Streetlight 11
The luminaire of the future

Towns and cities can use modern street lighting to make a valuable contribution to their energy efficiency, sustainability, safety and fitness for the future.

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Everyone's talking about smart cities. Streetlight 11 makes them possible.

Modern design with outstanding light, efficient performance and reliable operation. Easy handling, minimal maintenance, intelligent control. This is all you should expect from a street luminaire—a future-proof lighting concept based on state-of-the-art technology, and ready to meet all the requirements of today's modern cities as well as the smart cities of tomorrow.

Streetlight 11 mini

Streetlight 11 micro

Technology in its most attractive form—the award-winning design of Streetlight 11, featuring concise lines and a timeless elegance.

The Streetlight 11 from SITECO—future-proof light for streets and roads, parking lots and outdoor areas in industry. Here, state-of-the-art LED technology, innovative lighting technology and trend-setting design combine to create a sustainable luminaire concept—modular, cost-conscious, energy-saving and always ready for even more.
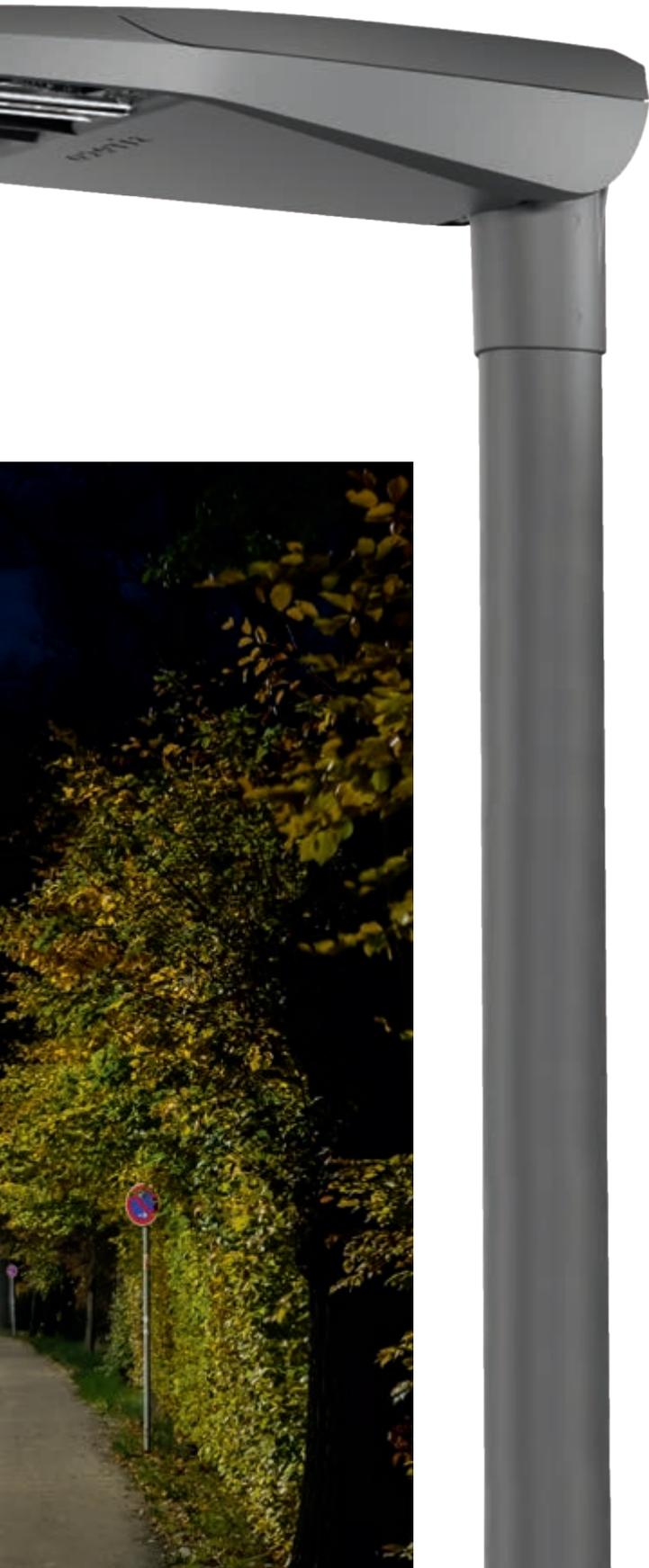
Streetlight 11 midi

