LED **lighting**

LENA LIGHTING

Design perfectly.

Create consistently.

Offer comprehensively.

Hit precisely.

We take responsibility for the highest quality of lighting

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.
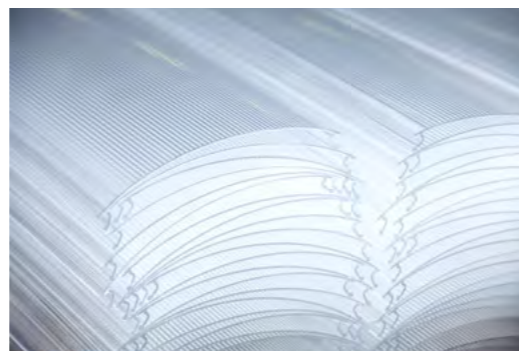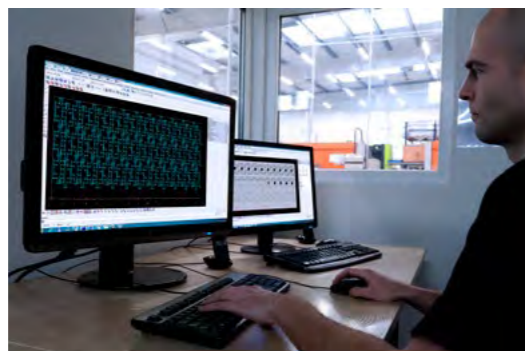
Środa Wielkopolska, Poland

100%
Polish production

We are a lighting manufacturer with 30 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.

LENA LIGHTING S.A. has for 30 years been one of the lighting market leaders in Poland. Based on 100% Polish capital, the company designs, constructs and manufactures professional lighting solutions. It is one of the largest companies and one of the most recognised brands in the region of Greater Poland, where its headquarters and production facilities are located.

The company has been listed on the main market of the Warsaw Stock Exchange since 2005. By developing exports to 70 countries around the world, it has achieved the position of an undisputed leader of professional luminaire exporters among Polish manufacturers.

Modern
LED production line

Środa Wielkopolska, Poland

Entrust design
to professionals

Full service
and a free lighting design

Engineers working in our design office will prepare a project that meets all standards and guarantees comfort of use. The client receives free-of-charge consultancy and project documentation, which ensure high quality and compliance with standards.

DIALux

AUTODESK
REVIT

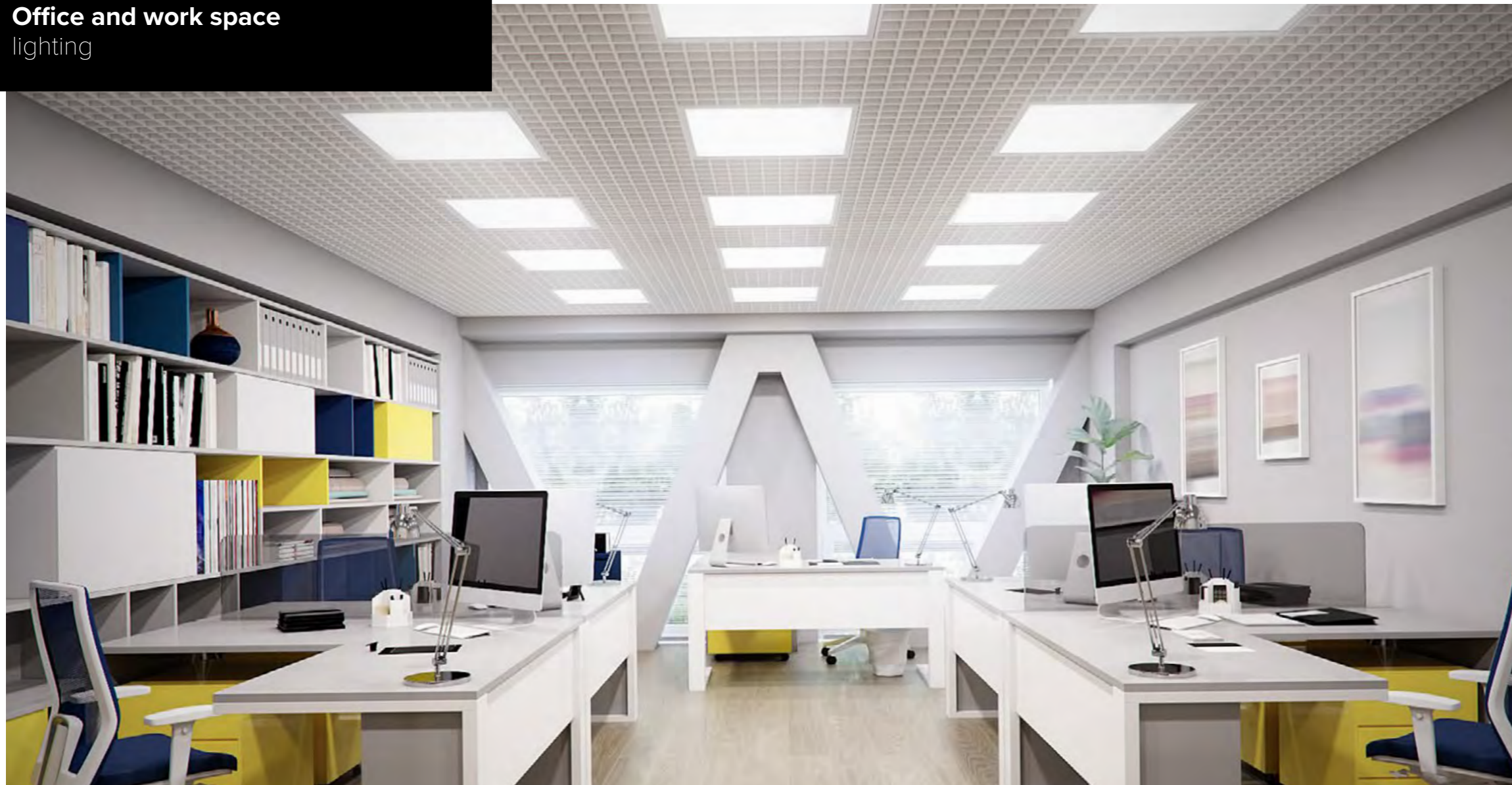DS SOLIDWORKS

A better place to work

Office and work space
lighting

TUNABLE WHITE

Light adjusted to your rhythm!

Tunable White 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.
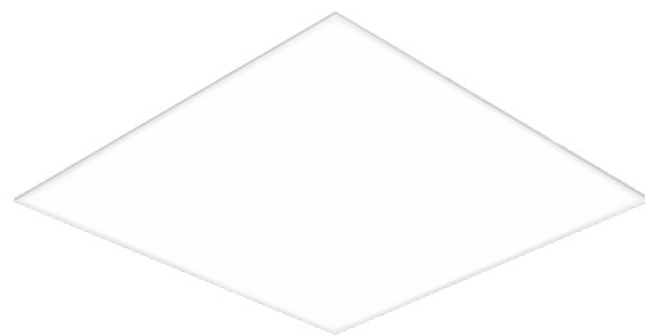
Tunable White also allows the luminaire to adapt to current needs and activities, regardless of the time of day. There are two types of LEDs in the luminaire and the DALI bus, prompted via the touch panel or application, controls the colour and luminous flux. Manual control is possible or scenes can be pre-set.

INDO LED

2400-2600 lm / 30W / IP20

The modern INDO LED coffer luminaire is characterised by an interesting design and high energy efficiency. It is designed for flush mounting in modular ceilings. Perfect for offices and utility rooms, providing comfortable, indirect light and conducive to work that requires eyesight concentration.

COMPACT LED EVO

2750-8100 lm / 24-60 W / IP20

TUNABLE WHITE

COMPACT LED EVO

2750-8100 lm / 24-60 W / IP44/20; IP54/20; IP65/20

TUNABLE WHITE

INDO PLX LED EVO

3450-3700 lm / 34 W / IP20

UV-C STERILON SQUARE

2400-4200 lm / 20-36 W / IP20

Surface disinfection function combined with lighting function

COMPACT LED EVO

2750-6550 lm / 24-52 W / IP20

⌜TUNABLE⌝
⌞WHITE⌟

COMPACT LED EVO 1200

2900-6800 lm / 25-58 W / IP20

⌜TUNABLE⌝
⌞WHITE⌟

COMPACT LED EVO 1200

2750-8100 lm / 24-60 W / IP20

⌜TUNABLE⌝
⌞WHITE⌟

TERRA 2 LED

The Terra 2 Led family of luminaires is characterised by high luminous flux and a high degree of light uniformity (SDCM ≤ 3). Ideally suited for places with people performing working professions that require eyesight concentration.

The high-efficiency HE reflector ensures optimal use of the luminous flux, effectively eliminating the glare effect.

The luminaires will be a perfect match for modern interiors, where they will constitute decorative elements. With the multitude of versions: square and rectangular, flush- and surface-mounted as well as mounted in modular ceilings — they can fit in any office or general utility room.

UGR ≤ 19

3 colours
dimensions
mounting methods
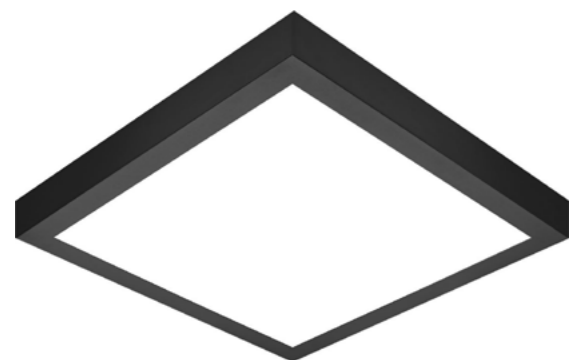
MADERA 3 LED
1800-5200 lm / 15-41 W / IP44
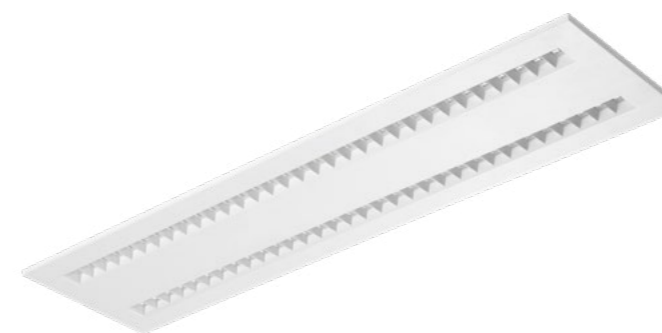**A wide variety of dimensions and mounting methods**

TERRA 2 LED
1900-8100 lm / 20-72 W / IP20
MULTI version: 2100-5400 lm / 24-49 W / IP20

TERRA 2 LED LONG
3500-5400 lm / 31-48 W / IP20
MULTI version: 2100-5400 lm / 24-49 W / IP20
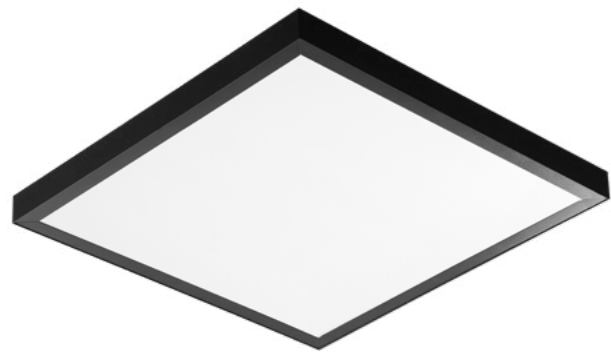
SQ 600 LED

2900-10900 lm / 29-73 W / IP20

TABLO LED

4300-9300 lm / 35-70 W / IP20
Asymmetrical light distribution

TABLO LED

4300-9300 lm / 35-70 W / IP20
Asymmetrical light distribution

PLANO LED EVO

3000-5700 lm / 30-54 W / IP40/20
Economical version, frame for surface mounting available

Eyesight and working comfort in mind

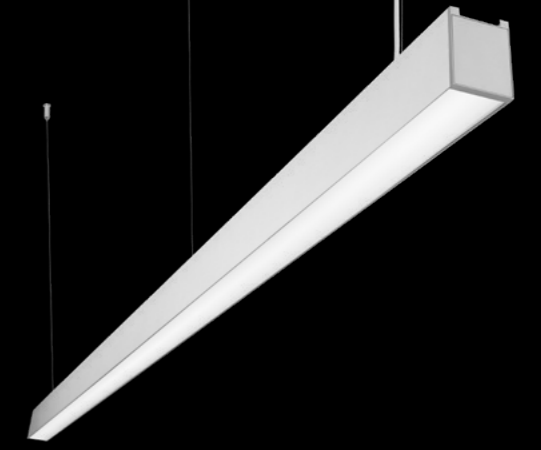Well-selected luminaires should be able to ensure visual comfort, visual performance and safety. The basic parameters taken into account in the correct design of room lighting are: luminance distribution, lighting intensity, light directivity, lighting in the interior space, light variability (light level and colour), colour rendering and light colour, glare and flickering.

