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Sustainable Outdoor Lighting

10-2026

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Sustainable Outdoor Lighting

- Sustainable Product Concepts
- Optics
- New Product Developments



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Sustainable Product Concepts

Light for a better future.



The primary components are neither bonded nor fastened with screws. They can be easily separated and **returned to the material life cycle –** also because all materials are fully documented.

SITECO offers

Easy to separate

Circular economy implemented honestly.

Is a product sustainable because it uses less energy? No. Manufacturing and disposal of the product have to be considered as well. That's why we manufacture the Streetlight SL 11 in Germany using an energy-saving, sophisticated modular concept and with exceptionally high recycling rates. For a true circular economy.

All of this is how we define **Made in Traunreut**

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Sustainable Product Concepts

Light for a better future.



Retrofitting

Ready for the technological leap?

From conventional to LED. Optionally, with smart lighting control integration. For maximum savings and "green" light.



Upgrade

Ready for more comfort & efficiency?

Easy component replacement. Efficiency boost in an instant. Future-proof and sustainable.



Restoration

Ready for new, old light?

Individual and customized restoration, renovation, and modernization. For individual luminaires, masts, or the entire system. Everything is possible.

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Standard road geometry? Special case?
Our optics cover all applications across the board.

Light distribution S12

Homogeneous illumination of the road while meeting the required uniformity standards – additional illumination of pavements.

Light distribution P10

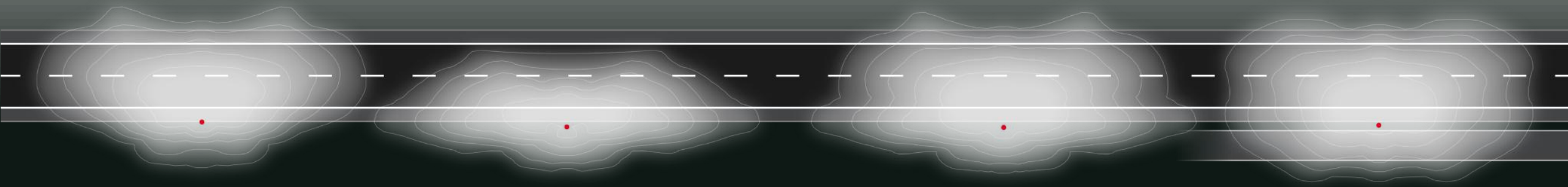
Less light on the opposite side of the street, greater distances between poles.

Combination of S12 and P10

Homogeneous illumination of the road while meeting the required uniformity standards – additional illumination of pavements while poles are spaced further apart.

Combination and Rotation of S12 and P10

Homogeneous illumination of the road while meeting the required uniformity standards – additional illumination of pavements and a small rear road with larger pole spacing.



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SITECO Optical Development:

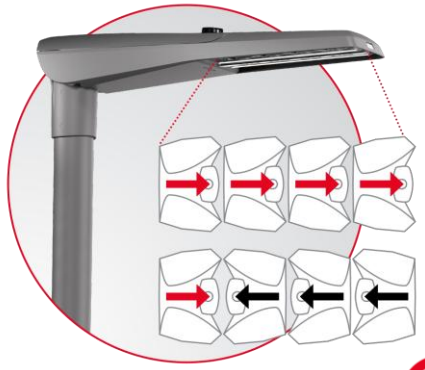
1 Million Possibilities.

For decades, we have been developing our own optics – with passion, precision and a deep understanding of every application. Whether for roads, tunnels, squares or sports facilities, our light always hits its target – precisely measured and perfectly directed.

And when the application is more complex? That's when our real strength comes into play: variants. Combinations. Mixed optics.

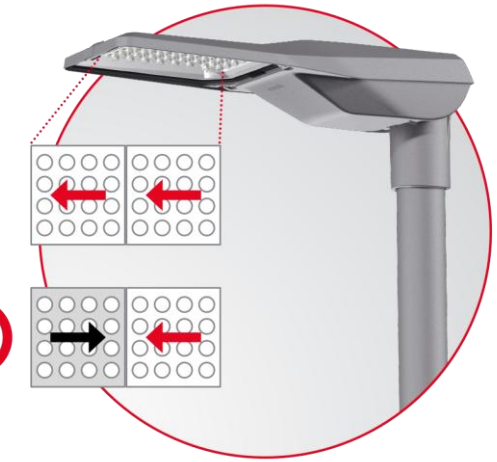
The perfect solution for every geometry and every environment – developed and manufactured in Traunreut.

Quantum leap lighting technology.



Rotation

of reflectors and lenses



Combination and/or Rotation

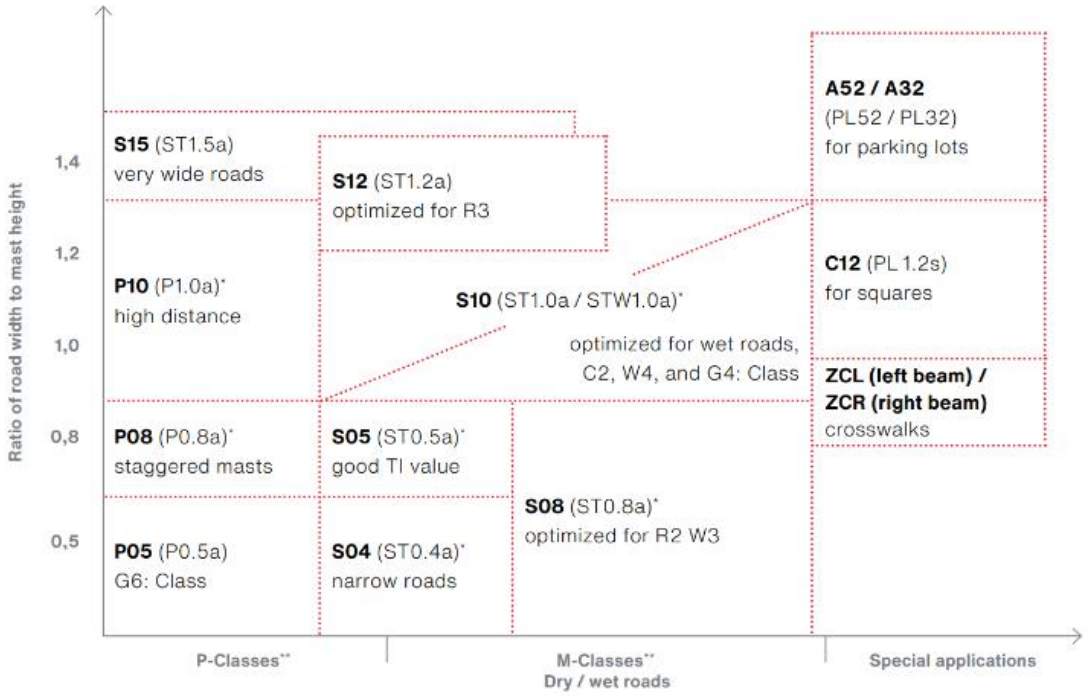
of reflectors or lenses

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SITECO Optic guide:
Overview about standard light distributions

New optics designations: in bold
Former designations: in brackets



* also available with symmetrical light distribution
** according to EN13201 classification

Note: For easier reference, this overview shows only the short optics designations, which outline the application and the ratio of road width to mast height. The available optics variants available for the individual product families can be found in our electronic product catalog.



