siteco

iQ inside

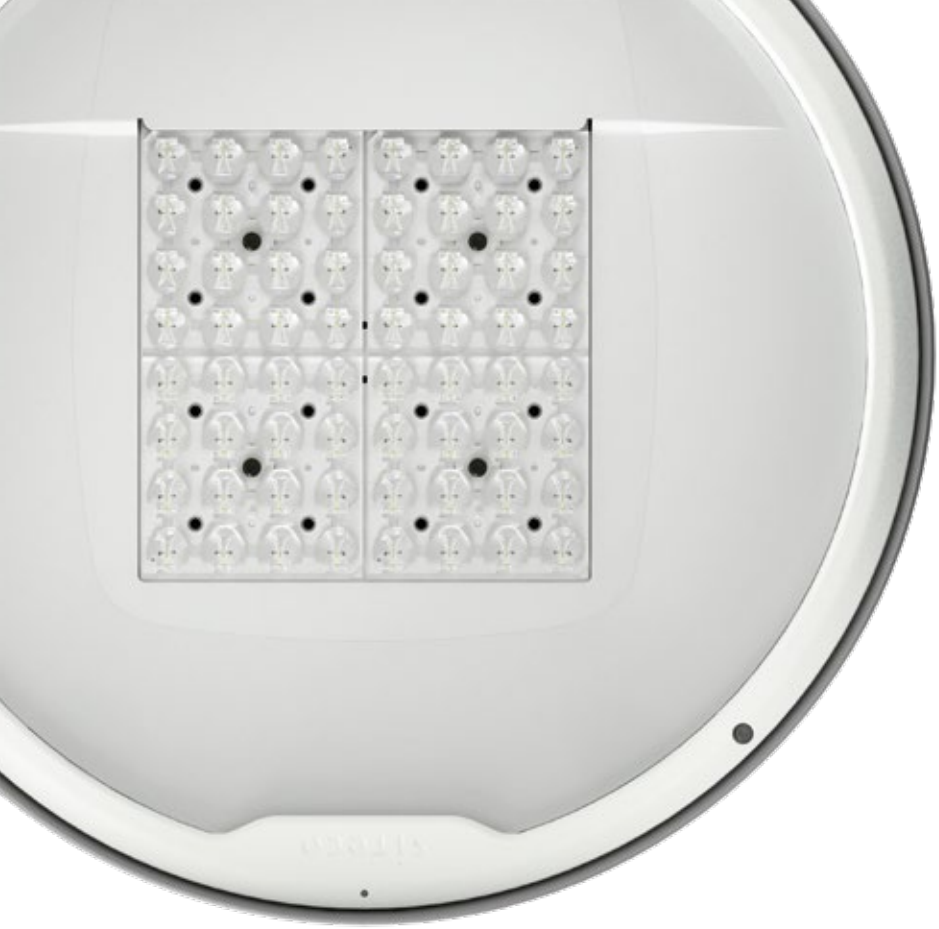
Types,
data sheets,
configuration –
all at a glance:

DL 50 iQ

DL 50 iQ

The perfectly styled family of luminaires.

D1 50



Future-proof.
Technical & urban.
Maximum flexibility.

With DL 50 iQ, you already have extensive options for managing the technical and urban lighting in your city or community – all the way through to fully digital and connected solutions. For light that is even smarter and more efficient. And that can be managed really conveniently with the iQ app.

And with the Zhaga interface, you can keep all options open for the future. Whether wireless radio control or full connectivity.

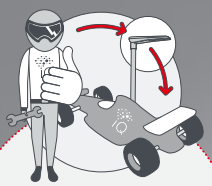
DL 50 iQ – Smart like never before.

The future.
In a luminaire.

Comprehensive control and diagnostic options?
Or rather interfaces for sensor technology and the like?

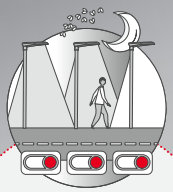
Both, of course!

Intelligence 2
iQ Smart-Interface



Auto-Match

Exchange ECGs in no time — without reprogramming.

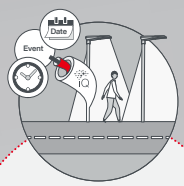


Night-Set

Automatically adjust nighttime reduction to multiple levels and switch between two profiles. (for example, weekends and weekdays)

Desk-Remote

Adjust luminaires in the workshop without opening the box.



