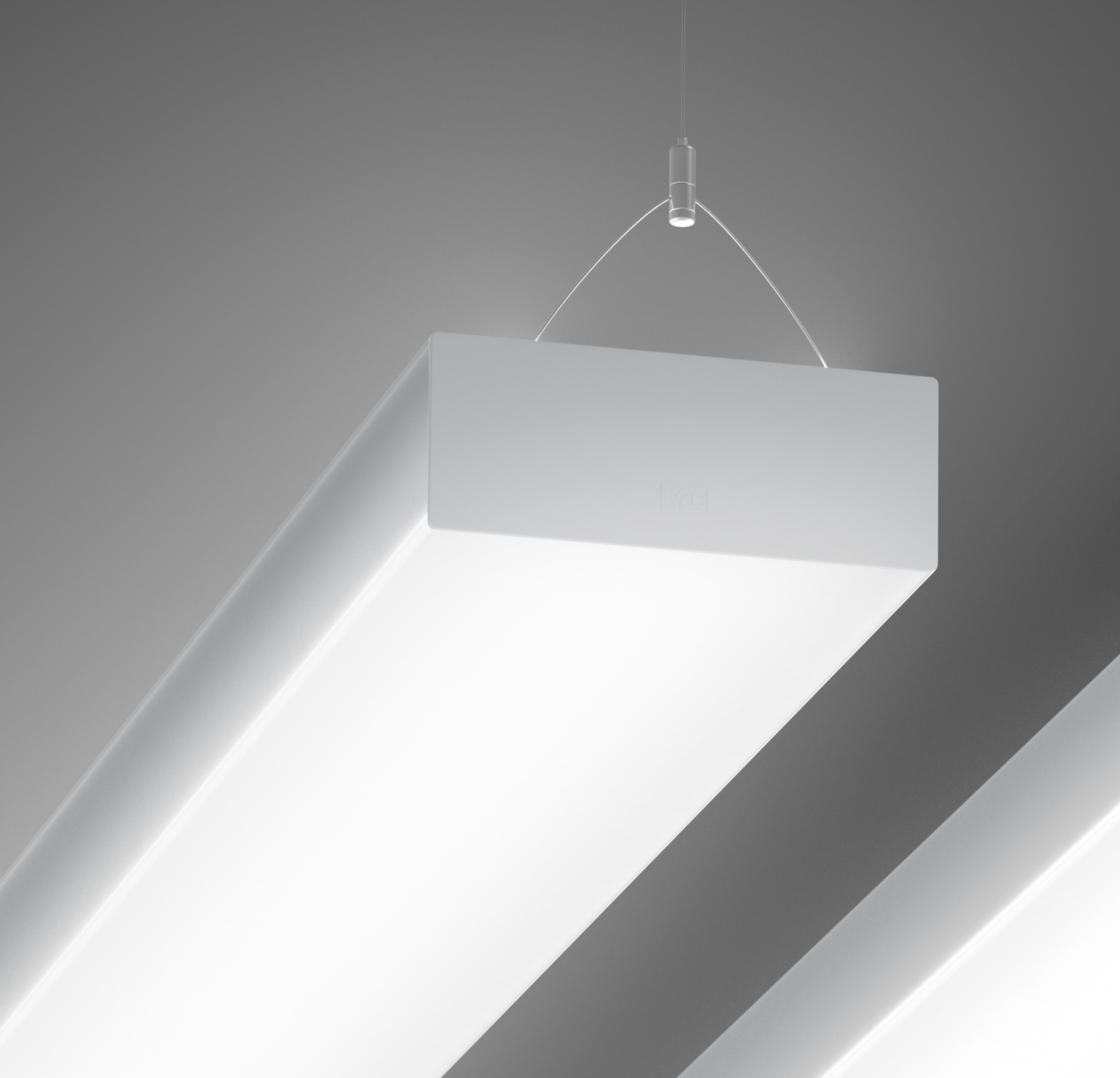