6 metres
of a uniform design

BARIS 52 LED

BARIS 52 Led is one of the latest products we offer. The luminaire is characterised by aesthetic workmanship, impressive length of the profile without joints (up to 6 meters) and the possibility to replace LED modules. Made in modern technology, it is also available with DALI control system. It works with intelligent IOT modules, which further optimises the level and the amount of generated light. It is intended to be installed in representative rooms, communication routes and public spaces.
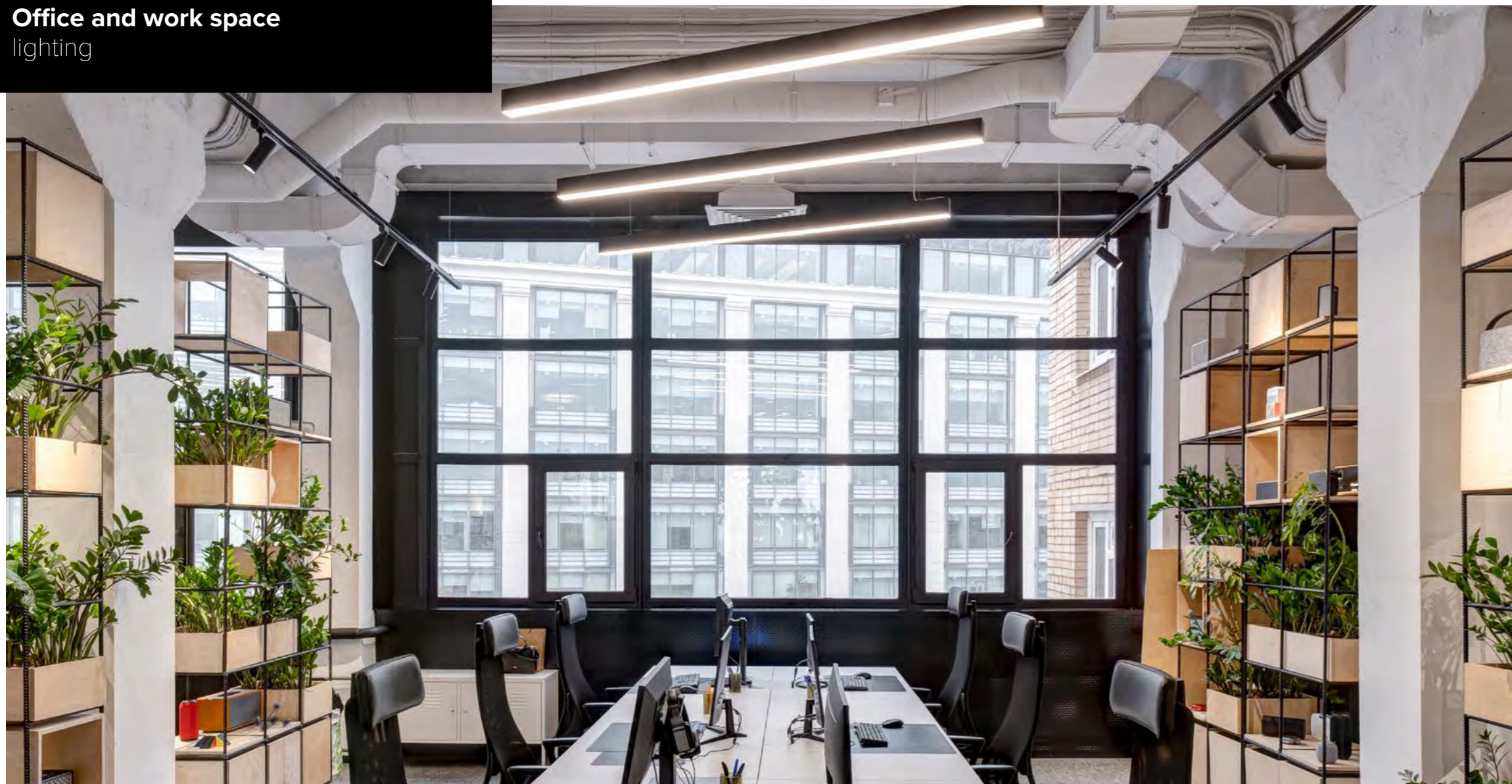
BARIS 52 LED

1900-9600 lm / 16-84 W / IP44

BARIS 52 LED

1900-9600 lm / 16-84 W / IP44

BARIS 40 LED

Design and excellent lighting parameters are the main characteristics of the BARIS 40 LED family of luminaires. The slim profile is available in three colours as standard and the highly aesthetic workmanship make these luminaires a perfect choice for the arrangement of representative rooms. Equipped with an opal diffuser or a louvre reducing the glare effect and, optionally, with DALI control, they will also work well in offices of modern A+ class buildings.

131 lm/W

SDCM ≤3

Lifetime (hours)
>116,000

BARIS 40 LED
1300-5900 lm / 16-50 W / IP20

BARIS 40 LED
1300-5900 lm / 16-50 W / IP20 or IP44

BARIS 40 LED WALL LAMP
1100-1700 lm / 15-16 W / IP44
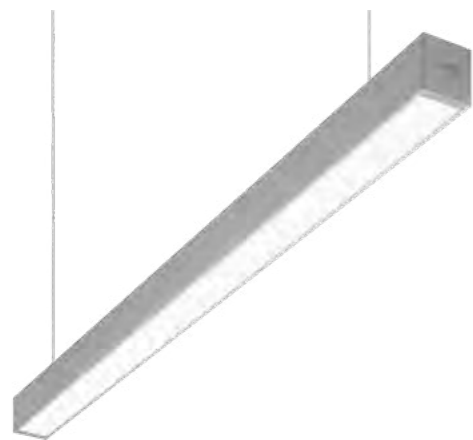
SMART LED EVO

2250-6430 lm / 20-52 W / IP20
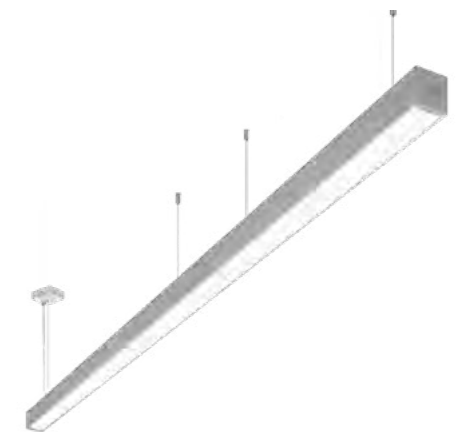
Up / down lighting

TUNABLE WHITE

SMART LED EVO

2250-5950 lm / 24-50 W / IP20

TUNABLE WHITE

SMART LED EVO SYSTEM

2250-5950 lm / 20-50 W / IP20

SMART LED EVO SYSTEM

2250-5950 lm / 20-50 W / IP20

Timeless minimalistic form

SQ / RQ 160 LED

RQ 160 LED is a new line of circular downlight luminaires. Despite their small size, they are characterised by luminous flux of up to 2,900 lm and high luminous efficiency of up to 131 lm/W. The variety of their light distribution (75°, 110° or 115°) allows for the appropriate selection of the light distribution angle. The luminaire can provide basic and complementary lighting in representative rooms, spacious corridors, office spaces and in small rooms.

SQ 160 LED is a new line of square downlight luminaires. Modern solutions ensure excellent lighting parameters – luminous flux up to 2,900 lm and luminous efficiency up to 131 lm/W. Modern design, minimalist size and low weight make those luminaires a great match for many types of rooms of different purpose and level of representativeness.
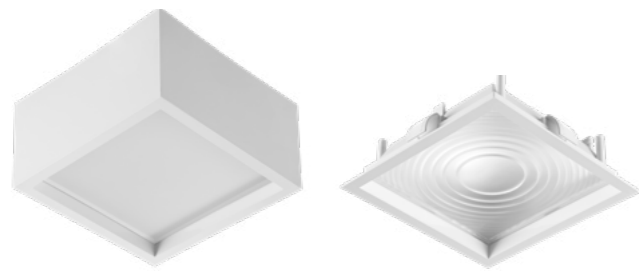
SQ 160 LED

400-2900 lm / 5-21 W / IP44/IP20 and IP33

RQ 160 LED

450-2900 lm / 5-21 W / IP44/IP20 and IP33

3
diffuser types

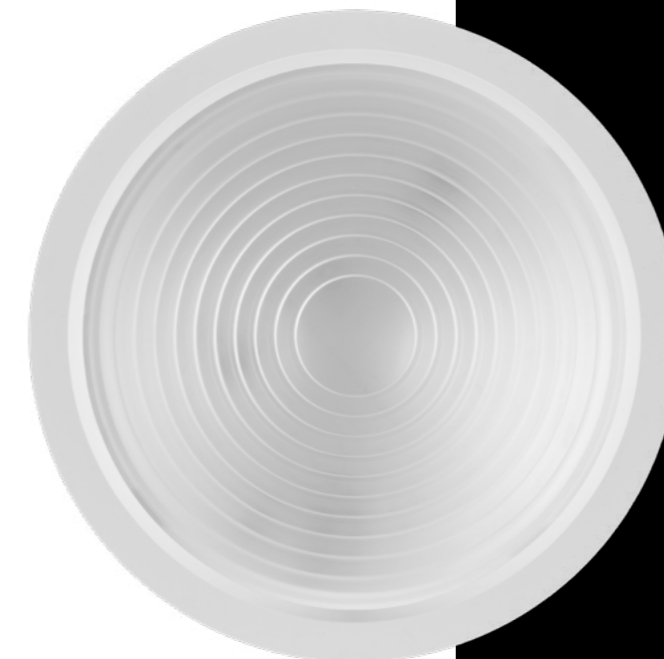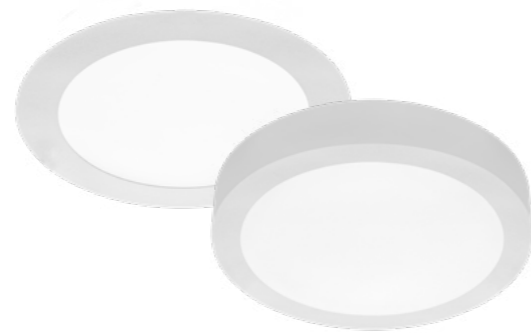## DL 220 LED EVO

