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## Industrial and warehouse lighting

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100%

# Made in Poland

We are a lighting manufacturer with 36 years of presence on the market, which is why we know everything about luminaires and lighting systems: we design, comprehensively test and manufacture them. We combine practice with modernity.

We have technologically advanced manufacturing facilities at our command, which guarantees a high level of flexibility and operational efficiency. We produce million luminaires annually, and each product leaving the Lena Lighting production line strengthens our position of the leader in the market of luminaires in the country and in the world – every day.

When designing new luminaires, we take advantage of the latest achievements in technology. For years, we have cooperated with leading international manufacturers of electro-technical components, who, in addition to providing us with their solutions, also implement individual projects of our Engineers at the Research and Development Department of Lena Lighting S.A., allowing for a significant reduction in energy consumption, while improving the quality of lighting. We are constantly enhancing our know-how using the latest global solutions in LED technology and lighting control.

36+

**years of experience**



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## Modern LED production line

Środa Wielkopolska

# It really matters

In recent years, we have continued and deepened our growing commitment to promoting an eco-friendly attitude towards business. Being aware of the importance of environmental protection behaviours and future generations inspires us to put maximum effort into offering the highest quality, energy-efficient products; and to make sure that the entire process and technology of their production do not have a negative impact on the ecosystem.

Our efforts and their effectiveness have been confirmed by the ISO 14001 certificate. This means that Lena Lighting has successfully implemented an environmental management system. The overall goal of this system is to create conditions for the functioning of the enterprise in order to minimise the negative impact on the natural environment. We have already succeeded, but we are going to continue our journey and invest in technology and knowledge aimed at care for the natural environment.







**Design** perfectly  
**Create** consistently  
**Offer** comprehensively  
**Hit** precisely

It is worth choosing products supplied by renowned manufacturers, employing both highly-skilled engineering staff with many years of experience in designing lighting systems, as well as having properly equipped laboratories allowing for constant quality control of manufactured products.

Considering the professional R&D facilities and the state-of-the-art laboratory operated by specialists, as well as the constantly controlled production process, Lena Lighting is able to provide its customers, with full responsibility, with a 5-year warranty on each luminaire it manufactures.



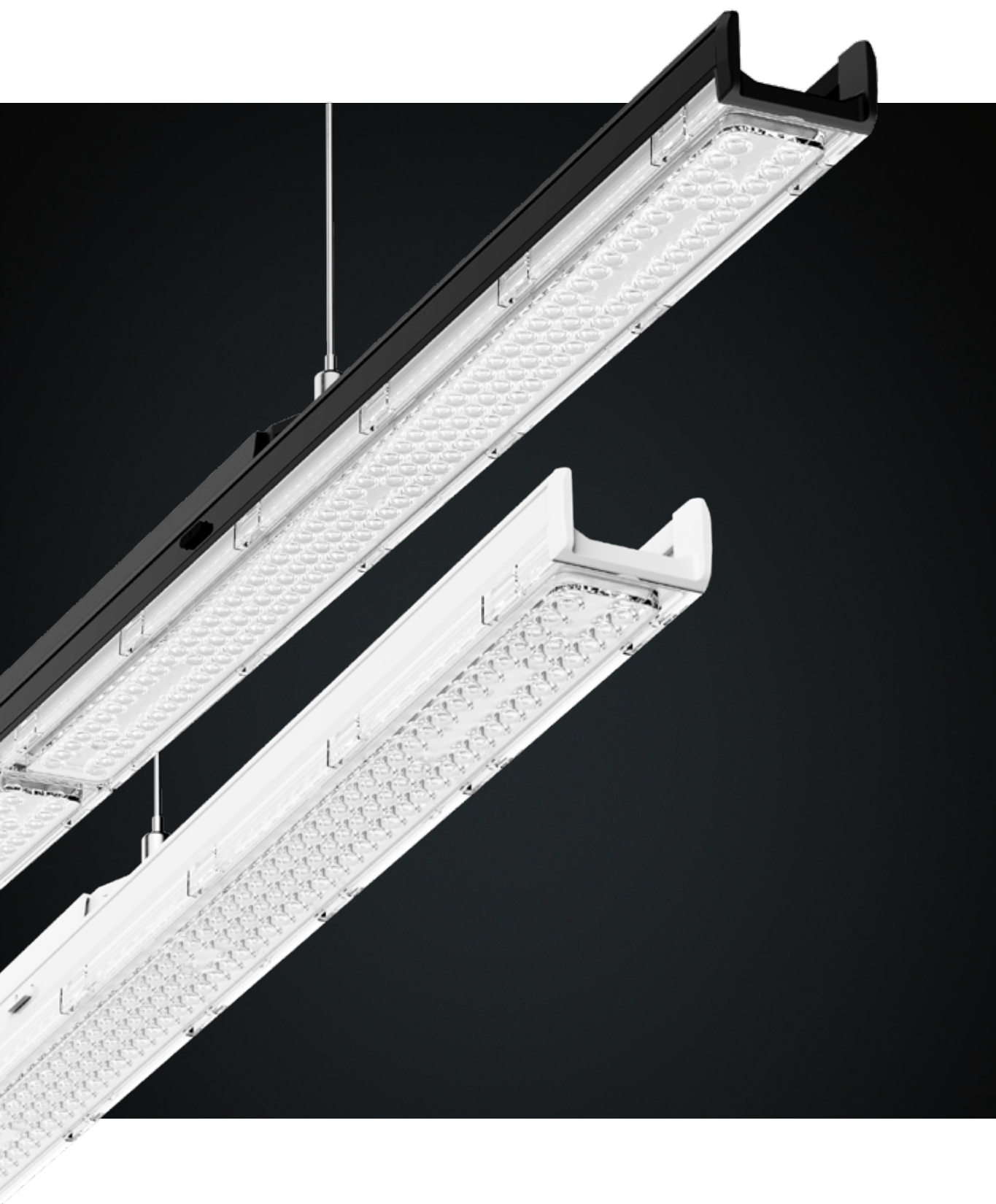
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**We are responsible  
for the highest quality of lighting**



# Industrial and warehouse **lighting**





IP**65**



UGR**<19**



## Tytan Steel LED

A modern industrial luminaire, manufactured in Poland, combining innovative technological solutions and superior lighting parameters with commitment to environmental care

With A-class energy rating, the luminaire is highly energy-efficient, and the low glare rating (UGR<19, UGR<22, UGR<25) ensures comfortable lighting, reducing eye strain.

Its impressive luminous efficiency of up to 192 lm/W makes it one of the most efficient industrial luminaires on the market. The 1.2 m version generates a luminous flux of up to 15,300 lm, which is a very high value for this class of products.



## Tytan Steel LED

max.  
169 lm/W

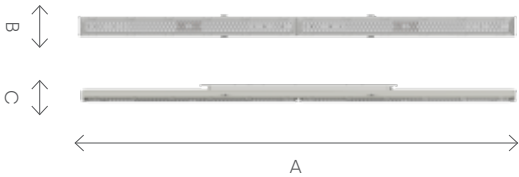
IP65

IK06

Rated power [W]:	14 - 73	Body colour:	white, black
Luminous flux [lm]:	2150 - 12000	Diffuser material:	PC
Mounting method:	surface, suspended	Diffuser type:	MATT
Body material:	PC	Dimensions A/B/C [mm]:	600/57/45, 1188/57/45

### Distinguishing features:

- Very quick installation
- Low cost of purchase and operation
- Low profile with an elegant and modern design
- The steel U-shaped profile provides all the advantages of a metal housing, while maintaining the At the same time, the lightness of the plastic housing



## Tytan Steel LED Pro

max.  
192 lm/W

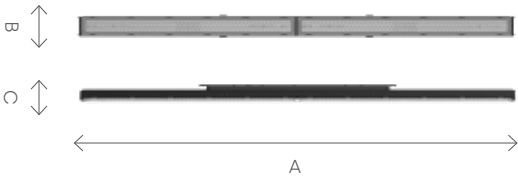
IP65

IK06

Rated power [W]:	23 - 84	Body colour:	white, black
Luminous flux [lm]:	3600 - 15300	Diffuser material:	PC
Mounting method:	surface, suspended	Diffuser type:	MATT
Body material:	PC	Dimensions A/B/C [mm]:	600/57/45, 1188/57/45, 1234/57/45

### Distinguishing features:

- Very quick installation
- Advanced optics
- The 1.2 m long version generates luminous flux up to 15,300 lm at the same time lightweight plastic luminaire
- Very high luminous efficiency up to 192 lm /W





# Your best choice for industry

The Tytan 2 LED family represents the latest generation of hermetic industrial luminaires, characterised by exceptionally high luminous efficiency, the highest energy efficiency and excellent technical parameters.

The luminaire's heart is a high-performance LED light module with a lifetime of over 196,000 hours. Tytan LED Pro is distinguished by a high energy class and efficiency reaching 178 lm/W. It emits light of high homogeneity (SDCM  $\leq 3$ ) and is characterised by IK09 mechanical impact resistance and IP66 ingress protection.

**178** max.  
lm/W

**196** LED lifespan  
.000 h



## Tytan LED family

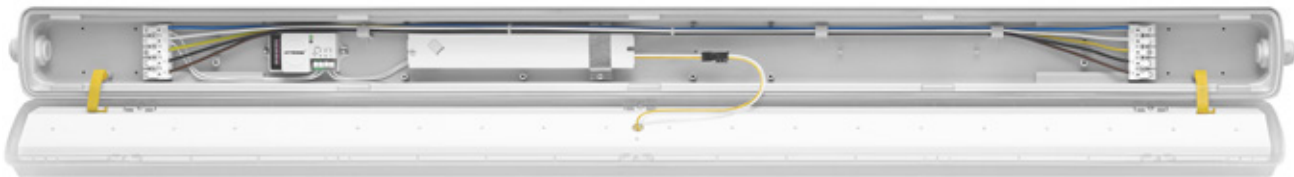


different versions

- 01 **Tytan LED Pro**  
The highest quality and efficiency
- 02 **Tytan Multi LED**  
4-step luminous flux and power control:
- 03 **Tytan 2 LED**  
Versatility of applications
- 04 **Tytan 2 LED Endura**  
Thermal resistance meaning more possibilities
- 05 **Tytan 2 LED Hall**  
Narrow light distribution
- 06 **Tytan 2 LED Chemo**  
Chemical resistance thanks to PCT-G
- 07 **Tytan 2 LED 24-48V**  
Luminaire for low voltage installations
- 08 **Tytan 2 LED Basic**  
Versatility of applications
- 09 **Tytan 2 LED Basic Multi**  
4-step luminous flux and power control:

# Even better use of the luminaire's capabilities thanks to non-standard solutions.

Efficiency and innovation



The possibility to adjust the luminaire to the dedicated space is the result of thinking and design focused on the satisfaction and benefits of the investor, contractor and consumer.

The MULTI function allows you to independently control luminaire's power and luminous flux. The dedicated microswitch allows to independently choose the level of luminous flux/luminaire power. The priority may be to obtain a sufficiently high value of the luminous flux or to save electricity. This solution is particularly useful in places, where the use of the illuminated space changes, and along with it, the standards and lighting needs change as well.

The Tytan 2 LED family uses an innovative solution consisting in integrating the diffuser with the LED module. As a result, the assembly and quick replacement of the entire light module is facilitated. This is especially important in the case of service or efficient modernisation of lamps over the years - changes to more modern solutions, without the need to disassemble the entire lamps.

