/61	30.1	42 176 762	42 178 112
6x4/14 W T16 1875x1250	1869/1246/61	30.1	42 176 764	42 178 113

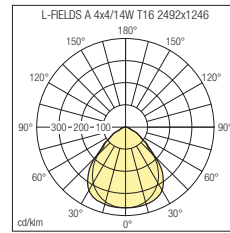
Luminaire cluster, surface-mounted

electronic

3x2/35 W T16 1550x930	1548/933/61	29.1	42 176 752	
4x2/28 W T16 1250x1250	1248/1244/61	31.3	42 176 757	
4x2/28 W T16 2500x625	2496/622/61	31.3	42 176 758	
4x4/14 W T16 1250x1250	1246/1246/61	30.1	42 176 761	
6x4/14 W T16 1875x1250	1869/1246/61	30.1	42 176 763	

Accessory

Installation accessories Installation kit for 4-luminaire cluster	22 157 681
Installation accessories Installation kit for 6-luminaire cluster	22 157 682
Installation accessories SUCTION CUP Suction cup	20 935 455

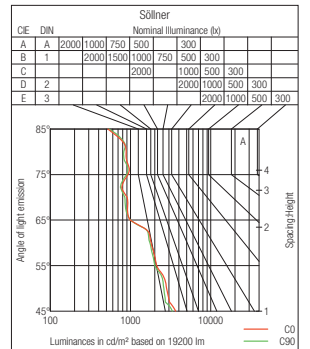


Light output ratio	
LOR	72 %
ULOR	0 %
DLOR	72 %
FFR	0.00 (0:100)
BLF	1.00

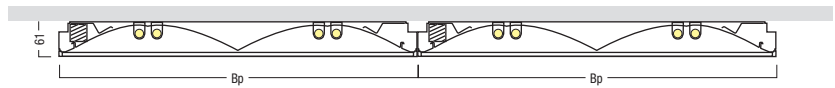
Classification	
LITG	A50
LG7	65° < 1000cd/m ²
BZ	B21
UTE	0.72 C
Flux Codes	485 666 709 718 718

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	55 59 63 66 70 72 74 76 77

SHR Nom = 1.50 SHR Max = 1.56 HR Max TR = 1.75
According to CIBSE Technical Memorandum No. 5 1980



Cluster dimensions



	Lp	Bp
2 x 2 4 x 4/14 W	4 x 4/14 W	4 x 623
	4 x 2/28 W	2 x 1248
	4 x 2/28 W	1 x 1248
2 x 2 4 x 2/28 W	6 x 4/14 W	3 x 623
	3 x 2/35 W	1 x 1548
1 x 4 4 x 2/28 W		
3 x 2 6 x 4/14 W		
1 x 3 3 x 2/35 W		

LIGHT FIELDS supply cable, transparent



Transparent supply cable 0.75 mm²

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
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

Transparent supply cable 1.5 mm²

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
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

LIGHT FIELDS free-standing upright



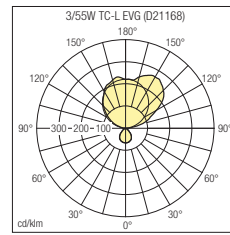
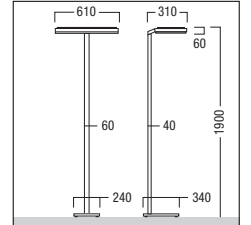
www.zumtobel.com/lightfields



- Flat light head made of anodised aluminium with backlit decorative surround
- Stand made of anodised aluminium
- Hinged reflector allows easy cleaning
- Compact steel base plate
- Direct lighting component provided by single-piece MPO+ micro-pyramidal optic for a seamless look, employing multi-layer technology, with defined glare-free light emission $L < 1000 \text{ cd/m}^2$ at $60^\circ/65^\circ$ (3/35 W)
- Asymmetric characteristic for indirect lighting component
- 3/55 W TC-L or 3/80 W TC-L indirect/direct illumination
- 3 m black connecting cable
- SwitchDim (LST) model can be dimmed to 10 % using pushbutton switch
- SensControl lighting management model with motion sensor and day-light-based control