410-3450 lm / 5-28 W / IP65/20

ROTAN LED

2850-3000 lm / 30 W / IP40

NECTRA LITE LED

1330-2450 lm / 14-25 W / IP44/IP20

DLN 220 LED EVO

1150-3250 lm / 10-28 W / IP65

Light that works for you

Industrial and warehouse
lighting
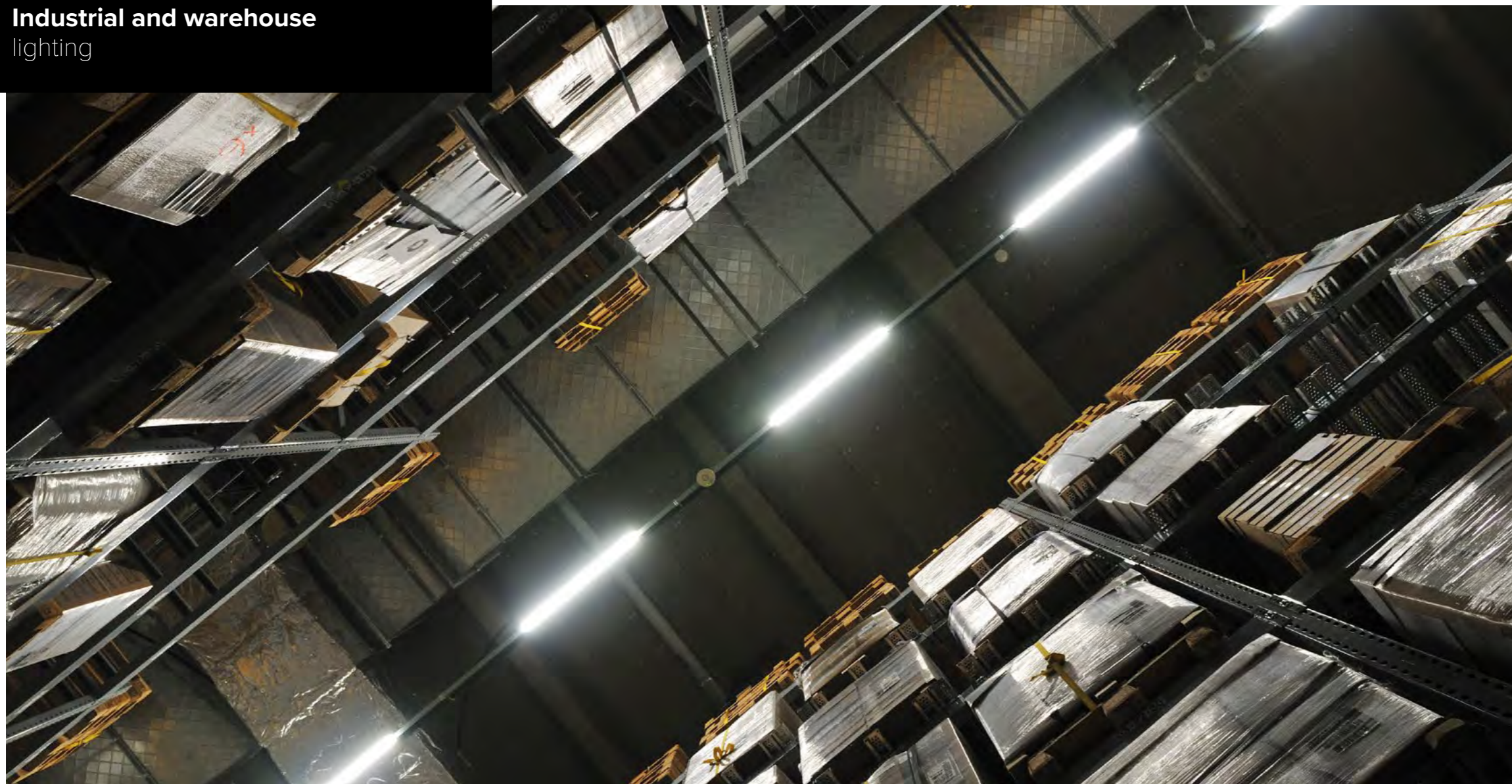
HACCP certified quality

TYTAN 2 LED

TYTAN 2 LED is an industrial luminaire dedicated to LED technology. It represents the NEXT GEN generation of luminaires, distinguished by extremely high luminous efficiency and characterised by the highest energy efficiency (A++) and excellent technical parameters.

The luminaire's heart is a highly efficient LED light module with a lifetime of over 100,000 h. TYTAN LED PRO is distinguished by exceptional, reaching 178 lm/W, efficiency on the market, and the A++ energy class. It emits light of high homogeneity (SDCM ≤3) and is characterised by IK09 mechanical impact resistance and IP67 ingress protection.

178 lm/W

SDCM **≤3**

Lifetime (hours)
>100,000

TYTAN LED PRO

2500-12000 / 13-70 W / IP67
Max. luminous flux 178 lm/W

TUNABLE
WHITE

TYTAN MULTI LED

2500-10900 lm / 13-59 W / IP67
Adjustment of power and luminous flux value

TYTAN 2 LED

2450-11300 lm / 16-69 W / IP66

TUNABLE
WHITE

TYTAN 2 LED HALL

8200-10400 lm / 58-72 W / IP66

Dedicated to high-bay warehouses

TYTAN 2 LED CHEMO

4450-11300 lm / 28-69 W / IP66

Luminaire resistant to ammonia, recommended for animal breeding

TYTAN 2 LED ENDURA

4750-11300 lm / 28-69 W / IP66

Operation in extreme ambient temperatures (-40℃ to +60℃)

TYTAN 2 LED 24-48V

2750 lm / 19 W / IP66

Low voltage luminaire

TYTAN 2 LED WORKPLACE

4550 lm / 28 W / IP44
Luminaire with a power cord

ATLAS LED

4400-7320 lm / 36-57 W / IP65

INDUSTRY IP40 LED

7600-17450 lm / 52-118 W / IP40

INDUSTRY 2 LED

6800-20200 lm / 45-134 W / IP23

INDUSTRY IP66

Meet demanding environmental conditions – this is the task which INDUSTRY IP66 LED luminaires have been designed to face.

This is a family of "heavy duty" luminaires. INDUSTRY IP66 LED luminaires are dedicated to rooms where, due to the working environment type, polycarbonate luminaires cannot be used. Body made of aluminium and diffuser made of tempered glass, resistant to UV radiation, ensure high resistance to operation in challenging working environments. Components by renowned manufacturers used in the luminaire ensure long-term and failure-free operation

The INDUSTRY IP66 LED family is especially recommended for use in medical and laboratory rooms as well as in industrial facilities.

163 lm/W

SDCM ≤3

Lifetime (hours)
100,000

INDUSTRY IP66 LED

2150-34000 lm/ 14-212 W / IP66
Aluminium profile and glass diffuser

INDUSTRY IP66 LED ENDURA

8900-10500 lm / 54-62 W / IP66
Operation at very high temperatures up to + 60°C

INDUSTRY IP66 LED MR

35900-51000 lm / 255-318 W / IP66
Powerful value of luminous flux

19
seconds

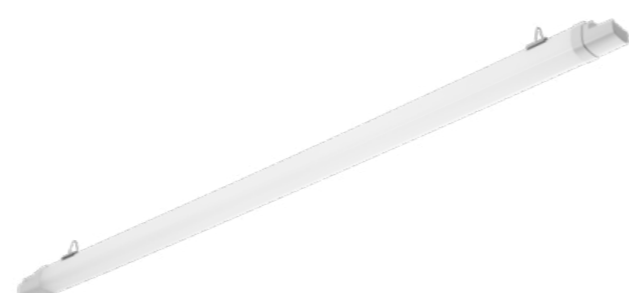## The fastest mounting on the market

MIMO 2 LED

MIMO 2 LED is an extremely light and ergonomic luminaire. Thanks to a very high level ingress protection (IP66), it can be successfully installed in areas with increased dustiness and humidity. It is characterised by simplicity of mounting. For both suspended and surface mounting, the stainless steel brackets, which can be adjusted (moved) along the entire length of the luminaire, enable their spacing, for example, to be adjusted to the existing mounting holes.

Connecting the power supply is tool-free and does not require opening the luminaire. You can simply insert the supply lines into the external electrical connector and they will automatically click into place.

Thanks to the through-wiring function, you can easily connect luminaires in series (up to 40). Some impressive distinguishing features of this luminaire are the high homogeneity of the CREE LEDs used (SDCM <3) and the extremely high luminous efficiency of over 150 lm/W.

350 grams
40 mm wide

SPECTO LED EVO

1350-3850 lm / 15-36 W / IP40

MIMO 2 LED

1900-5000 lm / 13-30 W / IP66

Convenient and quick connection of electrics
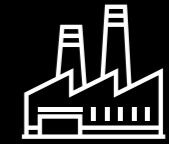
Industry in A++

QUEST 2 LED

QUEST 2 LED luminaires are characterised by high-quality components (drivers from recognised manufacturers and CREE LEDs) and high-quality materials used in their design. Another feature is their long durability up to 100,000 hours, high luminous efficiency up to 155 lm/W and a high degree of light uniformity SDCM ≤ 3.

Such high quality and parameter values are in turn a response to market expectations and requirements imposed on producers who want to be perceived as creators of new solutions and technologies. As a response to recent environmental trends, QUEST 2 LED luminaires are characterised by high energy efficiency A++, which helps reduce CO_2 emissions and allows savings of up to 65% compared to luminaires equipped with traditional light sources.
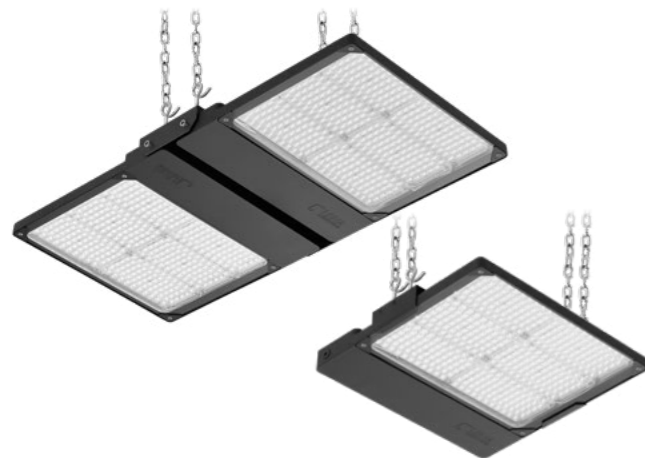
155 lm/W

SDCM **≤3**

Lifetime (hours)
>100,000

QUEST 2 LED HB

14000-69000 lm / 108-560W / IP66
ENDURA version: 14000-40200 lm / 108-290 W / IP66

QUEST 2 LED HB

14000-69000 lm / 108-560 W / IP66
ENDURA version: 14000-40200 lm / 108-290W / IP66

QUEST 2 LED

3600-34500 lm / 27-280W / IP66
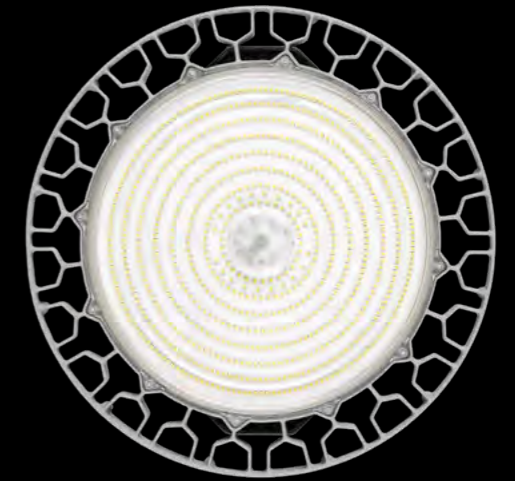
Inspired by nature

OCULUS LED

OCULUS LED is a HIGH-BAY luminaire. It is distinguished by a very high value of the luminous flux up to 35,850 lm. The design of the luminaire is inspired by the plant structure, and the materials used ensure excellent thermal 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 and the LED module.

OCULUS LED is a perfect solution for demanding production conditions with high humidity, dustiness or temperature reaching up to 60°C. The special version, OCULUS LED ENDURA, can be used in rooms where the ambient temperature reaches up to 75°C.