16  
combinations



### Easy to replace LED module

For time savings and the convenience of installers and service personnel, diffuser suspension system integrated with the mounting panel has been used.



### Greater versatility

Thanks to a dedicated microswitch, the MULTI function allows you to independently control luminaire's power and luminous flux.



### Mounting tolerance 100 mm

Adjustable brackets with a mounting tolerance of +/- 50 mm, facilitating and accelerating the process of surface mounting



### Quick connectors

Rapid-A or Rapid-D quick connectors make connecting power supply extremely quick and easy without the need to open the luminaire.



Tytan LED Pro

max.  
178 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	14 - 75
Luminous flux [lm]:	2500 - 12000
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

Distinguishing features:

- Very high efficiency (>170lm/W)
- High impact resistance and ingress protection
- Easy and simple installation
- Replaceable light module
- Branded components, INOX clips
- Large range of mounting tolerance +/- 50 mm



Tytan Multi LED

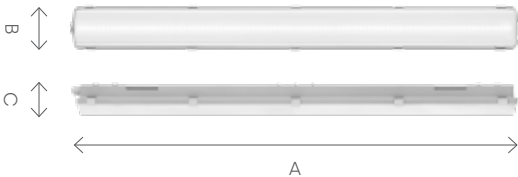
max.  
175 lm/W    IP67    IK09    |

Light source:	LED module
Rated power [W]:	14 - 25, 17 - 31, 28 - 50, 35 - 63
Luminous flux [lm]:	2500 - 4350, 3150 - 5450, 5000 - 8700, 6300 - 10900
Colour temperature [K]:	4000
Mounting method:	surface, suspended

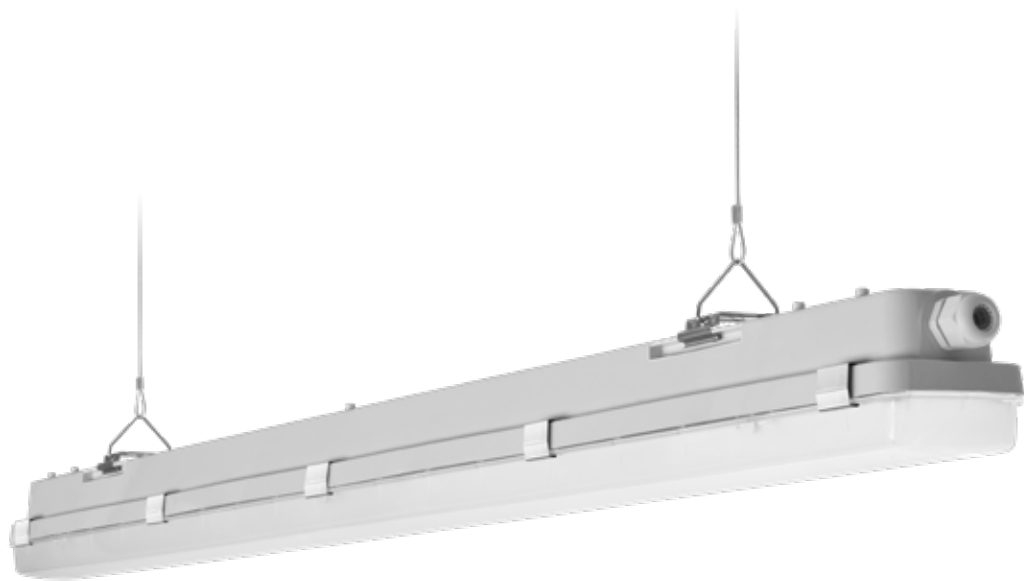
Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

Distinguishing features:

- Possibility to adjust power and luminous flux
- Very high efficiency (>170lm/W)
- High energy efficiency
- High ingress protection
- Replaceable light module







## Tytan 2 LED

— Different variants available depending on the application

Light source:	LED module
Rated power [W]:	17 - 74
Luminous flux [lm]:	2650 - 11300
Colour temperature [K]:	3000, 4000, 5000
Mounting method:	surface, suspended

	max. 161 lm/W	IP66	IK09	I, II
Body material:	PC			
Body colour:	grey			
Diffuser material:	PC			
Diffuser type:	MATT			
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80			

### Luminaire's distinguishing features and variants:

- Very high efficiency
- High impact resistance and ingress protection



Underground garage in Nowe Ptasie Apartament Park – Katowice.





The use of Tytan 2 LED Endura luminaires in a warehouse hall



-40°C to +60°C

Tytan 2 LED Endura

max.  
155 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	32 - 76
Luminous flux [lm]:	4750 - 11300
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

Distinguishing features:

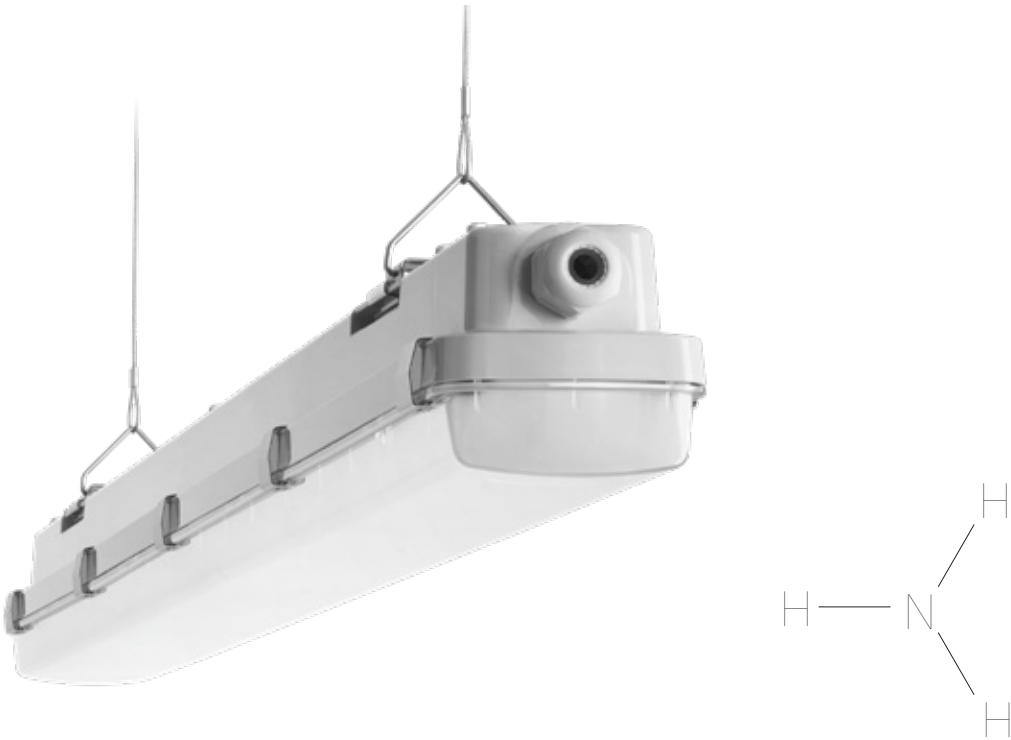
- Resistance to a wide range of temperatures
- It features new solutions improving light distribution and temperature balance
- High luminous efficiency: 155 lm/W
- High energy efficiency
- The luminaire body and diffuser are resistant to UV radiation







The use of Tytan 2 LED Chemo luminaires in a warehouse hall



Tytan 2 LED Chemo

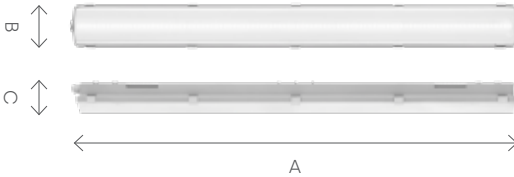
max.  
155 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	30 - 74
Luminous flux [lm]:	4550 - 11300
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	ABS
Body colour:	grey
Diffuser material:	PCT-G
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

Distinguishing features:

- Body resistant to ammonia – recommended for use in animal husbandry
- The diffuser material is GREENGUARD certified
- Very high efficiency
- High energy efficiency
- High ingress protection







## Tytan 2 LED Hall

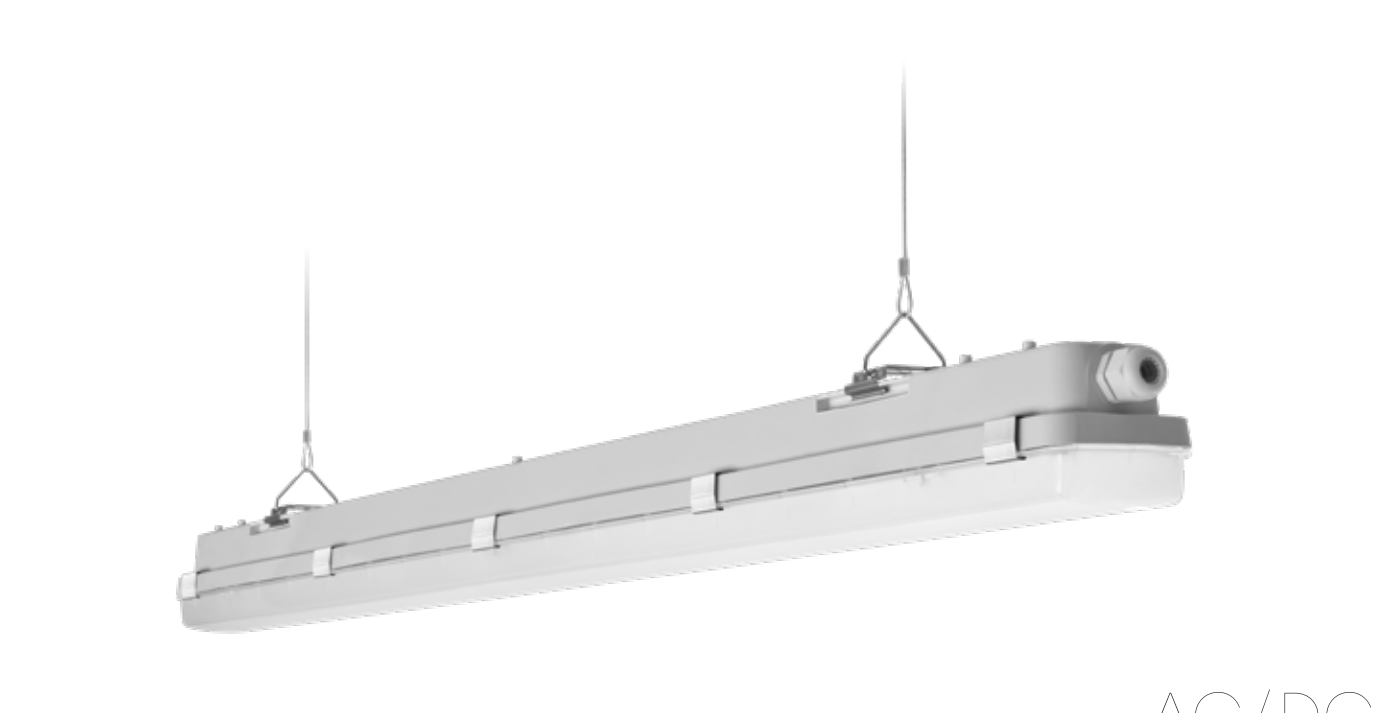
max.  
144 lm/W IP66 IK09 I

Light source:	LED module
Rated power [W]:	58 - 72
Luminous flux [lm]:	8200-10400
Colour temperature [K]:	3000; 4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	transparent
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