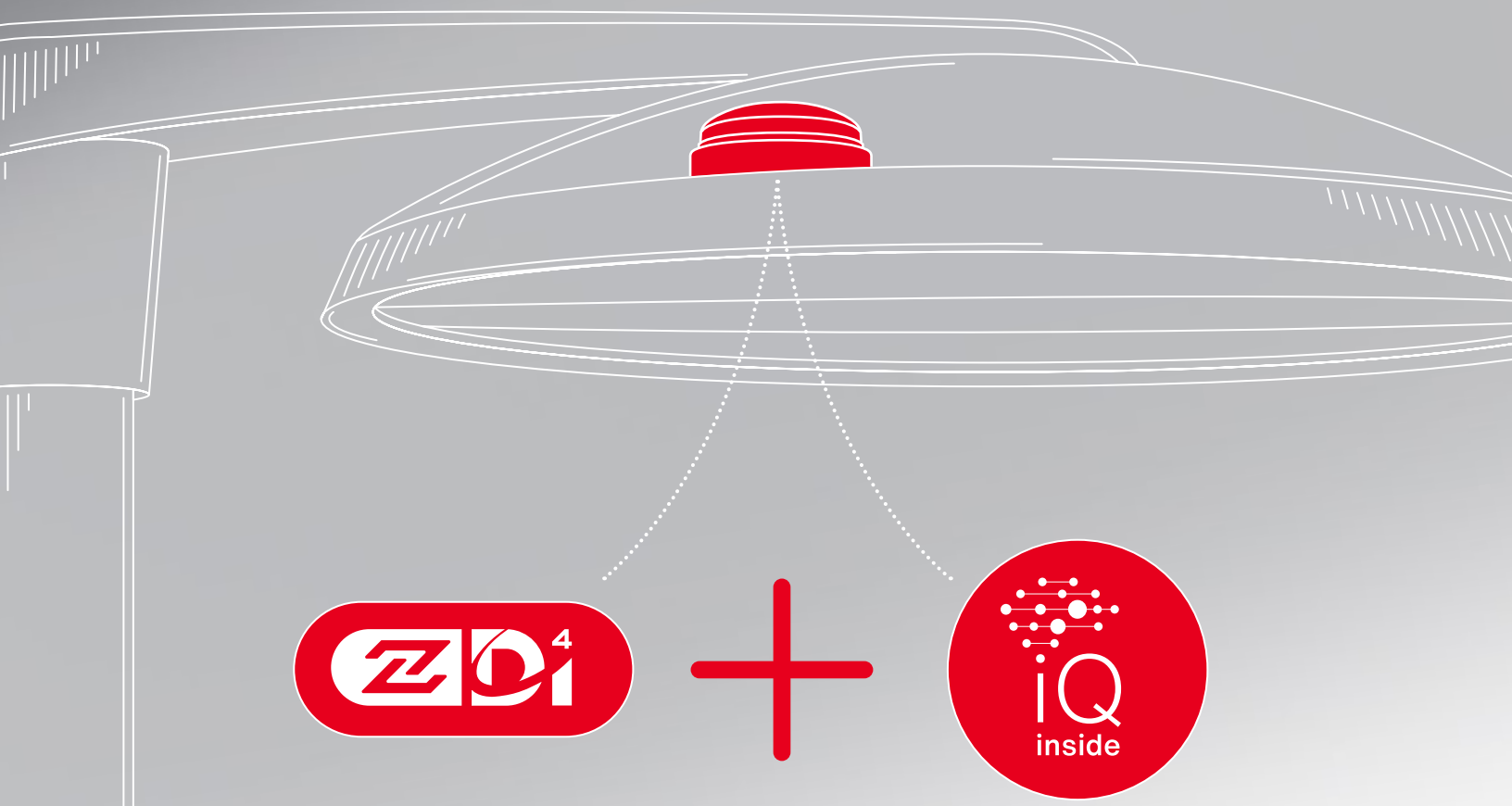
Smart-Wire

Dim inexpensively using existing control wires and intelligently switch between dim profiles, light colors and light distributions.

Street-Remote

Configure luminaires from the sidewalk or from a vehicle “on the fly.”

You can find out more about iQ here:



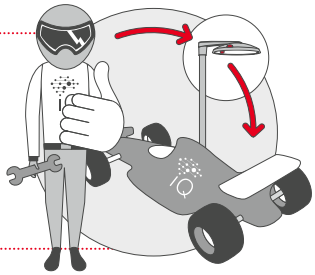
Smart-Interface is your ticket to entering the world of sensor technology and wireless control. This means that the DL 50 iQ has Zhaga D4i standard* interfaces. So you can be sure our wireless accessories and sensors are 100 % compatible.

Our **iQ luminaire electronics** link all the parts of the luminaire into a single network – ECG, LED module and optics, transforming individual components into a complete system that you can even configure wirelessly.

* SITECO iQ can only be combined with Zhaga D4i interfaces.

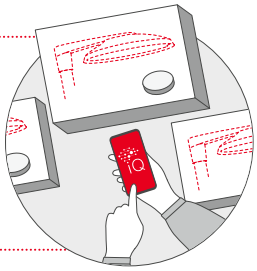
Unrivaled feature No. 1

Smart-Interface + SITECO iQ Auto-Match
All luminaire data is stored twice, so you can deal with spare parts as fast as in Formula 1. New components are automatically configured – in two minutes, not two hours.



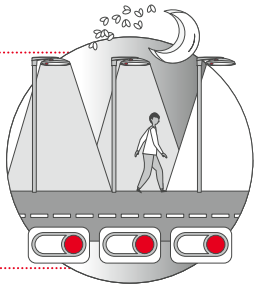
Unrivaled feature No. 2

Smart-Interface + SITECO iQ Street- / Desk-Remote
It doesn't get any easier than this: Parameterize luminaires with iQ without unpacking and using a power feed – e. g., conveniently over Bluetooth from the sidewalk.



Unrivaled feature No. 3

Smart-Interface + SITECO iQ Smart-Wire
Have you ever tried to use a reduction function without additional components in the luminaire? Well, Smart-Wire makes exactly that possible. With the existing control wiring.



Convenience and function. Already possible today with iQ.
All control options. Available at any time with Smart-Interface.

SITECO iQ Smart-Interface, the combination that opens
the gateway to a new world of possibilities.

Unrivaled in the history of light.

Future-proof?

You bet!

Smart light?

Super simple!

All the options?