UGR **≤ 22**

OCULUS LED

12200-49200 lm / 72-294 W / IP66

OCULUS LED ENDURA

25600-28300 lm / 203 W / IP66

Operation in low or high ambient temperatures

OCULUS LED MINI

11400-23800 lm / 72-148 W / IP66

OCULUS LED P1

2500-47500 lm / 146-294 W / IP66

OCULUS LED P2

34650-49200 lm / 206-294 W / IP66

HULK 2 LED BASIC

13700-19300 lm / 119-162 W / IP66

MINI version: 13500-16400 lm / 137-151 W / IP66

Wherever you are

Real estate and public utility
lighting

DIONE LED

The luminaire features a number of proven solutions that affect the speed and simplicity of mounting (diffuser suspension system, readiness for through-wiring) and the safety of components: diffuser integrated with the LED module. DIONE LED PLUS is offered in many versions: RCR, DALI, CORRIDOR (RCR+DALI), with vandal-resistant protection and an emergency module.

Money-saving motion 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 modules.

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.

DIONE LED PLUS

1350-3700 lm / 13-30 W / IP65

Quick mounting thanks to suspended diffuser

DIONE LED PLUS ASYMMETRIC

2150-3200 lm / 21-32 W / IP65
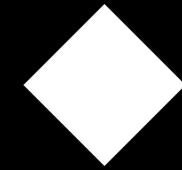
MULTI version: 2150-3200 lm / 21-32 W / IP65

Possibility to adjust power and luminous flux

DIONE LED PLUS MULTI

1650-2650 lm / 15-26 W / IP65

Adjustment of power and luminous flux value
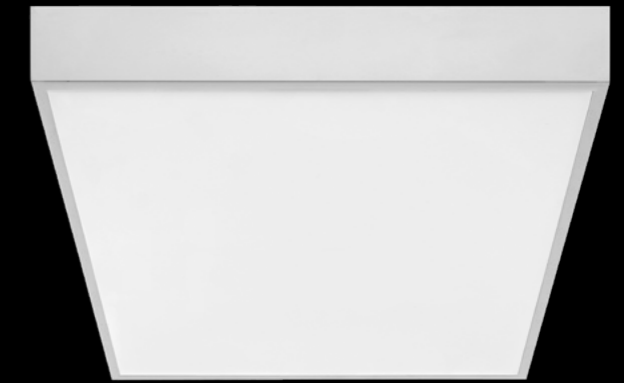
Bulkhead does not have to be round

300 LED PLUS LENS

A new line of square bulkheads. The designed-from-scratch construction introduces new solutions ensuring energy efficiency and excellent performance parameters.

The plastic body ensures low weight and high impact resistance (IK08). The diffuser made of polystyrene (PS) provides excellent lighting properties. A special lens system ensures uniform lighting and even illumination of the diffuser surface. The SQ 300 LED luminaire is available in versions with the RCR motion sensor, the Corridor function and DIMM DALI control.

The luminaire's great advantage is its ease of mounting and service. Due to the low weight and the diffuser's click-in system, the mounting of the luminaire is be carried out quickly, efficiently and tool-free.
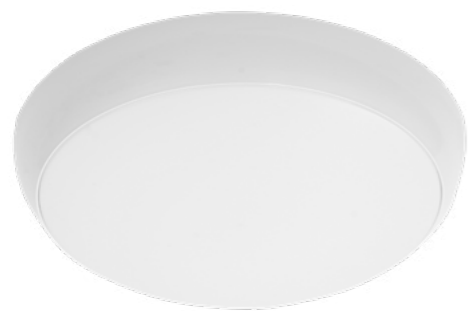
PROXIMA LED EVO PLUS

1450-3950 lm / 15-36 W / IP65/IP54

Indirect light effect

PHOBOS LED

3250-7400 lm / 28-60 W / IP20

Large diameter of the luminaire (500 mm)

SQ 300 LED PLUS

2100-2800 lm / 24-25 W / IP54

IoT

What else can a lamp do?

Thanks to compatibility with controllers by such companies as Hytronic or Casambi, CAPELLA luminaires can be combined into groups – you can also create light scenes, combine scenes into animations or set lighting intensity, adjust colour temperature, control the luminaire with
your voice, adjust lighting based on prior observations and measure parameters.

CAPELLA LED PLUS EDGE

950-2450 lm /11-26 W / IP54/IP65

CAPELLA LED PLUS

1040-1650 lm /11-15 W /IP54/IP65

CAPELLA LED PLUS EDGE RING

950-2450 lm / 11-26 W / IP54

IoT
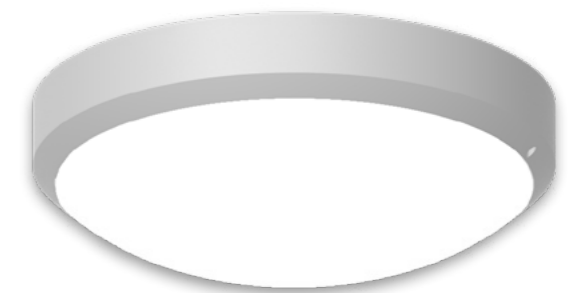
CAPELLA LED PLUS RING

1040-1650 lm / 11-15 W / IP54

Available versions: CAPELLA LED, CAPELLA LED VD, CAPELLA LED PLUS (suspended version)

DEIMOS LED PLUS

1400-3100 lm / 12-26 W / IP40

CAMEA LED EVO 2

770-1700 lm / 9-18 W / IP40

GAMMA LED

830-1600 lm / 10-14 W / IP54

CALLISTO LED EVO

960-1850 lm / 9-15 W / IP40

SQUARE LED BASIC

660-1490 lm / 7-13 W / IP54

Set of digits included, two size versions

PORTAL LED

280-440 lm / 6 W / IP54

Set of digits included, option: dusk sensor; 12-24 V

OVAL LED EVO

290-630 lm / 1.8-5 W / IP44

OVAL LED PRO

370 lm / 3.40 W / IP44

VESPO LED

Multi-purpose, surface-mounted LED luminaire designed for use inside buildings. It is especially recommended for lighting offices, utility rooms and corridors. The luminaire's heart is a highly efficient LED light module with a lifetime of up to 116,000 h. The luminaire is characterised by high energy efficiency (energy class A ++) and luminous efficiency of up to 144 lm/W.

Integrating the lighting module with the luminaire minimises the risk of accidental damage to the light source during transport, assembly or service of the luminaires. The ergonomically designed interior of the luminaire makes installation convenient

and easy, and the mounting and dismounting of the diffuser is tool-free. DALI, RCR versions and through-wiring are available to facilitate the creation of light lines.

144 lm/W

Lifetime (hours)
>1160,000

VESPO LED

2100-9800 lm / 17-71 W / IP44

VECTOR 3 LED

1950-6900 lm / 16-60 W / IP40
MULTI version: 1700-6900 lm / 13-59 W / IP40

COMPACT LED EVO 1200

2900-6800 lm / 25-58 W / IP20

TUNABLE
WHITE
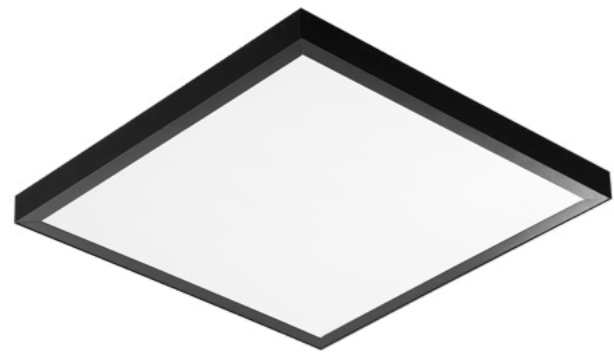
SQ 600 LED

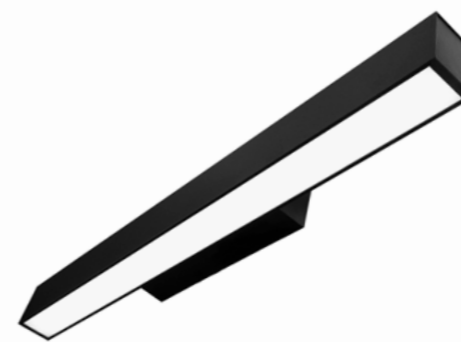2900-10900 lm / 29-73 W / IP20

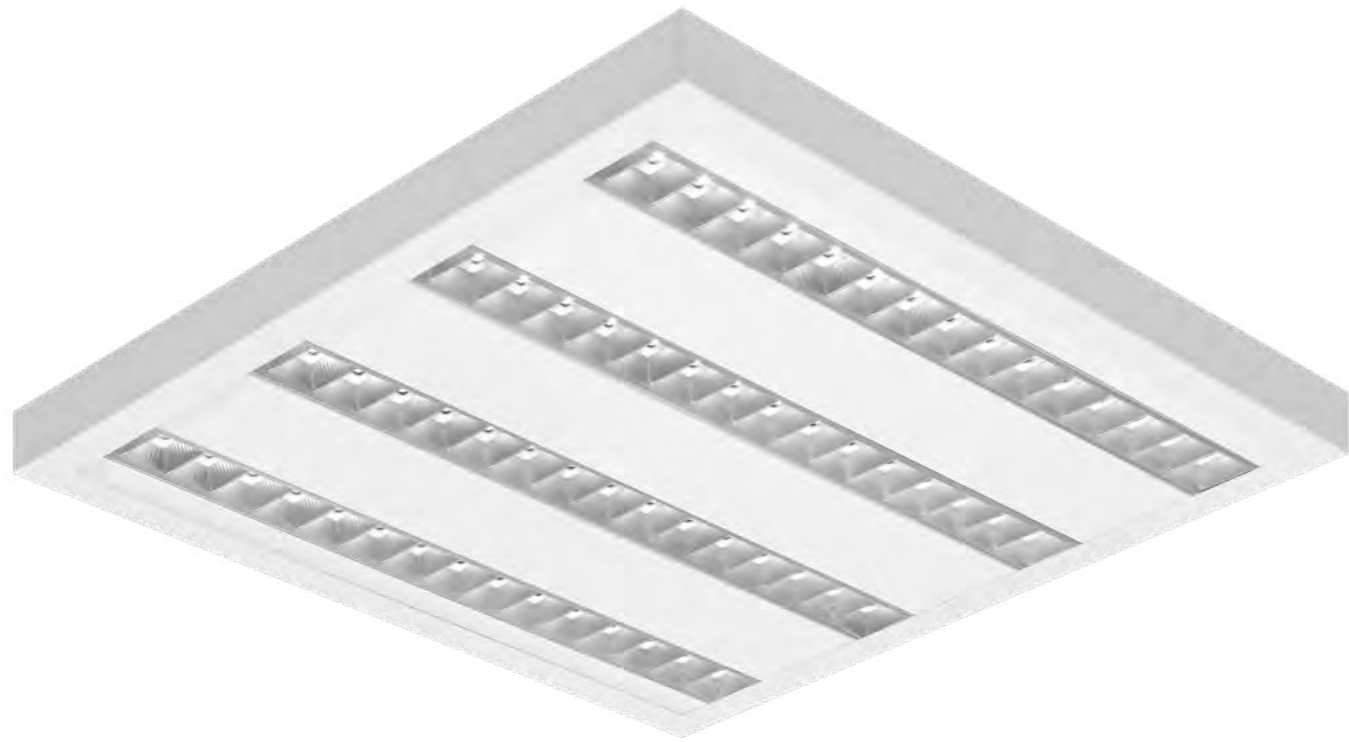### BARIS 52 LED

1900-9600 lm / 16-84 W / IP44

BARIS 40 LED WALL LAMP

1100-1700 lm / 15-16 W / IP44

BELMARE LED

2750-4800 lm / 40-56 W / IP20

Good light in healthcare

Lighting in
healthcare facilities

For the sake of all of us

In clinics, hospitals and other healthcare facilities – in addition to the excellent quality of medical equipment – lighting and its quality play an important role.

