

siteco



Future Industry.

We take responsibility for your light –
lighting technology designed and engineered in Germany.



Shape the future
of industry.



Sustainability

Flexibility
Quality of life

Reducing costs is a common driver in the industrial sector.

Business sustainability and cost management are directly linked. In addition, companies must also focus on significantly reducing their CO₂ emissions. Few companies investigate the impact of their lighting on these areas. If they did, they would learn that advanced lighting technology enables dramatic CO₂ and cost reductions.

SITECO stands for exceptional lighting technology.

Save the power used by 6,500 single-family homes.

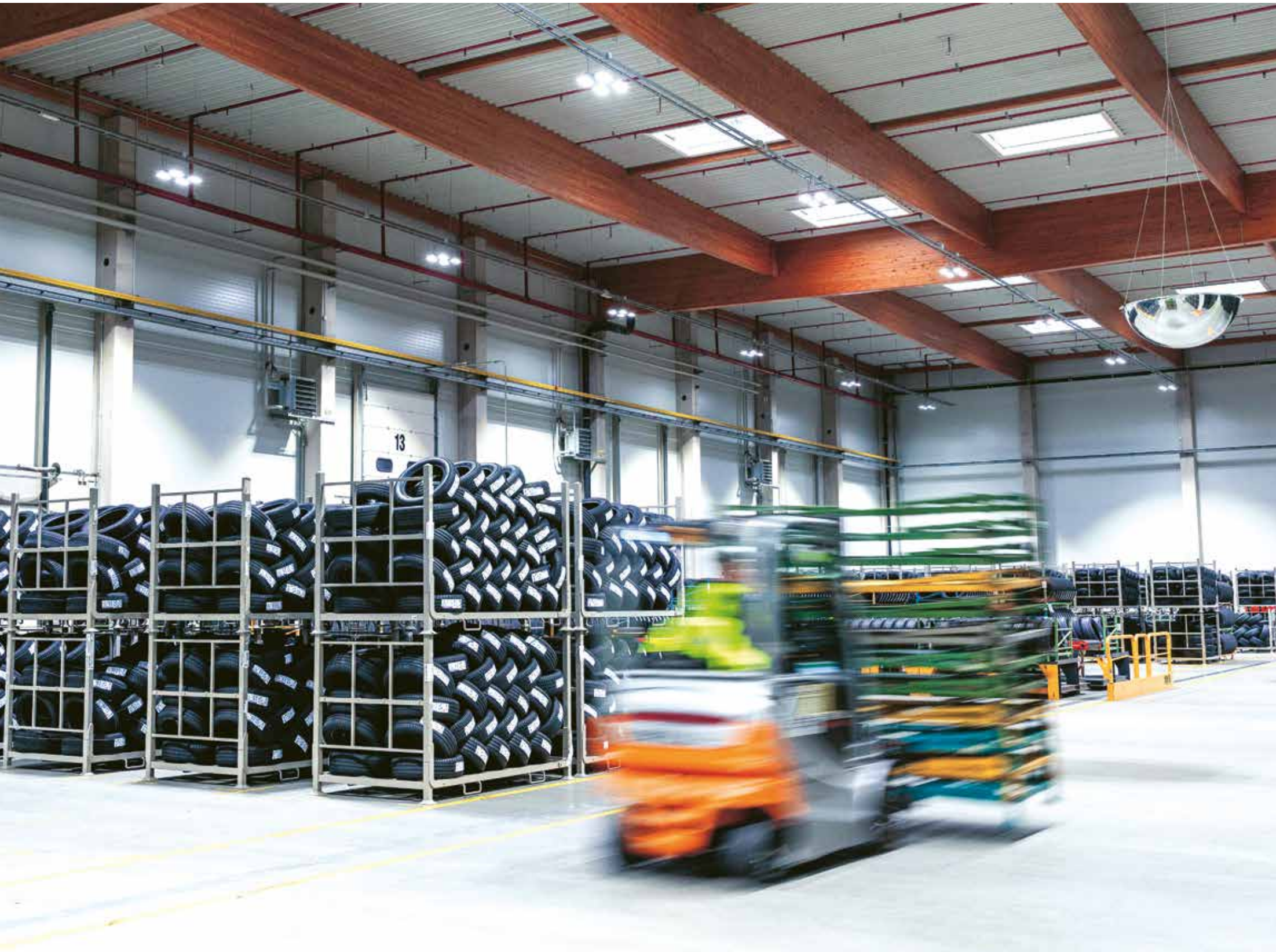
Our guarantee for the highest level of energy efficiency and lower operating cost: maximum system efficiency with up to 200 lm/W in combination with multi-lumen technology.