Free-standing luminaire with SR2 safety plug

	H	kg	Order no.
3/55 W TC-L EVG electronic eco*	1900	18.0	42 176 828
3/55 W TC-L EVG SensControl eco*	1900	18.0	42 176 829
3/55 W TC-L EVG SwitchDim eco*	1900	16.0	42 177 011
3/80 W TC-L EVG electronic	1900	18.0	42 176 830
3/80 W TC-L EVG SensControl eco*	1900	18.0	42 176 831
3/80 W TC-L EVG SwitchDim eco*	1900	16.0	42 177 013

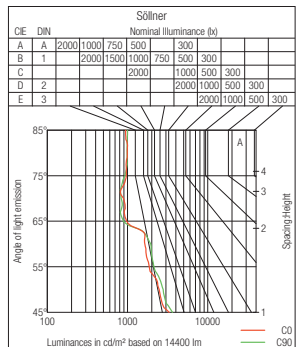


Light output ratio	
LOR	86 %
ULOR	74 %
DLOR	12 %
FFR	6.04 (86:14)
BLF	1.00

Classification	
LITG	D53
LG7	65°<1500cd/m2
BZ	
UTE	0.12 C + 0.74 T
Flux Codes	83 113 120 123 865

Utilization Factors		Room Index	
Room Reflectance		0.75	1.00
Ceiling	70	1.25	1.50
Walls	50	2.00	2.50
Floor	20	3.00	4.00
		5.00	

SHR Nom = NA SHR Max = NA SHR Max TR = NA
According to CIBSE Technical Memorandum No. 5 1990



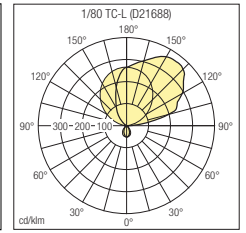
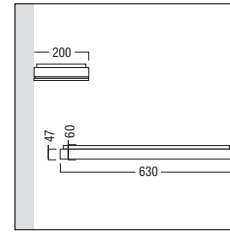
LIGHT FIELDS wall light



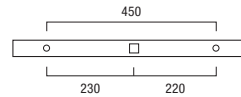
- Flat luminaire head made of anodised aluminium
- Single-lamp design
- Hinged reflector allows easy cleaning
- Glass green, partly transparent decorative frame made of plastic
- Indirect/direct light distribution
- Direct component via single-piece MPO-plus micro-pyramidal optic for a seamless look, employing multi-layer technology, with defined glare-free light emission $L < 1000 \text{ cd/m}^2$ at $60^\circ/65^\circ$
- Asymmetric characteristic for indirect lighting component

Wall-mounted luminaire

	L/W/H	kg	Order no.	Order no.
1/80 TC-L	630/200/60	5.0	42 177 285	42 177 483



Installation LIGHT FIELDS Wall-mounted luminaire



- Possible feed-in point (luminaire)
- Installation points (wall)



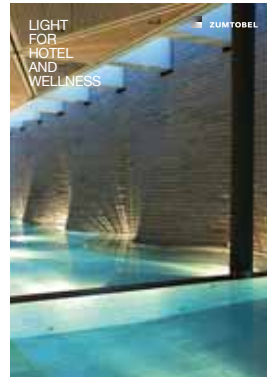
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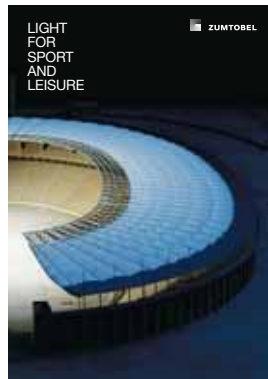
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