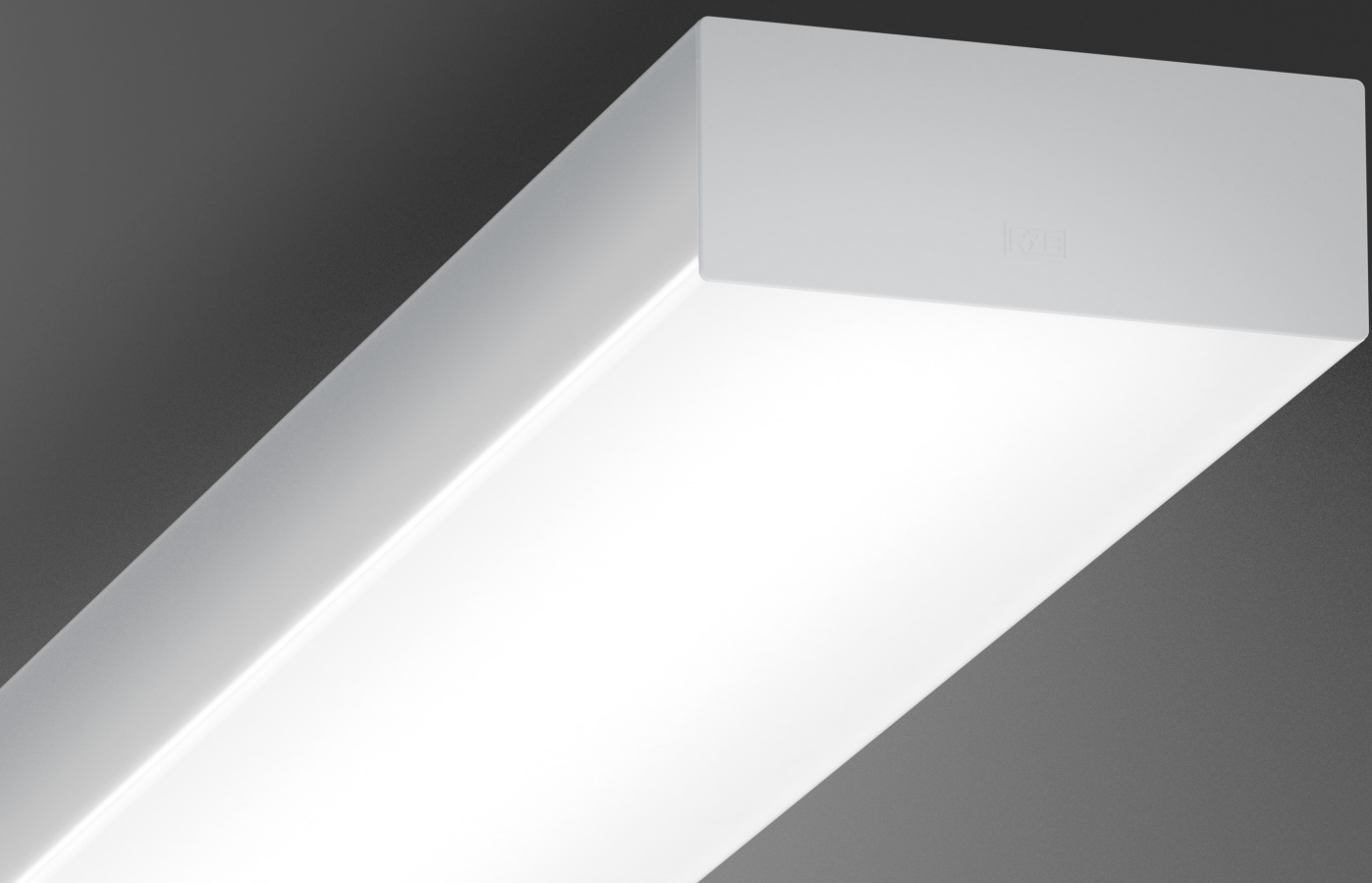