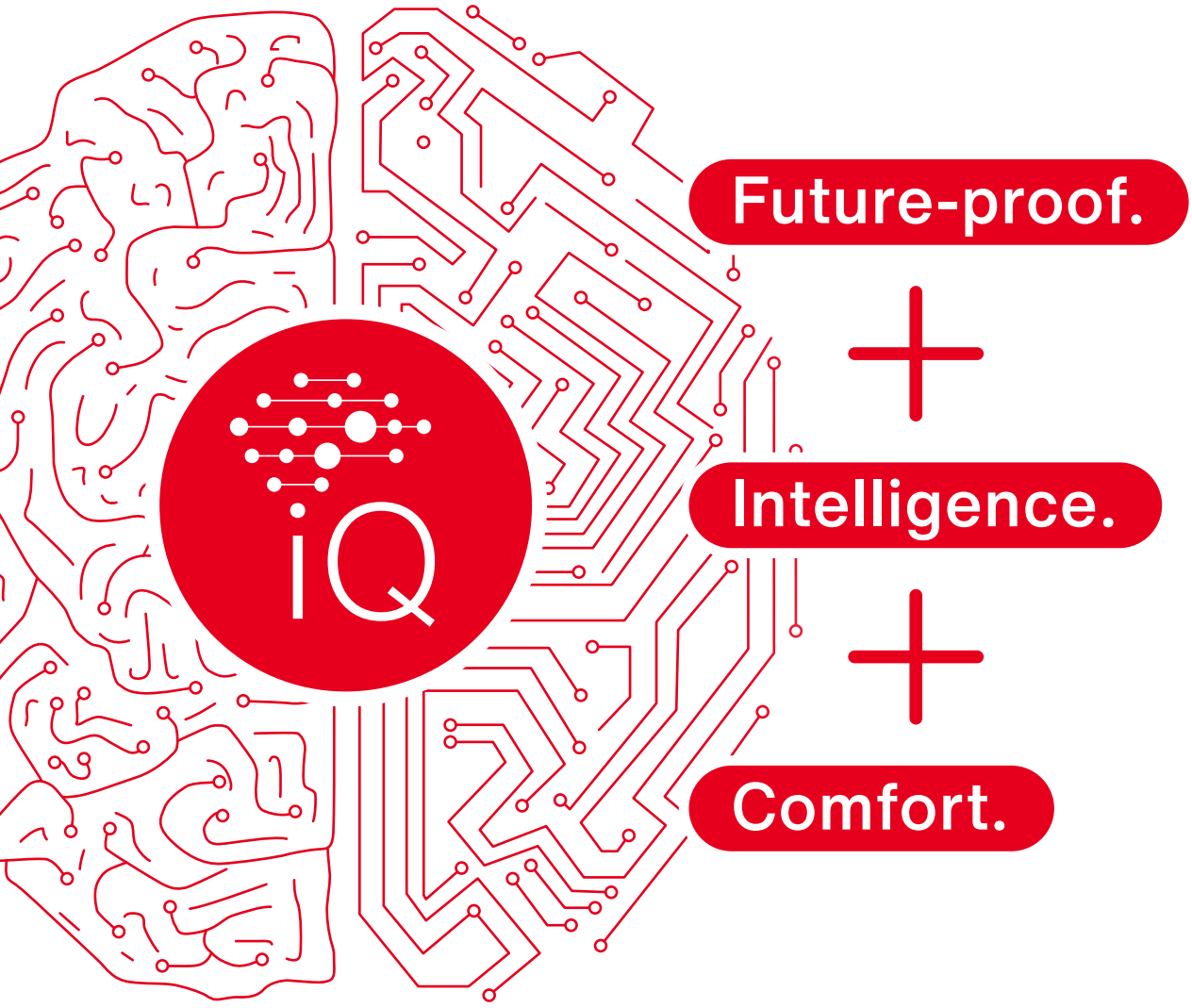
SITECO iQ

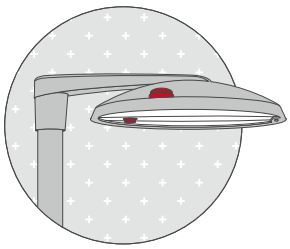
Smart-Interface.

You can find out more about iQ here:

SITECO iQ

Because we know what challenges you are facing every day.



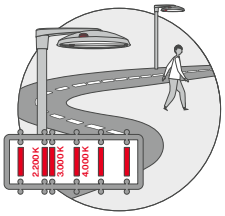


Smart-Interface

Intelligent light at its peak – for maximum future viability.

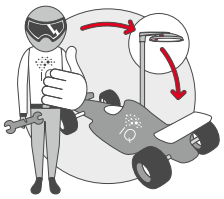
Street-Remote

Light-Switch

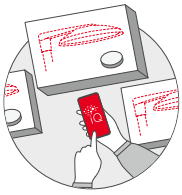


Colour-Switch

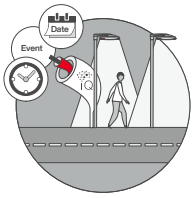
Intelligent additional features – for maximum flexibility.



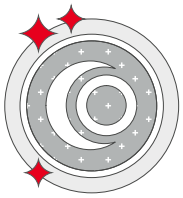
Auto-Match



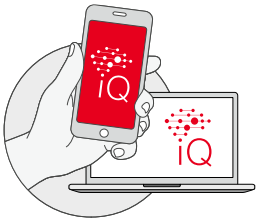
Desk-Remote



Smart-Wire



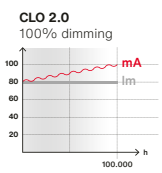
Night-Set



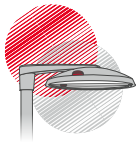
iQ App & Webtool

Intelligent features – for maximum convenience in everyday use.