At a glance

- rapid payback due to high energy savings
- optimum visibility thanks to outstanding lighting technology
- sustainable due to reduction of CO_2 and modular concept
- future-proof thanks to upgrade option on future LED generations
- intelligent control with optional interface compliant to Zhaga standard (SITECO Smart Interface)

The future starts now

Modern and future-safe outdoor lighting thanks to a highly flexible luminaire concept
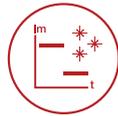
The Streetlight 11 concept is completely focused on efficiency and low energy consumption. This is ensured by state-of-the-art LED technology and high-precision reflector technology in combination with durable components. And to keep it that way in the future, Streetlight 11 can be upgraded and expanded with sensors and controllers for highly diverse Smart City applications. For maximum longevity and performance, the luminaire also features a new method of constant luminous flux control (CLO 2.0): The luminaires themselves control their operating parameters in accordance with service life, temperature and weather conditions. If components such as the LED module or ECG are exchanged, automatic data exchange with the new component is implemented. This makes any manual reconfiguration superfluous.

High light output
High quality LED light with multifaceted reflector technology and luminaire system efficiency of up to 143 lm/W: Saves around 80 % in energy and achieves maximum lighting comfort with low glare and high durability (> L90/B10, 100,000 h)
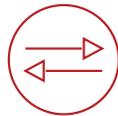
Sensory
Patented Siteco constant luminous flux control (CLO 2.0) prevents excessive illuminance and energy waste: Luminous flux adjustment is implemented with Plus-design luminaires in accordance with operating and ambient conditions (dimming settings, ambient temperature, weather etc.)

Tool-free
Patented, tool-free fixing and inclination system for aligning the luminaire and for tool-free replacement of the gear tray and LED module—ideal for subsequent technical upgrades

Up to date
Automatic exchange of efficiency and operating data for simple module changes without manually readjusting or pre-programming the luminous flux parameters—independent of the module type and module generation

Smart
Pioneering control concept also for the subsequent integration of telemanagement systems due to optional SITECO Smart Interface compliant to Zhaga standard

Sustainable
Durability owing to high-quality materials such as die-cast aluminum housing. Sustainability thanks to simplified spare part management and environmentally-friendly disposal concept

Simply convincing—in every situation

Custom configurations for maximum use in the city

The Streetlight 11 range is a powerful and flexible solution for almost all applications in technical outdoor lighting—in the city as well as for parking lots and the outdoor areas of companies and industrial plants.

Thanks to three different sizes with a uniform modular concept and design vocabulary, Streetlight 11 sets standards for application-oriented project implementation and enables the uniform technical illumination of streets, districts and entire communities with just one range of luminaires.

Streetlight 11 mini

- Mounting heights: 4 to 8 m
- Light color: 3000 K, 4000 K
- Variants from 2230 lm to 8280 lm

Streetlight 11 micro

- Mounting heights: 3 to 6 m
- Light color: 3000 K, 4000 K
- Variants from 1200 lm to 3200 lm

12 m

9 m

6 m

3 m

Streetlight 11 midi

- Mounting heights: 6 to 12 m
- Light color: 3000 K, 4000 K
- Variants from 7420 lm to 18,630 lm

12 m

9 m

6 m

3 m

Streetlight 11

A luminaire family in three sizes, an attractive design and modular technology

With state-of-the-art technology, a variety of construction sizes and a modular approach, Streetlight 11 is a high-performance and flexible solution for outdoor lighting. In addition, all luminaires feature a modern design vocabulary, high-quality materials and perfect workmanship. This simplifies management of spare parts. Thanks to its environmentally-friendly disposal concept, Streetlight 11 boasts an impressive ecological footprint throughout the entire product life cycle. The luminaire comes in three construction sizes, six housing colors, six optics, two color temperatures and a range of control options.