### Luminaire's distinguishing features and variants:

- Dedicated to high-bay warehouses (up to 12 m)
- High energy efficiency
- Colour rendering index: Ra> 80
- SDCM ≤ 3
- 3 dedicated optics: 60°, 70° and 90°



AC/DC

## Tytan 2 LED 24-48V

max.  
115 lm/W IP66 IK09 III

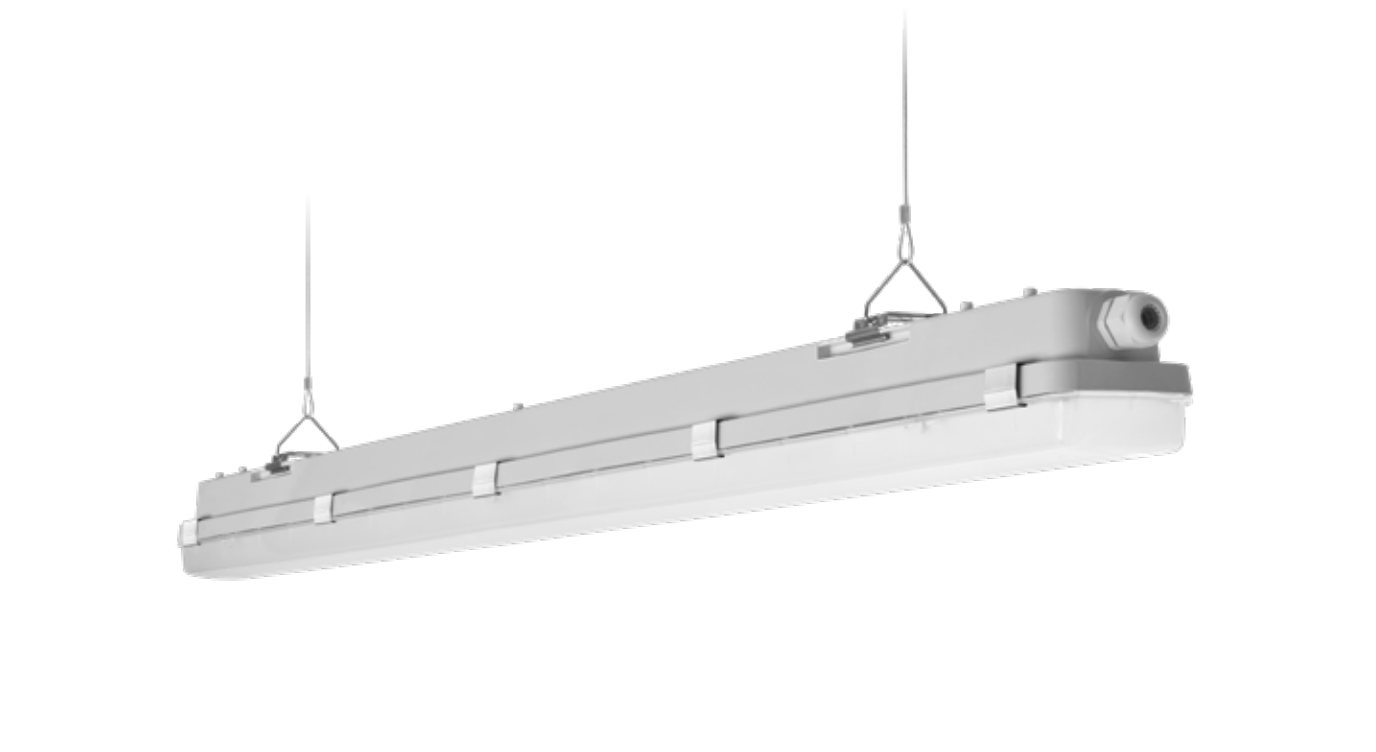
Light source:	LED module
Rated power [W]:	24
Luminous flux [lm]:	2750
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80

### Luminaire's distinguishing features and variants:

- Dedicated to low-voltage 24-48V AC/DC installations
- High impact resistance and ingress protection





Tytan 2 LED Basic

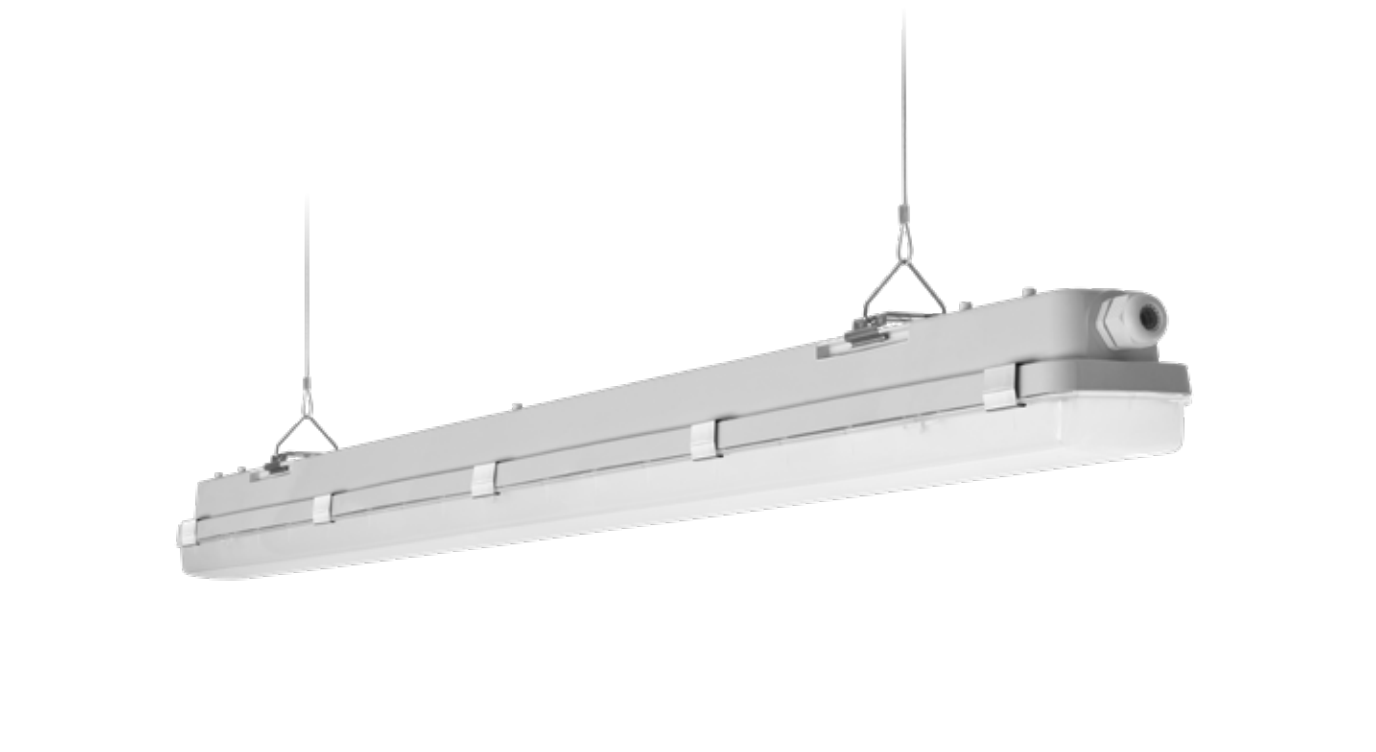
max.  
143 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	31 - 74
Luminous flux [lm]:	4300 - 10600
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

Luminaire's distinguishing features and variants:

- Recommended for lighting public utility, commercial and service-providing facilities
- High energy efficiency
- The luminaire body and diffuser are resistant to UV radiation



Tytan 2 LED Basic Multi

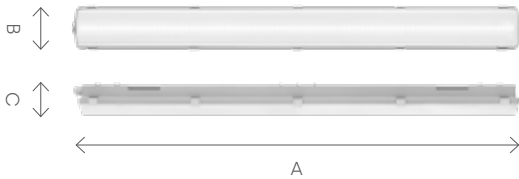
max.  
158 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	18 - 58
Luminous flux [lm]:	2700 - 8250
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1152/85/80, 1432/85/80

Luminaire's distinguishing features and variants:

- 16 combinations/versions of power and luminous flux
- Very high efficiency
- Colour rendering index: Ra> 80
- High impact resistance and ingress protection



# The fastest mounting on the market

**More than 70% shorter assembly time compared to individual industrial luminaires translates into lower labour costs and faster commissioning of the investment.**

In addition, the installation of Linea S LED does not require purchasing additional accessories and assembly elements such as: C-profiles, mounting rods, power cables, which further reduces the installation costs compared to the installation of individual industrial luminaires.

The wiring of the luminaires allows for creating a light line up to 100 meters long, powered from a single source.

## Linea S LED family

01



Connecting individual modules is extremely simple and requires no tools. The speed of installing the lines brings the investor time and money savings.

02



The installation process is extremely intuitive. It starts with connecting the supporting profiles and mounting them to the ceiling. (they can be surface mounted or suspended). You can move the mounting brackets along the entire length of the profile, so there is no need to mark the exact location of the mounting holes.

03



The profiles are connected by clicking in the connecting mechanism. It requires no strength, no tools and takes a second. Then, it is enough to connect the power supply to the mounted supporting profiles and connect the lighting modules.



## Key features

**Linea S LED – a highly energy-efficient linear luminaire characterised by high luminous efficiency > 181 lm/W, designed for industrial, warehouse and commercial areas.**

>181  
lm/W

IP40



### What distinguishes Linea S LED luminaires?

- Quick joining of modules into lines
- Luminous efficiency > 181 lm/W.
- Wide power range from 14 W to 146 W
- Luminous flux 2100 lm – 23100 lm
- Compatible with ClueIn and HCL control systems
- Tool-free connection of profiles
- LED lifetime > 196,000 h
- Large distance between suspensions (time and material savings)
- Convenient tool-free connection and disconnection of lighting modules
- Versions with different colour temperature and colour rendering index (Ra) available

The unique design of the luminaire allows the product to be used in a variety of applications, offering a very convenient installation. Linea S LED luminaires can be quickly connected in lines of any length with no tools needed.



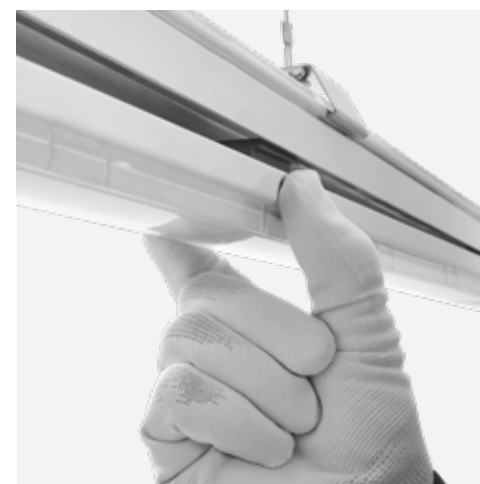
### Clicked-in lighting module

Lighting modules are clicked into spots placed on the supporting profile, chosen by the installer.



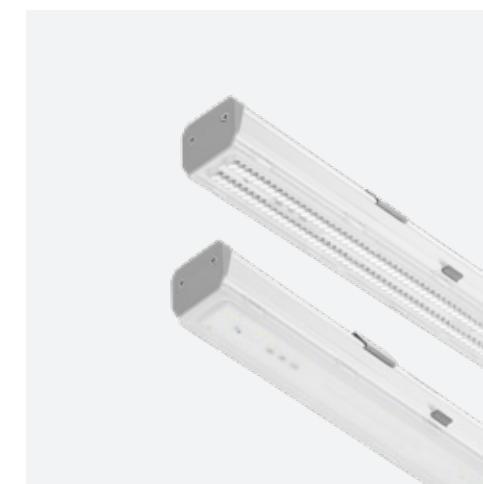
### Various lengths

Three lengths of lighting modules and three lengths of supporting profiles give the possibility of creating many variants of lines and flexibility in adjusting the lighting to area specificity.