# LUMARA

A strong partner for renovations





# A strong partner for renovations

**LUMARA**

Fast. Uncomplicated. Future-proof.



**LUMARA**  
Direct light emission  
Page 10



**LUMARA**  
Direct/indirect light emission  
Page 11



## A strong partner for renovations – when speed is of the essence

Complex renovation projects in schools, educational institutions and offices where every minute counts? Lumara was developed specifically for this purpose, but is also a real asset for new buildings.

Thanks to its straightforward installation, you save valuable working time. And despite being reduced to the essentials, you don't have to compromise on excellent light quality, high efficiency or high luminous flux.

# LUMARA

A strong partner for renovations

## Architecture

- ⊕ **Design-oriented:** Clear, linear design with accentuated light edge.
- ⊕ **Applicable:** Specially designed for lighting offices, schools and educational institutions.
- ⊕ **Straightforward:** Can be used as single or continuous line luminaire with accessories.
- ⊕ **Functional:** Diffuser made of non-yellowing plastic (PMMA) opal/microprismatic.
- ⊕ **Sustainable:** Environmentally friendly and resource-saving due to replaceable and recyclable components.

## Lighting design

- ⊕ **Anti-glare:** Perfect for office areas ( $RUG \leq 19$ ) and environments with computer screens in accordance with EN 12464-1.
- ⊕ **MultiLumen:** 4-step adjustable luminous flux.
- ⊕ **Perfect:** Large-scale homogeneous light distribution, pleasant white light.
- ⊕ **Advantageous:** Direct or direct/indirect light emission. Direct/indirect light emission can be switched and controlled separately.
- ⊕ **Powerful:** High efficiency, high luminous fluxes, excellent light quality.
- ⊕ **Long service life:** LED rated life up to 100,000 h (L80).

## Installation

- ⊕ **Simple:** Convenient, flexible connection option using rear cable inlets.
- ⊕ **Ideal:** Perfect for 1:1 replacement during renovations.
- ⊕ **Easy to install:** Lateral cable entry prepared.
- ⊕ **Optimum:** Suitable for through-wiring.
- ⊕ **Versatile:** The luminaire can be used as a pendant light with accessories (to be ordered separately).



# LIGHT(TECHNOLOGY)

LUMARA

Single or continuous line luminaire

Suspended and surface-mounted installation

DALI-2 technology



## MultiLumen

4-step adjustable luminous flux.



## Future-proof

More devices per system: Enables larger solutions with up to 64 operating devices and 64 control devices per line.

Improved communication: Enables more efficient diagnostics and predictive maintenance. Errors are detected faster, and downtime is reduced.



## Protection type IP 50

Complete protection against contact and protection against dust in harmful quantities.

## Easy to install

Comfortable and flexible connection options via rear cable entries.

Side cable entry prepared.

Steplessly adjustable steel cable suspension.



## Key Facts

<b>Lighting technology</b>	Diffuser opal/micropismatic
<b>Light distribution</b>	symmetrical, wide beam
<b>Light emission</b>	direct direct/indirect
<b>Protection type</b>	IP 50
<b>Design</b>	linear
<b>Type of Installation</b>	surface pendant
<b>Size/Length</b>	1218 mm 1518 mm
<b>Colour temperature</b>	3000 K 4000 K
<b>Colour rendering index</b>	Ra > 80
<b>LED rated life</b>	100.000 h (L80)
<b>Luminous flux</b>	2800 - 5850 lm (direct) 3850 - 6600 lm (direct/indirect)
<b>System efficiency</b>	120 - 135 lm/W
<b>System rating</b>	22 - 49 W
<b>Control</b>	MultiLumen switchable DALI-2 switchable and dimmable
<b>Accessories</b>	End caps Connection kit for continuous line Pendant kit



# LIGHT(VIEW)

LUMARA

High efficiency

High luminous fluxes

Excellent light quality

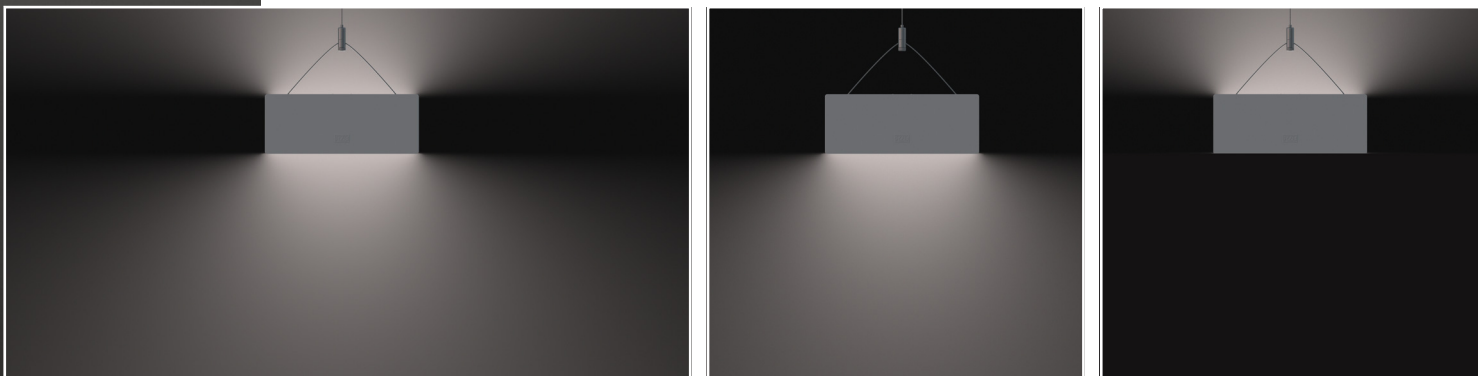
## Creating inspiring learning and working environments

