

SIRIUS®

Powerful light

The robust floodlight for uniform and efficient illumination of industrial sites and airport aprons

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The best light for the best working conditions

Powerful and efficient with optimum glare reduction: SIRIUS® combines cutting-edge lighting technology and incredible resilience in a powerful, consistently reliable lighting system for industrial use.

The benefits of SIRIUS® can be seen even at the installation stage: data is transferred automatically between the LED module and control gear, enabling easy arrangement within the installation process. In addition, the supply unit can be installed flexibly at a distance of up to 150 m.

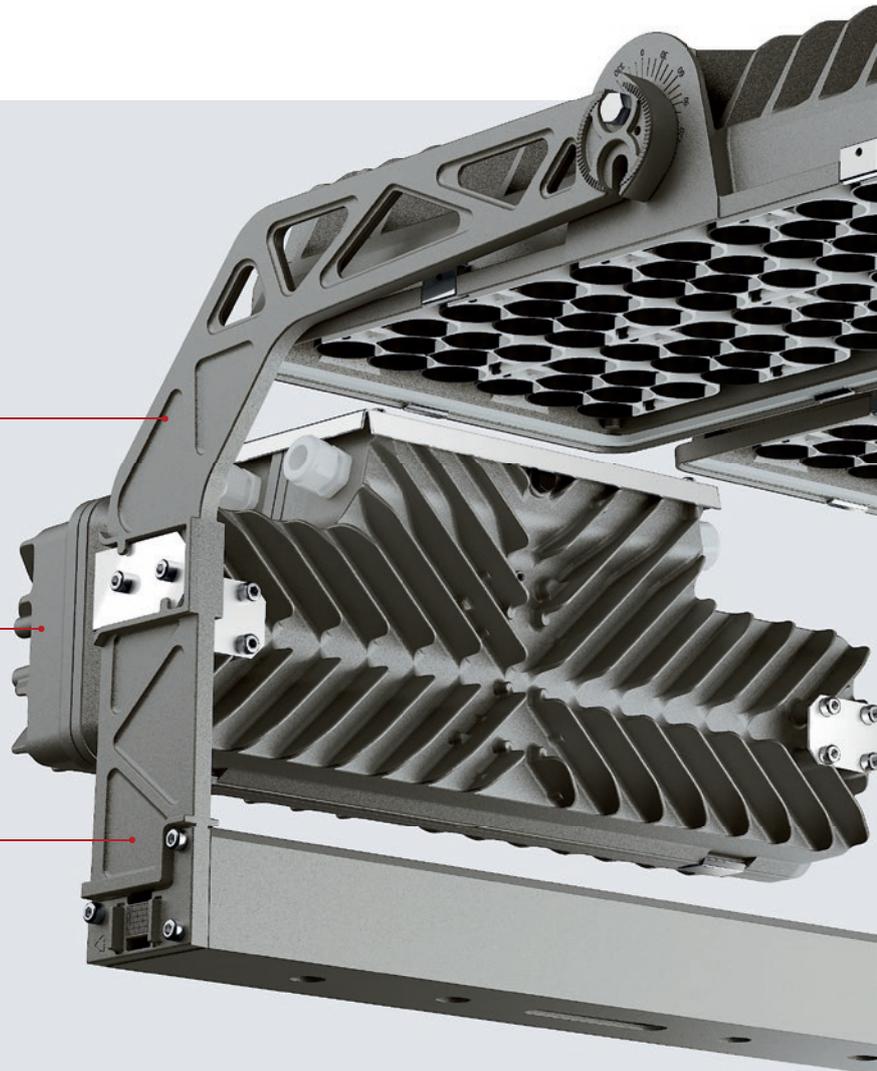
The CLO 2.0 solution patented by SITECO for temperature-sensitive constant lumen output control is yet another strength of the high-performance floodlight, delivering low power consumption and a long lifespan of the LEDs.

SIRIUS® also simplifies maintenance planning thanks to predictive maintenance functionality—a function for early recognition of operating errors, which allows uninterrupted continuation of operation.