### Tool-free access to luminaire interior

The design of the luminaire allows the installer to access the clicked-in luminaire interior quickly and without any tools.



### Flexibility in optics selection

The luminaire is available in many options of optics with four light distribution variants (120°, 105°, 40/30° i 46/117°), enabling the illumination of objects from a height of up to 20 m.



## Not only in industrial and warehouse facilities!

High aesthetics of workmanship and flexibility in selection of lighting modules makes Linea S LED a perfect choice for commercial facilities.



### With emergency lighting

Linea S LED luminaires are not only standard lighting modules providing general lighting. They are also modules with emergency lighting available. So there is no need to lay another electrical circuit to ensure safe evacuation.



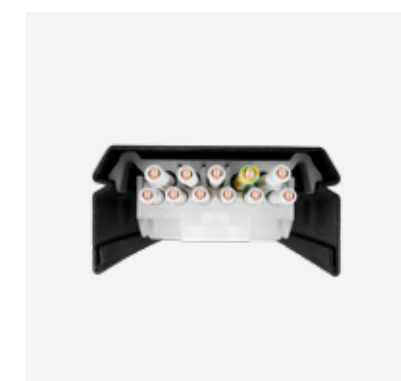
### With projectors

The constructor has provided compatibility of Linea S LED with a module offering accent lighting which can be clicked into it. This element of the line can spot-illuminate the details that the investor or user of the facility would like to expose.



### With motion sensor.

Function modules with DALI motion sensors are available. They bring energy savings in places where no light is required at a given moment.



### With 11 wires – extended possibilities

The supporting profiles have 11-core wiring – this allows for clicking various control systems and intelligent lighting solutions into the luminaire.





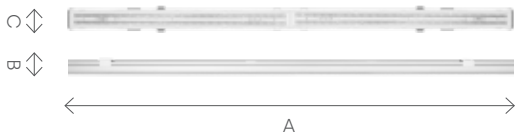
Linea S LED

max.  
181 lm/W    IP40    

Rated power [W]:	14 - 146	Body colour:	white
Luminous flux [lm]:	2100 - 23100	Diffuser material:	PC
Mounting method:	suspended, surface-mounted	Diffuser type:	MAT, transparent
Body material:	steel	Dimensions A/B/C [mm]:	1764/105/50, 3528/105/50, 5292/105/50

Features:

- Very high luminous efficiency
- Quick joining of modules into lines
- 11-core cables
- Variety of lighting modules
- Tool-free module clipping
- Wide range of optics available



Visualisation of the application of the Linea S LED luminaire with Expo Adjust modules in a bookshop.



Linea S LED Single IP54/IP40

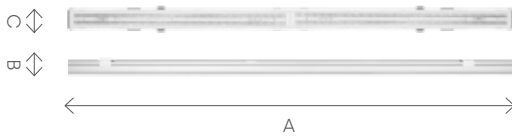
max.  
172 lm/W IP54 IK03

Rated power [W]:	22 - 142
Luminous flux [lm]:	3200 - 23400
Mounting method:	suspended, surface-mounted
Body material:	aluminium

Body colour:	white
Diffuser material:	PC
Diffuser type:	MAT, transparent
Dimensions A/B/C [mm]:	588/60/50, 1181/60/50, 1495/60/50, 1769/60/50

Distinguishing features:

- Very high luminous efficiency
- Quick connection of modules into light lines
- Large selection of optics



Linea S LED Eco

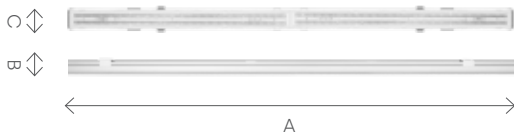
do  
179 lm/W IP40 IK03

Rated power [W]:	7 - 143
Luminous flux [lm]:	1000 - 25600
Mounting method:	suspended, surface-mounted
Body material:	steel

Body colour:	RAL9010
Diffuser material:	PC
Diffuser type:	MAT, transparent
Dimensions A/B/C [mm]:	588/53/54, 1176/53/54, 1764/53/54, 2940/53/54, 3528/53/54

Distinguishing features:

- The applied design allows for easy installation and power connection
- The ECO version is dedicated to projects where the length of individual lighting lines powered by a single cable (excluding modules with covers and without considering current protection) does not exceed 40 meters





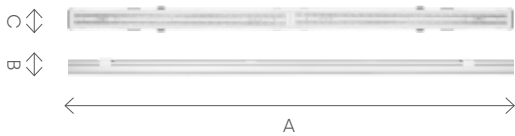
Linea S Track LED

max.  
179 lm/W    IP20    IK03    

Rated power [W]:	11 - 69	Body colour:	white, black
Luminous flux [lm]:	1750 - 11100	Diffuser material:	PC
Mounting method:	busbar-mounted	Diffuser type:	MAT, transparent
Body material:	steel	Dimensions A/B/C [mm]:	1175/54/66, 590/54/66

Distinguishing features:

- Highly energy-efficient modules with excellent light efficiency and a minimalist, delicate appearance
- Modules are available in lengths of 590 and 1175mm with various optics enabling the selection of the right solution for a specific concept



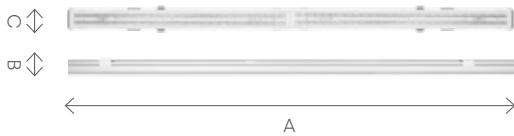
Linea S LED IP54

max.  
183 lm/W    IP54    IK03    

Rated power [W]:	7 - 143	Body colour:	RAL9010
Luminous flux [lm]:	1000 - 25600	Diffuser material:	PC
Mounting method:	suspended, surface-mounted	Diffuser type:	MAT, transparent
Body material:	steel	Dimensions A/B/C [mm]:	588/53/54, 1176/53/54, 1764/53/54, 2940/53/54, 3528/53/54

Distinguishing features:

- The design used allows for easy installation and power connection
- High IP54 tightness class allows for lamp installation in an environment with increased humidity and dust
- LEDs from a renowned manufacturer and new LED modules contribute to very high luminous efficiency







Tuba IP69K

max.  
194 lm/W

IP69K

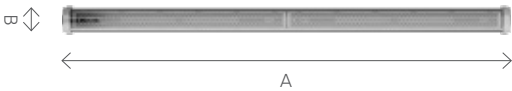
IK05  
IK06  
IK10

⬇

Rated power [W]:	10 - 59	Body colour:	white
Luminous flux [lm]:	1350 - 11150	Diffuser material:	glass, PC, PMMA
Mounting method:	surface, suspended	Diffuser type:	transparent
Body material:	stainless steel	Dimensions A/B [mm]:	1250/64.5, 660/64.5, 697/64.5, 1281/64.5

Distinguishing features:

- Resistant to high-pressure water and extreme temperature conditions
- Exceptional durability with chemical- and impact-resistant materials
- High energy efficiency and various optical options available





Industry Slim LED

max.  
164 lm/W IP66 |

Light source:	LED module
Rated power [W]:	23 - 117
Luminous flux [lm]:	2500 - 17500
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	aluminium
Body colour:	grey
Diffuser material:	PC
Diffuser type:	transparent
Dimensions A/B/C [mm]:	621/50/75, 651/50/75, 1177/50/75

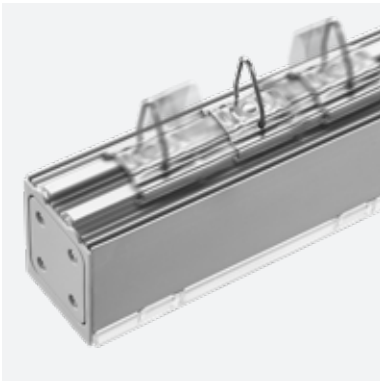
Distinguishing features:

- Aluminium body
- Very high IP66 ingress protection
- Easy and fast installation
- 5 variants of light distribution



Compact length

Smaller sizes bring additional savings resulting from logistics and warehouse issues.



Aluminium body

A robust luminaire body made of aluminium, which allows for good heat dissipation and significant weight reduction.



Fast mounting

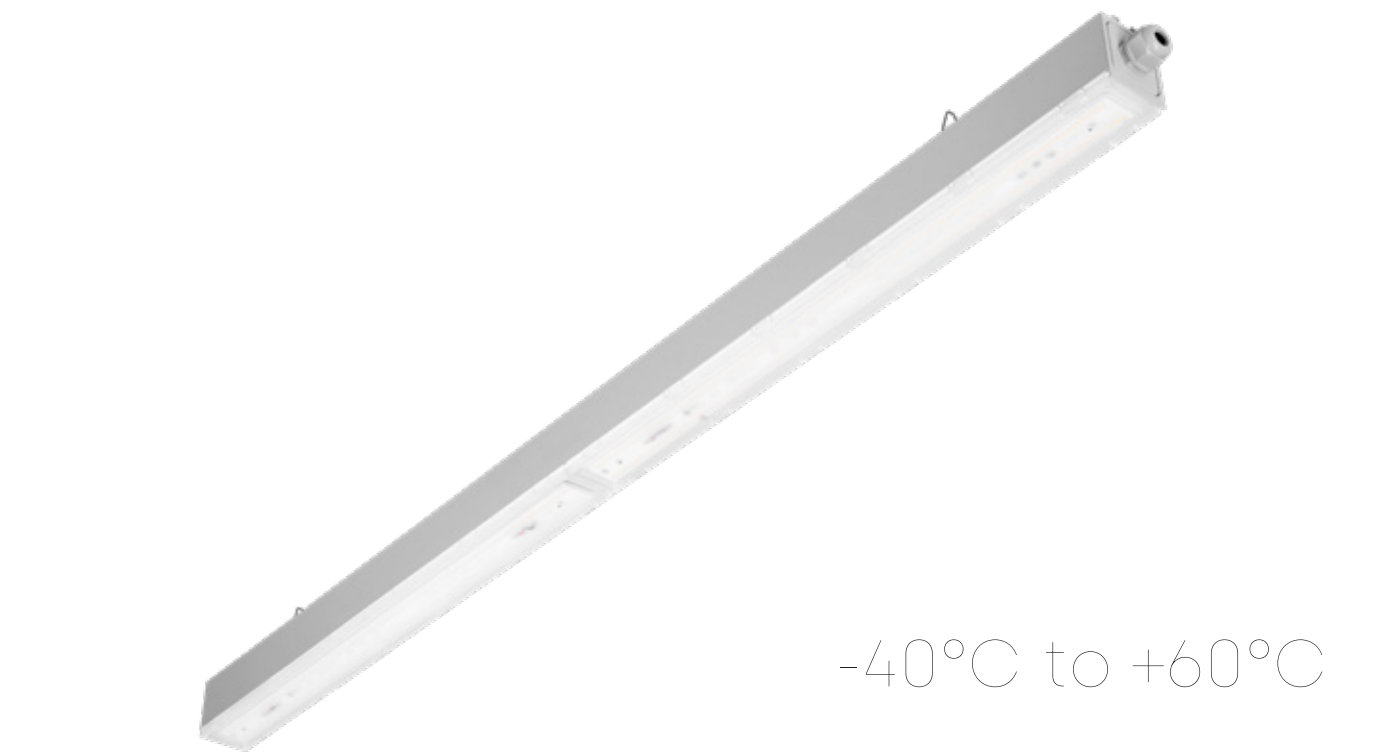
Thanks to the well-thought-out design, the installer can easily access the board with the connection cube and the driver. This significantly improves the installation process.