It is this one detail that makes all the difference: the unique light edge. It is the subtle accent that transforms a functional workplace into an inspiring space that promotes concentration and stimulates creativity.

LUMARA offers maximum freedom: available in two lengths as a surface-mounted or suspended luminaire, the cable entry can be central or lateral. Thanks to  $RUG \leq 19$ , it is perfectly suited for VDU workstations and so easy to install that it feels tailor-made. This makes LUMARA maximally flexible and adaptable to any structural situation – without rework.

### **Fast. Uncomplicated. Flexible.**

- Luminous efficiency up to 135 lm/W
- Luminous flux up to 6600 lm
- Colour temperature 3000 K and 4000 K
- Colour rendering index CRI > 80
- LED rated life 100.000 h (L80) at 25°C ambient temperature
- Colour tolerance within 3-steps MacAdam (3 SDCM)



Direct/indirect light emission, separately switched and controllable

# INSTALLATION OPTIONS

LUMARA

Flexible renovation

1:1 replacement

Secure for investment

## Continuous line of light

LUMARA is equipped for any room size and requirement, because with the right accessories, the single luminaire is transformed into a continuous line system in the blink of an eye – almost 50 metres of light in one run. Available with direct or direct/indirect light emission, LUMARA also scores with a MultiLumen function – the luminous flux of the luminaire is adjustable in four steps. Replaceable components make the luminaire particularly environmentally friendly and resource-saving – an all-round durable solution for you and the environment.

**Adaptable. Sustainable. Future-proof.**

Replacement for

LED 22 W ≈ 1 x 54 W T16 (58 W Psys)

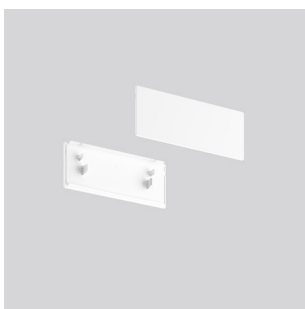
LED 35 W ≈ 2 x 36 W T26 (74 W Psys)

1 x 80 W T16 (86 W Psys)

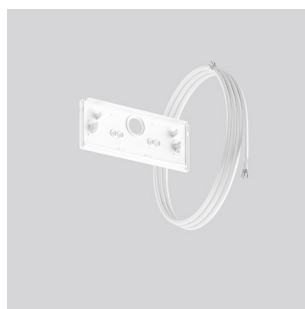
LED 47 W ≈ 2 x 58 W T26 (118 W Psys)

2 x 49 W T16 (106 W Psys)