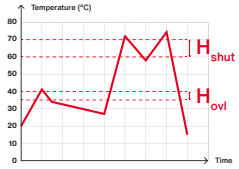
Lumen-Switch



CLO 2.0

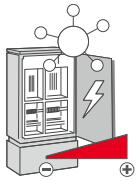


Light-Fading



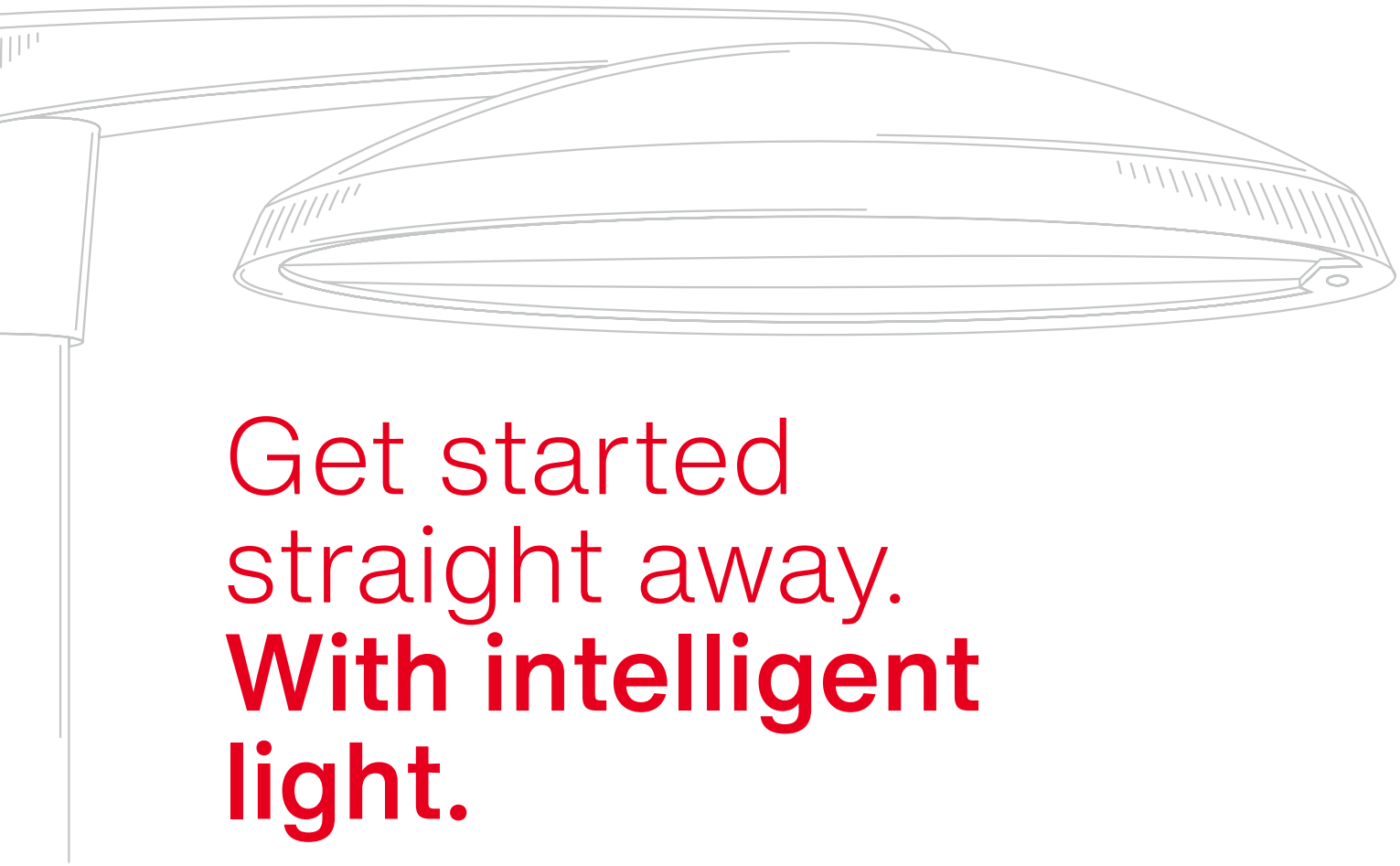
Temp-Guard

Surge Protection



Fuse-Plus

Intelligent foundation – for maximum efficiency.

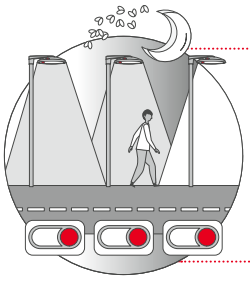


Get started straight away. **With intelligent light.**

Everyone’s talking about sustainability and saving energy. But it’s not about talking, it’s about taking action. Just take the first step. **With SITECO iQ Smart-Wire, for example.**

This function turns control wiring into smart control wiring using your existing infrastructure. All you need to have is a control wire with 230 V in the power-supply network used by your lighting system.

SITECO iQ Smart-Wire propels your control wiring into the future.
And coupled with efficient LED technology, it becomes an enormous lever for activating energy savings.

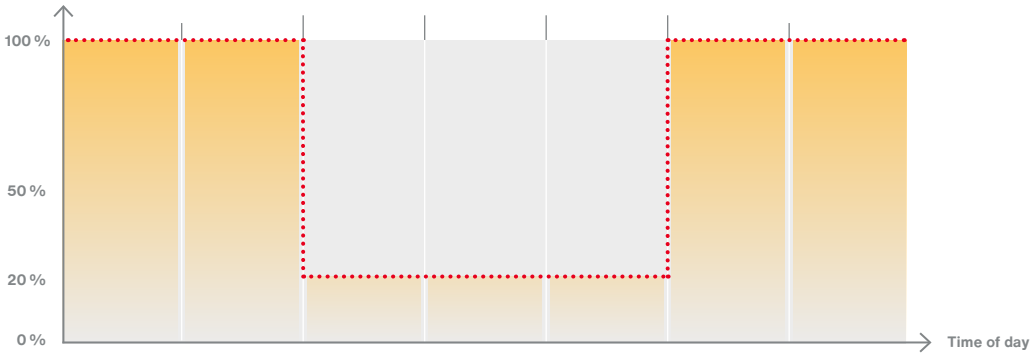


Absolutely unique and intelligent[2]:
SITECO iQ Smart-Wire in combination with Smart-Interface (Zhaga-D4i interface) does not require **any additional components!**

