siteco

Streetlight **SL 21**

The backbone of the smart city

Streetlight SL 21 – Developed and manufactured in Germany

The solution for the connected city of tomorrow.

Light is part of a connected infrastructure and the foundation for Smart City applications. And because today's dreams will be tomorrow's reality, it is all the more important to establish structures as flexible, open and future-proof as possible.

To be prepared for now and for the future: the new SITECO Streetlight SL 21.

- **Long service life** of more than 100,000 hours and sustainable thanks to a modular, future-proof product concept
- **Smart City Ready** with Zhaga or NEMA interfaces for state of the art lighting control, wireless connectivity and versatile sensor technology
- **Light for every need** thanks to precise lighting technology, based on UV-resistant PMMA lenses, and a broad portfolio of different light colors and distributions
- **Low operating costs** thanks to the highest energy efficiency with a light output up to 165 lm/W

- 8 different light distributions thanks to lens-based high-power LED technology
- Thermal decoupling of the ECG device space from the LED unit enables a long service life with minimal light degradation of max. 3 % after 100,000 h (LLMF: up to L97 / B10 after 100,000 h)
- Simple, quick identification of the luminaire via QR code, automatic documentation of luminaire data, luminaire location (GPS data) and settings (LumIdent)
- Tool-free mast flange assembly (spigot 42, 60, 76 mm) on the luminaire and tool-free tilt adjustment (of –15 ° to +15 °) for quick installation and alignment, optional: Universal mast flange for spigot 60 / 76 mm
- Free choice among 3 variants for lighting management:
  - DIM (NFC, CLO[1], time-dependent dimming)
  - PLUS (NFC, CLO[1], LST[2] or time-dependent dimming, DALI)
  - Smart Interface (NFC, CLO[1], time-dependent dimming, optional: LST[2])
    - Zhaga socket (top / bottom)
    - NEMA socket (top)

1) CLO = constant luminous flux control
2) LST = power reduction with control wires

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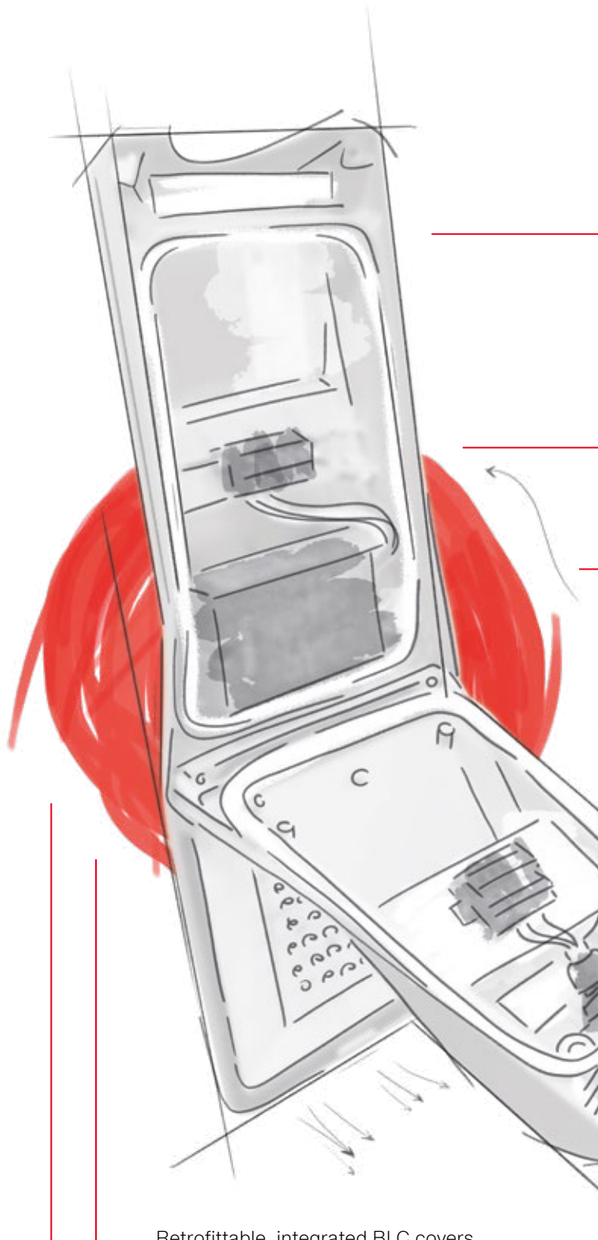