**To be ordered separately:**



End caps



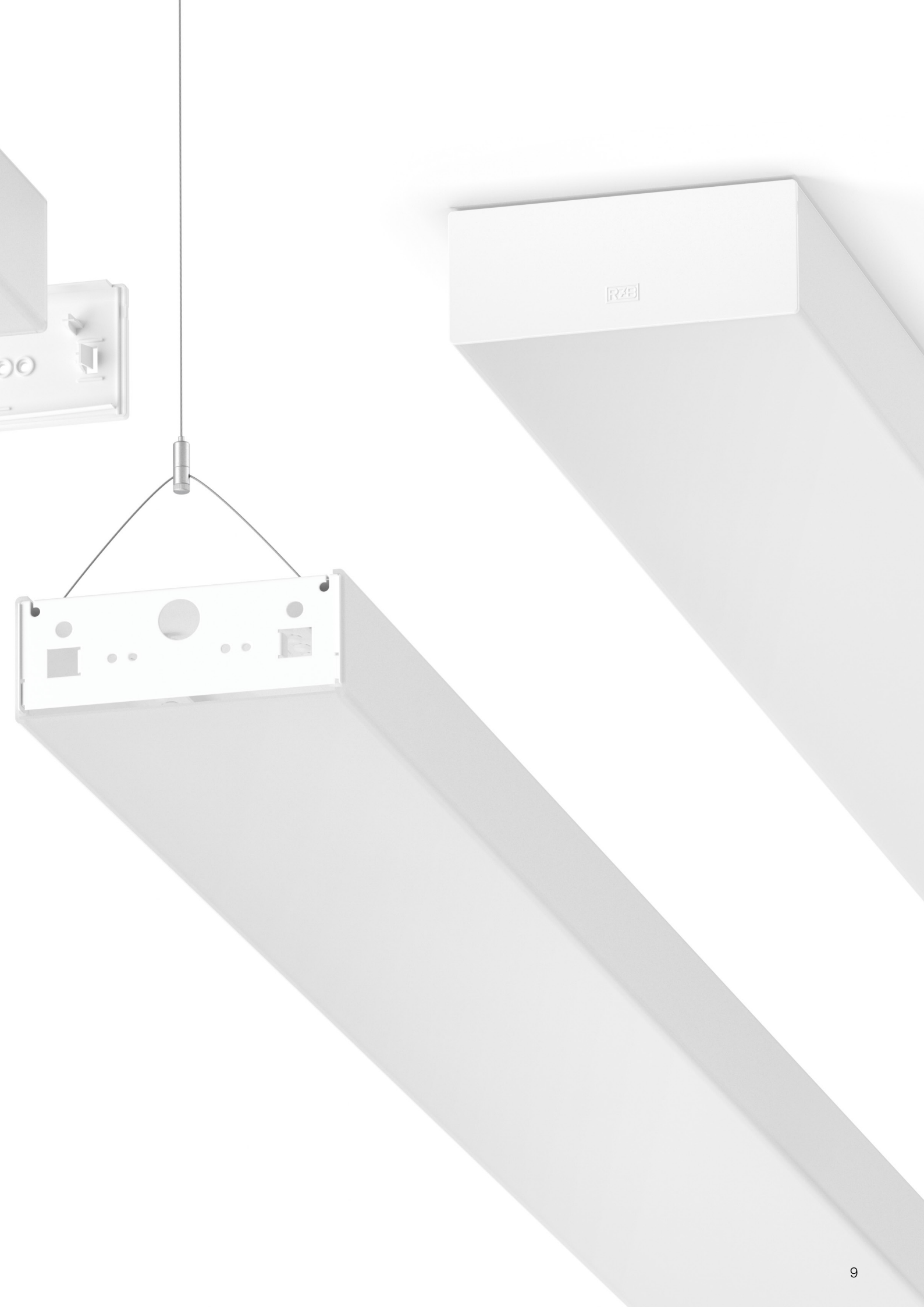
Connection kit for  
continuous line  
Surface mounting



Pendant kit



Connection kit for  
continuous line  
Pendant mounting

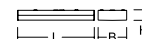


# LUMARA

## Product overview



### Ceiling luminaires, Pendant luminaires | LUMARA - Direct light emission



Type of protection: IP 50  
 Protection class: I  
 Impact resistance: IK03

Housing made of sheet steel, powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal/microprismatic. Symmetrical wide beam light distribution. Direct light emission. Suitable for office areas and computer workstations. Convenient, flexible connection option using rear cable inlets. Driver integrated. Suitable for through-wiring.

**MultiLumen:** 4 steps adjustable luminous flux.

Suitable for ceiling or pendant mounting. **Please order end caps and mounting accessories separately.**

Can be used as single or continuous line luminaire with accessories. Connection kit required for continuous line luminaire installation.

Available colour: 2 = white

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [lm/W]	RUG	Lighting Control
<b>Ceiling and pendant luminaires - Direct light emission</b>							
<b>Length L 1218 mm</b>							
312804.002	L 1218, B 160, H 64	830	2800...4300	22...35	127	18	on/off
312804.002.76	L 1218, B 160, H 64	830	3850	31	124	19	DALI
312804.002.1	L 1218, B 160, H 64	840	2900...4500	22...35	132	18	on/off
312804.002.1.76	L 1218, B 160, H 64	840	4000	31	129	19	DALI
<b>Length L 1518 mm</b>							
312805.002	L 1518, B 160, H 64	830	4400...5650	35...47	126	19	on/off
312805.002.76	L 1518, B 160, H 64	830	4950	40	124	19	DALI
312805.002.1	L 1518, B 160, H 64	840	4550...5850	35...47	130	19	on/off
312805.002.1.76	L 1518, B 160, H 64	840	5100	40	128	19	DALI



#### Modules | End caps

End caps made of plastic (polycarbonate), white. End caps with centring holes for lateral cable entry. Set of 2 end caps.