Control of SITECO luminaires – classic

Smart-Wire with two scenes

Previous reduction function: switch between two dimming levels

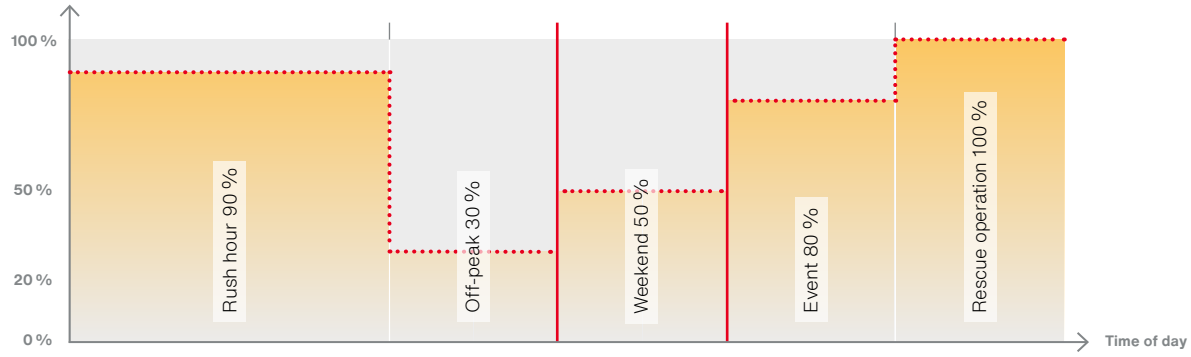


For example, rush hour 100 %, off-peak 20 %

Control of SITECO luminaires – with SITECO iQ

Smart-Wire with up to 10 scenes

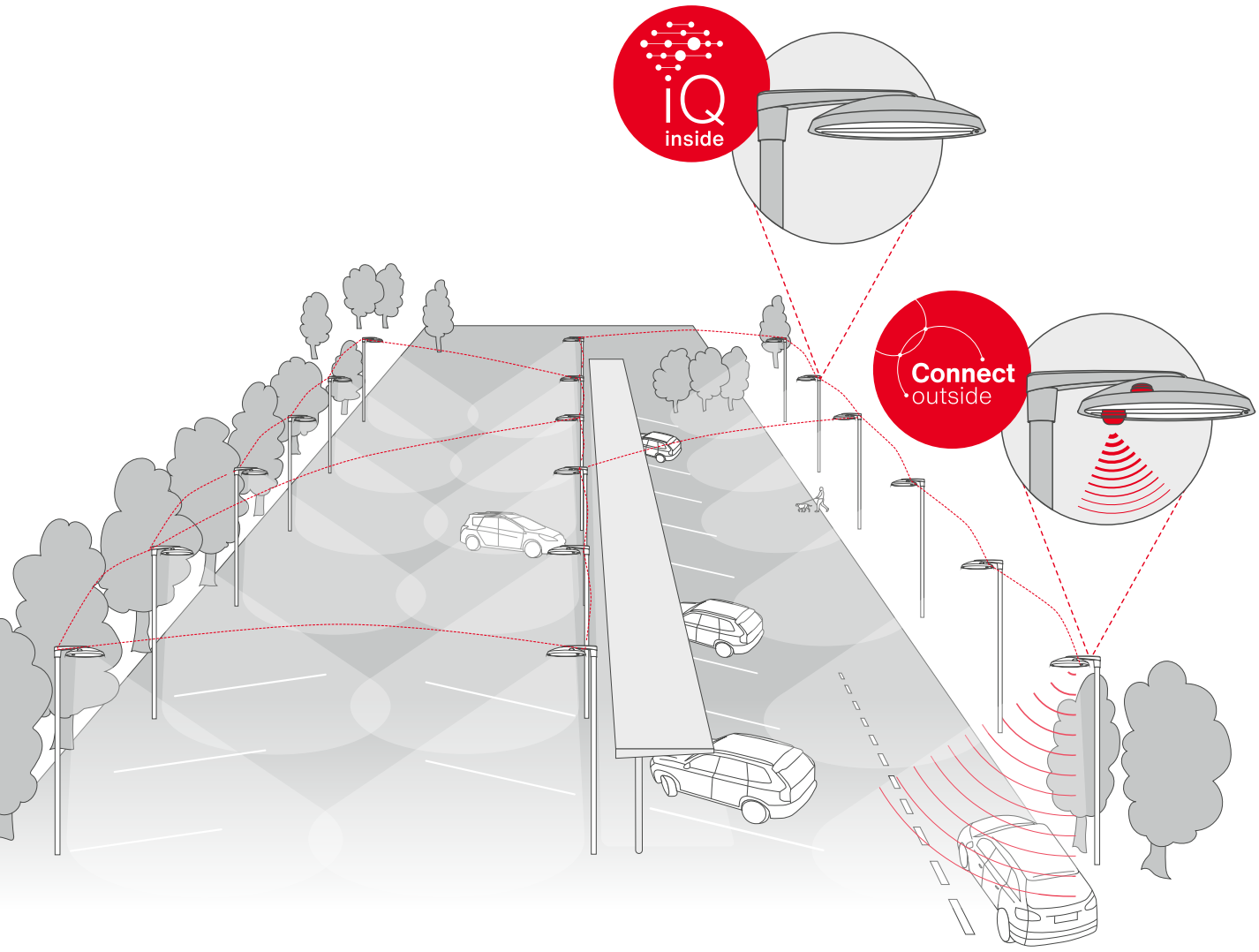
Switch among up to 10 light scenes including selection
of the respective dimming level and fading time