Tool-free closure system for easy and quick installation and maintenance. The closure system is positioned on the back to prevent dirt accumulation; the power supply is interrupted when opened

Integrated white reflector to reduce internal reflections and maximize light output

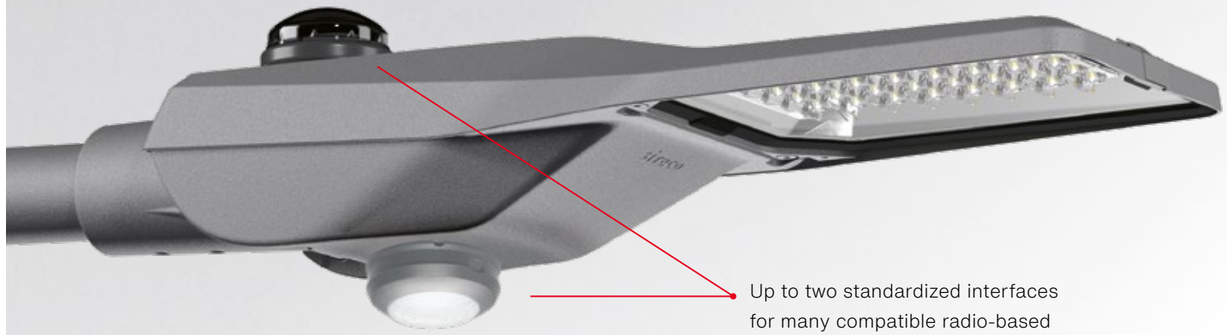
Simple component exchange of the mast thanks to a connector between the ECG and LED module for ESD-safe maintenance (PLUS, Smart Interface variant)

Multi-level, silicone-free seal, replaceable without causing damage

Retrofittable, integrated BLC covers (backlight control) and other accessories for shielding light on the side, house and / or roadside

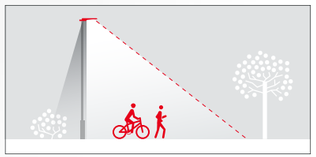
Integrated ESD protection from damage due to static charges for mounting on non-conductive masts / support systems (e.g. wooden masts)

Proven lighting concept – one step ahead.



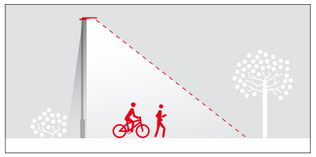
Up to two standardized interfaces for many compatible radio-based control systems and sensors.

Backlight control reflector integrated in the LED module.



Standard light distributions

The rear part of the light distribution can be used for lighting cycle paths, for example.



Backlight Control Reflector (BLC)

If the rear portion of the light distribution needs to be reduced, the internal backlight control reflector can be retrofitted at any time without affecting the luminaire design.

Streetlight SL 21 variants

Streetlight SL 21 mini Lite

Technical data

Luminous flux: from 1,970 to 5,320 lm
Power consumption: up to 39 W
Light output: up to 151 lm / W
Service life: above L97 after 100,000 h
Mounting heights: 3 to 6 m

Applications

Cycle paths, residential streets

Light distributions

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ (see diagram below)

Streetlight SL 21 mini

Technical data

Luminous flux: from 5,020 to 13,390 lm
Power: up to 87 W
Light output: up to 160 lm / W
Service life: above L97 after 100,000 h
Mounting heights: 4 to 8 m

Applications

Cycle paths, residential streets, plazas

Light distributions

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ (see diagram below)

Streetlight SL 21 midi

Technical data

Luminous flux: from 12,340 to 23,710 lm
Power: up to 153 W
Light output: up to 165 lm / W
Service life: above L96 after 100,000 h
Mounting heights: 6 to 12 m

Applications

Collection roads, residential streets, plazas, conflict zones

Light distributions

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ (see diagram below)

Valid for all Streetlight SL 21 variants:

Optic concept

PMMA lens
Tilt options: from –15 ° to +15 °

Light colors

2,200 K / 3,000 K / 4,000 K
Color rendering: CRI > 70 / 80
Luminous intensity classes: G3 / G4