Reference number	Dimensions [mm]	Price Category
983464.002	L 160, B 18, H 62	21



#### Installation accessories | Pendant kit

Infinitely height adjustable Y-steel suspension cable, with quick adjustment system, incl. ceiling mount. Ceiling canopy made of sheet steel, white powder-coated. Canopy for connecting the mains cable for ceiling outlets. 5-pin cable (L, N, PE, DA, DA), white. Pendant length 1500 mm.

Reference number	Dimensions [mm]	Price Category
981546.022	D 80, H 30, LP 1500	21



#### Accessories | Connection kit for continuous line luminaires, surface mounting

The connection kit contains all necessary components for the mechanical and electrical connection of two LUMARA surface mounted luminaires.

Reference number	Dimensions [mm]	Luminaire length	Price Category
983465.012	L 1410, B 160, H 62	1200 mm.	21
983465.002	L 1710, B 160, H 62	1500 mm.	21



#### Accessories | Connection kit for continuous line, pendant mounting

The connection kit contains an additional cord suspension, as well as all necessary components for the mechanical and electrical connection of two LUMARA pendant luminaires.

Reference number	Dimensions [mm]	Luminaire length	Price Category
983344.010	L 1410, B 160, H 62, LP 1500	1200 mm.	21
983344.000	L 1710, B 160, H 62, LP 1500	1500 mm.	21

#### Adjustable luminous flux MultiLumen

	312804.002				312804.002.1				312805.002				312805.002.1			
Light colour	830				840				830				840			
Luminous flux (lm)	2800	3300	3850	4300	2900	3400	4000	4500	4400	4950	5300	5650	4550	5100	5500	5850
System power (W)	22	26	31	35	22	26	31	35	35	40	43	47	35	40	43	47
System efficiency (lm/W)	127	127	124	123	132	131	129	129	126	124	123	120	130	128	128	124

### Pendant luminaires | LUMARA - Direct/indirect light emission

Type of protection: IP 50  
 Protection class: I  
 Impact resistance: IK03

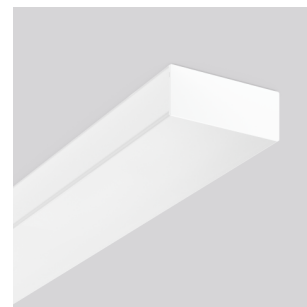
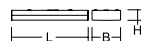
Housing made of sheet steel, powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal/microprismatic. Symmetrical wide beam light distribution. Direct/indirect light emission. Suitable for office areas and computer workstations. Convenient, flexible connection option using rear cable inlets. Driver integrated. Suitable for through-wiring. Direct/indirect light emission can be switched and controlled separately on DALI versions.

**MultiLumen:** 4 steps adjustable luminous flux.

**Please order end caps and mounting accessories separately.**

Can be used as single or continuous line luminaire with accessories. Connection kit required for continuous line luminaire installation.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [lm/W]	RUG	Lighting Control
<b>Pendant luminaires - Direct 70%, indirect 30% light emission</b>							
<b>Length L 1218 mm</b>							
312806.002	L 1218, B 160, H 64	830	3850...5300	31...43	124	15	on/off
312806.002.76	L 1218, B 160, H 64	830	5300	43	123	18	DALI
312806.002.1	L 1218, B 160, H 64	840	4050...5550	31...43	131	15	on/off
312806.002.1.76	L 1218, B 160, H 64	840	5550	43	129	18	DALI
<b>Length L 1518 mm</b>							
312807.002	L 1518, B 160, H 64	830	3850...6250	31...49	128	14	on/off
312807.002.76	L 1518, B 160, H 64	830	6250	49	128	16	DALI
312807.002.1	L 1518, B 160, H 64	840	4050...6600	31...49	135	15	on/off
312807.002.1.76	L 1518, B 160, H 64	840	6600	49	135	16	DALI

### Modules | End caps

End caps made of plastic (polycarbonate), white. End caps with centring holes for lateral cable entry. Set of 2 end caps.