Five types of light distribution

In order to be able to adjust the luminaire to the purpose of a given object and different needs for lighting, the designer designed several types of light distributions.





-40°C to +60°C

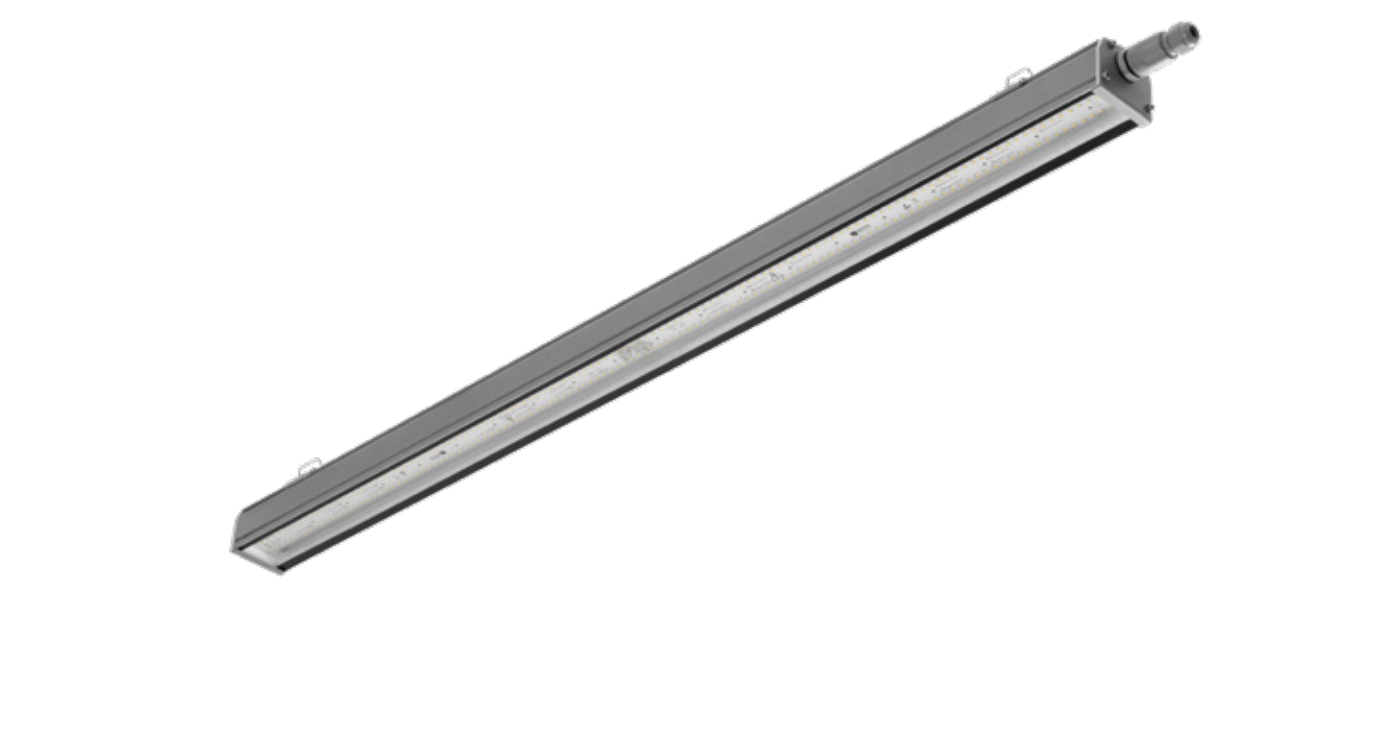
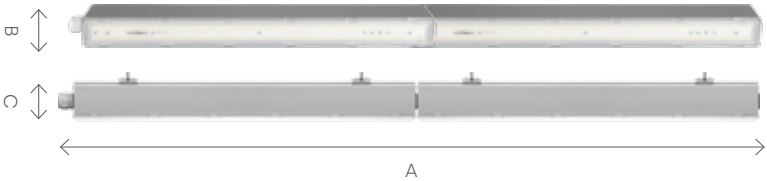
Industry Slim LED Endura

max.  
165 lm/W IP66 |

Light source:	LED module	Body material:	aluminium
Rated power [W]:	55 - 69	Body colour:	grey
Luminous flux [lm]:	8400 - 11400	Diffuser material:	PC
Colour temperature [K]:	4000	Diffuser type:	transparent
Mounting method:	surface, suspended	Dimensions A/B/C [mm]:	1177/50/75

Distinguishing features:

- Wide range of working temperature from -40° to +60°C
- Aluminium body
- Very high IP66 ingress protection
- Easy and fast installation
- 5 variants of light distribution



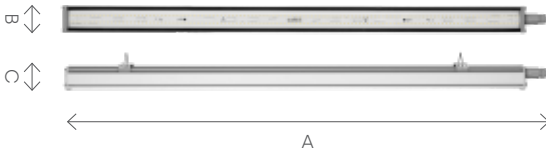
Industry IP66 LED

max.  
163 lm/W IP66 IK08 |

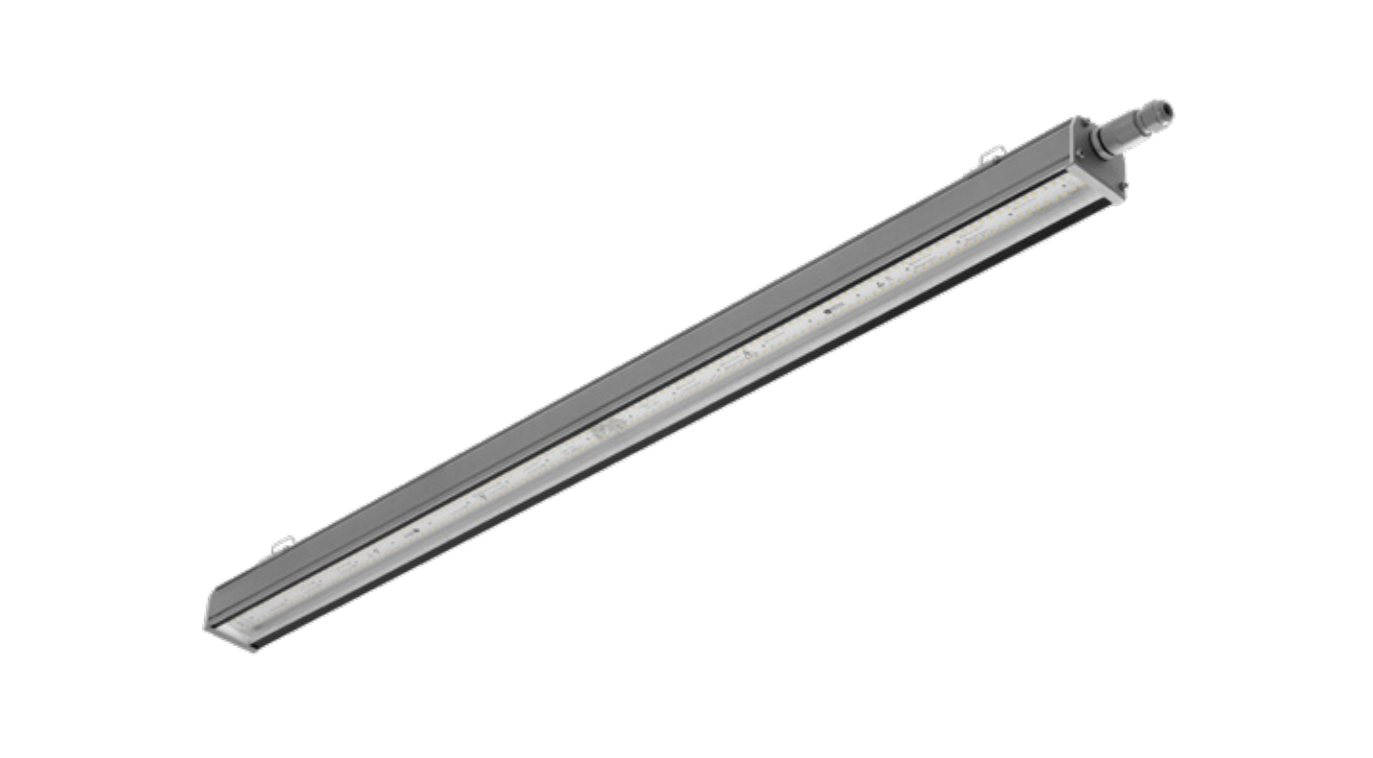
Light source:	LED module	Body material:	aluminium
Rated power [W]:	14 - 212	Body colour:	grey
Luminous flux [lm]:	2150 - 34000	Diffuser material:	tempered glass
Colour temperature [K]:	4000	Diffuser type:	transparent
Mounting method:	surface, suspended	Dimensions A/B/C [mm]:	570/63/55, 1150/55/55, 1250/135/104, 1450/55/55, 1450/63/55, 1450/104/135

Distinguishing features:

- Aluminium body and diffuser made of tempered glass
- Quick connector for safe and quick mounting
- Mounting bracket on the entire length
- Slim luminaire – does not collect dirt
- Dedicated to heavy duty industrial conditions
- 3 light distributions dedicated to high rooms







Industry IP66 LED Endura

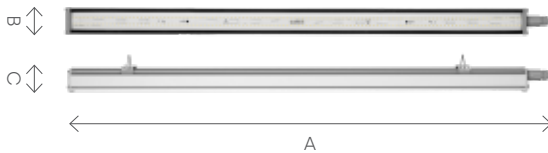
max.  
161 lm/W    IP66    IK08    |

Light source:	LED module
Rated power [W]:	55; 64
Luminous flux [lm]:	8900; 10500
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	aluminium
Body colour:	grey
Diffuser material:	tempered glass
Diffuser type:	transparent
Dimensions A/B/C [mm]:	1150/63/55, 1450/63/55

Distinguishing features:

- Aluminium body and diffuser made of tempered glass
- Quick connector for safe and quick mounting
- Mounting bracket on the entire length
- Slim luminaire – does not collect dirt
- Dedicated to rooms with increased temperature, up to +60°C



Industry IP66 LED MR

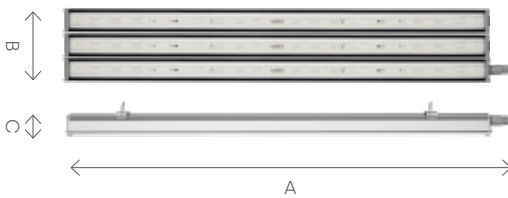
max.  
148 lm/W    IP66    IK08    |

Light source:	LED module
Rated power [W]:	276 - 345
Luminous flux [lm]:	35900 - 68000
Colour temperature [K]:	4000
Mounting method:	suspended

Body material:	aluminium
Body colour:	grey
Diffuser material:	tempered glass
Diffuser type:	transparent
Dimensions A/B/C [mm]:	1173/205/125, 1473/205/125, 1473/273/170

Distinguishing features:

- Aluminium body and diffuser made of tempered glass
- High impact resistance
- Dedicated to heavy duty industrial conditions
- High luminous flux up to 68000 lm
- 3 light distributions dedicated to high rooms







Application of the Industry 2 LED luminaire in a warehouse hall.