Lighting products used in such facilities are selected with special care to ensure excellent quality of light while meeting all required standards.

CRI (Ra) is an index that determines the degree of colour rendering. The higher its value, the more natural the colours. Ra> 90 provides comfort for the eyes and a greater ability to recognise colours and their shades. Luminaires with such a high index are used wherever you need the highest accuracy in colour reproduction (operating theatres, treatment rooms).

COMPACT LED HYGIENIC

Luminaire for surface and flush mounting for comfortable lighting. The material composition of the diffuser and the body has been enriched with silver ions (2%). Silver ions effectively block the development of pathogens on the luminaire surface and reduce their amount (>99%) over 24 hours of contact. The effectiveness of reducing pathogens is confirmed by the BIOMASTER certificate.

COMPACT LED HYGIENIC

2700-7450 lm / 25-65 W / IP20/IP65/IP44/20
Luminaire with silver ions

COMPACT LED EVO IP65

2750-8100 lm / 24-60 W / IP65/20
Very high ingress protection

COMPACT LED EVO 1200 IP65

2900-6600 lm / 25-58 W / IP65
Very high ingress protection

For the sake of all of us

Modern technologies support and increase the quality of health care. This is because their development contributes to the growing expectations of specialists and the demand for the better quality of medical equipment, as well as infrastructure, where lighting plays a substantial role.

Work specificity of doctors and medical staff requires them to work for many hours and at night. Irregular working hours, particularly night shifts, interfere with the natural circadian rhythm and cause sleep disturbances. According to the recommendations of medical communities, the type of lighting should be as close as possible to natural light, so that it matches the human circadian rhythm. This maximally supports concentration, when it is the most desired.

LABO LED

This luminaire with increased IP65 ingress protection is dedicated for indoor use in medical and laboratory rooms. It is available in two versions: with an opal diffuser or with a patented HE reflector (effectively reducing the glare effect) and a transparent beam stop. Depending on the version, it provides colour reproduction at the level of RA> 80 or Ra> 90.
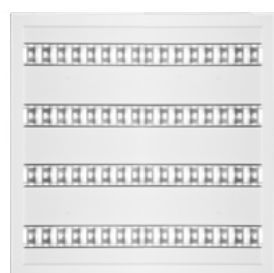
LABO LED 600x600

2850-10250 lm / 32-128 W / IP65
OPAL version available

LABO LED 1200x600

2850-10250 lm / 32-128 W /IP65
OPAL version available

LABO LED 1200x300

2850-4400 lm / 32-48 W / IP65
OPAL version available

VECTOR 3 LED

1950-6900 lm / 16-60 W / IP40
MULTI version: 1700-6900 lm / 13-59 W / IP40

DIONE LED PLUS

1350-3700 lm / 13-30 W / IP65
Quick mounting thanks to suspended diffuser

DL 220 LED EVO

410-3450 lm / 5-28 W / IP65/20

DLN 220 LED EVO

1150-3250 lm / 10-28 W / IP65

Display matters

Lighting in
retail

Light supporting sales

Lighting in retail has a huge impact not only on the well-being of shoppers, but also on sales volume. It should ensure proper display (for example, by selecting the appropriate colour temperature, colour rendering, appropriate light distribution) and attractive interior arrangement at the same time.

It should lead the customer, attract to specific places, shelves and products and encourage the purchase. The right choice of lighting will not only influence the behaviour and customer shopping habits, but also save money by reducing energy consumption.

EXPO LED 2

High-quality aluminium projectors with LED light source. They provide excellent spot and accent lighting. No emission of ultraviolet and infrared radiation, high colour rendering index (Ra> 80 and Ra> 90) and flicker-free instant ignition make it the best projector replacement for metal halide and halogen sources.

EXPO LED 2

1090-4350 lm / 10-37 W / IP20

EXPO LED 2 MINI

970-2320 lm / 10-20 W / IP20

SHOP SYSTEM T LED EVO

1860-4040 lm / 20-39 W / IP20

Linear lighting system

LINEA 2 LED

LINEA 2 LED is a modern luminaire, which can be easily connected to a lighting line with the use of through-wiring, creating a comprehensive lighting system characterised by high luminous efficiency.

The luminaire can be easily installed in almost any place – it is slim and its shape allows installation even in very narrow recesses. The offered light distribution range: 90°, 60° and 45° allows you to choose a version which will optimally illuminate a given surface.

INDUSTRY IP40 LED

7600-17450 lm / 52-118 W / IP40

INDUSTRY 2 LED

6800-20200 lm / 45-134 W / IP23

LINEA 2 LED

2200-22100 lm / 14-146 W / IP20
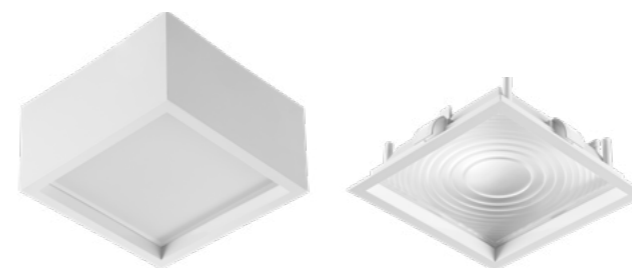
BARIS 40 LED

1300-5900 lm / 16-50 W / IP20 or IP44

Available colours: grey, white, black

BARIS 52 LED

1900-9600 lm / 16-84 W / IP44

SQ 160 LED

400-2900 lm / 5-21 W / IP44/IP20 and IP33

RQ 160 LED

450-2900 lm / 5-21 W / IP44/IP20 and IP33

Reach your destination safely

Street and road lighting

Safety on the road

When designing road luminaires and LED street lighting, in the production process, we strive to use the best, durable materials: aluminium and glass fibre. The low costs of maintaining road lighting result not only from their energy efficiency, but also from durability, which means that there is no need for frequent servicing or maintenance. Street luminaires provide both effective and eye-catching lighting, which is why they can illuminate even the most representative urban space.

ENEC certified quality

The TIARA LED family has obtained the ENEC quality mark for electrical products. This marking on the luminaire proves the highest quality and safety of the product and confirms that it meets the requirements of the relevant European EN standards.

Modern control system

CLUE CITY is a technologically advanced system that remotely manages and controls road luminaires. Optimises energy efficiency and monitors the status of each luminaire. More information on the next page.

TIARA LED

1900-27300 lm / 18-228 W / IP66

PRO version: 2900-19600 lm / 20-167 W / IP66

TIARA LED and TIARA LED PRO are the newest and most versatile items in the Lena Lighting range of road luminaires. Designed from scratch, they introduce new solutions that improve light distribution and temperature balance, thus marking out new standards in road lighting.

These luminaires can be used on motorways, expressways and express roads, as well as on national, municipal, local and residential roads. They can also be successfully used to illuminate pedestrian crossings, pavements and bicycle paths.

The body and bracket have been made of die-cast aluminium. All has been powder coated. The luminaire design allows for tool-free access to the electrical equipment compartment.

- Very high lighting efficiency up to 160 lm/W,
- very high degree of IP66 ingress protection and IK09 impact protection,
- compatible with the modern CLUE CITY control system (additional NEMA and ZHAGA connectors),
- a very wide range of light distribution, allowing the lighting to be tailored to the specificity of the place and the intended use,
- protection against luminaire overheating,
- surge protection of up to 10 kV,
- a fully programmable DALI driver with many additional functions,
- a cable gland preventing water vapour condensation in the luminaire coming as standard,
- RCR motion sensor available as option.

Light under control

Save and optimise with CLUE CITY

See how it works!
lenalighting.pl/cluecity-en

**CLUE CITY is a technologically advanced system that remotely manages and controls road luminaires. Optimises 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.

CLUE CITY enables:

- remote luminaire management,
- creating a luminaire working 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.
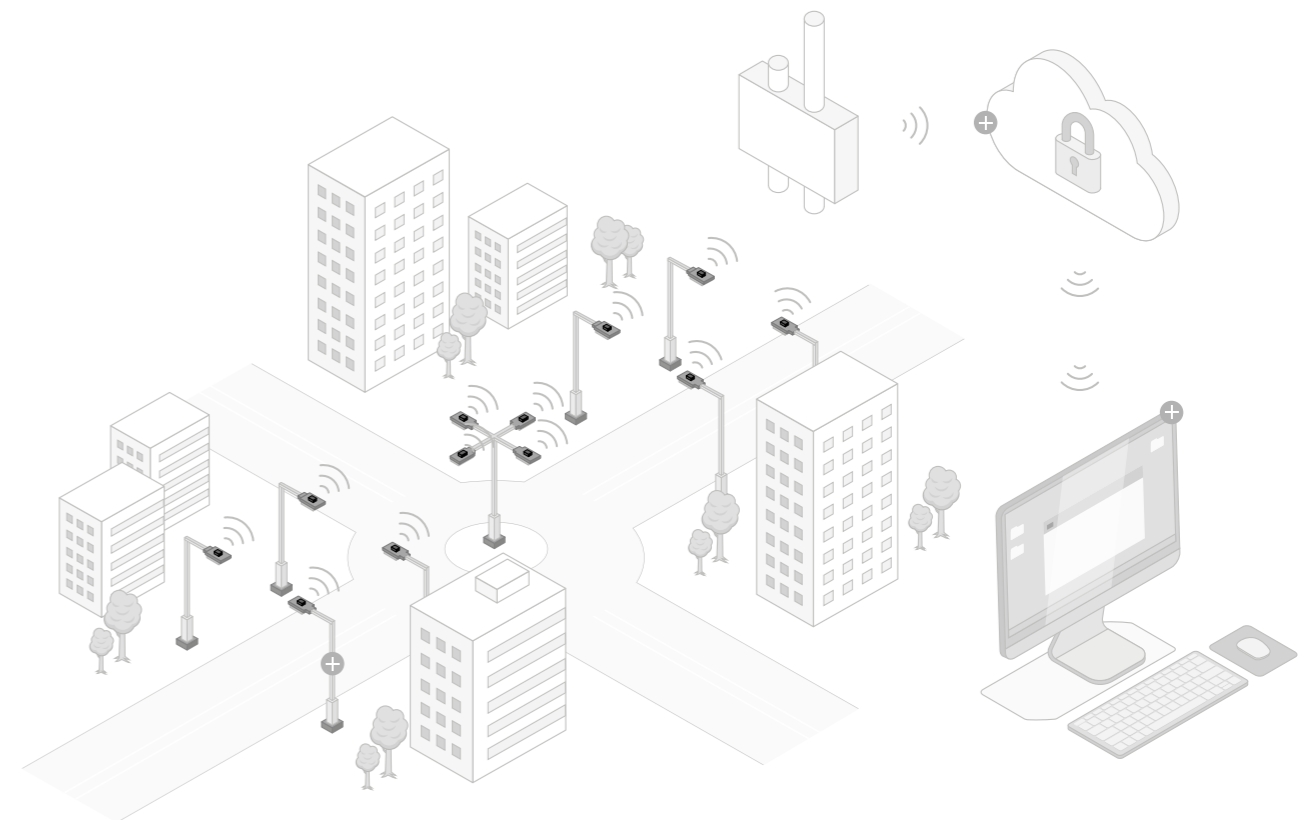
CLUE CITY operating diagram. Two-way communication and lighting management.

CORONA STREET LED EVO 2 is a multi-purpose road luminaire designed for various applications. A wide range of power and luminous flux values allows it to be used in various lighting environments. It is perfect for lighting both residential roads and main urban arteries.

ASTRA LED is a LED road luminaire with high lighting efficiency and an energy-saving, integrated LED panel. Smooth body made of polypropylene (PP) with glass fibre (FG) makes it easy to keep the luminaire clean. The luminaire features directional lenticular arrays (made of polycarbonate). Road luminaire for use in open areas to illuminate: streets, local roads, bicycle paths, alleys, pavements, parking lots and squares.