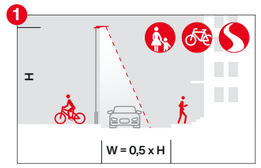
Type of protection

IP66
Safety class: SK II
Impact resistance: IK09

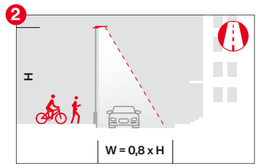
Mounting

Post-top / side entry
Mast flange: Ø 60 / 76 mm (post-top), Ø 76 mm (side-entry)
Reducer: 76 – 60 mm, 76 – 42 mm

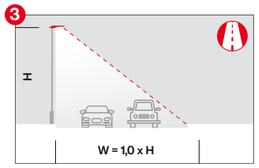
Light distributions for Streetlight SL 21 variants:



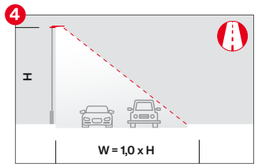
ST0.5a – For narrow roads, (cycle) paths, e.g. in residential areas



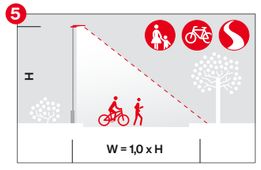
ST0.8a – For normal width roads (luminous intensity class G4), e.g. for trunk roads and frontage roads



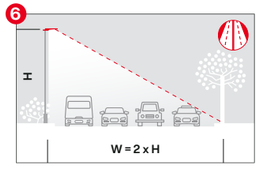
ST1.0a – For normal roads, e.g. expressways



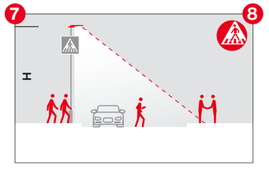
STW1.0a – Especially for wet streets and G4 requirements (e.g. conflict zones)



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



PL52 – For multi-lane roads



PC-L/R – For pedestrian crossings

Benefits through modern lighting control

Safety for people, in traffic and against vandalism

Sustainability via the protection of ecological resources and the animal world

Energy efficiency improvements via dimming according to requirements

Optimized operational management via current diagnostic data and documented systems

Streetlight SL 21 offers smart expansion, control and monitoring:

with SITECO Connect.

Get going quickly with SITECO Connect.

From simple control to a connected system.
It is not without reason that people refer to “city lights” when describing the special attraction of urban spaces. SITECO solutions makes cities and communities even more livable. Thanks to efficient, connected and sustainable lighting solutions.

Thanks to a smart Interface, Streetlight SL 21 has standardized interfaces based on Zhaga / D4i and NEMA that enable plug & play mounting of many compatible radio-based control systems and sensors.

The smart Interface not only ensures future reliability, it also enables additional flexibility and greater independence. Cities and municipalities can adopt the control technology gradually – the time for introducing or retrofitting can be chosen as needed.

100 %
Flexibility thanks to upgrades

SITECO Connect 31:
Individual luminaires controlled locally

Individual luminaires are switched or dimmed with a local motion sensor.

Example: The motion sensor switches just one luminaire.

SITECO Connect 21:
Several luminaires connected locally

Several luminaires are connected via radio.

The network of luminaires communicates with each other and aligns the illumination.

The luminaires are synchronously or successively switched or dimmed.

Example: The motion sensor also switches neighboring luminaires via radio link.

SITECO Connect 11:
Several luminaires connected with remote access

The luminaires are connected via radio.

Settings can be defined from the office via the network with remote access and status messages sent automatically.

Existing inventory and workflow systems such as luxData from sixData can be used as a master.

Example: The network of luminaires works synchronously and is remotely monitored.

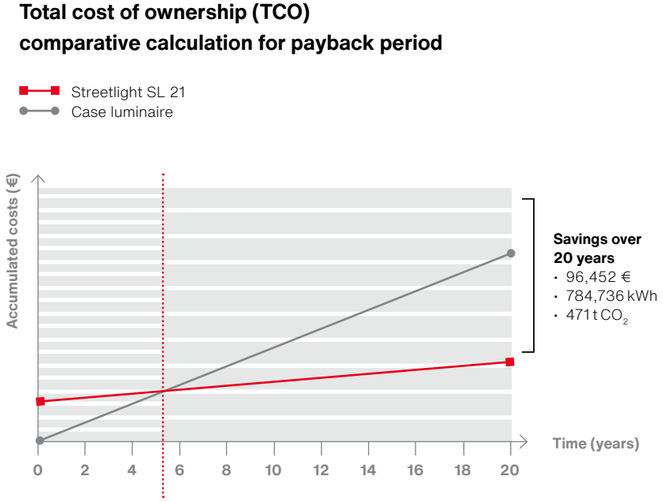
Smart City also means smart investments.