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SL 11 iQ

Lighting that puts your city ahead.



QUANTUM LEAP
STREET LIGHTING.

Made in
Traunreut

Quantum Leap. Street Lighting.

Performance.

More efficient. Lower costs.
Best in class: Probably the world's most efficient electronic control gear (ECG).
Radically simplified replacement of ECG and LED module with SITECO iQ Easy-Change.

Intelligence.

Comfort today. Ready for tomorrow.
Thanks to open interfaces (SITECO iQ Smart-Interface) and intelligent functions (SITECO iQ).

Precision.

Targeted light. Impact exactly where it's needed.
Configurable optics. Precise light shields.

Sustainability.

Conserve resources. Secure the future.
Naturally intelligent lighting for maximum environmental protection. Redesigned packaging concept. Made in Traunreut

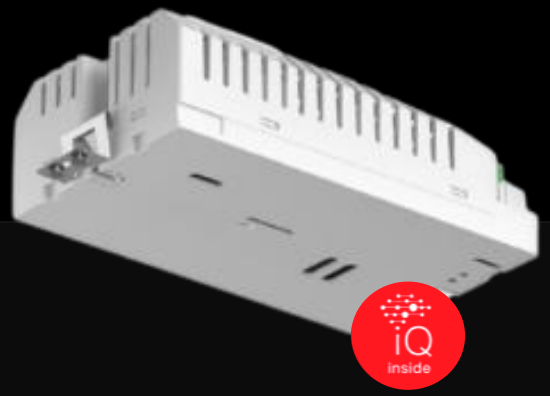
Flexibility.

The right solution. For every need.
Different performance packages. Flexible control options. Future-proof modular housing design.

QUANTUM LEAP PERFORMANCE

Save more. In every operating mode.

Probably the world’s most efficient electronic control gear (ECG):



The SITECO iQ ECG combines best-in-class operating efficiency with minimal energy consumption in standby mode – for maximum savings in every operating mode.

Only 0.24 W power consumption
in standby mode

7% more efficient when dimmed
than at full operating mode

70 lm / 1 W minimum light output
when used with motion sensors

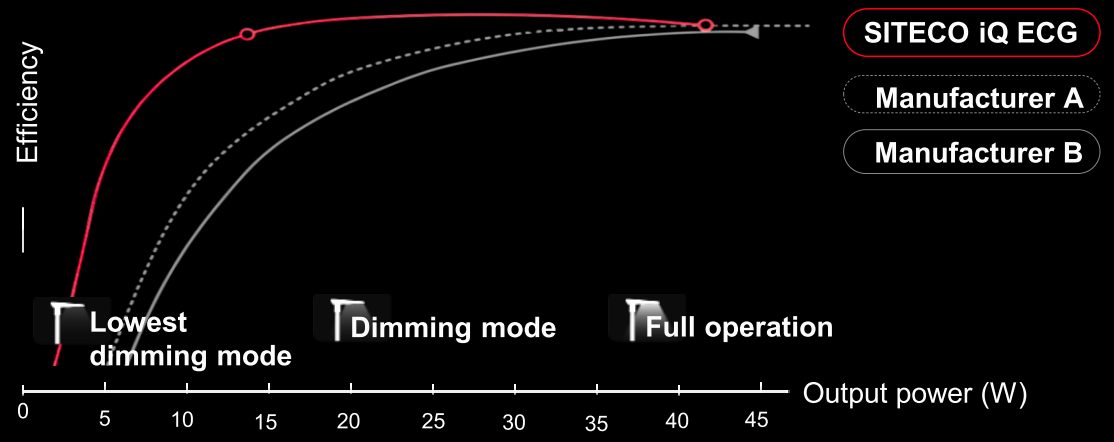
QUANTUM LEAP PERFORMANCE

Save more. In every operating mode.

Probably the world's most efficient electronic control gear (ECG):

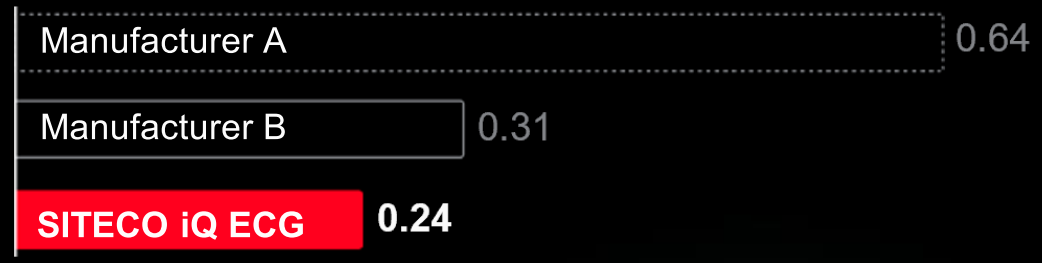
Highest efficiency in dimming mode.

Absolutely and compared with other manufacturers.



Minimal standby power.

Maximum energy savings.



Sustainability through efficiency.

- Conserve resources.
- Save energy.
- Secure the future.



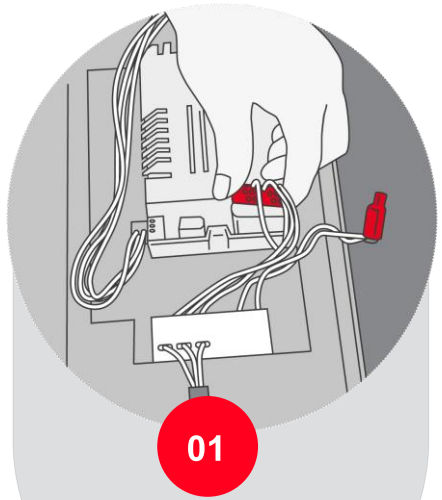
QUANTUM LEAP PERFOMANCE

Component replacement. Reimagined.

From zero to operational in seconds

New

SITECO iQ Easy-Change



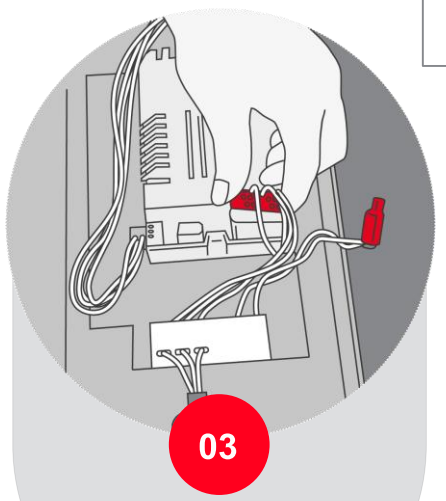
01

Disconnect the plug.