## Industry 2 LED

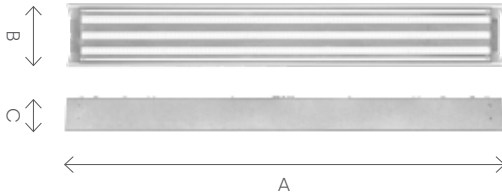
max.  
161 lm/W    IP23    IK07    |

Light source:	LED module
Rated power [W]:	45 - 147
Luminous flux [lm]:	6800 - 23600
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	galvanized steel sheet
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1210/137/70, 1490/137/70, 1490/190/70

### Distinguishing features:

- Wide range of luminous flux from 6800 to 24000 lm
- High ergonomics and easy mounting
- 3 types of light distribution to choose from
- High luminous efficiency
- Suspended mounting panel
- Body made of galvanized sheet resistant to environmental conditions







Mimo 2 LED

max.  
150 lm/W

IP66

IK06

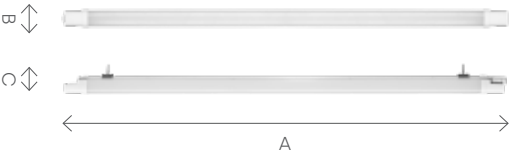
||

Light source:	LED module
Rated power [W]:	15 - 32
Luminous flux [lm]:	2050 - 5000
Colour temperature [K]:	3000; 4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	white
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1230/45/50, 1510/45/50, 670/45/50

Distinguishing features:

- Very high ingress protection
- Low weight – does not weight down the ceiling
- Mounting bracket on the entire length
- Through-wiring versions
- Tool-free connection of cables in just 19 seconds.



Tores LED PC

max.  
147 lm/W

IP65

IK06

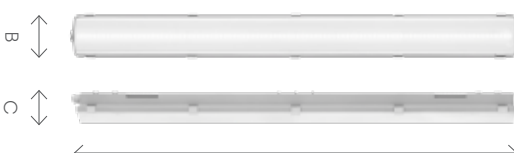
|

Light source:	LED module
Rated power [W]:	36 - 70
Luminous flux [lm]:	5000 - 10100
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	PC
Body colour:	grey
Diffuser material:	PC
Diffuser type:	frosted
Dimensions A/B/C [mm]:	1200/85/80, 1500/85/80

Distinguishing features:

- Very good technical parameters
- It features new solutions improving light distribution and temperature balance
- Adjustable brackets allowing for mounting tolerance +/-60 mm
- Luminaire body and diffuser are resistant to UV radiation







Industry IP40 LED

max.  
148 lm/W    IP40    IK06    |

Light source:	LED module
Rated power [W]:	52 - 118
Luminous flux [lm]:	7600 - 17450
Colour temperature [K]:	4000
Mounting method:	surface, suspended

Body material:	aluminium
Body colour:	grey
Diffuser material:	PC
Diffuser type:	MATT
Dimensions A/B/C [mm]:	1680/52/42

Distinguishing features:

- High efficiency
- Aluminium body
- Fast mounting
- Quality at a good price



Arena LED

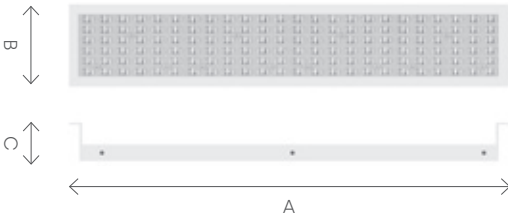
max.  
131 lm/W    IP65    IK09    |

Light source:	LED module
Rated power [W]:	70 - 141
Luminous flux [lm]:	8950 - 18400
Colour temperature [K]:	3000; 4000
Mounting method:	surface, suspended

Body material:	steel
Body colour:	white
Diffuser material:	PC
Diffuser type:	transparent
Dimensions A/B/C [mm]:	811/195/95, 1205/195/95

Distinguishing features:

- Very low UGR <22
- High luminous efficiency
- Very high ingress protection
- High impact resistance
- Robust steel body



# Efficient and modern High-Bay

Let us introduce a state-of-the-art HIGH-BAY, constituting a new generation of luminaires dedicated to LED technology. Thanks to the use of high-performance diodes, the luminaire is distinguished by very high luminous flux of up to 49,200 lm and luminous efficiency of up to 176 lm/W. Its undoubted, noteworthy advantages include: energy efficiency,

durability and suitability to work in high temperatures up to 60°C and up to 75°C (Endura version).

The luminaire uses a modern optical system. It is available in two versions. One with a glass diffuser and the other with a diffuser made of polycarbonate. The polycarbonate version can have a transparent diffuser or a diffuser with an integrated linear lens array.

**176** max.  
lm/W

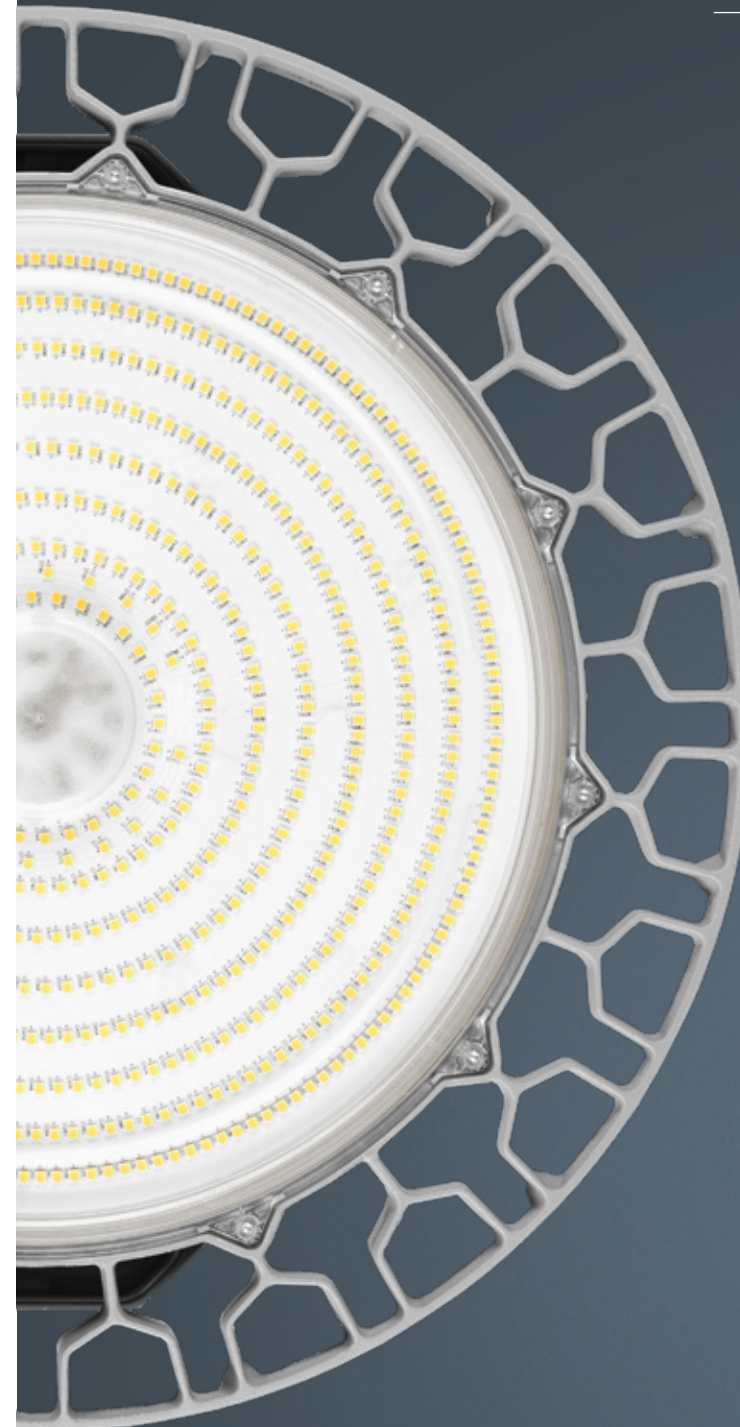
**196** LED lifespan  
.000 h

## Oculus LED **family**

07

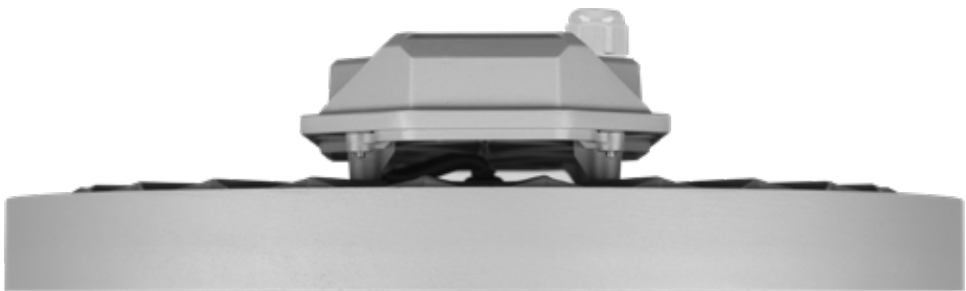
different versions

- 01 **Oculus LED**  
Very high luminous flux
- 02 **Oculus LED UGR**  
Drastically reduced glare effect
- 03 **Oculus LED Endura**  
High ambient temperature environment
- 04 **Oculus LED Mini**  
Compact size (diameter 32 cm)
- 05 **Oculus LED Mini UGR**  
Reduced glare effect
- 06 **Oculus LED P1**  
Mounted to the pole
- 07 **Oculus LED P2**  
Fastened to the frame and to the bar

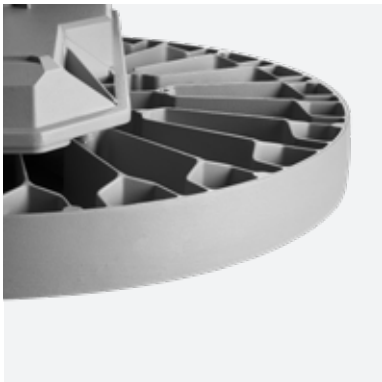


# Well-thought-out and effective heat dissipation management.

When designing the Oculus LED luminaire, we were inspired by nature.

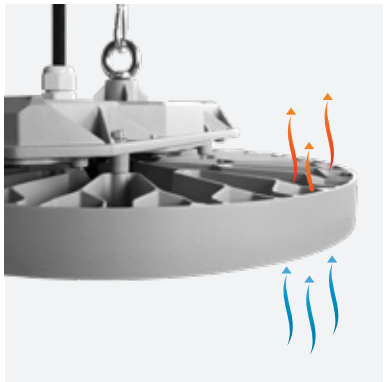


The luminaire structure and materials used for its construction ensure excellent heat management. Thanks to the conduction and convection effects as well as the designed shapes and surface finish, heat is effectively removed from the luminaire, guaranteeing optimal thermal conditions for the operation of the power supply system.