The cost savings over the installation lifespan are often upward of 50 %, because the best product for your requirements has a dramatic impact on your future operating overheads.

We are also pleased to offer light as a service for our customers. In such cases, we bear the investment costs and risks ourselves. And always select the best product for you.

SITECO enables all scales of project, from pilot to a major step.

Total cost of ownership (TCO) comparative calculation for payback period

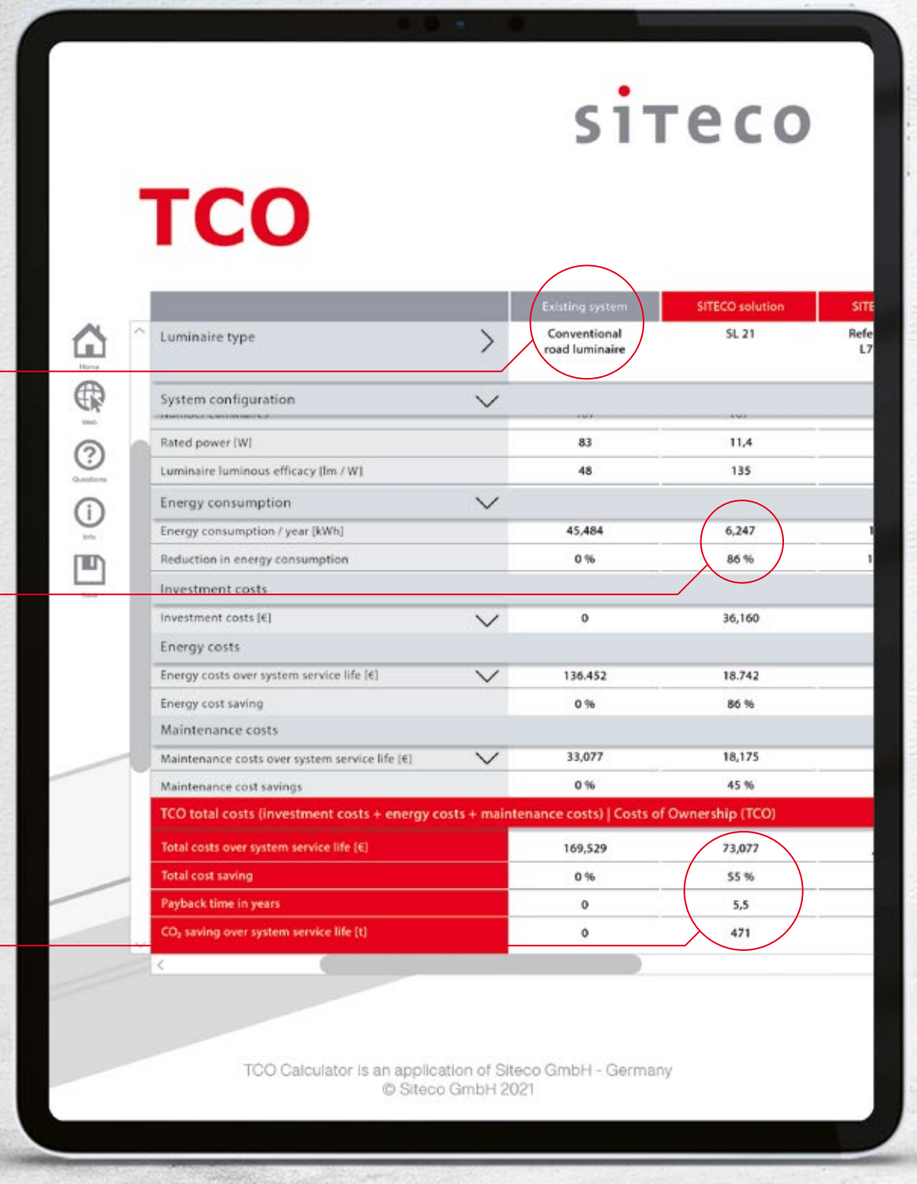


Number of luminaires: 137; system life: 20 years; operating hours: 4,000

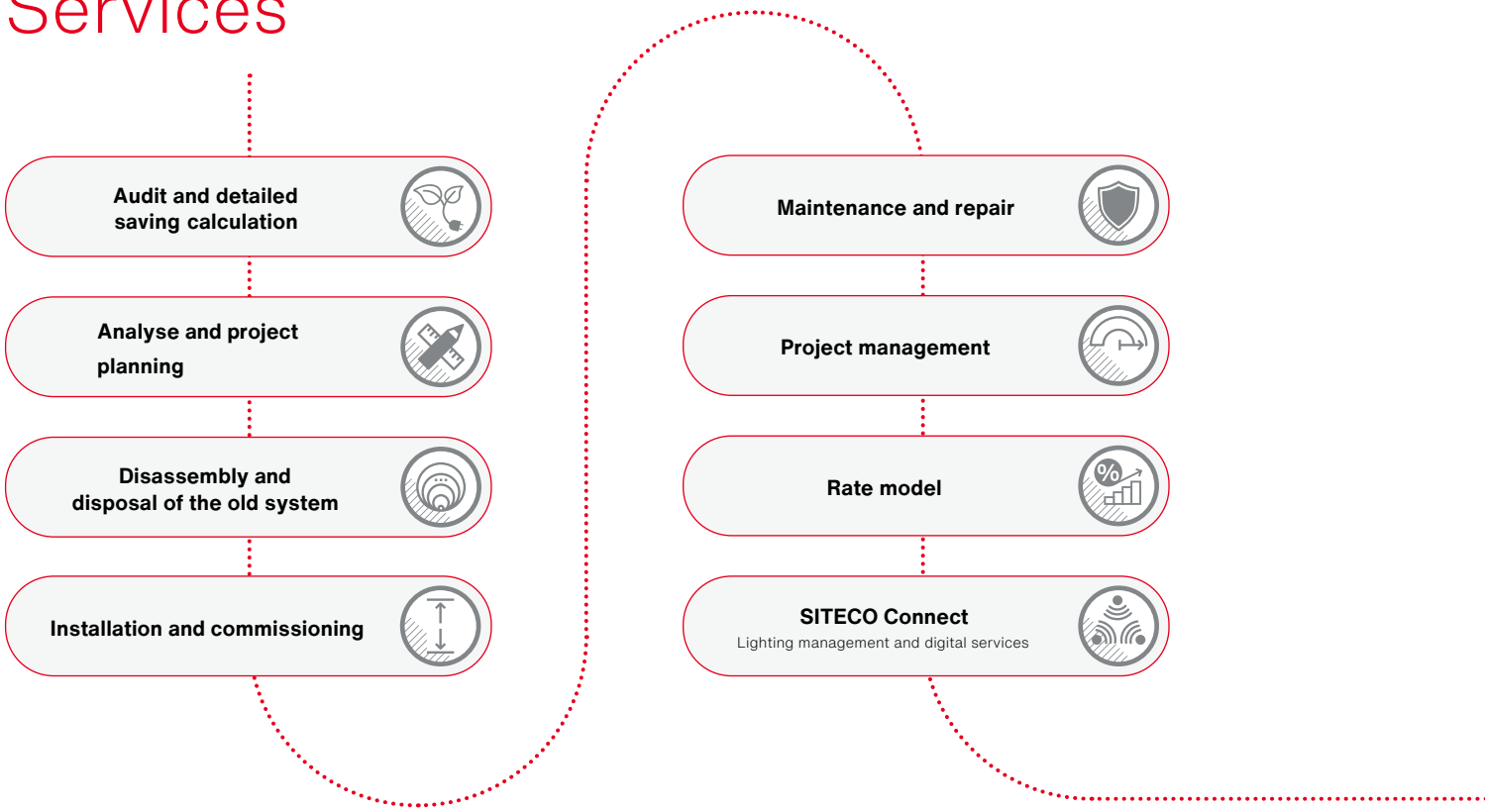
The SITECO audit provides complete transparency about the energy consumption and CO_2 emissions of your existing system.

Our lighting consultants design a solution that is based on your requirements and tailored to your needs.

The result: Clarity on your cost and energy savings potential made completely transparent thanks to our detailed TCO comparison calculation.



SITECO Services



With our service model, you get turnkey solutions from a single source – from planning and installation to maintenance and financing.
The choice is yours: from pure lighting to the “all-round carefree package”.

SITECO is a planning and development partner for your lighting solution.

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Order number 810P039GB | SITECO Marketing 05.2021