02

Exchange ECG tool-free.



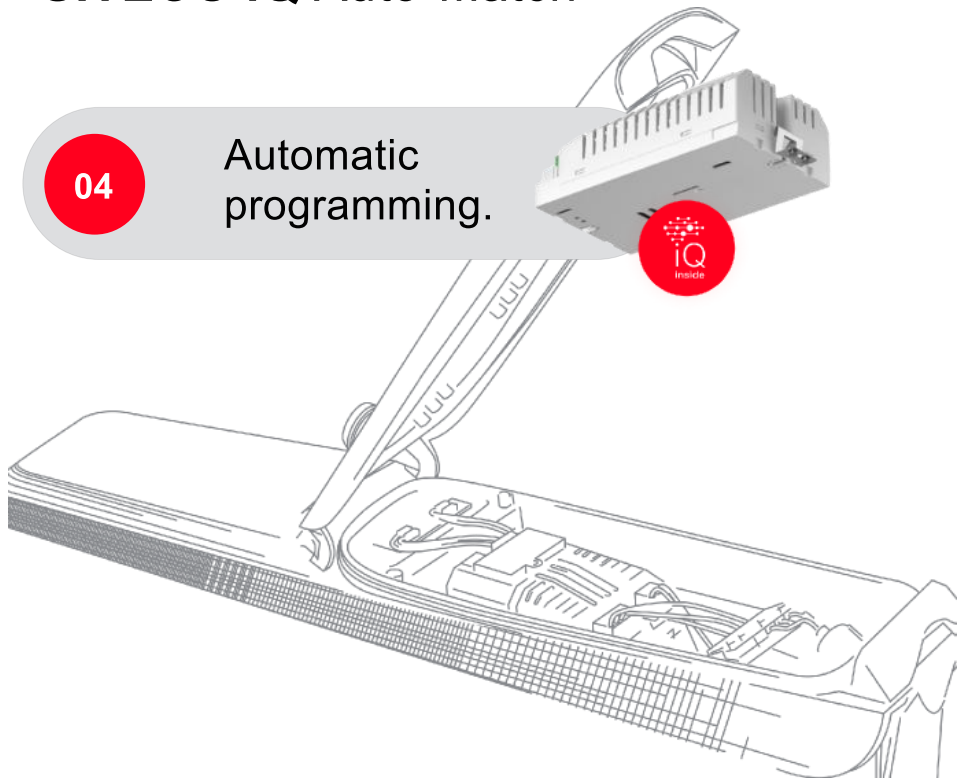
03

Reconnect the plug.

SITECO iQ Auto-Match

04

Automatic programming.



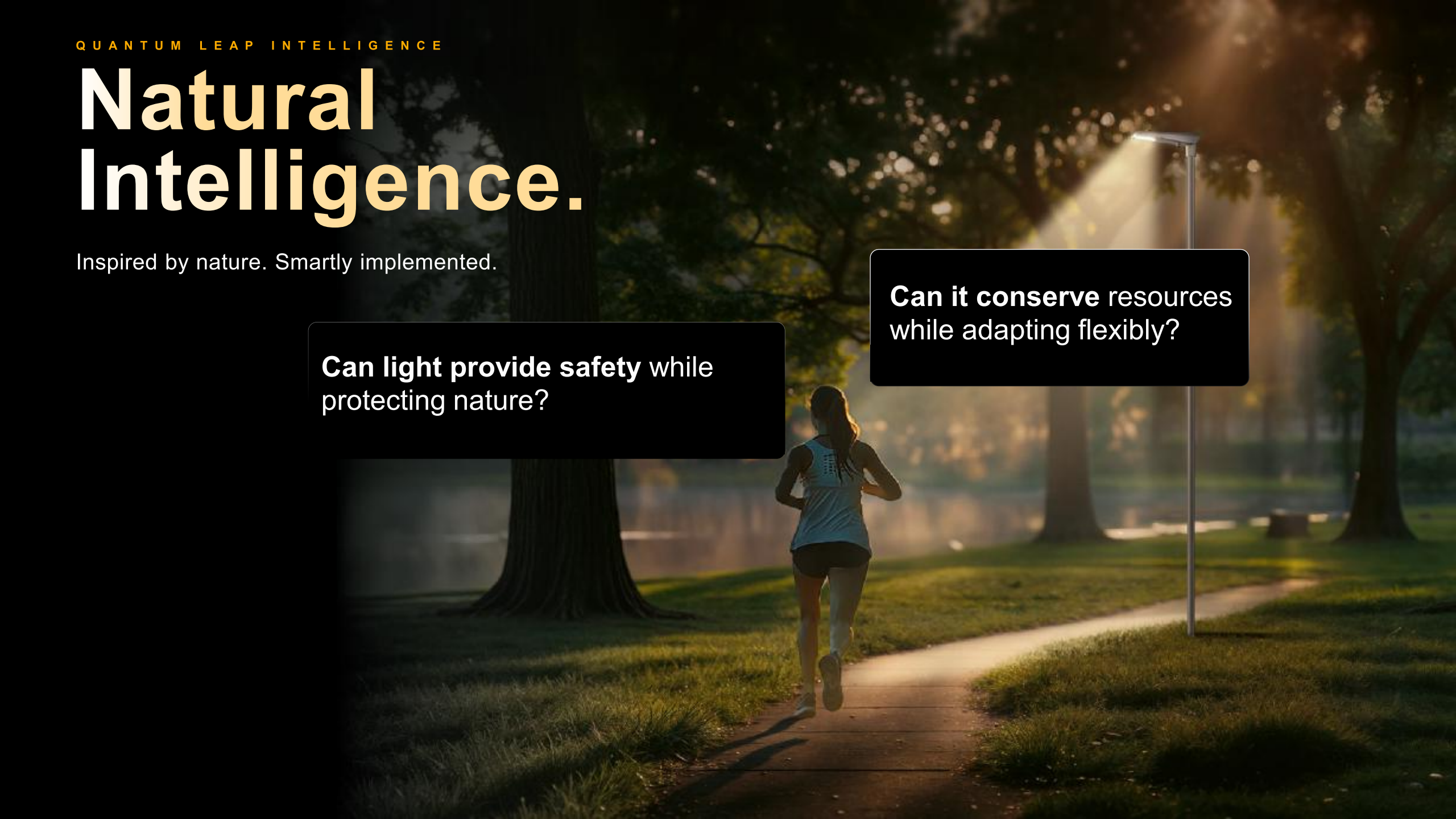
QUANTUM LEAP INTELLIGENCE

Natural Intelligence.

Inspired by nature. Smartly implemented.

Can light provide safety while protecting nature?