Example
Rush hour 90 %
Off-peak 30 %

Example
Weekend 50 %

Example
Event 80 %
with rescue operation 100 %

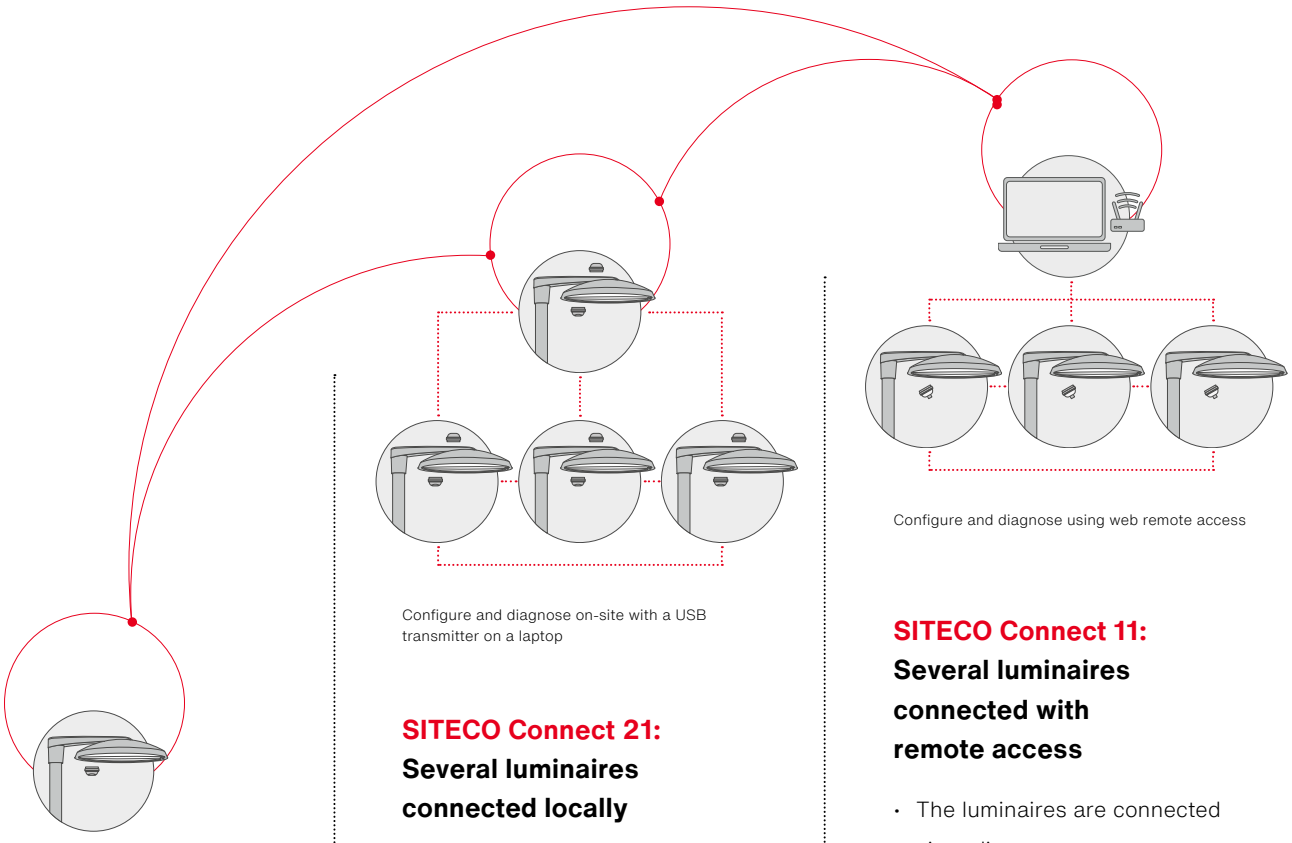


100 % flexibility.
Step-by-step.

SITECO iQ luminaire electronics already offer countless functions to make life easier and energy savings greater. The DL 50 iQ also comes with Smart-Interface and NEMA-Interface. Which lets you connect many wireless control systems and sensors through plug and play.

If and when you take this step is up to you – a decision you can make completely flexibly. Of course you can remain in the SITECO world for sensor technology and networking: We offer our own compatible control system with SITECO Connect.

From a single luminaire to a fully networked system.



Configure and diagnose on-site with a USB transmitter on a laptop

Configure and diagnose using web remote access

SITECO Connect 31:
Individual luminaires

- Individual luminaires are switched or dimmed, e. g. with a local motion sensor.

SITECO Connect 21:
Several luminaires connected locally

- Several luminaires are connected via radio.
- The luminaires in the network communicate and synchronize among themselves.
- The luminaires are synchronously or successively switched or dimmed.

SITECO Connect 11:
Several luminaires connected with remote access

- The luminaires are connected via radio.
- Settings can be defined from the office through the network with remote access and status messages sent automatically.
- Existing inventory and workflow systems like luxData by sixData can be used as a master.

Advantages with modern lighting control

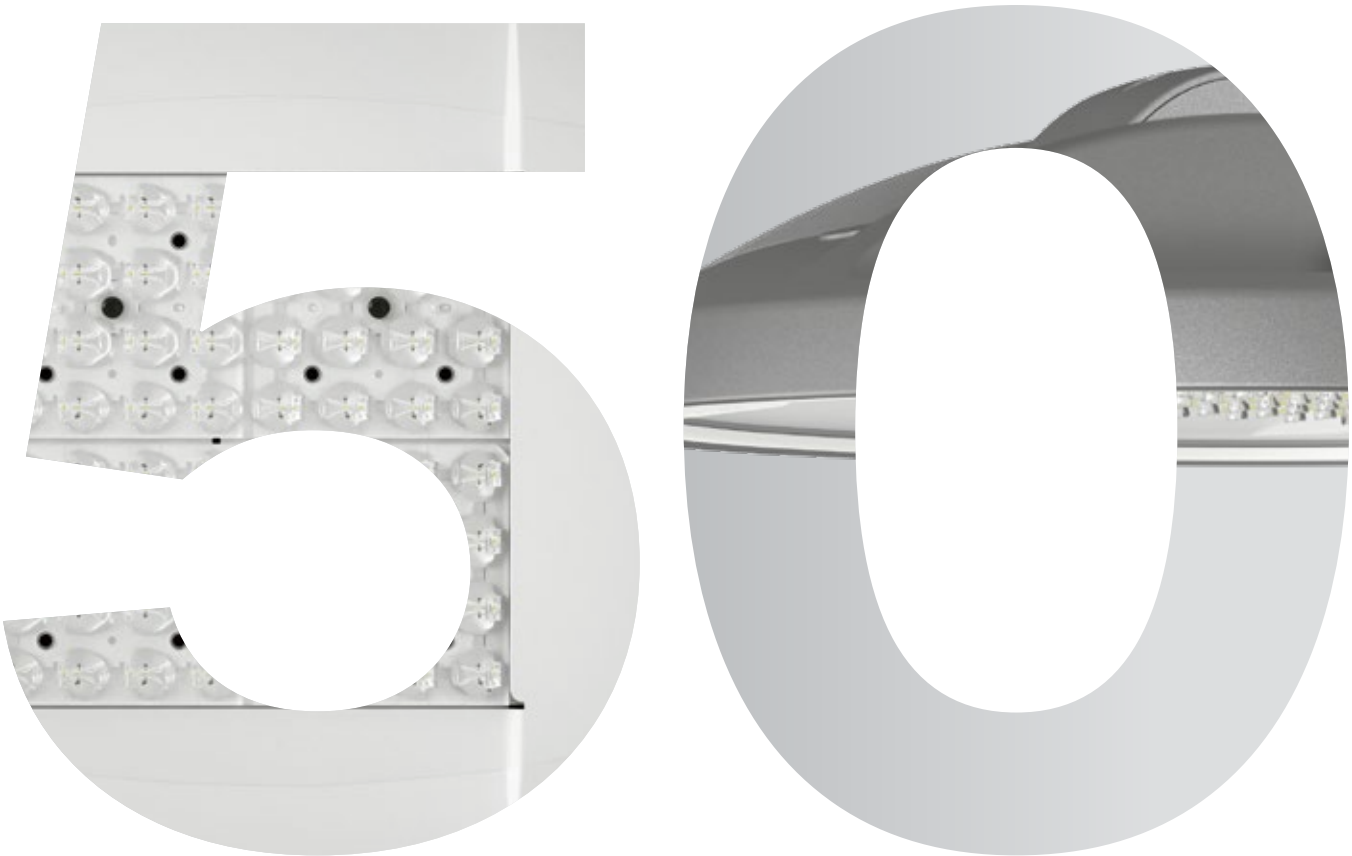
Increases traffic and personal safety, reduces vandalism

Contributes to sustainability by protecting environmental resources and wildlife

Improves energy efficiency thanks to needs-based dimming

Optimizes operational management using current diagnostic data and documented systems

DL


50

URBAN

Stylish. Flexible.