CORONA STREET LED EVO 2

2200-18550 lm / 18-155 W / IP66

PRO version: 2850-14750 lm / 20-110 W / IP66

- Flexibility in the selection of power and luminous flux,
- high luminous efficiency,
- solid body made of die-cast aluminium,
- diffuser made of tempered glass,
- very high degree of IP66 ingress protection and IK08 impact protection,
- 10 kV surge protection,
- long LED lifetime – 100,000 h L90B10.

ASTRA LED

2100-12800 lm / 17-103 W / IP66

- High lighting efficiency up to 151 lm/W,
- energy efficiency class A++ / A+,
- very high degree of IP66 ingress protection and IK08 impact protection,
- can be painted in any RAL colour,
- RCR motion sensor available as option,
- 10 kV surge protection,
- cable with a sealed quick-connector included as standard.

MITRA LED is a LED luminaire designed for lighting roads and squares, characterised by high luminous efficiency. It allows for designing lighting for parks and walking paths. It is also perfect for lighting pavements and bicycle paths.

Uniform body made of polypropylene (PP) with glass fibre (GF) guarantees a minimised risk of ingress protection loss. The bracket is made of aluminium, and the diffuser is made of polycarbonate (PC). The luminaire is available in 2 versions of light distribution: general G1 and road RM1.

Modern park luminaire characterised by a minimalist design of the aluminium body. Diffuser made of PMMA emits a pleasant, accenting light.

These luminaires are dedicated to illuminating streets, pavements, built-up areas, parks, squares and parking lots. Thanks to the use of lenticular arrays, they are available in 3 versions of light distribution.

MITRA LED

1550-7250 lm / 13-62 W / IP66

- two types of diffuser – opal and transparent,
- very high degree of IP66 ingress protection,
- IK07 mechanical impact protection,
- 10 kV surge protection,
- cable with a sealed quick-connector included,
- painting in any colour available as option.

Options available on request:

- power up to 76 W and luminous flux of 9,270 lm
- colour temperature of 3,000 K,
- IK10 impact resistance,
- 1-10 V DALI control,
- 76 mm long pole grip,
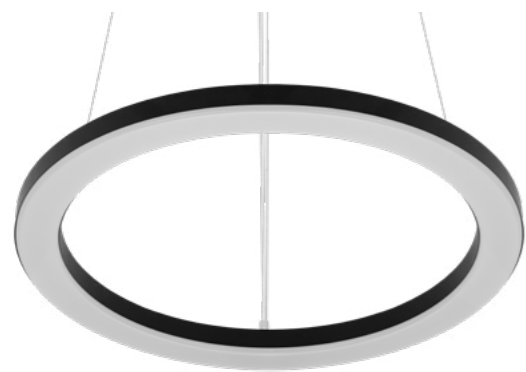- powder coating in selected colour available.

LEO PARK LED

3200-4600 lm / 30-40 W / IP65

Light which sets the tone

Architectural and brand
lighting

Design in lighting

Over the last few years we consequently developed the cooperation with designers in architects. Hence, architectural luminaires, characterised by high aesthetic values, which make them a perfect match for any interior environment, hold an important position in our portfolio.

We design modern luminaires that ensure optimal lighting of representative rooms, shopping malls, hotels and residences, while saving the energy at the same time.

SOLANTO

A very impressive suspended or surface-mounted luminaire, dedicated to interiors such as lobbies, receptions, shopping malls or showrooms. Smoothly fitting into the surroundings, it is also a perfect match for flats and apartments. The luminaire will be available in white or black as standard. The Multi versions will allow you to choose from 4 flux and power settings, which enhances versatility and functionality of the luminaire, while limiting the number of indices to the necessary minimum.

SOLANTO

3100-6100 lm / 38-53 W / IP20

MULTI version: 2500-6100 lm / 30-53 W / IP20
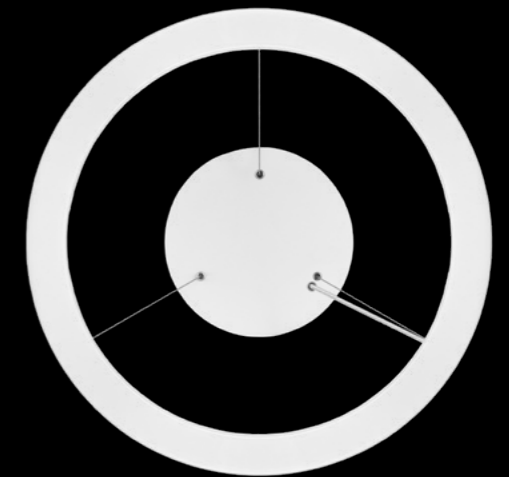
SOLANTO

3100-6100 lm / 38-53 W / IP20

MULTI version: 2500-6100 lm / 30-53 W / IP20

TRIPACT LED

2300-6000 lm / 24-60 W / IP40/IP20

⌜TUNABLE⌐
⌊WHITE⌐

CORPACT LED

2300-6000 lm / 24-60 W / IP40/IP20

⌜TUNABLE⌐
⌊WHITE⌐

SOLPACT LED

2300-6000 lm / 24-60 W / IP40/IP20

⌜TUNABLE⌐
⌊WHITE⌐

MADERA ALTUS LED EVO

4650-8700 lm / 50-88 W / IP41

ARTO LED

2550-5700 lm / 28-77 W / IP20

CORIA LED

1750-11050 lm / 22-100 W / IP44/20

SWING LED EVO

850-3000 lm / 8-29 W / IP40/IP20

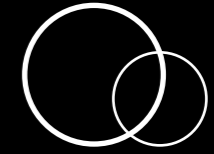### BARIS 52 LED

1900-9600 lm / 16-84 W / IP44

Up to 6 meters of light line without body joints

In search of symmetry

PIATTO LED and LUNGO LED ARE surface-mounted and suspended luminaires featuring a fancy but classic design The variety of sizes and consistent colours make it possible to equip the facility with luminaires that perfectly harmonise with each other and guarantee optimal lighting in various spaces of the same investment. This solution is dedicated to all facilities, in which harmonious and aesthetic interiors are a matter of desire.

PIATTO LED

The PIATTO LED family of luminaires is distinguished by an elegant design that will prove perfect in various arrangements. Decorative aluminium diffusers, available as standard in three fancy colour combinations, will emphasize the character of any interior, creating a distinct decorative accent. Surface and suspended mounting is possible.

PIATTO LED 610

2050-3200 lm / 28-45 W / IP20

PIATTO LED 340

520-560 lm / 9 W / IP20

LUNGO LED

825-860 lm / 10 W / IP20
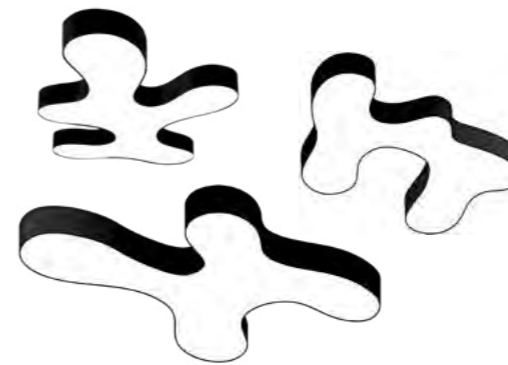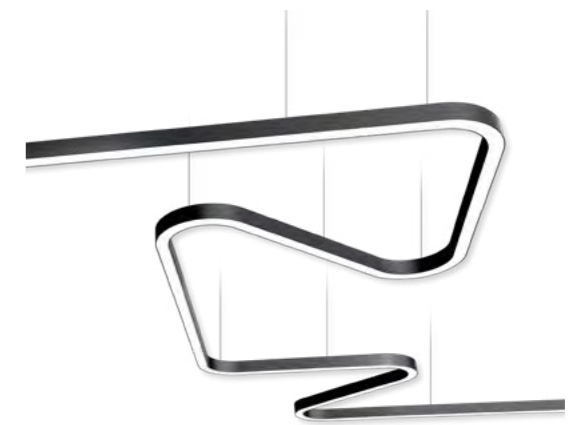
TUBE LED EVO 2

1350-4200 lm / 14-36 W / IP20

Star connection

CAPELLA LED PLUS

950-1650 lm / 11-15 W / IP20

PUZZLE LED

83-390 W / IP20

SNAKE

3000-4000K / Suspended and surface mounting

Endless arrangement possibilities

Endless possibilities

The architectural lighting offer includes both luminaires with a delicate shape and a slender profile, as well as those with great sizes, and even industrial shapes. Many of the proposals are not individual luminaires, but the entire families.

All this to make the offer complete enough, so that – depending on the type of room and the requirements set for it – the architect could find a product which, according to the concept, will blend in perfectly with the surroundings or, on the contrary, will stand out from it.

ELEGANTE LED

ELEGANTE LED is a complete solution for creating diverse light lines. It provides a combination of high lighting parameters and a modern decorative effect. The system of luminaires will prove perfect as discreet and effective basic, complementary and accent lighting.

25 metres
of a light line without joints

Surface mounting

Suspended mounting

Recessed flush mounting

Frameless flush mounting

Frame flush mounting

Combined suspended/surface mounting

ELEGANTE LED

Available versions:

•   18mm / 32mm / 50mm

Available options:

•   Installation: surface mounted, suspended, frameless flush mounted, frame flush mounted, recessed flush mounted, asymmetrical
•   Lighting versions: linear, point, projectors, light connector
•   Beam stops: OPAL, PRM
•   Luminous flux: 575-2750 lm/m
•   Controls: on/off, DALI, Corridor function
•   Low glare UGR <19 (option)
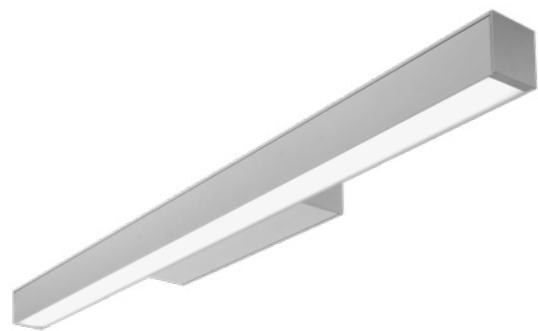
Accent lighting

All products from our architectural portfolio are not only energy-efficient and have excellent technical and functional parameters, but are also characterised by great aesthetics and uniqueness.

Architects and designers, having a whole spectrum of such lighting luminaires in various colours to choose from, have an open way to create sophisticated compositions that will not only illuminate a modernly arranged interior, but will also serve as elements of its decor.

BARIS LED WALL LAMP

The BARIS LED family is characterised by discreet elegance and energy efficiency. The optical system features an opal beam stop providing soft light. The unique design makes these lamps a perfect match for offices, conference rooms and other representative spaces.

SMART LED EVO WALL LAMP

850-4900 lm / 8-46 W / IP20

SMART LED EVO WALL LAMP

850-4900 lm / 8-46 W / IP20

BARIS LED WALL LAMP

1100-1700 lm / 15-16 W / IP44

Light that allows you to explore

Outdoor and accent
lighting

See what's beautiful

Unrestricted imagination allowing you to juggle the light gives great opportunities: to accentuate, highlight and showcase the architecture. The light, like a brush in a painter's hand, creates a completely new image where it was not there before, and which is revealed after dusk.

The architecture of light is like an endless story that begins at dusk and ends at dawn. No matter what you want to highlight, we know how to do it. The use of dedicated accent luminaires allows you to illuminate a given surface in accordance with the architect's artistic vision.

QUEST 2 LED

QUEST 2 LED luminaires allow for savings of up to 65% compared to luminaires equipped with traditional light sources. The A++ energy efficiency is accompanied by high quality of components (drivers from recognized manufacturers and CREE LEDs) and materials used in their construction, long lifetime of up to 100,000 h and high luminous efficacy of up to 155 lm/W.