Several versions for different control options. Intelligent dimming options and functions such as the new **patented constant luminous flux adjustment** (CLO 2.0)

Tool-free replacement of the ECG gear tray

Integrated ESD protection for wood, concrete and plastic masts

Environmentally-friendly luminaire concept: screw-free and adhesive-free for an intelligent and sustainable disposal concept

With air-permeable membrane for pressure compensation and high impermeability thanks to replaceable seals

Mast flanges for 42, 60 and 76 mm for post-top and side-entry mounting (-15°... +15°) with **tool-free adjustment and fixing to the housing**

The light distribution can be adapted to suit various street widths by adjusting the angle of inclination

Optional interface for installation of smart city applications such as the smart parking solution

Cover can be **opened without using tools:**
quick and easy maintenance

Simple retrofitting with control components
and sensors thanks to optional interfaces

Outstanding thermal management
with elegant design **and with no cooling fins**

Drip rim on the housing prevents
soiling of the luminaire glass

Plug connection between the ECG and LED module,
component replacement without ESD hazard

Durable die-cast aluminum housing (IP66) with high impact
resistance (IK09), powder-coated DB702S, optionally with double
paint coating for increased corrosion protection

The innovative LED module

Capsuled and ready to plug in for maximum convenience

Streetlight 11 is future-proof thanks to its modular concept of housing, ECG, interfaces and LED module.
The luminaire combines technical flexibility with precise light control, optimum efficiency and outstanding quality of light.
The result: highly uniform, glare-free illumination with maximum visual comfort and luminous efficacy improved even
further thanks to a special silver coating of the reflector facets.

Robust PMMA cover: in a special design for **maximum mast spacing,** high impact resistance (up to IK10) as well as permanent **transparency**

Light control with HD-R reflector technology via faceted reflector and double convex cover—providing outstanding glare reduction and very high uniformity levels

LED is available in **two different light colors** (3000 K, 4000 K)

Luminaire equipped with **thermal protection** to prevent premature failure of the luminaire in extreme situations

Compliance with **Dark-Sky guidelines:** 0 % light pollution at 0° inclination

Efficient LED module: simplified construction concept for **optimum heat dissipation.** Long lifespan up to 100,000 hours (> L90 / B10)

Tool-free replacement of the LED module without ESD hazard

Duplicate dataset: driver and LED module contain all parameterizations, operating and lifespan data. This information is transferred automatically to new components by means of intelligent data exchange during maintenance and refurbishment.
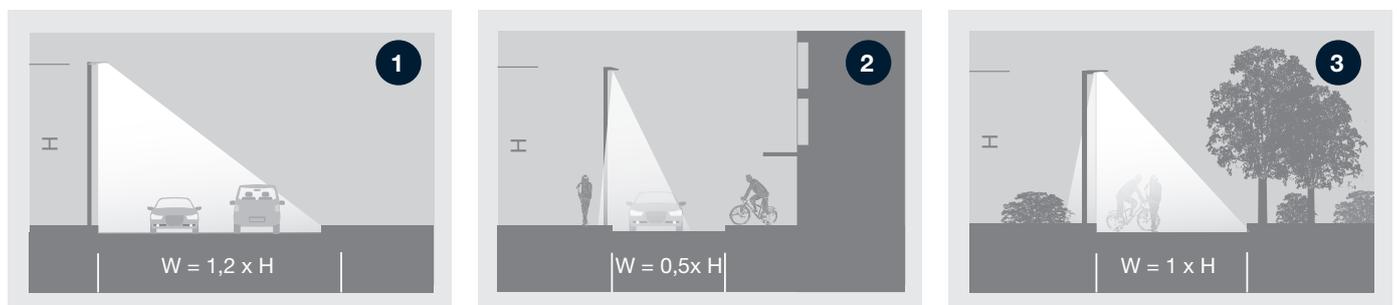
Streetlight 11 at a glance

Streetlight 11 range product matrix

Streetlight 11 micro

Applications:
- Collection roads
- Cycle paths
- Plazas

Lumen packages
1200 to 3200 lm
Mounting heights
3 to 6 m
Service life
> LB90 / B10 after 100,000 h

Light distribution
(diagram below)