Perfect visibility
maximum glare reduction
owing to full-cut-off technology

Low power consumption and long lifespan
thanks to temperature-sensitive constant
lumen output control with CLO 2.0

Simplified maintenance planning
due to predictive maintenance functionality





Energy-efficient

-40% energy compared to traditional HIT lamps



Temperature-resistant

- Outdoors up to +55 °C, cold-resistant to -30 °C
- Indoors up to +45 °C, cold-resistant to -30 °C

At a glance

- Up to 291,000lm at 4000 K rated luminous flux, net value from the luminaire
- Performance level of up to 150lm/W
- Rated service life of up to 50,000 hours
- Light color in 4000 K, 5000 K and 5700 K
- Glare reduction of up to UGR 10/12
- 10 light distributions (asymmetrical, rotationally symmetric)
- Low network load: starting current of 16 A at 230 V/50–60 Hz
- Silver reflector with outstanding optical efficiency
- Asymmetrical glass lenses with long-term stability



Higher lighting level and quality
as direct replacement for classic floodlights

Significant reduction in the number of floodlights
compared to the market standard

Highly efficient
thanks to integrated silver reflectors

Extremely robust
high vibration stability (tested with more than 520,000 strokes), dust-protected and waterproof (IP66), extremely high impact resistance of IK10, protection rating of I

Technical sophistication: Only the best is good enough

High performance and light quality

With SIRIUS®, you can efficiently replace traditional 2 kW floodlights: The previous illumination level can now be reached with fewer points of light. You also cut energy consumption by up to 40 percent. The rotationally symmetric lighting technology offers maximum glare reduction for drivers, pilots, passengers and workers. Uniform illumination of work and traffic routes enhances safety. Lighting intensity can be adjusted with DALI.

High-quality materials for optimum results

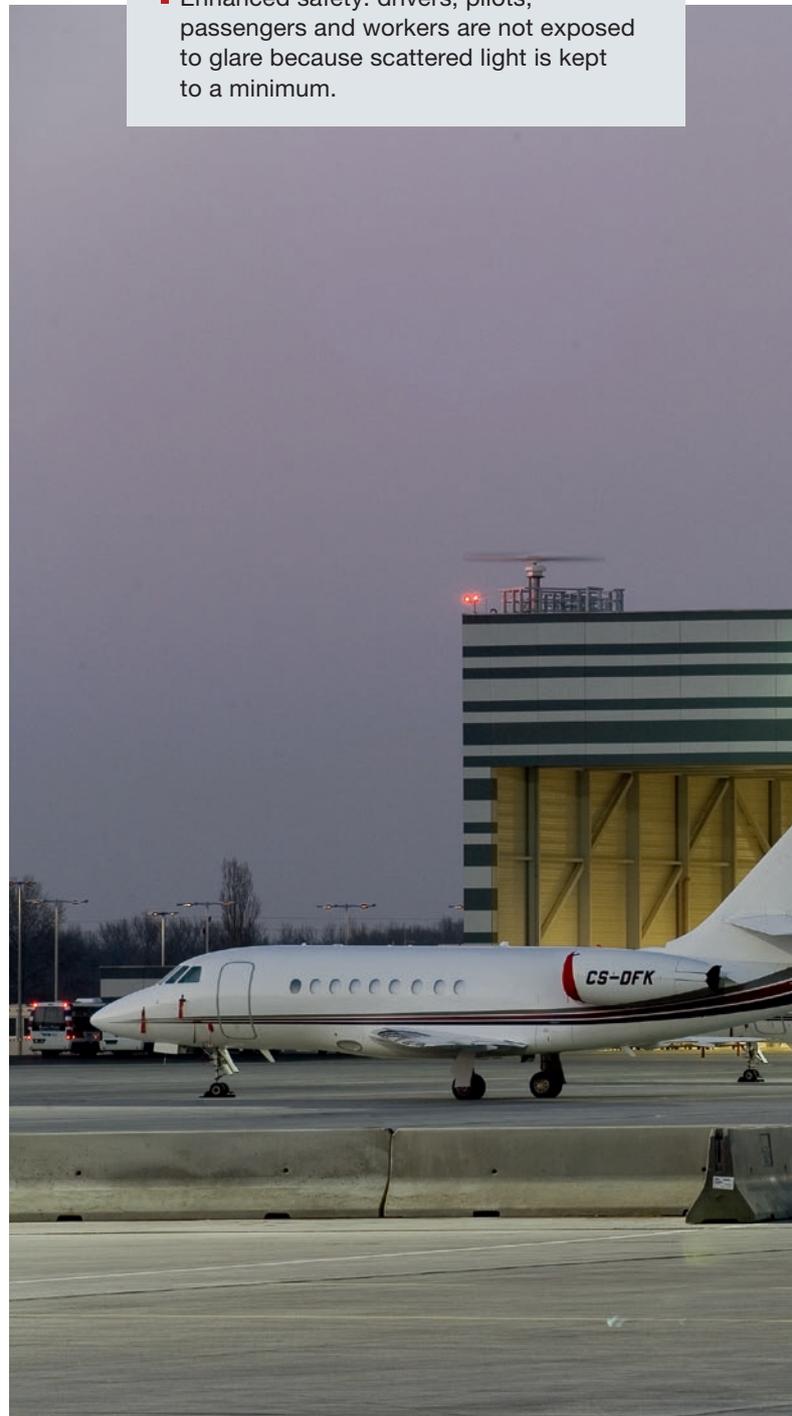
We deliberately chose to fit the SIRIUS® high-performance floodlights with high-quality silver reflectors to achieve an especially high level of reflection. Optical efficiency is enhanced by up to 95 percent as a result—a significant difference compared to aluminum-coated reflectors—thus also allowing the luminous flux to be increased. The efficiency of the lighting system is increased, while power consumption is reduced at the same time. Lighting can reach into the very depth of a surface with maximum glare reduction at the same time.