QUEST 2 LED

3600-34500 lm / 27-280W / IP66

PILLAR LED

950-1540 lm / 10-16 W / IP65

Possibility of lighting in two directions

QUBE LED

1540-1865 lm / 18-24 W / IP65

ASTER LED

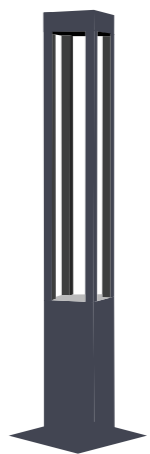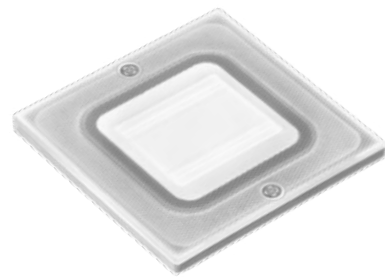450-600 lm / 8 W / IP65

ASTER LED E

12-36W / 1200-3600 lm / IP44

STAVANGER LED

260-460 lm / 7-15 W / IP65

SPACO LED

1500-3000 lm / 16-32 W / IP65

UP LED

450-600 lm / 8 W / IP65 or IP20
Flush and ground mounting

ASKER LED

300-500 lm / 8.6 W / IP65
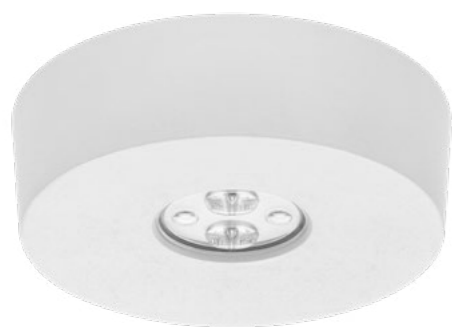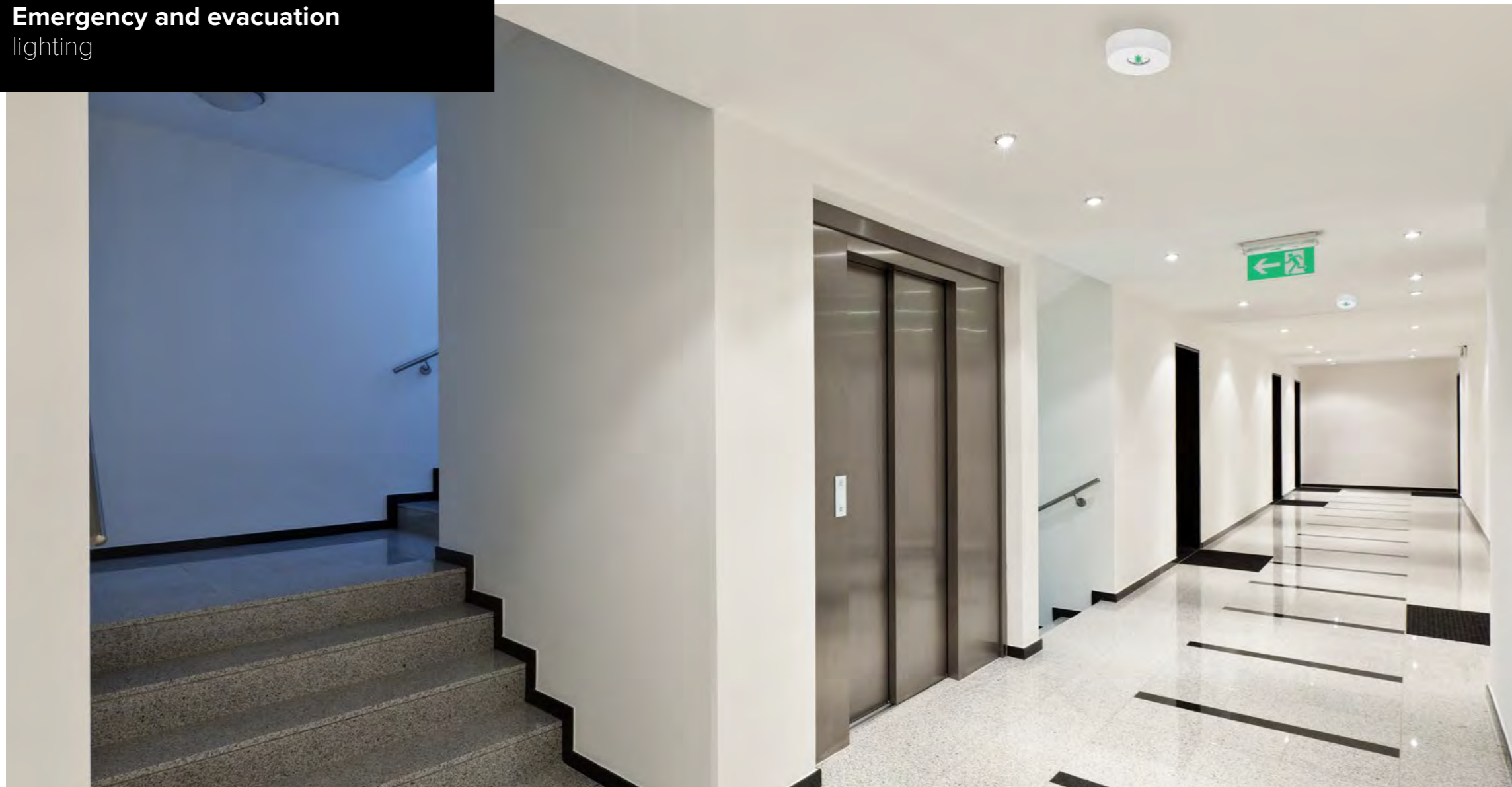
MODO LED

290-1500 lm / 6-18 W / IP67
Ground mounting

Safety is priority

Emergency and evacuation lighting

CNBOP certification

The quality of products used in fire protection is regulated by law. Their safety is confirmed by a certificate issued by the Scientific and Research Center for Fire Protection – National Research Institute (CNBOP – PIB) notified by the European Commission. The purpose of CNBOP – PIB is to promote entities providing high-quality services. The institute guarantees that the CNBOP certified products meet the highest quality and safety standards in fire protection.

DOT LED

Autonomous emergency luminaire with integrated, energy-saving LED light module. Its main task is the illumination of escape routes and fire protection devices after power failure, i.e. in emergency mode. The optical system is available in three variants: general, corridor, open space. The luminaire is available with batteries offering 1h, 2h or 3h emergency operation time.

DOT CS LED

130-260 lm / 1-2 W / IP65

DOT CR LED

130-260 lm / 1-2 W / IP65/20

LUMAX S LED

2W / IP40

Labels with pictograms available

For the sake of our health

Bactericidal and virucidal luminaires
UV-C

Systemic air disinfection in the presence of people

UV-C luminaires emitting ultraviolet light are one of the most effective devices capable of removing viruses, bacteria, mould from the surface or destroying the DNA or RNA of any exposed microorganisms. Airflow disinfection consists in UV-C irradiation of air flowing through the interior of the luminaire. Thanks to stimulated circulation, the air passes through the disinfection chamber, where it is exposed to the light and sterilised, and then pushed out into the room. The UV-C rays do not reach the outside, which makes this luminaire ideally suited for places occupied by many people.

UV-C STERILON AIR / AIR LIGHT

UV-C STERILON AIR and UV-C STERILON AIR LIGHT flow luminaires for air disinfection are dedicated for wall and ceiling mounting as an integrated part of the building infrastructure. The AIR version is also available as free-standing.

Depending on the variant, they are available with a power cord or direct connection to the mains supply, as well as with the ECO mode, which allows for quieter operation of the device. Regardless of the selected version, the luminaires are characterised by low weight, compact dimensions and very good disinfecting efficiency.

NEUTRALISATION

99.9%

of viruses, bacteria and mould.

UV-C STERILON AIR 72W/144W

Wall-mounted, ceiling-mounted and free-standing versions with or without a power cord.

- Airflow disinfection function
- Type of light: UV-C ultraviolet
- DC fan with ECO mode (quieter operation)
- Steel body, powder coated in white
- Endcap made of high-quality grey plastic
- Very low weight: about 4,5-7,6 kg
- Air flow: 160 m³/h (72 W) ; 220 m³/h (144 W); 110 m³/h (ECO mode)
- Dust filter
- Light source lifespan: 9000 h
- Maximum area (cubic capacity) of a room to be flow disinfected is approx. 90 m³ (72 W) ; 150 m³/h (144 W)
- UV-C wavelength: 253.7 nm
- Supply voltage: 220-240 V
- Class of protection against electric shock: I

- Ingress protection: IP20
- Version with a power cord (3 m) additionally equipped with an on-off switch
- The luminaires are equipped with an operating time counter used for indicating the consumption of UV-C fluorescent lamps.

Differences between the LIGHT version and the AIR version:
- Less air flow
- Smaller cubic capacity of the disinfected room
- No free-standing version
- Lower price

**Effective disinfection
of air and surface**

UV-C STERILON FLOW

The UV-C STERILON FLOW family of portable luminaires for air disinfection includes 72 W and 144 W luminaires. There is also the 72 W MONO version and 72 W and 144 W PREMIUM versions.

NEUTRALISATION

99.9%

of viruses, bacteria and mould.

Handy
&
lightweight

UV-C STERILON FLOW 72W/144W

- Airflow disinfection function
- Type of light: UV-C ultraviolet
- Gloss white body, galvanised silver front
- Air flow: 160 m³/h (72 W); 200 m³/h (144 W)
- Light source lifespan: 9000 h
- Supply voltage: 220-240 V
- UV-C wavelength: 253.7 nm
- Ingress protection: IP20
- Power cord: 3 m
- On/Off switch
- Accessories: guide wheels, wall mount bracket, UV-C glasses
- Luminaire versions with accessories:
  with protection against opening and operating time counter

Dimensions of all UV-C STERILON FLOW luminaires:

- 144 W version: 724 x 220 x 1600 (mm)
- 72 W version: 724 x 160 x 1600 (mm)

Differences between the PREMIUM version and the FLOW version:
- DC fan with ECO mode (quieter operation)
- The operation time meter used to indicate the consumption of UV-C fluorescent lamps

Differences between the MONO version and the FLOW version:
- Less air flow
- Smaller cubic capacity of the disinfected room
- No direct disinfection mode
- Different finish
- Lower price

PRODUKT Z ATESTEM

The most advanced air disinfection luminaire

UV-C STERILON HEPA

UV-C Sterilon Hepa is our newest and most technologically advanced air disinfection luminaire. It will work well in large rooms with cubic capacity of up to 300 m³ (approx. 100 m²), and in smaller ones, where the luminaire will operate more quietly at fan power set to minimum. The luminaire is equipped with an LCD control panel which allows for turning off the UV-C light, leaving only the fan active, plan a delay in switching the luminaire on or off, as well as checking the lifespan and efficiency of fluorescent lamps. The display screen shows messages about possible failures in the luminaire operation.

LCD panel and control buttons located at the rear panel of the luminaire.

UV-C STERILON HEPA 216W

- Airflow disinfection function
- Type of light: UV-C ultraviolet
- Colour: matt white body, galvanised silver front or matt black body, galvanised golden front
- Air flow adjustment: from 70 m³/h to 200 m³/h
- Recommended size of the disinfected room: from 25 m² (75 m³) to 100 m² (300 m³)
- HEPA H13 filter + carbon filter
- Light source lifespan: 9000 h
- UV-C wavelength: 253.7 nm
- Supply voltage: 220-240 V
- Class of protection against electric shock: I
- Ingress protection: IP20
- Power cord: 3 m
- On/Off switch
- LCD panel and control buttons
- Dimensions: 730 x 242 x 242 (mm)

Operating modes controllable from the LCD panel:

- "UVC ON-OFF" mode with fan power step adjustment: 25%, 50%, 75%, 100%
- "Fan without UVC" mode with fan power step adjustment: 25%, 50%, 75%, 100%
- "Delay ON" mode with the option to activate disinfection after the time set by the user (every 15 min; max. 24h)
- "Delay OFF" mode with the option to stop disinfection after the time set by the user (every 15 min; max. 24h)
- "System info" – checking the service life of fluorescent lamps

NEUTRALISATION
99.9%
of viruses, bacteria and mould.