1 **2** **3**

Streetlight 11 mini

Applications:
- Collection roads
- Cycle paths
- Plazas

Lumen packages
2230 to 8280 lm
Mounting heights
4 to 8 m
Service life
> LB90 / B10 after 100,000 h

Light distribution
(diagram below)

1 **2** **3** **4** **5** **6**

Streetlight 11 midi

Applications:
- Main roads
- Collection roads
- Plazas

Lumen packages
7420 to 18,630 lm
Mounting heights
6 to 12 m
Service life
> LB90 / B10 after 100,000 h

Light distribution
(diagram below)

1 **2** **4** **5** **6**

Light distribution

1 W = 1,2 x H

2 W = 0,5x H

3 W = 1 x H

ST1.2a – For normal and wide streets

ST0.5a – For narrow streets

P1.0a – For small paths, streets and cycle paths

Optic concept
HD faceted reflector with
PMMA cover
Inclination possibilities
± (0° / 5° / 10° / 15°)
Mounting
Post-top / side entry
Ø 60 / 76 mm (post-top)
Ø 42 / 60 mm (side-entry)

Protection rating
IP66
Insulation class
II
Impact resistance
IK09 (housing)
IK09 (PMMA cover)

Light colors
3000 / 4000 K
Color rendering
CRI > 70 / 80
Luminaire luminous efficacy
up to 128 lm/W
Luminous intensity class
G3 / G4 / G6 with accessories

Optic concept
HD faceted reflector with
PMMA cover
Inclination possibilities
± (0° / 5° / 10° / 15°)
Mounting
Post-top / side entry
Ø 60 / 76 mm (post-top)
Ø 42 / 60 mm (side-entry)

Protection rating
IP66
Insulation class
II
Impact resistance
IK09 (housing)
IK10 (PMMA cover)

Light colors
3000 / 4000 K
Color rendering
CRI > 70 / 80
Luminaire luminous efficacy
up to 140 lm/W
Luminous intensity class
G3 / G4 / G6 with accessories

Optic concept
HD faceted reflector with
PMMA cover
Inclination possibilities
± (0° / 5° / 10° / 15°)
Mounting
Post-top / side entry
Ø 60 / 76 mm (post-top)
Ø 60 mm (side-entry)

Protection rating
IP66
Insulation class
II
Impact resistance
IK09 (housing)
IK10 (PMMA cover)

Light colors
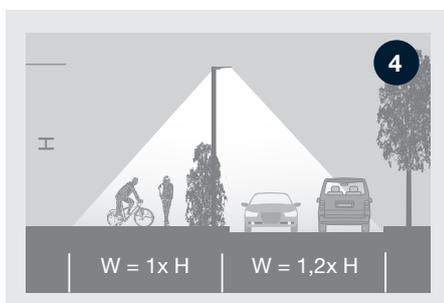3000 / 4000 K
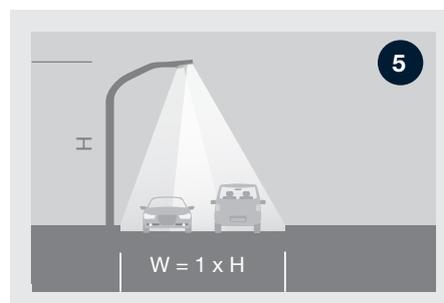**Color rendering**
CRI > 70 / 80
Luminaire luminous efficacy
up to 144 lm/W
Luminous intensity class
G3 / G4 / G6 with accessories