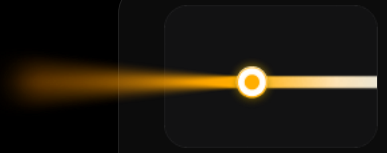
Can it conserve resources while adapting flexibly?



QUANTUM LEAP INTELLIGENCE

Natural Intelligence.

Inspired by nature. Smartly implemented.



Automatically adjustable light colours for lighting tailored to the application, time of day and season.

Variant 1

2,2000 K | 2,700 K | 3,000 K | 4,000 K

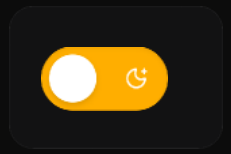
Variant 2 New

for particularly sensitive applications.

1,800 K | 2,200 K | 2,700 K | 3,000 K



Ideal luminaire design and precise lighting technology, including environmental shields, for light exactly where it is needed. No tilting. No unnecessary light emissions. No additional attraction for insects.

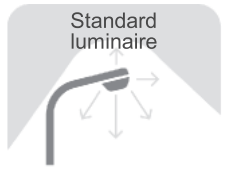


Intelligent sensors for light only when it is needed. Demand-based, flexibly adaptable and ready for changing requirements.

QUANTUM LEAP PRECISION

Zero upward light.

Full impact where it matters

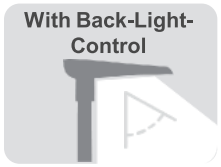




Dark Sky.

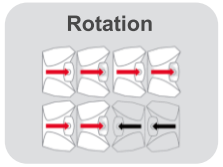
No light spill at 0° tilt.

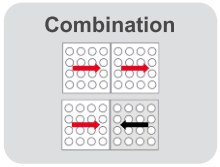




Glare control.

Exceptionally precise light distribution.





1 Million Possibilities.

Our optics offer maximum flexibility – combinable and/or rotatable for precise adaptation to any road geometry.

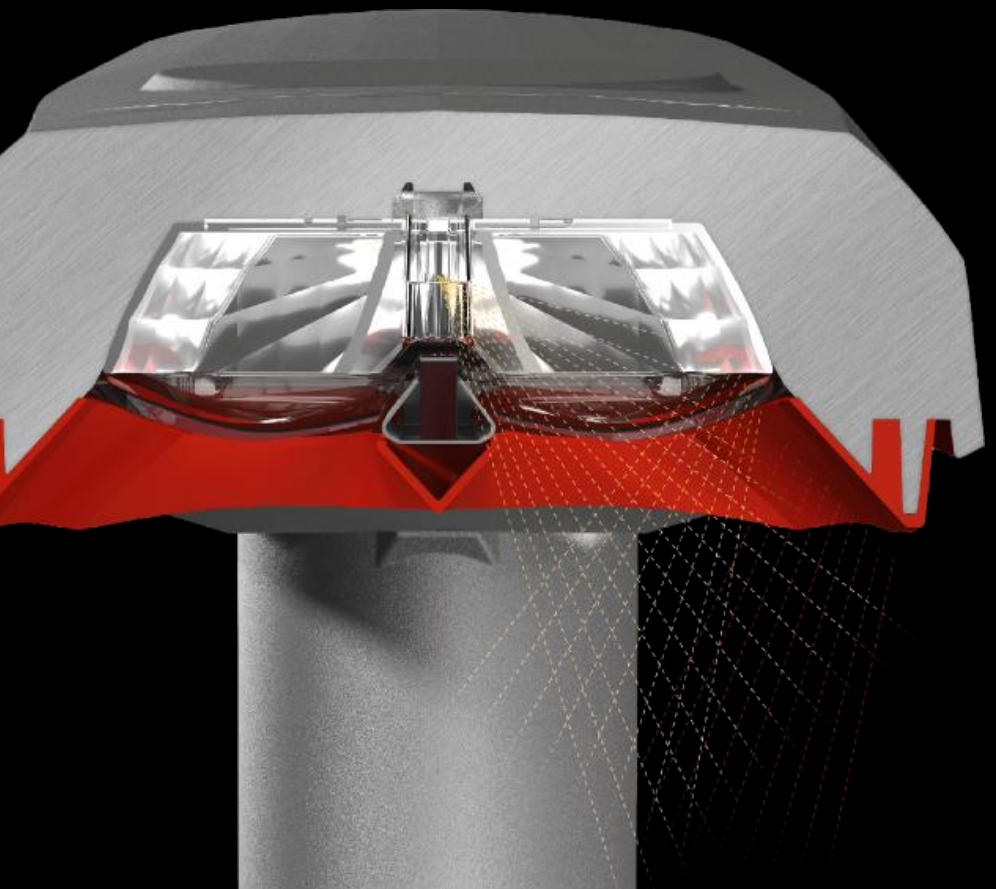


QUANTUM LEAP PRECISION

Controlled light distribution.

tool-free.
smart.
fast.

Protected habitats.





The visibility of light is a key factor in attracting insects.
In particular, light emitted at angles above 70° can increase this effect.

Our solution.

SITECO environmental shields with click-in system.

Light emitted at angles above 70° is specifically reflected onto the target area or absorbed, depending on the colour of the shield.

Red
Reflects light emitted at angles above 70°.



Black
Absorbs light emitted at angles above 70°.



Grey
Reflects light emitted at angles above 70°.

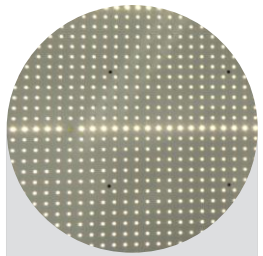


Tested down to the last detail.

Perfect in every respect..

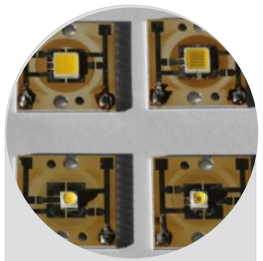
Countless tests. Zero compromise.

Only the best LEDs make the cut. Only the best LEDs shine.



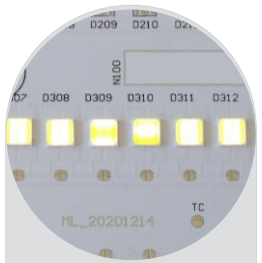
Leakage Current.

Tested for electrical stability.



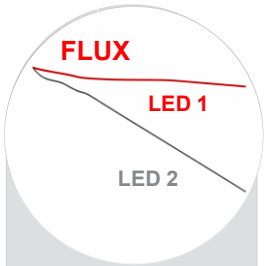
Browning.

Tested for material durability.



Chip Liftoff.

Tested for adhesion and structural integrity.



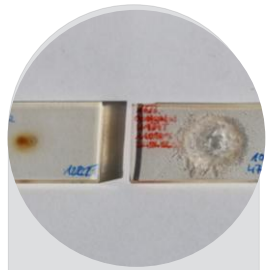
Flux Degradation.

Tested for consistent luminous flux.