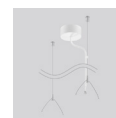
End caps	Price Category 21
983464.002 L 160, B 18, H 62	



### Installation accessories | Pendant kit

Infinitely height adjustable Y-steel suspension cable, with quick adjustment system, incl. ceiling mount. Ceiling canopy made of sheet steel, white powder-coated. Canopy for connecting the mains cable for ceiling outlets. 5-pin cable (L, N, PE, DA, DA), white. Pendant length 1500 mm.

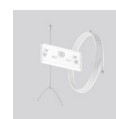
Pendant kit	Price Category 21
981546.022 D 80, H 30, LP 1500	



### Accessories | Connection kit for continuous line, pendant mounting

The connection kit contains an additional cord suspension, as well as all necessary components for the mechanical and electrical connection of two LUMARA pendant luminaires.

Connection kit for continuous line, pendant mounting	Price Category 21
983344.010 L 1410, B 160, H 62, LP 1500 Luminaire length 1200 mm.	
983344.000 L 1710, B 160, H 62, LP 1500 Luminaire length 1500 mm.	



### Adjustable luminous flux MultiLumen

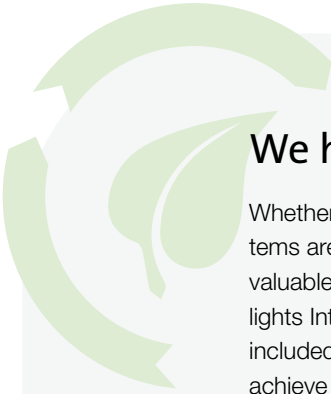
312806.002				312806.002.1				312807.002				312807.002.1			
830				840				830				840			
3850	4350	4800	5300	4050	4550	5100	5550	3850	4650	5450	6250	4050	4900	5750	6600
31	35	39	43	31	35	39	43	31	37	43	49	31	37	43	49
124	124	123	123	131	130	131	129	124	126	127	128	131	132	134	135

Light colour  
 Luminous flux (lm)  
 System power (W)  
 System efficiency (lm/W)

# LIGHT(ECOLOGY)

Efficient refurbishment for a sustainable future

A rational and careful use of resources is a task and a challenge for every company. As one of the leading lighting manufacturers, we take this responsibility seriously. It's not only the environment and climate, that profits, but also you.



## We have what you are looking for!

Whether energy optimisation of existing buildings or new buildings: our lighting systems are smart, digital and efficient. Replaceable and recyclable components protect valuable resources and extend the life of the lighting system. Due to already into the lights Integrated control modules or the use of professional light management systems included daylight control, presence detection or preset light scenes, it can be used to achieve additional savings potential.

### Energy saving potential

Dimming depending on daylight and movement (with light management)



Dimming depending on movement



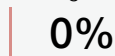
Dimming



On/Off (1:1 exchange)



Existing installation



## Quality meets responsibility

Thanks to the use of high-quality materials and replaceable components, our luminaires have a significantly longer service life than conventional products. This not only saves costs, but also reduces resource consumption and environmental impact.

The ability to replace individual components instead of the entire luminaire results in less waste and optimises the use of existing resources.



© Shutterstock



# LIGHT MANAGEMENT SYSTEMS

## Overview



### The unbeatable price / performance winner

for smaller installations

#### light control +<sup>3</sup> Economy Multi DALI

The system combines simple commissioning via smart-phone, low wiring effort and flexible configuration and is therefore ideal for group offices, conference rooms and classrooms. Programmable buttons and sensors can also be integrated via DALI connections in order to achieve even greater energy savings. The system has an integrated timer and can therefore be used to set up HCL.



### The wireless Bluetooth® light management system

for maximum functions and configuration options.

#### Casambi smart+free

Casambi smart+free solutions are particularly suitable for applications where wireless networking is required. The modules are also suitable for retrofitting in existing luminaires, as only a power supply is required. The module is already integrated into luminaires with the article number ending .730. With accessories from the extensive Casambi ecosystem, the system can be configured according to individual needs. The integration here is very intuitive and can be completed by users without prior knowledge within a few minutes.








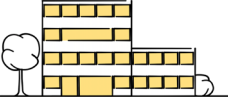


### The future

of automated light control:  
RZB's IoT system.