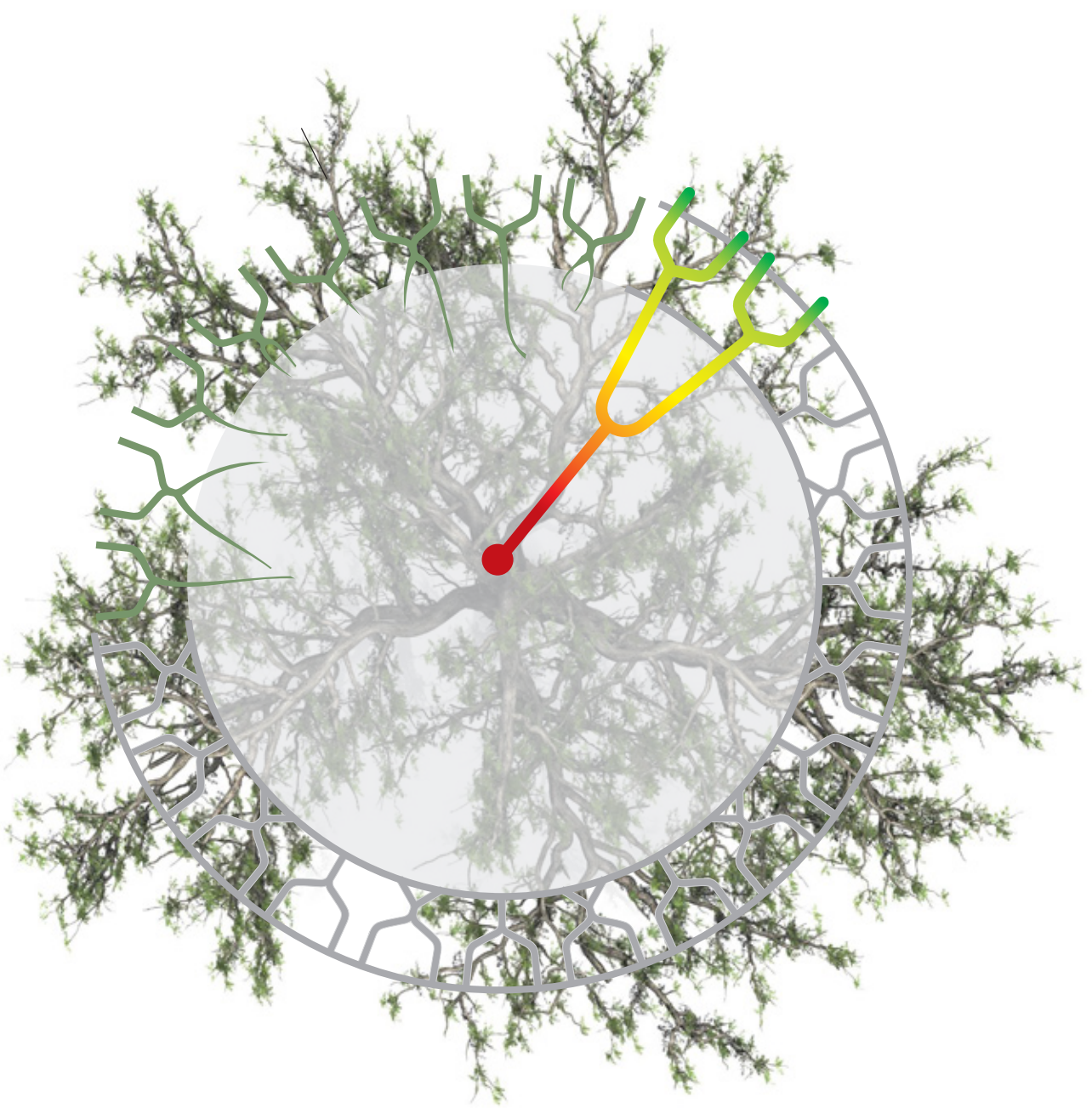
**Refined shape of the body**

The shape of the body with an integrated, effective heat sink and high-quality materials ensure maximum heat dissipation from the LED module.



**Separated power system**

The driver's external compartment, separated from the body, guarantees optimal thermal working conditions for the power supply system.



- 01 / 02 — Heat sink branched architecture effectively dissipates heat
- 02 / 02 — Heat sink design inspired by the shape of a tree





Oculus LED

max.  
176 lm/W

IP66

IK09  
IK07

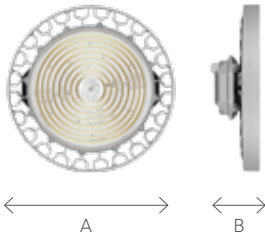
I

Light source:	LED module
Rated power [W]:	75 - 316
Luminous flux [lm]:	12200 - 49200
Colour temperature [K]:	3000, 4000, 5700
Mounting method:	suspended, surface-mounted

Body material:	powder-coated aluminium
Body colour:	grey
Diffuser material:	PC, tempered glass
Diffuser type:	transparent
Dimensions A/B [mm]:	Ø371/125

Distinguishing features:

- Very high working temperature up to 60°C
- High luminous flux up to 49200 lm
- Robust aluminium body, designed for effective heat dissipation
- 4 light distributions and a version with a tempered glass diffuser
- Quick connector – mounting is faster and cheaper
- Ra 70 and Ra 80 colour rendering as standard; Ra 90 available on request



Oculus LED Mini

max.  
167 lm/W

IP66

IK09

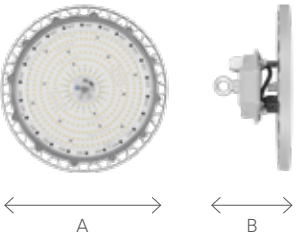
I

Light source:	LED module
Rated power [W]:	72 - 148
Luminous flux [lm]:	11400 - 23800
Colour temperature [K]:	3000, 4000, 5700
Mounting method:	suspended, surface-mounted

Body material:	powder-coated aluminium
Body colour:	grey
Diffuser material:	PC
Diffuser type:	transparent
Dimensions A/B [mm]:	Ø320/107

Distinguishing features:

- Very high working temperature up to 55°C
- High luminous flux value
- Robust aluminium body, designed for effective heat dissipation
- Very high ingress protection
- Quick connector – mounting is faster and cheaper







+75°C

Oculus LED Endura

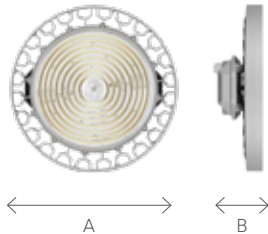
max. 174 lm/W IP66 IK09 |

Light source:	LED module
Rated power [W]:	109-203
Luminous flux [lm]:	18300-28300
Colour temperature [K]:	3000, 4000, 5700
Mounting method:	suspended, surface-mounted

Body material:	powder-coated aluminium
Body colour:	grey
Diffuser material:	PC, tempered glass
Diffuser type:	transparent
Dimensions A/B [mm]:	Ø371/106

Distinguishing features:

- Robust aluminium body, designed for effective heat dissipation
- The driver's compartment, separated from the body and connected to the luminaire with a 10 m cable, guarantees optimal thermal working conditions for the power supply system.
- The luminaire can work in ambient temperature up to +75°C, and the power supply system up to +45°C.



The use of Oculus LED Endura luminaires in a warehouse hall.





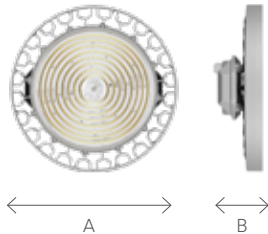
Oculus LED UGR

max.  
153 lm/W    IP66    IK09    |

Light source:	LED module	Body material:	powder-coated aluminium
Rated power [W]:	74-218	Body colour:	grey
Luminous flux [lm]:	11300-28800	Diffuser material:	PC
Colour temperature [K]:	3000, 4000, 5700	Diffuser type:	transparent
Mounting method:	suspended, surface-mounted	Dimensions A/B [mm]:	Ø371/125

Distinguishing features:

- Robust aluminium body, designed for effective heat dissipation
- LEDs from a reputable manufacturer and new LED panels enable very high luminous efficiency
- With the UGR value of 19 – 22, it minimises the glare effect, increasing people's well-being and reducing their fatigue and the number of errors they make



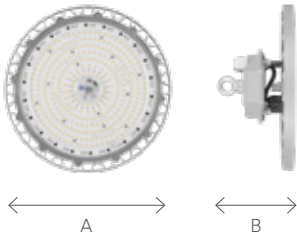
Oculus LED Mini UGR

max.  
153 lm/W    IP66    IK09    |

Light source:	LED module	Body material:	powder-coated aluminium
Rated power [W]:	74 - 151	Body colour:	grey
Luminous flux [lm]:	11300 - 21500	Diffuser material:	PC
Colour temperature [K]:	3000, 4000, 5700	Diffuser type:	transparent
Mounting method:	suspended, surface-mounted	Dimensions A/B [mm]:	Ø371/106

Distinguishing features:

- Very high working temperature up to 55°C
- Robust aluminium body, designed for effective heat dissipation
- With the UGR value of 19 – 22, it minimises the glare effect, increasing people's well-being and reducing their fatigue and the number of errors they make





Oculus LED P1

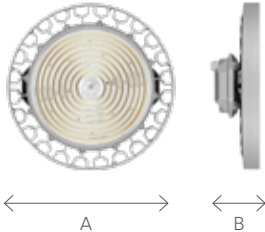
max.  
167 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	109-316
Luminous flux [lm]:	18300-47500
Colour temperature [K]:	3000, 4000, 5700
Mounting method:	mounted to the pole

Body material:	powder-coated aluminium
Body colour:	grey
Diffuser material:	PC
Diffuser type:	transparent
Dimensions A/B [mm]:	Ø371/125 (556 – width with the bracket)

Distinguishing features:

- Adapted for mounting to a lighting pole, mast Ø 60-120 mm
- Robust aluminium body, designed for effective heat dissipation
- LEDs from a reputable manufacturer and new LED panels enable very high luminous efficiency



Oculus LED P2

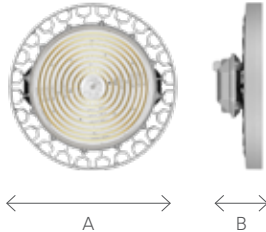
max.  
167 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	109-316
Luminous flux [lm]:	18300-47500
Colour temperature [K]:	3000, 4000, 5700
Mounting method:	mounted to the pole, to the bar

Body material:	powder-coated aluminium
Body colour:	grey
Diffuser material:	PC
Diffuser type:	transparent
Dimensions A/B [mm]:	Ø371/125 (422 – width with the bracket)

Distinguishing features:

- Adapted for mounting to a lighting pole, a mast – to the bar, surface-mounted
- Robust aluminium body, designed for effective heat dissipation
- LEDs from a reputable manufacturer and new LED panels enable very high luminous efficiency





## Quest 2 LED **family**

Let us introduce the Quest 2 LED family – a line of floodlights and High-Bay luminaires. Versatility and multitude of applications is their greatest advantage – as per the designer's vision, which assumed differentiation of individual variants so that they could be dedicated to a number of places and objects.

Examples of application:

- industrial halls and warehouses;
- ramps, infrastructure around the halls;
- internal roads, parking lots;
- exhibition, entertainment and sports halls;
- sports grounds and stadiums;
- façades of architectural objects;
- historic buildings, monuments, billboards;
- temporary lighting of the construction site;
- temporary lighting of service workplaces

Quest 2 LED luminaires are characterised by high energy efficiency, which translates into the reduction in the emission of CO<sub>2</sub> and allows for up to 65% savings compared to luminaires equipped with traditional light sources.



Floodlight



High-Bay

**WILL ILLUMINATE  
ANY  
SPACE**







The application of Quest 2 LED luminaires to illuminate the unloading ramps.