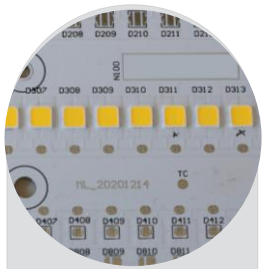
Colour-Shift.

Analysed for colour stability.



Optical Polymers.

Tested under extreme conditions.



Total Failure.

Approved only with full performance.

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Made in
Traunreut





Plastic-free packaging

QUANTUM LEAP SUSTAINABILITY

100 % Responsibility. Every day.

100 % **Modular product** and spare parts concept.

100 % **Replaceable components** throughout.

100 % **Consistent –** from the core to the packaging.

100 % **In-house** development and manufacturing.

QUANTUM LEAP FLEXIBILITY

More Options.

No compromise.



SL 11 Micro



SL 11 Mini



SL 11 Midi

Technical data

	SL 11 Micro	SL 11 Mini	SL 11 Midi
Luminous flux*	**from 1.100 to 1.500 lm**	**from 2.100 to 8.800 lm**	**from 6.400 to 18.900 lm**
Power	**up to 22,9 W**	**up to 51,2 W**	**up to 108,7 W**
Luminous efficacy	**up to 168 lm/W**	**up to 180 lm/W**	**up to 177 lm/W**
Rated service life	**over L97 after 100.000h**	**over L97 after 100.000h**	**over L97 after 100.000h**
Lightpoint heights	**3 to 6 m**	**4 to 8 m**	**6 to 12 m**

Recommended applications:
Collector roads, residential streets, cycle paths, public squares

Recommended applications:
Collector roads, residential streets, cycle paths, public squares

Recommended applications:
Collector roads, residential streets, cycle paths, public squares, conflict zones

***Higher lumen packages** upon request.

Maximum luminous efficacy of up to 185 lm/W

QUANTUM LEAP FLEXIBILITY

More Options.

No compromise.

The right performance. For every requirement

Efficiency	Optimised for efficiency.
Power	Higher luminous flux for more demanding applications.
High-Power	Maximum performance (via configurator).

SL 11 iQ is available in three performance levels – ensuring the solution is not oversized, but precisely matched to your needs. For greater operational efficiency and planning certainty.

Pre-assembled for speed. Supplied separately for flexibility.

The spigot is either...

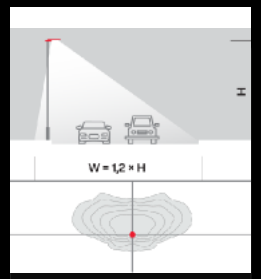
- ✓ **... pre-assembled**
  For extremely fast and straightforward on-site installation.
- ✓ **... available as accessoire**
  Enables maximum mechanical flexibility for on-site adjustment.

For less effort and significantly greater flexibility in project planning and on-site inventory management.

QUANTUM LEAP FLEXIBILITY

1 Million possibilities.

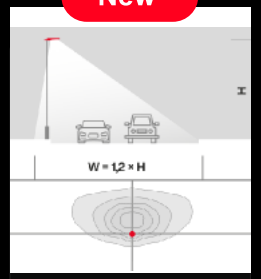
The right fit for every application.



S12 (ST1.2a)

For normal streets

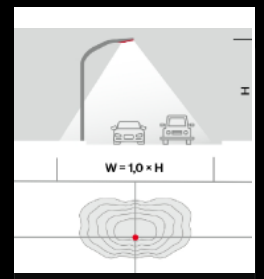
New



S120020 (ST1.2ST1.0)

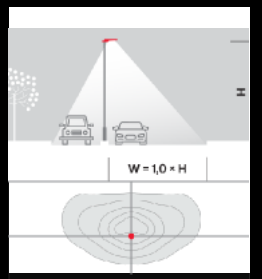
For normal and wide streets.

Asymmetric wide distribution



S050002 (ST0.5ST0.5)

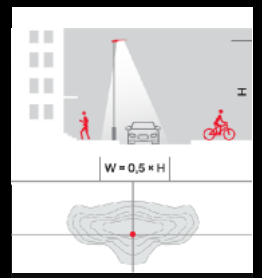
For normal streets with a swan-neck pole.



S100008 (ST1.0ST0.5)

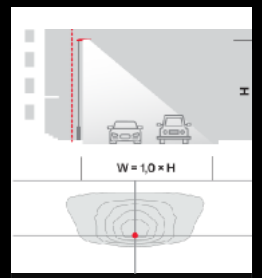
For normal streets with a narrow (residential) street or (cycle) path behind the luminaire.

SL 11 iQ – standard light distributions.



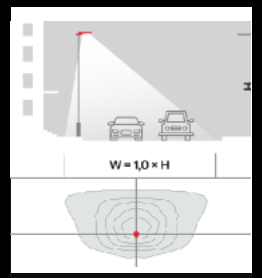
S05 (ST0.5a)

For narrow streets.



S10 (ST1.0a)

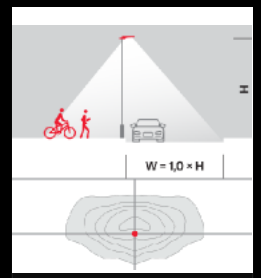
For normal streets.



S10B (ST1.0aBLC)

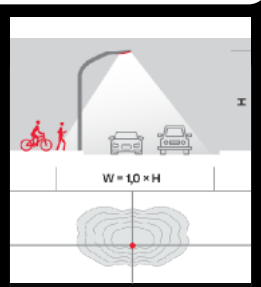
For normal streets, with Back-light-Control cover (BLC).

Asymmetric wide distribution



S100007 (ST1.0P1.0)

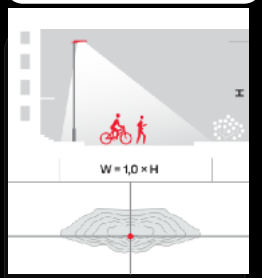
For normal streets with a footpath / cycle path behind the luminaire.



S120007 (ST1.2P1.0)

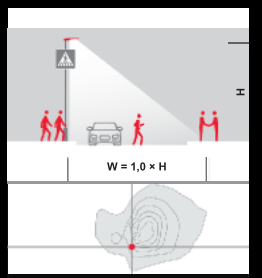
For normal streets with a narrow (residential) street or (cycle) path behind the luminaire.

Asymmetric extremely wide distribution



P10 (P1.0a)

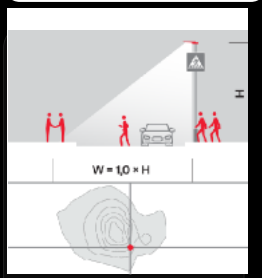
For normal streets, (cycle) paths.



ZCR (PC-R)

For pedestrian crossings, wide asymmetric light distribution to the right.