ST1.2P1.0 – For normal and wide roads with rearward way
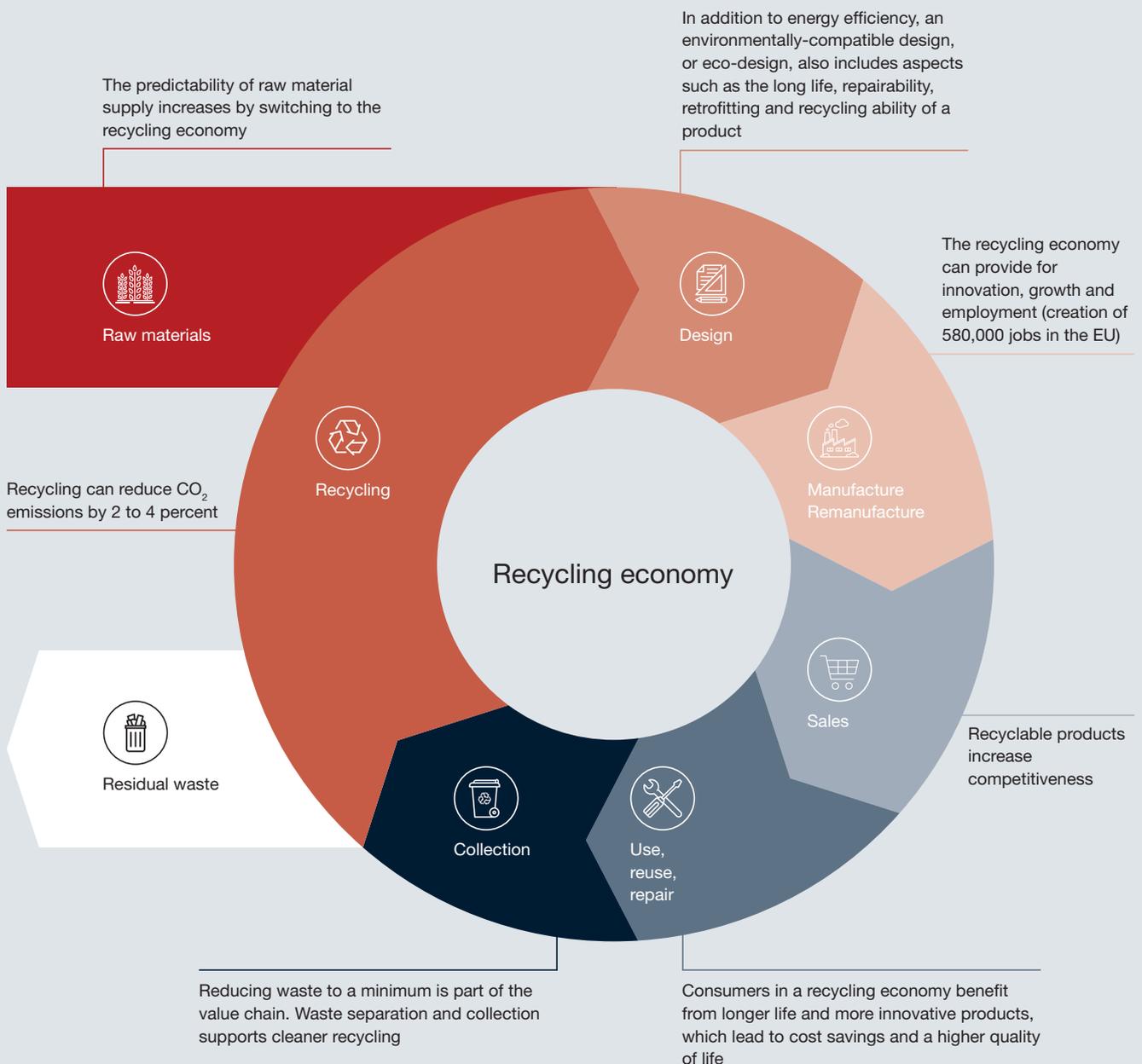
ST0.5ST0.5 – For normal streets with curved bracket masts

PC-L/R – For pedestrian crossings

W = 1x H | W = 1,2x H

W = 1 x H

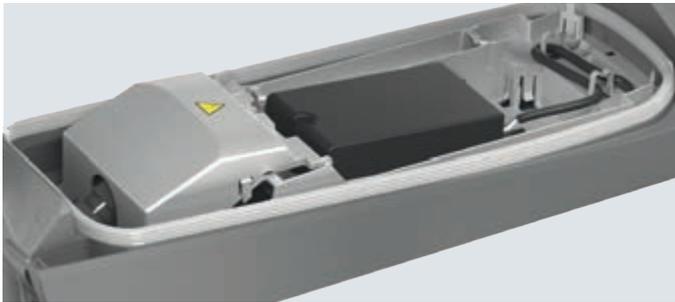# Protecting resources with a sustainable recycling economy

Creating added value for companies and nature with a recycling economy

With its EU action plan for the recycling economy, the European Union is creating new and advanced incentives for avoiding waste and residual waste throughout the entire life cycle of a product. This process starts at the product design stage with ecological design and takes in waste avoidance and consumption in operation through to maximized reuse of raw materials. By consistently implementing these measures, net annual savings of EUR 600 billion or 8 percent of the annual turnover of companies in the European Union could be achieved.