DL 50 iQ.
One for all.

Flexible mounting:
Be it on cables, masts or brackets, be it decorative or technical – DL 50 iQ can do whatever you need. The variety of mounting variants and light distribution enables a broad area of use, from narrow paths to multilane arterial roads.

For you this means:
Flexibility in city planning.
And maximum security for the future.

Your City. Your Light.

The epitome of urban lighting.
DL 50 iQ doesn't just illuminate your city – it shapes the cityscape. Varied mounting options enable exactly the flexibility you need. And all that with the lowest operating costs and the highest energy efficiency.

Technology meets design.
Highly efficient, precise light thanks to lens-based LED technology – combined with an elegant exterior. In this way, DL 50 iQ ensures reliable security while giving its city a unmistakable character.

DL 50 iQ. More than light.

Light that comes from thinking green.

Enduring design and upgrades in no time thanks to exchangeable components. Fully needs-driven lighting. Environmentally-friendly, plastic-free packaging.

And finally: single-type separation of all materials. For us, this all means sustainability.

Sustainability and environmental protection practiced honestly.

SITECO offers:

Convenient separation

The primary components are neither bonded nor fastened with screws, and they can be easily separated and returned to the **material life cycle**. In addition, we use up to 94 % **recycled plastic** for the ECG.

SITECO offers:

Environmentally friendly production and packaging

SITECO follows **environmental protection guidelines** for its production operations in Germany. That means: No long transport routes that stretch halfway around the globe and packaging that uses **as little plastic as possible.**

SITECO offers:

Future-proof and tool-free maintenance

Modules, drivers and other components can be replaced easily, even without tools – the ideal way to make repairs or add updates in no time at all. **SITECO is light for generations and absolutely future-proof.**

SITECO offers:

No light pollution

Zero percent light in the upper atmosphere: The DL 50 iQ achieves this thanks to its construction and lighting technology **– for a dark night sky**

SITECO offers:

Targeted lighting control

SITECO luminaires can be dimmed, activated and controlled as needed. The reduced level of light has a positive effect on the **natural behavior of animals.**

SITECO offers:

Sustainable light

From the die-cast aluminum housings to the interchangeable LED modules equipped with lighting technology – we've designed everything at SITECO with **long-lasting operation and significant CO_2 savings** in mind.

DL 50 iQ models

All models are available with Smart-Interface

Technical data

Luminous flux: from 2,500 to 19,390 lm
Output: up to 122 W
Luminous efficacy: up to 178,9 lm/W
Service life: 100,000 h (L95/B10)
Mounting heights: 6 to 10 m

Recommended applications

Residential roads, collector roads, cycle paths, crosswalks, squares, inner-city areas

Possible light distributions:

1 2 3 4 5 6 7 8 9 10 (see diagram below)

Valid for all DL 50 iQ models:

Optical concept

Lens technology (PMMA)
Tilt options from –15° to +15°

Light colors

2,200 K | 2,700 K | 3,000 K | 4,000 K
Color rendering: CRI > 70
Luminous intensity classes: G3 | G4 | G6

Type of protection

IP66
Safety class: II
Impact resistance: IK08

Mounting

Mast post-top and mast side-entry
Pole flange: Ø 76 / 60 mm (top), Ø 60 / 42 mm (base)
Reducer: 76 – 60 mm, 60 – 42 mm

Control system

SITECO iQ | SITECO iQ Street-Remote | Smart-Interface (D4i)

DL 50 iQ mini catenary luminaires

Technical data

Luminous flux: from 2,610 to 15,660 lm
Output: up to 108 W
Luminous efficacy: up to 177,2 lm/W
Service life: 100,000 h (L95/B10)
Mounting heights: 6 to 10 m

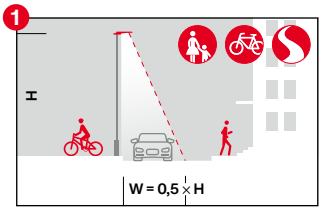
Recommended applications

Collector roads, main roads, inner-city areas

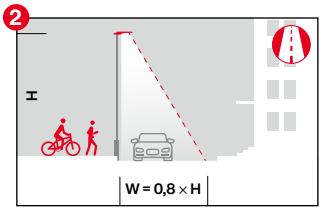
Possible light distributions:

1 2 3 4 5 6 7 8 9 10 (see diagram below)

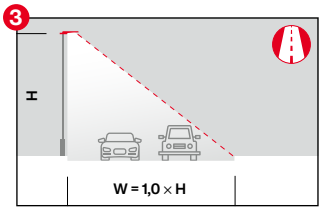
Light distributions for DL 50 iQ models:



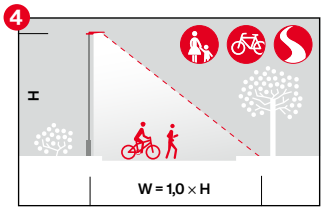
ST0.5a – For normal/narrow roads; lighting classes M + P; e g., (cycle) paths, roads in residential areas



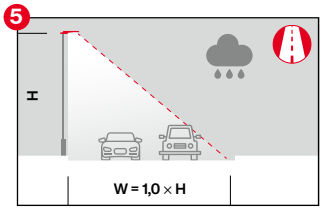
ST0.8a – For normal / wide roads; lighting classes M + P; e. g., collector roads, residential roads