Asymmetric left/right wide distribution

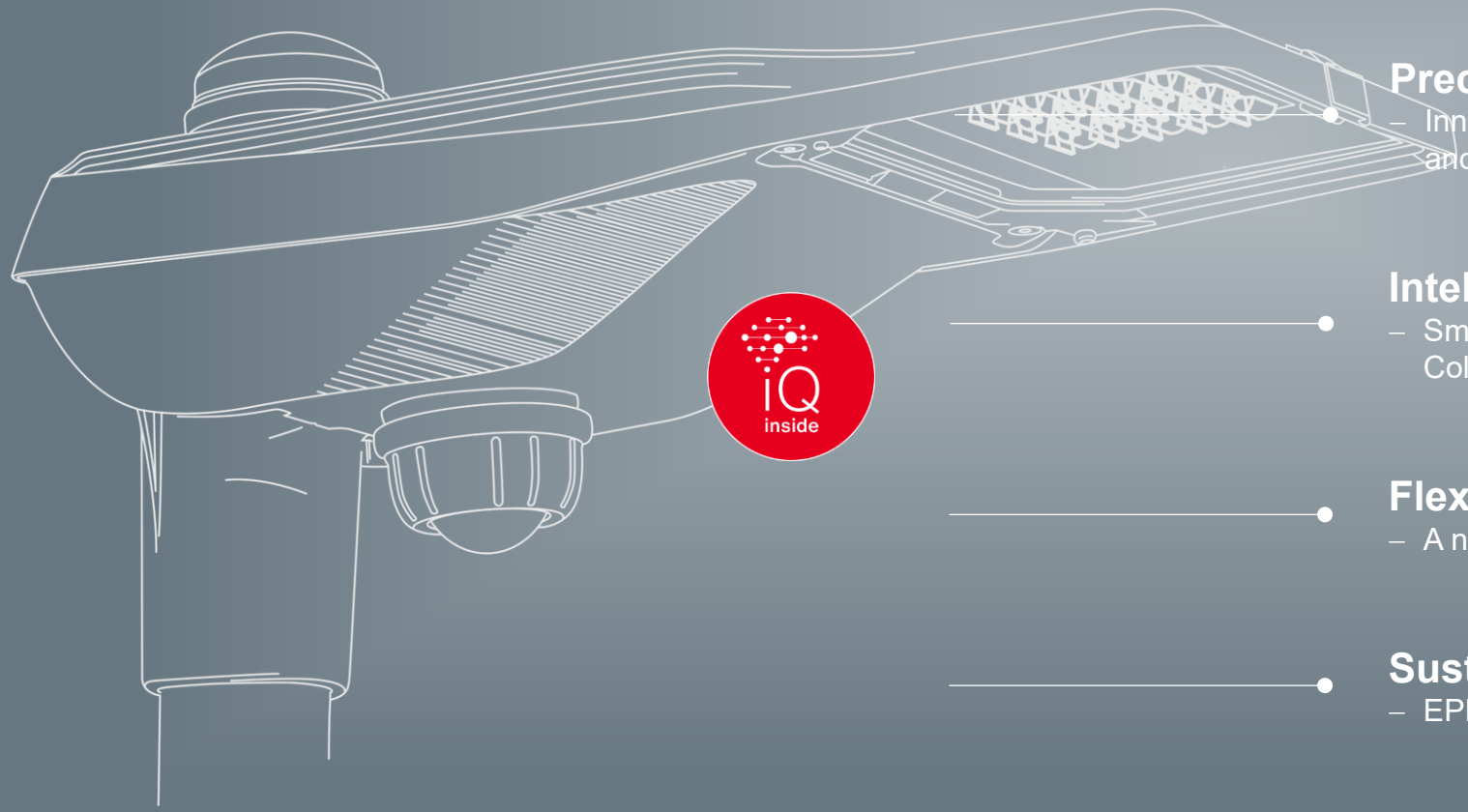


ZCL (PC-L)

For pedestrian crossings, wide asymmetric light distribution to the left.

SL 21 iQ Update.

Ahead in …



Performance.
– Maximum efficiency and optimized component replacement.

Precision.
– Innovative new lighting technology with high-performance LEDs and highly optimized PMMA lens technology.

Intelligence.
– Smart iQ control with switchable light distributions, combined with iQ Colour Switch (1,800 K–3,000 K)

Flexibility.
– A new level of flexibility in light distributions and light colors.

Sustainability.
– EPD-certified product – Made in Traunreut.

siteco

CL 21 iQ.

One family. Endlessly urban.



QUANTUM LEAP
URBAN LIGHTING

Made in
Traunreut

CL 21 FAMILY

CL 21 iQ



Flexible. A perfect fit for every application.

Sustainable. A radically simple spare parts concept. Every component is replaceable.

Precise. Perfectly matched optics for precisely directed light.

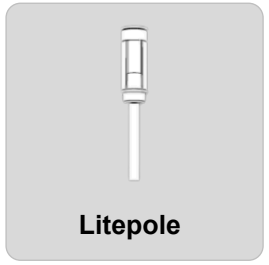
Intelligent. SITECO iQ intelligence built in. Smart City-ready with Zhaga-D4i interfaces.

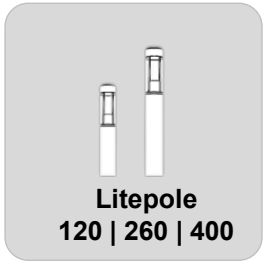
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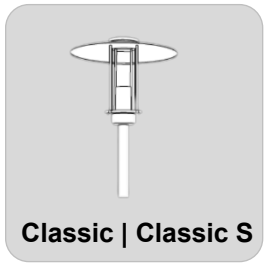
Urban Light. Systematic by Design.

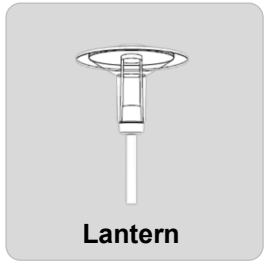
Housing variants


Mushroom


Litepole


Litepole
120 | 260 | 400

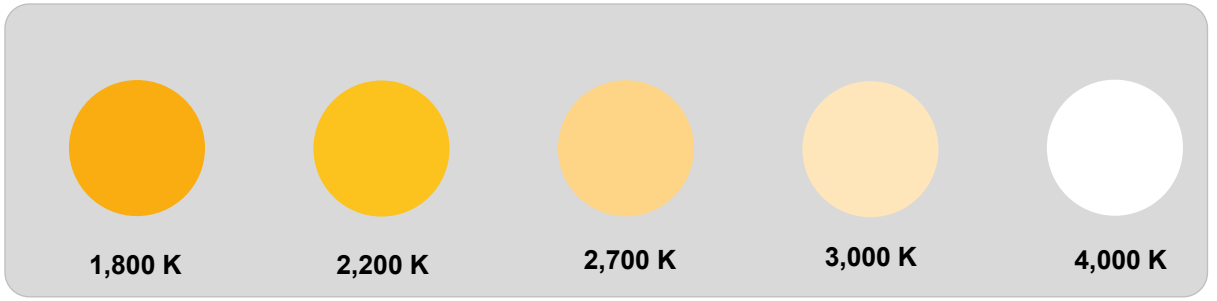

Classic | Classic S


Lantern


Modern

Light Colours

Versatile light colours for every application.