The predictability of raw material supply increases by switching to the recycling economy

In addition to energy efficiency, an environmentally-compatible design, or eco-design, also includes aspects such as the long life, repairability, retrofitting and recycling ability of a product

The recycling economy can provide for innovation, growth and employment (creation of 580,000 jobs in the EU)

Raw materials

Design

Recycling can reduce CO_2 emissions by 2 to 4 percent

Recycling

Recycling economy

Manufacture Remanufacture

Residual waste

Sales

Recyclable products increase competitiveness

Collection

Use, reuse, repair

Reducing waste to a minimum is part of the value chain. Waste separation and collection supports cleaner recycling

Consumers in a recycling economy benefit from longer life and more innovative products, which lead to cost savings and a higher quality of life

Ideally designed to meet sustainability targets in cities and communities

LED luminaires in outdoor areas, in particular, are frequently constructed according to the sealed for life principle. A new design concept is needed, however, to achieve high recycling rates—in other words a modular approach, which makes individual components easily accessible, replaceable and recyclable. This is the very approach followed by Streetlight 11.
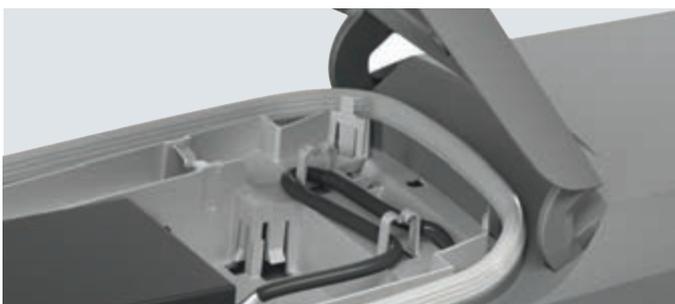

Easy and fast separation of the main components
- No glued or screwed connections
- Complete material transparency: PMMA, PC, EPDM and others
- Simple return to the material life cycle

Repair rather than discard
- Easily replaceable LED modules for fast repairs and upgrades
- Drivers can also be replaced quickly

Retrofittable design platform for future requirements
- Replacement of the cover or gear tray during operation
- Optional enhancement as a result with additional functions (for example, in the smart city area)

Sustainable operation
- Durable die-cast aluminum housing (IP66)
- Outstanding efficiency thanks to LED technology
- Additional savings with patented constant lumen output control (CLO 2.0)

Intelligent lighting control: smart systems for cities and companies

Energy saving and more: Your advantages with modern lighting control
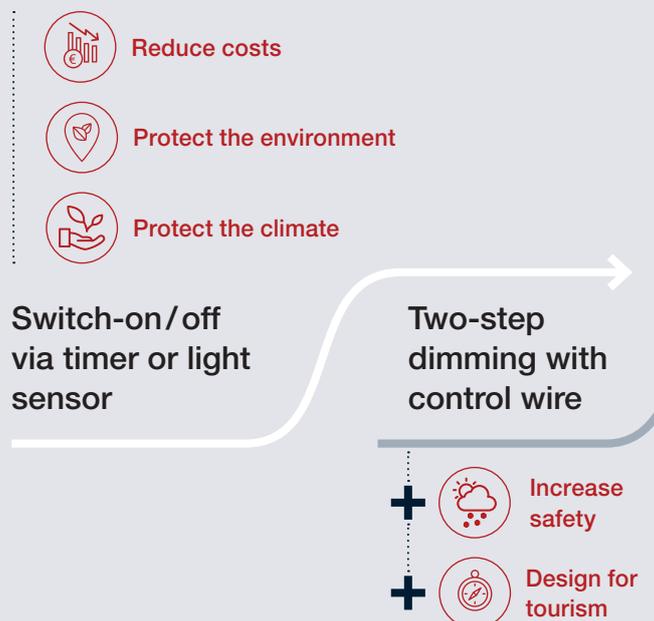
For a long time, energy savings were the decisive factor for installing intelligent lighting control. However, increasingly efficient hardware and software solutions are now giving cities and companies the opportunity to use integrated control and monitoring solutions to achieve safety and sustainability goals. The basis for this — "intelligent lighting control" with sensors and interfaces to existing municipal systems, for example traffic computers and inventory databases, and always tailor-made for individual requirements.