#### light control +<sup>3</sup> Professional IoT

Daylight-dependent control and dynamic light control up to circadian daylight simulation in Human Centric Lighting (HCL) are easy to implement. In addition, the control system can be easily networked to make luminaire data available to other systems. Automatic switch-off functions save energy and money. All this can be configured across several rooms and floors.

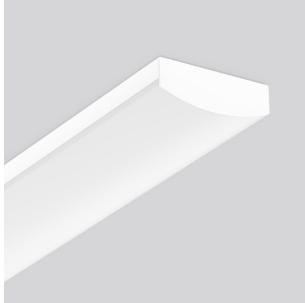
We would be happy to advise you\*

	 <b>light control +<sup>3</sup> Economy Multi DALI</b>	 <b>Casambi smart+free</b>	 <b>light control +<sup>3</sup> Professional IoT</b>
			
Application	Single room	Wireless networking	Building control
Can be combined with			
Communication	wired	wireless	wired
Infrastructure requirements	L, N, PE, DA, DA (5 wires cable)	L, N, PE (3 wires cable)	L, N, PE, DA, DA (5 wires cable)
Commissioning	by electrician	by electrician	RZB service technician
Configuration	App, Plug & Play	App, Remote access	PC-Tool, Remote access
Operation	Switches, Buttons, App	Switches, Buttons, App	Switches, Buttons, App, Web access
Number of luminaires (1 EB) <small>(Number of luminaires depends on the number of EB in the luminaire)</small>	32	up to 64 depending on the module	128
Number of sensors/push-button coupler <small>(presence, motion)</small>	4	1 per module	126
Dimmable	✓	✓	✓
Motion/presence detection	✓	✓	✓
Daylight-dependent control	✓	✓	✓
Scenes/Groups	✓	✓	✓
Timer/Calendar functions	✓	✓	✓
HCL / Tunable White	✓	✓	✓
RGB		✓	✓
Network integration		✓	✓
Remote access: programming, operation, maintenance		✓	✓
IoT ready		✓	✓
Predictive maintenance, monitoring, read out luminaire data			✓
Beacon for indoor navigation, tracking, asset management		✓	
Luminaires with the reference number extension	.76 (DALI)	.730 (smart+free)	.76 (DALI)

**\*You still haven't found the right system for you?** Along with the systems shown here, we would also be happy to create a customised control system for your project. Please contact your sales persons in charge or contact our planning department via e-mail at [lms@rzb-leuchten.de](mailto:lms@rzb-leuchten.de) or by phone at +49 951 / 79 09-396.



## Further luminaires, matching this series:



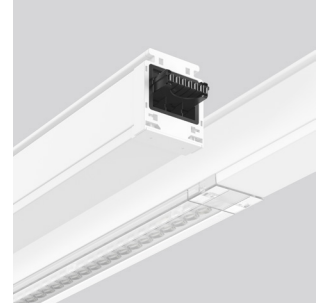
PLANADO



PLANIA



LESS IS MORE 50

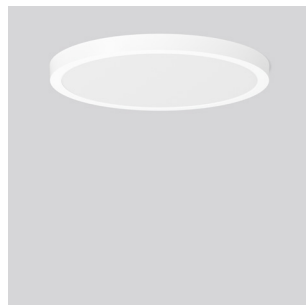


LINEDO 50

## Further refurbishment solutions:



MONDANA



TRIXY



POWERCASE



Refurbishment tool

## Highest product and consulting quality

### Reliability

We are your reliable partner. From the first idea to the implementation and far beyond, we accompany your project. Personal, passionate and individual. Thanks to our excellent expertise, top product quality and services such as light planning, economic efficiency analysis and commissioning, we meet the high demands of all parties involved in the planning process.

- availability of BIM files
- easy and quick installation
- high quality and long warranty

### Warranty

The creation of high quality lighting solutions is our passion.

Our products are developed and manufactured with the utmost care. In addition to SMART TECHNOLOGY and EXCELLENT DESIGN, we are dedicated to manufacture luminaires of highest quality throughout the entire value chain through to After Sales Service.

Because of this, we confidently grant you a 5 years warranty on LED luminaires with effect of the date of invoice without prior registration of your project.

Warranty terms to be found under [www.rzb.de/en/service/warranty](http://www.rzb.de/en/service/warranty)

**RZB - For a tangible added value.**



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**Bamberg GmbH**

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