Powerful glass lenses for asymmetrical lighting technology

SIRIUS® is fitted with robust glass lenses for illuminating surfaces in the immediate area. The high quality of the material prevents yellowing of the lenses. The lighting level remains stable. The lenses can also be cleaned quickly and easily owing to their resilience. Compared to other materials, such as polycarbonate, the SIRIUS® glass lenses also offer high lens stability.

Scattered light is minimized— a major plus for traffic routes and the environment

- Thanks to SITECO's unique full-cut-off technology, scattered light is minimized and brightening of the night sky is effectively countered. Nature and neighboring areas are left undisturbed.
- Enhanced safety: drivers, pilots, passengers and workers are not exposed to glare because scattered light is kept to a minimum.



Innovative process: Simple installation and reliable maintenance

Intelligent installation

With the help of plug & play connectors, SIRIUS® can be quickly and easily installed. Data is automatically transmitted between the LED module and the control gear. This facilitates easy arrangement during installation. And the appropriate current feed and parameterization of the supply unit are likewise assured. What's more, LED module upgrades ensure you are well equipped for the future too.

Predictive maintenance

The predictive maintenance function helps you to keep a constant eye on the status of your floodlight system: the system predicts expected errors, thus ensuring failsafe operation of your floodlights. This is made possible by a specially programmed DALI command, which is used to read the operating data. As a result, an early response is possible and operations can continue to run smoothly.



Sustained efficiency: Low power consumption and long lifespan

Energy efficiency thanks to Constant Lumen Output 2.0 (CLO 2.0)

The Constant Lumen Output (CLO 2.0) function is an innovative system patented by SITECO for lighting control. In contrast to CLO, environmental conditions are also considered with CLO 2.0 in terms of control.

Integrated sensors measure the temperature, while the age and dimming capacity of the LED module are also taken into account. The control gear uses the data to adjust the current feed level individually.

The result is a constant luminous flux rather than constant current feed—with energy savings of up to 5 percent compared to the market standard.

The reason for this is that the low temperature allows the LEDs to operate more efficiently and deliver a higher luminous flux. In addition, the LEDs can be dimmed, which means that the floodlight system uses less energy while maintaining the same lighting level.

Example: CLO 2.0 reduces power consumption from 1720W at 25 °C to 1660W at 10 °C outdoors. The luminous flux remains constant however. An additional energy saving of four percent is delivered without any reduction in the lighting level.

Incredibly low maintenance

Apart from energy efficiency, SIRIUS® is also extremely resilient and low-maintenance. This makes it the ideal lighting solution in demanding everyday industrial use.

Advantages of CLO 2.0

- Significant energy savings
- Maximum performance and lifespan of the LED module
- Constant lighting level thanks to individual current feed (regardless of the age of the LED)

Reliable and strong

- **Long lifespan**
of the LEDs at up to 50,000 hours
- **Optimum thermal management**
special cooling fins increase the lifespan of the LED and supply unit additionally
- **Minimum inrush current**
particularly sparing with 16 A Softstart
- **Yellowing-proof lenses**
for high light quality over the entire lifespan
- **Robust glass cover**
for ease of cleaning
- **High vibration stability**
tested with over 520,000 strokes and IP66





Secure investment: For today and tomorrow

Simple maintenance and installation—when you opt for SIRIUS®, you are choosing a system designed for the future that saves money too thanks to its use of best-in-class technology:

- **Simplified maintenance planning**
due to predictive maintenance functionality
- **Ease of installation**
with plug & play, ESD-proof, directly on the floodlight
- **Flexible assembly of the control gear**
at a distance of up to 150m to the lighting head
- **Convenient installation**
automatic parameterization between the control gear and LED lighting head—the right current feed always
- **Convenient control**
DALI control, LST (50 %) dimming via jumper wire or as on/off installation

High performance that pays off



Up to **30 % more powerful**
than classic floodlights



Up to **40 % lower power consumption**
at the same lighting level

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