The benefits of modern lighting control are extensive

- **Reduce costs:**
  Dimming and temporary switching off save energy and increase the service life of the luminaire

- **Protect the environment:**
  Targeted dimming reduces light pollution and protects flora and fauna

- **Protect the climate:**
  Improved CO_2 balance through dimming at low-traffic times in parks and industrial estates

- **Increase visibility:**
  Lighting levels controlled according to time and situation for optimum visibility at night

- **Increase safety:**
  Illuminance levels modified to traffic, weather and events

- **Design for tourism:**
  Timed lighting levels emphasize landmarks and attractive architecture

- **Reduce vandalism:**
  Movement-related increases in illuminance protect your facilities

- **Optimize operational management:**
  Central documentation, switching, monitoring and diagnosis of the system enables the planned, targeted deployment of technicians, e.g. in the event of damage

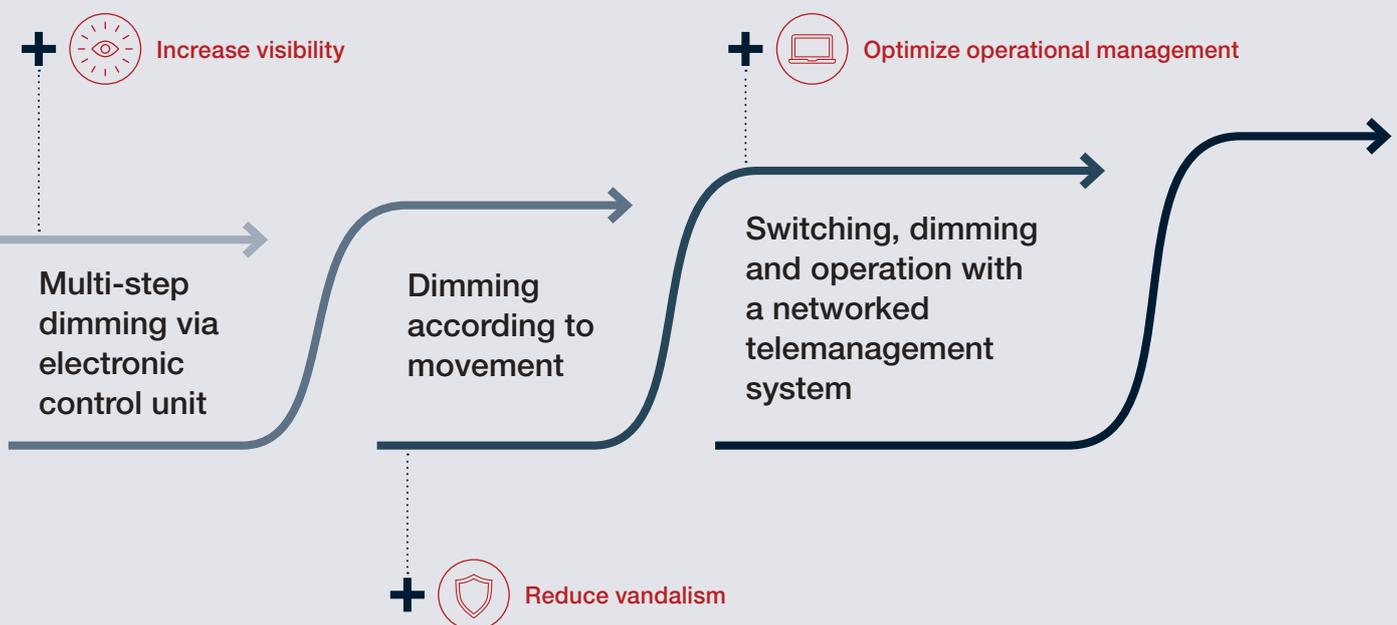## How advantages become technical reality