Lumen Packages



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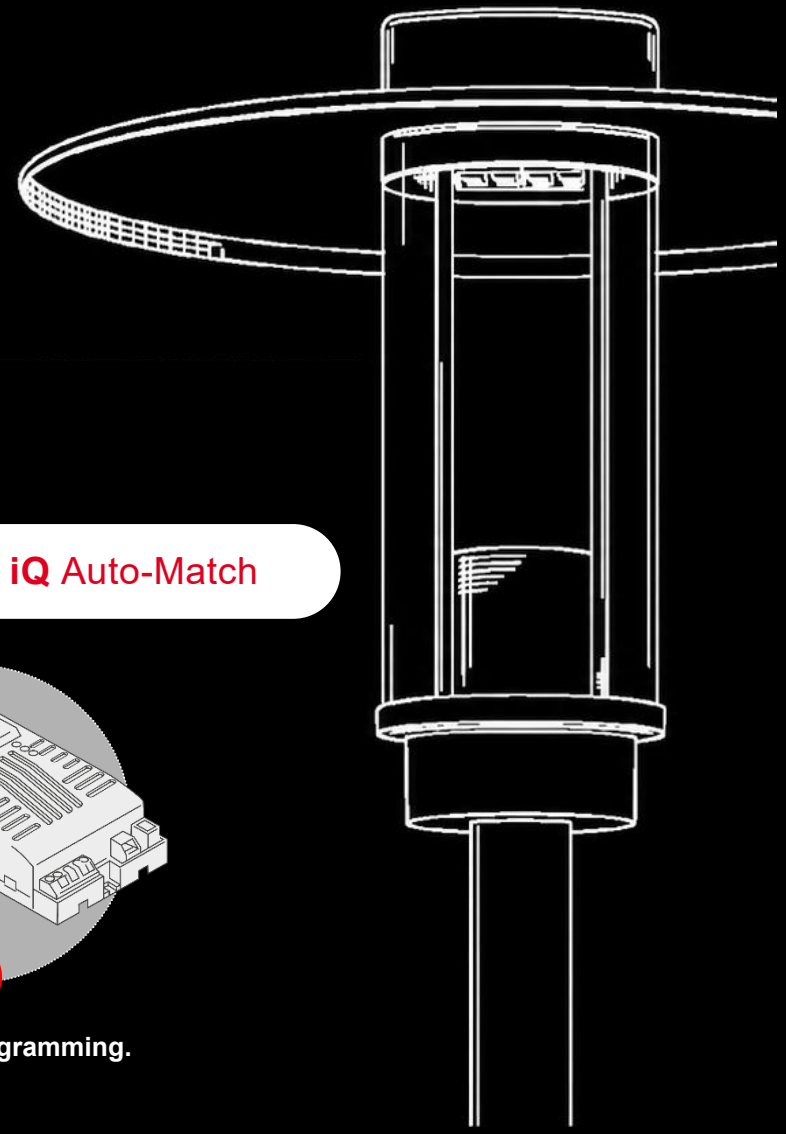

Application example
AI MODIFIED

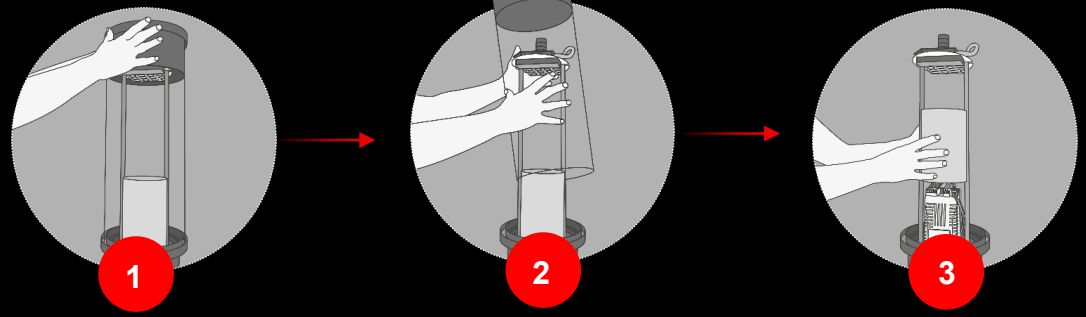
SITECO iQ EASY-CHANGE

Component Replacement, reinvented.

From zero to operational in seconds.

Easy.
Tool-free.
No specialist required.

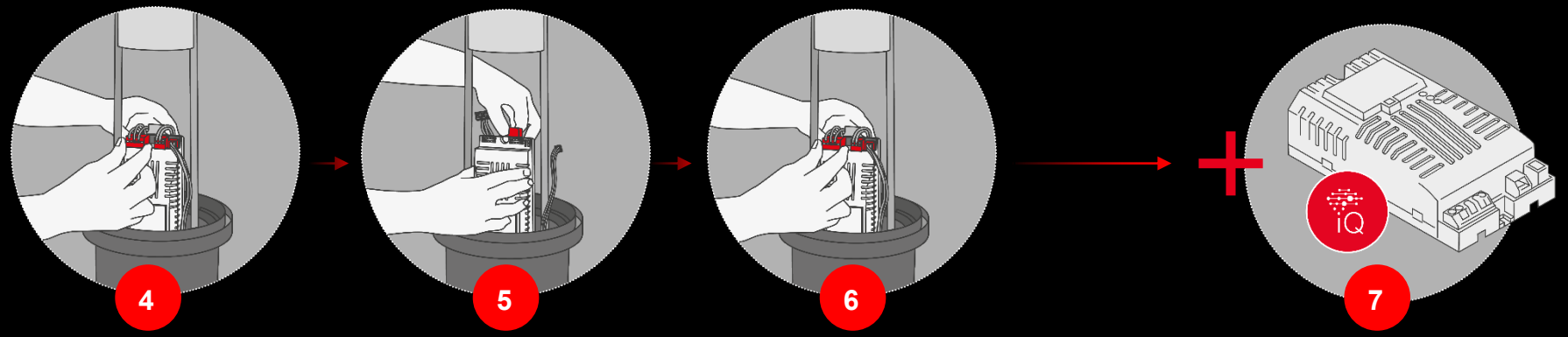




1. Open the luminaire.
2. Remove the cover.
3. Slide ECG cover upwards.

New **SITECO iQ** Easy-Change

SITECO iQ Auto-Match



4. Disconnect the plug.
5. Replace the ECG tool-free.
6. Reconnect the plug.
7. Automatic programming.

Built for the Future.

Intelligence included.





SITECO iQ.
Smart control.
Effortless operation.