Bactericidal and virucidal
luminaires

UV-C STERILON AIR Z1

The Z1 series luminaires retain the airflow disinfection function featured by the basic version of the UV-C STERILON AIR luminaire. Thanks to the integrated movable base fitted as standard, the luminaire is easy to move.

UV-C STERILON AIR LIGHT Z4

The Z4 series flow luminaires are a set of four 72 W or 144 W disinfection luminaires integrated with a stand with guide wheels. They are intended primarily for disinfecting the air in large rooms up to 250 m³.

UV-C STERILON CAR

Luminaires intended to be installed inside public transport means, such as buses, coaches, trains, trams, buses and taxis. Two versions available – connected to 230 V and to 12 V power supply.

# Innovation + ecology

Lighting control systems

CLUE IN

Possibility to control luminaires inside buildings gives great opportunities to achieve above-average savings in electricity consumption, and allows you to achieve maximum comfort for the users. The Clue In system is a solution taking into account both of these aspects. Using a number of intelligent motion, occupancy and light sensors and equipping the luminaires with the latest technological solutions, makes it possible to implement the most demanding light scenes for a prestigious office or an industrial production hall, while ensuring competitive energy efficiency.

CLUE CITY

Dedicated control system enabling full control over the light on city streets, parks and parking lots. Each luminaire is equipped with a universal driver operating via a standardised ZHAGA or NEMA connection. The managing administrator makes use of a special web interface and a mobile application that enables efficient management of the installation. The functionality of the system allows to monitor the parameters of individual luminaires, such as operation time, LED consumption, power consumption or driver temperature. The system reports to the administrator about detected errors and failures, which helps accelerate any required repairs or maintenance works.
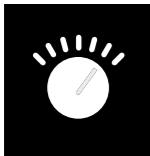
DALI / DALI 2

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.
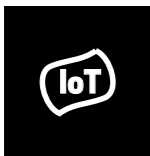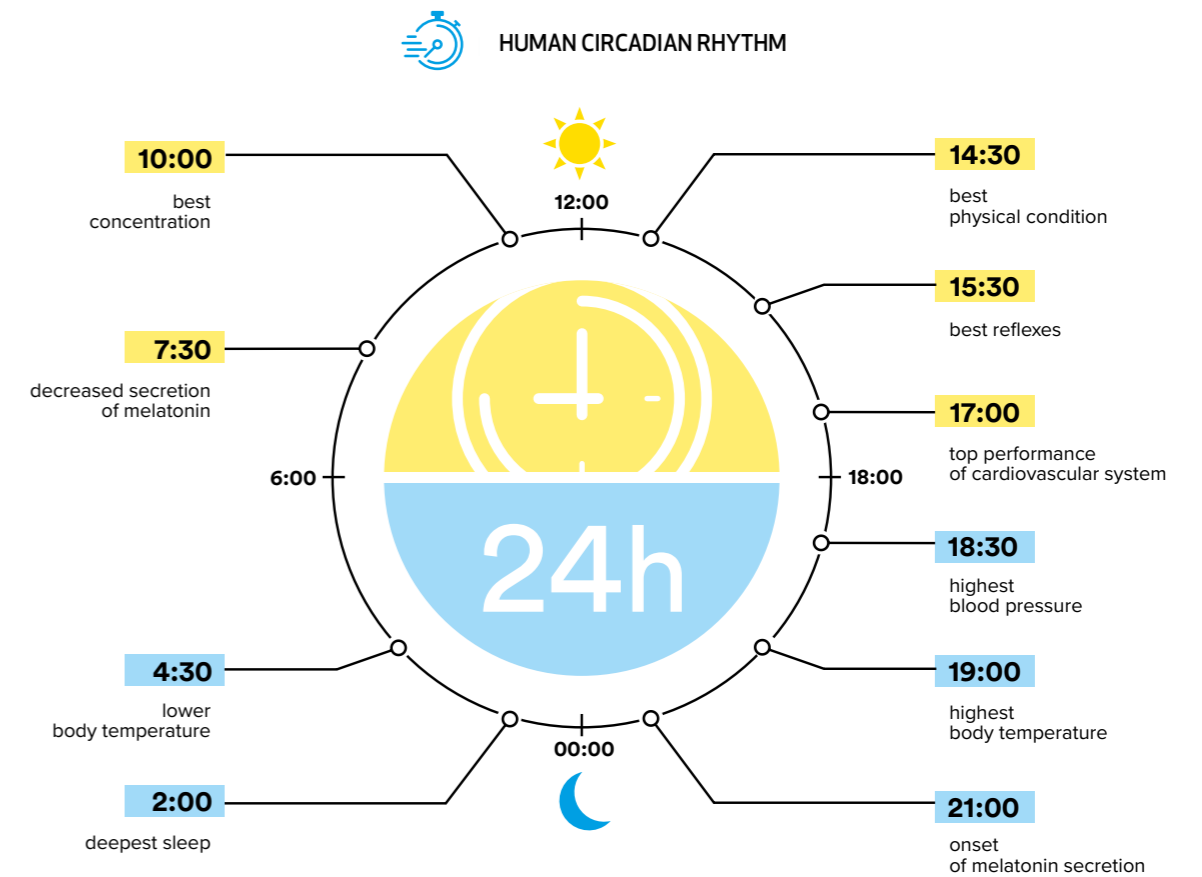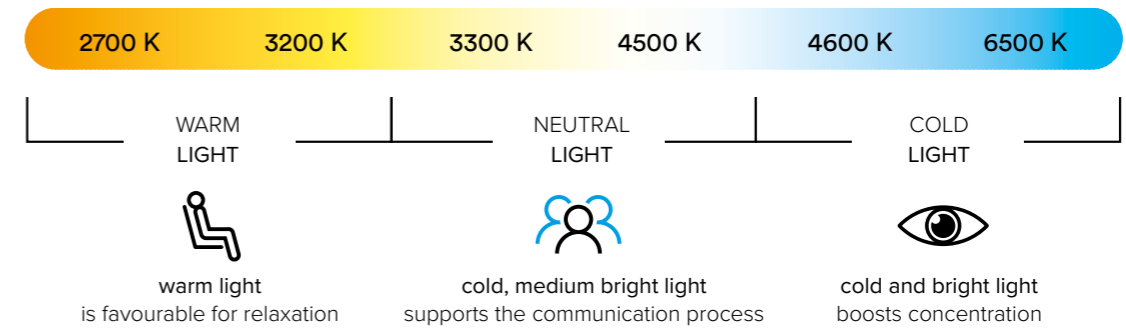
IoT

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.

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.

2700 K	3200 K	3300 K	4500 K	4600 K	6500 K

WARM LIGHT	NEUTRAL LIGHT	COLD LIGHT
warm light is favourable for relaxation	cold, medium bright light supports the communication process	cold and bright light boosts concentration

HUMAN CIRCADIAN RHYTHM

10:00 best concentration

12:00

14:30 best physical condition

15:30 best reflexes

7:30 decreased secretion of melatonin

17:00 top performance of cardiovascular system

6:00

18:00

18:30 highest blood pressure

4:30 lower body temperature

19:00 highest body temperature

00:00

2:00 deepest sleep

21:00 onset of melatonin secretion

24h

LIGHTING CONTROL 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.

DIM 1-10V CONTROL

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.

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.

PIR – PASSIVE INFRARED 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 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.

RCR – RADIO MOTION 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.

**World class technology
straight from Poland**

Our products can be found wherever
the highest quality of lighting is required.

Lena Lighting S.A. cooperates with long-
term partners being the world's leading
manufacturers of electrical components,
who, in addition to providing us with their
own solutions, also implement individual
projects set out by our engineers from the
Research and Development Department.

We constantly improve our know-how by
implementing the latest global solutions in
LED technology and technical solutions in
the field of lighting.
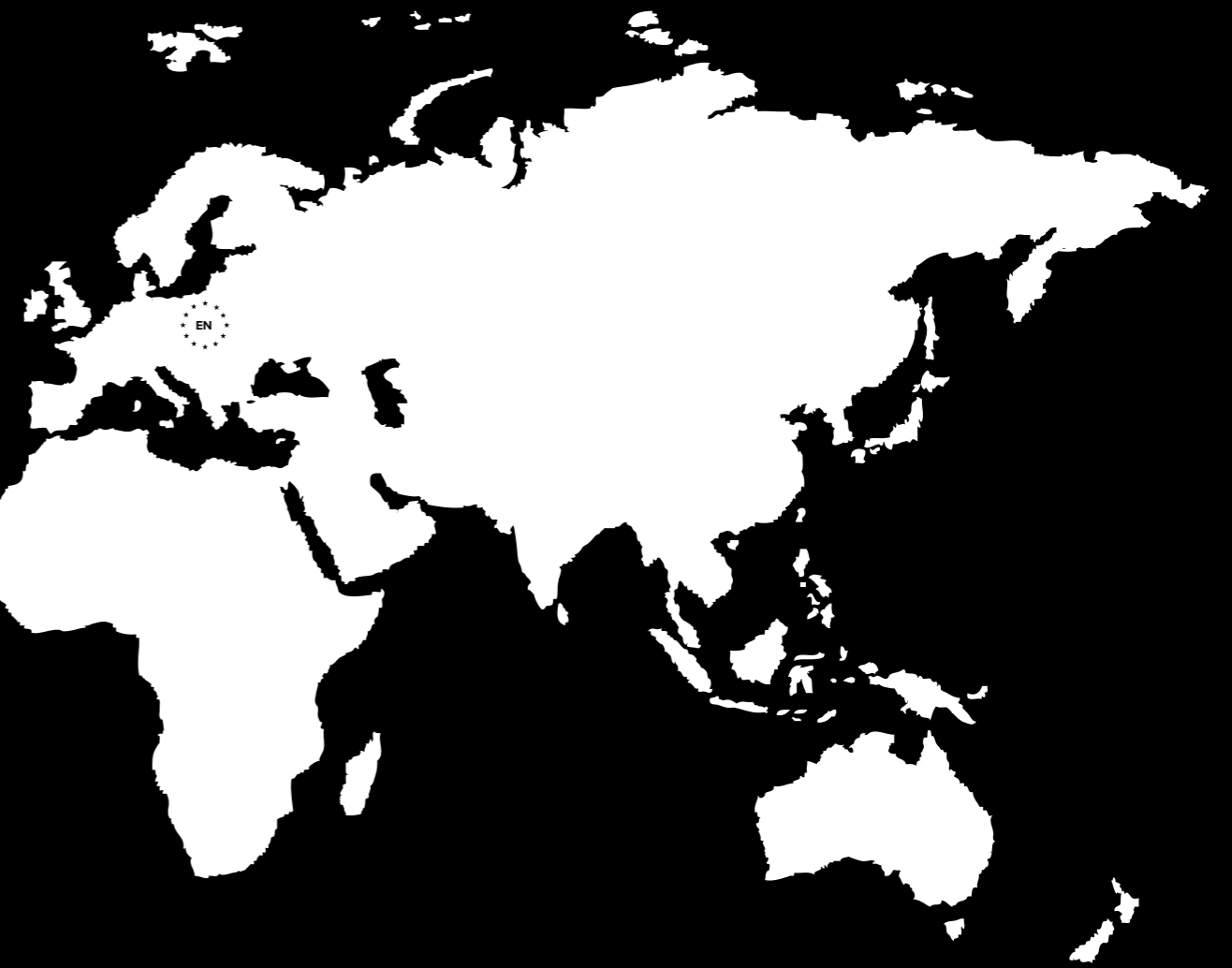
70

Present on nearly 70 markets,
we are recognised by our partners.
We are a global lighting supplier.

We produce according to the highest environmental standards.

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.

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