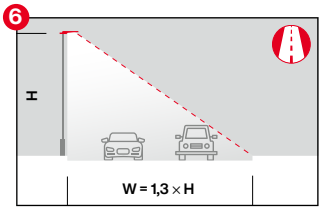
ST1.0a – For normal roads; lighting class M; e. g., main roads; optional with BLC



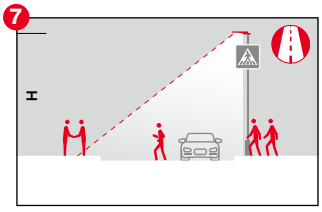
P1.0a – For narrow paths, streets and cycle paths; lighting class P



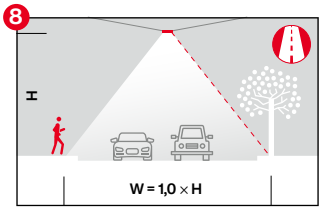
STW1.0a – Especially for wet streets and G4 requirements (e. g., conflict zones)



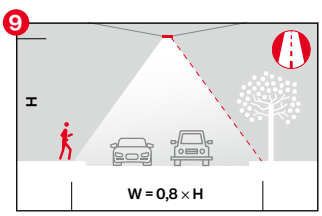
ST1.3a – For wide roads; Lighting class M; e.g. Main road



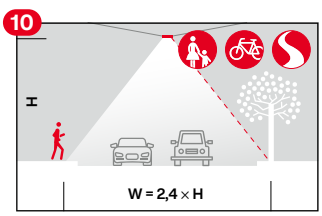
PC-L / R – For pedestrian crossings



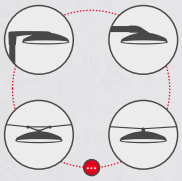
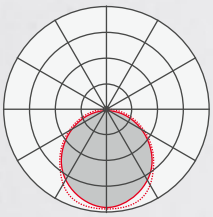
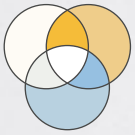
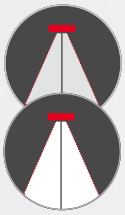
ST1.0s – For normal to wide roads (main roads)



ST0.8s – For normal roads (main roads)



P1.0s – For normal/narrow roads; lighting classes M + P; (e.g., residential roads)

Luminaire variants:

- Mast luminaires
- Catenary luminaires

Light distributions:

- P1.0a (BLC optional)
- ST0.5a (BLC, G4-class optional)
- ST0.8a (BLC, G4-class optional)
- ST1.0a (BLC, G4-class optional)
- STW1.0a (BLC optional)
- ST1.3a
- PC-L
- PC-R
- P1.0s
- ST0.8s
- ST1.0s

Light colors:

- 2,200 K, CRI 70
- 2,700 K, CRI 70
- 3,000 K, CRI 70
- 4,000 K, CRI 70

Variants:

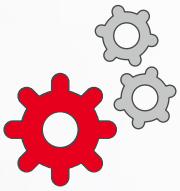
- Standard
- Power

Control:

- iQ Street-Remote
  - no Servicebox
  - Servicebox ready (with DALI 2)
    - iQ Smart-Wire (2 steps)
    - iQ Smart-Wire (10 steps)
    - iQ Night-Set
    - iQ Lumen-Switch
- Smart-Interface (no red. wire)
- Smart-Interface (with red. wire)
  - Smart-Interface 1 × (TOP)
  - Smart-Interface 1 × (BOTTOM)
  - Smart-Interface (TOP / BOTTOM)
- Smart-Interface inkl. iQ

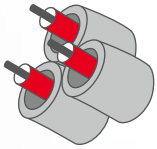
Please note: Not all of the features listed above can be combined together to create an effective system.

Certain combinations are mutually exclusive. We'd be happy to advise you about your selections.



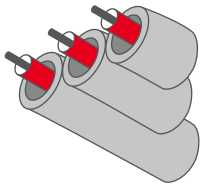
Individual settings:

- Set individual reduction times for the night



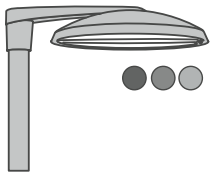
Types of cable:

- H07RN-F 3 × 1,5
- NYM-O 3 × 1,5
- NYM-O 5 × 1,5
- SITECO Plus 5-wire



Cable length:

- 5,5 m
- 6,5 m
- 8,5 m
- 10,5 m
- 12,5 m



Housing color:

- DB702S
- DB703
- RAL 6009
- RAL 7016
- RAL 9005

Make it **your light.**

With its wide range of standard models and additional configuration options, the DL 50 iQ is always the luminaire you want it to be. With various light colors, optics and mounting options. And always as flexible to control as you want – pre-set and ready for the future.

Saving energy calls for teamwork.

What tasks can we carry out for you?

Inventory

Our experts examine your existing lighting installation and define your individual requirements for the new system on location and together with you. ⊕ Recording inventory and inventory data ⊕ Operating costs and CO_2 savings ⊕ Investment and payback

Planning

We develop a lighting concept or customized solution designed to precisely meet your needs – enabling you to benefit from outstanding and sustainable lighting and control technology. ⊕ Lighting design ⊕ Lighting and electrical concept that considers nature conservation laws ⊕ Planning suitable control systems

Project management

Everything from a single source: You work with one project manager, so you have exactly one contact person. Our employee clarifies the formalities and coordinates all steps – so everything happens at the right time and everyone is properly involved. ⊕ Project coordination and control

Financing and funding

Our individual financing solutions help you realize savings right from day one. The terms are flexible and depend entirely on your needs. We also prepare efficiency certificates that verify at least 50 % CO_2 savings for funding applications. ⊕ German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) funding quotas and application for funding ⊕ Financing

Technical service

You decide whether we handle the installation through our network of installation partners. If you'd like, we can also assume responsibility for operating your equipment. ⊕ Installation and commissioning of luminaires and control systems

Digital control center

The SITECO control center monitors in real time: from digital management to maintenance and servicing to control and optimization. In this way, we have everything covered for you and coordinate all work. ⊕ Remote monitoring ⊕ Troubleshooting ⊕ Monitoring of energy savings

Select from these six service modules and combine them to precisely meet your needs.

Always tailored to the level of service you require.

Contact.

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