Smart-Interface
Open by design.
Ready for anything.

i

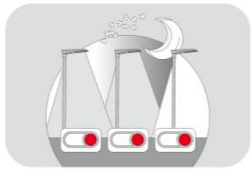
Technology integrated.
Design preserved.
The Zhaga interface is seamlessly integrated into the luminaire top.



Desk - Remote



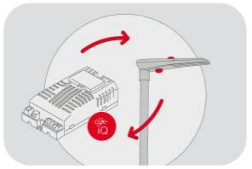
Street - Remote



Night - Set



Smart - Wire



Auto - Match

CL 21 BLACK EDITION

100% Visibility.
100% Dark Sky.

Light for people and nature.



Dark Sky compliant

No upward light. ULOR 0%. Dark skies.
Warm light: Max. 3,000 K. Preferably 2,700 K to 1,800 K.
Continuous dimming: Down to 10% or less.
Less spill light. Less light intrusion. Thanks to optional shielding.

Responsibility

No light stress. Less disturbance.
More protection for wildlife.

Safety

Precision light control. Clear visibility.
Better orientation. Compliant lighting.

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SPECIFICATIONS

Your Options.

Applies to all CL 21 Variants.



CL 21

Maximum luminous efficacy of up to 160 lm/W*

Technical Data

Luminous flux	**from 1.800 lm to 5.200 lm***
Luminous efficacy	**up to 160 lm/W***
Lightpoint heights	**4 – 6 m**
Rated service life:	**up to 100.00h (L97/B10)**

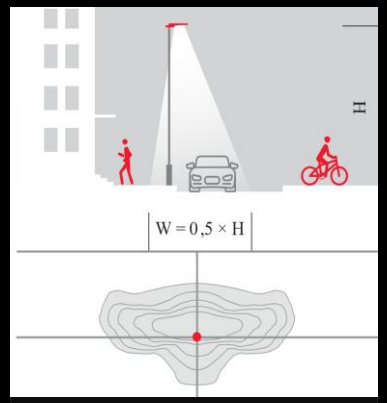
Ingress protection	**IP 66**
Impact resistance	**IK06, IK07, IK10**
Light colour	**1,800 K | 2,200K | 2,700K | 3,000K | 4,000K**
Optics	**Lens technology, optionally with Backlight Control (BLC), lateral shielding or house-side shielding**
Controls	**SITECO iQ Street-Remote | iQ Smart-Interface**

* **Preliminary values** – subject to technical changes.

LIGHTIN TECHNOLOGY

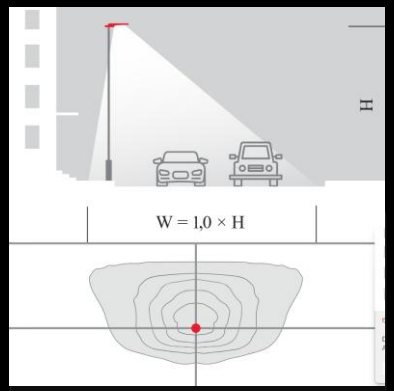
1 Million Possibilities.

The perfect fit for every application.



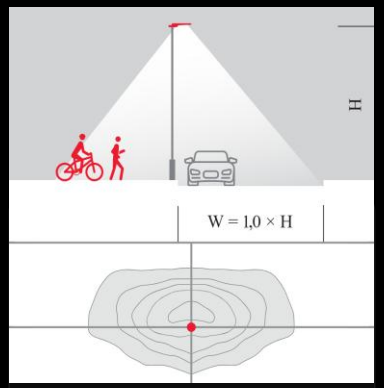
S05 (ST0.5a)

For narrow streets



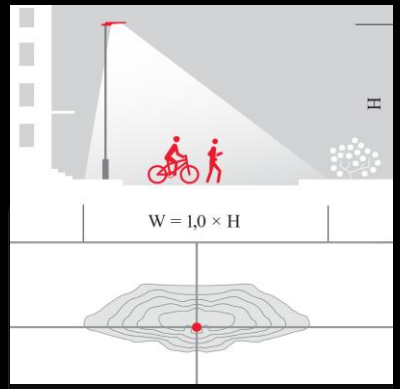
S10 (ST1.0a)

For normal streets



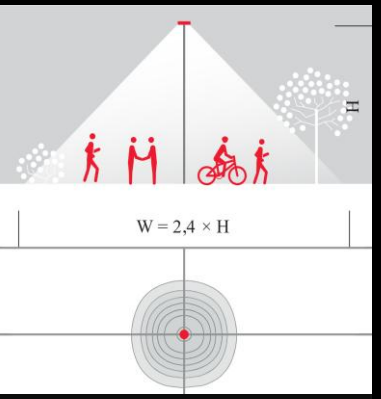
S100022 (ST1.0P1.0)

For standard roads with a rear-side footpath or cycle path



P10 (P1.0a)

For standard roads and (cycle) paths

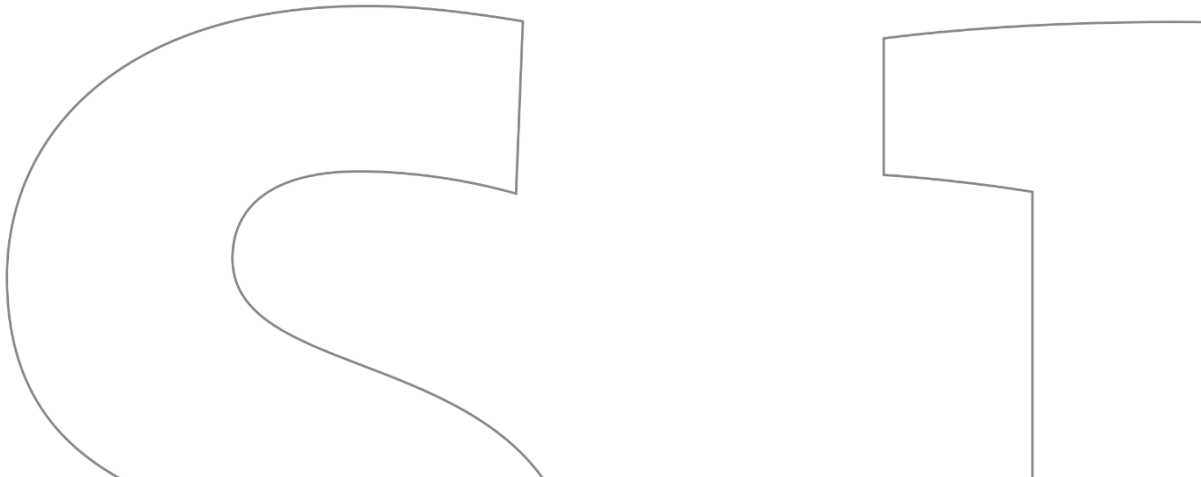


C12 (P1.2s)

For public spaces

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Thank you!



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