Reduce costs

Protect the environment

Protect the climate

Switch-on / off via timer or light sensor

Two-step dimming with control wire

Increase safety

Design for tourism

The four main advantages of modern lighting control

Energy efficiency improvements via dimming according to requirements

Safety for people, in traffic and against vandalism

Sustainability via the protection of ecological resources and the animal world

Optimized operational management via current diagnostic data and documented systems

LEVEL OF SYSTEM INTELLIGENCE

Increase visibility

Optimize operational management

Multi-step dimming via electronic control unit

Dimming according to movement

Switching, dimming and operation with a networked telemanagement system

Reduce vandalism

Telemanagement:
simple, secure and flexible thanks
to SITECO's Smart Interface

The new standard for your technological flexibility

Central control of lighting systems—as offered by modern telemanagement. SITECO customers have additional advantages with immediate effect: With the Smart Interface, SITECO is equipping its outdoor luminaires with a standardized interface compliant to Zhaga Book 18. This means in future operators will be able to fit their telemanagement system to the luminaire themselves, and lighting controls which are also designed according to Zhaga Book 18 can be connected to the luminaire simply and without further modifications.

Your advantages:
- **Future-proof:** SITECO luminaires with Smart Interface prepare operators for the future use of a telemanagement system.
- **Flexible:** The time of retrofitting a telemanagement system is freely selectable and easy to implement. Thanks to the integrated, standardized interface, the Smart Plugs can be connected to the luminaire without any additional tool.
- **Independent:** SITECO customers will find many telemanagement system providers on the market. With the Zhaga standard they remain independent in their selection, and can even simply test several systems on location and exchange between individual luminaires as required.

Smart Plug

Smart Interface

What is Zhaga?
Zhaga is a global consortium of companies in the lighting industry. It standardizes essential LED luminaire components in specific books, the "Zhaga Books". Zhaga Book 18 defines the interface between a Smart Interface on the one hand and a Smart Plug on the other.

LumIdent: lighting data management in the digital age

Our concept for simple commissioning and management of your luminaire infrastructure

The larger, more complex and more individual a lighting system is, the more important it becomes to have structured inventory and system management as well as simple tools for operating and setting the luminaires.

SITECO provides a state of the art set of tools for precisely such tasks in the form of LumIdent: The LumIdent QR code for quick information on luminaire type and basic data, the app for setting e.g. the dimming level, and the web tool for viewing the lighting system documentation on a PC.
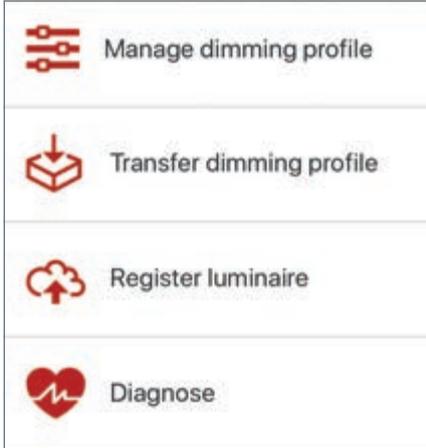
At a glance:	Information	Setting	Diagnostics	Management
	Determine luminaire type and equipment with the QR code, e.g. the light distribution.	Reset the luminaire with the app, e.g. modify the dimming level.	Locate errors and track implemented settings, e.g. dimming level.	Gain an improved overview of the system with the luminaire registry.

LumIdent QR code

- Quickly identify luminaires via QR code
- View electronic data sheet
- With common QR code app or LumIdent app

Manage dimming profile

Transfer dimming profile

Register luminaire

Diagnose

LumIdent app

- View & change luminaire settings
- Digitize luminaire inventory & create luminaire registry
- Diagnose errors

LumIdent web tool

- View captured luminaires on a PC
- Table or map view
- Export captured luminaires as file

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