Quest 2 LED

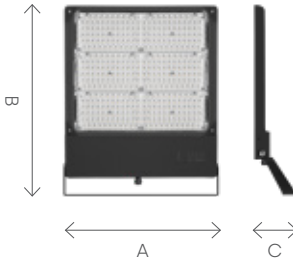
max.  
158 lm/W    IP66    IK09    |

Light source:	LED module
Rated power [W]:	27 - 243
Luminous flux [lm]:	3600 - 30900
Colour temperature [K]:	3000, 4000, 5700
Mounting method:	surface mounted

Body material:	powder-coated aluminium
Body colour:	anthracite grey
Diffuser material:	tempered glass
Diffuser type:	transparent
Dimensions A/B/C [mm]:	436/472/79, 437/378/79

Distinguishing features:

- Very high ingress protection
- Durable aluminium body
- 5 types of light distribution
- Quick connector – mounting is faster and cheaper
- Very high efficiency
- Slim aluminium body without heat sink fins – not collecting dirt and easy to clean







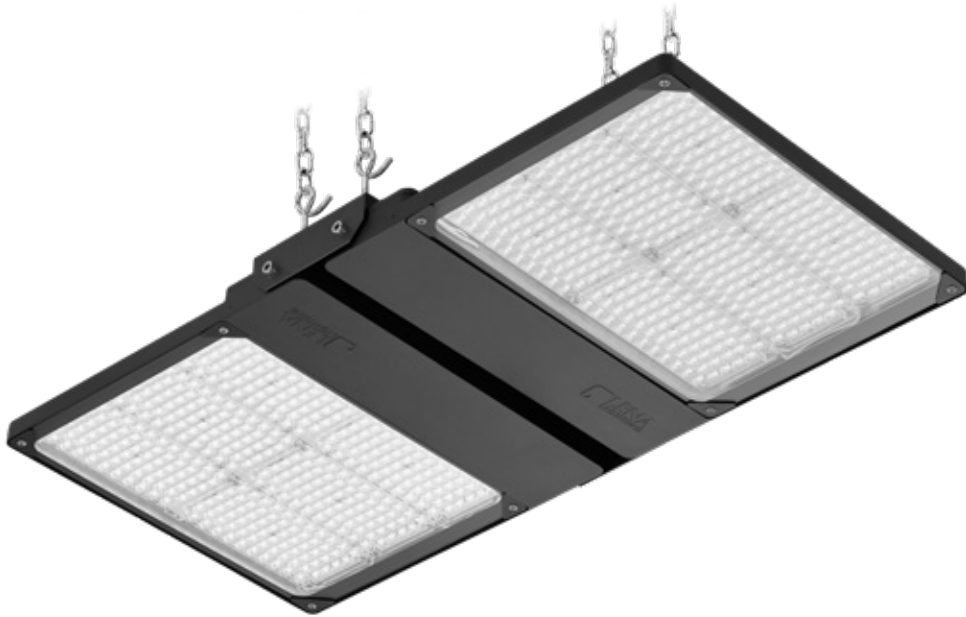
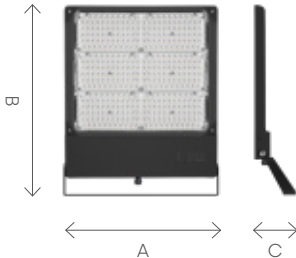
Quest 2 LED Resist

max.  
138 lm/W   IP66   IK09   |

Light source:	LED module	Body material:	powder-coated aluminium
Rated power [W]:	54 - 145	Body colour:	anthracite grey
Luminous flux [lm]:	6600 - 19550	Diffuser material:	tempered glass
Colour temperature [K]:	4000	Diffuser type:	transparent
Mounting method:	surface mounted	Dimensions A/B/C [mm]:	321/424/37, 415/424/37

Distinguishing features:

- Increased resistance to chemicals
- Dedicated for use in swimming pools, educational and administrative facilities, halls, garages, passages, warehouses, shops, food industry and commercial and service-providing facilities related to food products
- Very high ingress protection



Quest 2 LED HB

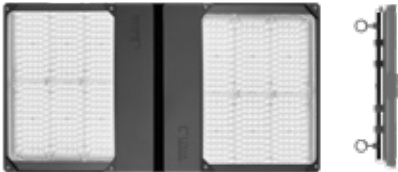
max.  
140 lm/W   IP66   IK09   |

— Endura version with thermal resistance available

Light source:	LED module	Body material:	aluminium
Rated power [W]:	108 - 290	Body colour:	anthracite grey
Luminous flux [lm]:	14000 - 61800	Diffuser material:	tempered glass
Colour temperature [K]:	4000, 5700	Diffuser type:	transparent
Mounting method:	suspended, surface-mounted	Dimensions:	on the detail sheet

Distinguishing features:

- Quick connector – mounting is faster and cheaper
- Durable aluminium body
- 5 types of light distribution
- High impact resistance
- Versions designed for work in low and high temperatures from -40°C to +60°C available



# Entrust lighting design to professionals

Office: Środa Wielkopolska



Our customers can take advantage of our experts' professional advice at any time during the implementation of the investment. We will support you in choosing the lighting concept and the products. We will make visualisations and comprehensive lighting projects using the latest computer software. We make calculations of profitability and energy efficiency of lighting.

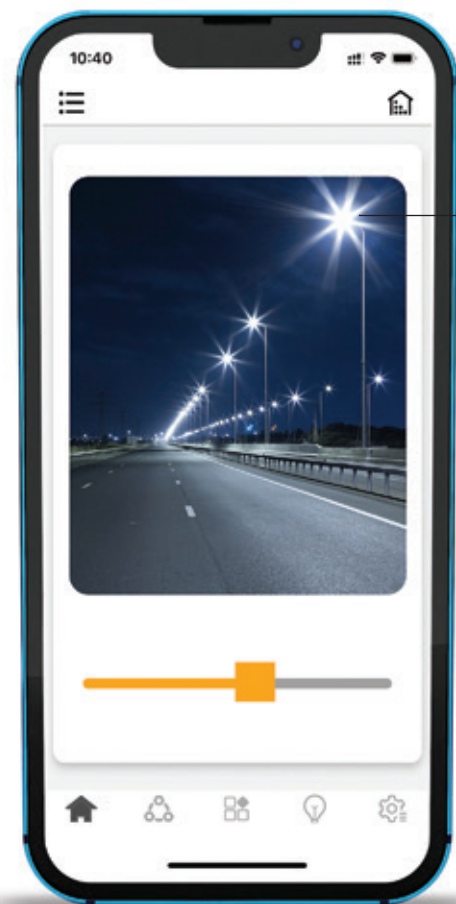
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**We invite you**  
to cooperate with us



# Intelligent lighting control system





# Light under control

**Clue is a technologically advanced system that remotely manages and controls road luminaires. It helps optimise energy efficiency and monitors the status of each luminaire.**

Is intuitive, reliable and secure. Provides accurate real-time control of street lighting infrastructure. The cloud-based interface is available to the administrator 24/7 from any device connected to the Internet.

Web app



Smartphone app



## Clue enables:

Remote luminaire management

Creating a luminaire operation schedule and adjusting the preferred light level in selected hourly intervals.

Creating groups of luminaires, which facilitates the management of lighting in selected areas.

Geolocation and visualisation of street luminaires on the map.

Accurate measurement of energy consumption and its recording and archiving.

Monitoring the working conditions of the light source and the driver.

Monitoring the wear of LED components. The obtained data will keep the system administrator informed about a possible need to replace a luminaire, which translates into lower maintenance costs and significantly shortens the response time.

Multi-level management of system users.







Clue<sup>®</sup>

**Properly selected light improves the comfort of life, efficiency and safety of employees, as well as the cognitive abilities of students. From work and education, through relaxation and fun.**

System's scalability allows Clue to be used regardless of the size of the facility. It will prove perfect in one room, as well as in the entire building complex.

There is no need for renovation, forging walls or through-wiring. Easy access from a smartphone app allows you to see the world in a better light.

Clue will be used in offices as well as industrial and warehouse halls.

**Adapt the light to current needs,  
while optimising the use of energy.**

This is one of the main goals of the Clue system



**Human Centric** Lighting

## — DALI / DALI 2

DALI (Digital Addressable Lighting Interface) is a fully digital communication protocol enabling communication between the installation's end components (luminaires) and the control system, regardless of the applied technological solutions. It allows to build complete lighting systems based on components from any manufacturer.

## — Internet of things – IoT

Uniquely identifiable items can directly or indirectly collect, process or exchange data via an electrical installation or intelligent KNX, or a computer network, or a dedicated DALI network. The system enables remote control via mobile devices and is compatible with existing BMS systems, such as KNX. It is also possible to control larger facilities/installations using an enhanced interface via the PC Platform. Thanks to this solution, it is possible to control the peripherals of building automation.

## — Corridor function

The basis for the operation of a dual-beam luminaire (equipped with the so-called corridor function) is the use of a two-circuit track or a dimmable driver in combination with a motion sensor. In both cases the luminaire works, for example, in a 10/100 system. When the luminaire is at rest, it constantly emits 10% of the nominal flux value, and when it detects movement, it smoothly switches into 100% mode. The corridor solution is especially useful in places, where constant minimal illumination of the monitored surface is required.

## — DIMM 1-10V

Most LED luminaires can be equipped with a dimmable DIMM 1-10 V power supply. The wide possibilities offered by modern LED modules can be exploited to their full capacity, if the luminaires are connected to the 1-10V CONTROL analogue lighting control system. This solution allows you to control each individual luminaire or a group of luminaires and maximise savings without any adverse effects on LED modules' durability.

## — PIR sensor

Directional, passive infrared sensor allowing precise control of lighting. Works in a specific area minimising the number of false alarms (excitations). The sensor allows to adjust illuminance (day-night identification), length of working time (switch off delay) and effective range of operation (distance from the sensor and detection area). In addition, it allows you to indicate the monitored direction of detection. It allows to adjust the luminaire's operation mode to save up to 90% of the energy consumed.

## — Tunable White

Tunable White (Human Centric Lighting) is a technology that allows the user to control the colour (colour temperature) and luminous flux of a single or group of luminaires, reflecting the natural light whose colour and intensity changes over the day. The Human Centric Lighting system, which uses Tunable White luminaires, also allows luminaires to adapt to current needs and activities, regardless of the time of day. There are two types of LEDs in the luminaire and the DALI bus, prompted via the touch panel or application, controls the colour and luminous flux. Manual control is possible or scenes can be pre-set.

## — RCR sensor

Active microwave sensor invisible from the outside, allowing more efficient use of lighting – it reduces energy consumption and the corresponding costs of energy. It provides intelligent lighting control and allows you to maintain high luminaire tightness (installation inside the luminaire). Using the sensor does not affect the lifespan of the LED panels. The sensor allows to adjust illuminance (day-night identification), length of working time (switch off delay) and effective range of operation (detection field radius). It allows to adjust the luminaire's operation mode to save up to 90% of the energy consumed. RCR sensors are also available in the Bluetooth version and are used in corridor systems, offering smooth brightening after motion detection and the daylight harvest function. It is possible to purchase the sensor in a standalone version or as a component.

## — Lighting management system

It allows you to reduce energy consumption by using daylight and automatic switching the light off in the absence of people. The system includes three highly advanced miniature sensors linked to a controller using a set of predefined modes. The lighting control system uses the DALI protocol, developed with the purpose of simplicity of use and providing energy efficiency up to 75%. The light sensor works in the band of visible light (perceived by the human eye), automatically adjusting the level of artificial lighting to the intensity of daylight without causing any visual discomfort for the people remaining inside the room. The motion sensor precisely detects the movement of people. It works in conjunction with the delay function to ensure optimal lighting performance in offices.





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