We use advanced Constant Lumen Output (CLO) to ensure consistent quality of light even when ambient temperatures fluctuate, and also prevent energy waste as a result of excess-planning. This leads to extremely short pay-back periods.

A well-known Bavarian car manufacturer recognized the potential of this approach and upgraded all its fluorescent tube lighting to SITECO LED technology. As a result, it made an enormous energy saving:

40 GWh/a
power savings





Discover unparalleled reliability and minimum operating costs.

SITECO luminaires are exceptionally reliable and durable. Even under the harshest environmental conditions thanks to resistance up to 70 °C ambient temperature. Our products are designed with ease of installation in mind, to reduce maintenance overheads and disposal costs. Our systems form the ideal foundation for plannable operating costs and low total cost of ownership (TCO) throughout the entire life cycle.

The Michelin warehouse in Bad Kreuznach is in operation almost 24/7. Lighting failure means shutdown. The ideal place for our reliable luminaires with a service life of up to

100,000^{hours}

If not now, then when.

Our specialists show you what's possible by analysing the specific conditions at your site.

Hand in hand with architects, lighting designers and electrical contractors, we translate your functional and design requirements into your ideal technical solutions – made tangible using state of the art visualization.

SITECO enables all scales, from pilot projects to a big step.

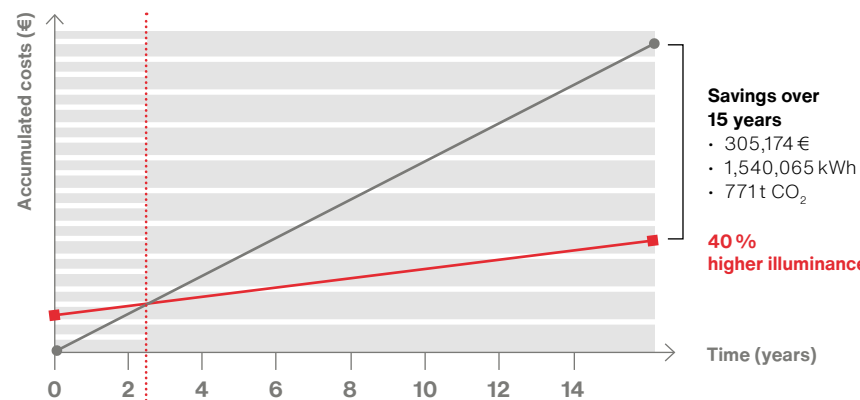
The SITECO audit provides complete transparency about the energy consumption and CO₂ emissions of your existing system.

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 – and completely clear thanks to our detailed TCO comparison calculation.

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

■ Licross® 9,000 lm
● 4 x 58 W-ECG



New Licross® system amortized in **2.4 years**

	Existing system	SITECO solution
Luminaire type	4x58W-ECG	Licross Recessed 9000lm
System configuration		
Illuminance EM [lx]	ca. 500 (WF 0,67)	ca. 700 (WF 0,88)
Luminaire rated power [W]	218	55,4
Energy consumption		
Energy consumption / year [kWh]	138.753	36.082
Energy consumption savings [%]	0	74 %
Investment costs		
Investment costs [€]	0	57.876
Energy costs		
Energy costs over system service life [€]	418.354	108.400
Energy costs saved in %	0 %	74 %
Maintenance costs		
Maintenance costs over system service life [€]	60.818	7.722
Maintenance cost savings [€]	0 %	87 %
Total Costs of Ownership (Investment costs + energy costs + maintenance costs)		
Total costs over system service life [€]	479.172	173.998
Total cost savings in %	0 %	64 %
Payback time in years	0	2,39
CO ₂ saving over system service life [t]	0	771

TCO Calculator is an application of Siteco GmbH - Germany © Siteco GmbH 2020.



Sustainability

Flexibility

Quality of life

Adaptability is the success factor in production and logistics.

A wide range of options in the technology available mean there are considerable risks in investment and making the right choice.

For production and logistics facilities, it's all the more important that the infrastructure offers flexibility and is intelligently designed. The basis of this is choosing systems that are highly adaptable, highly compatible and employ open source technology.

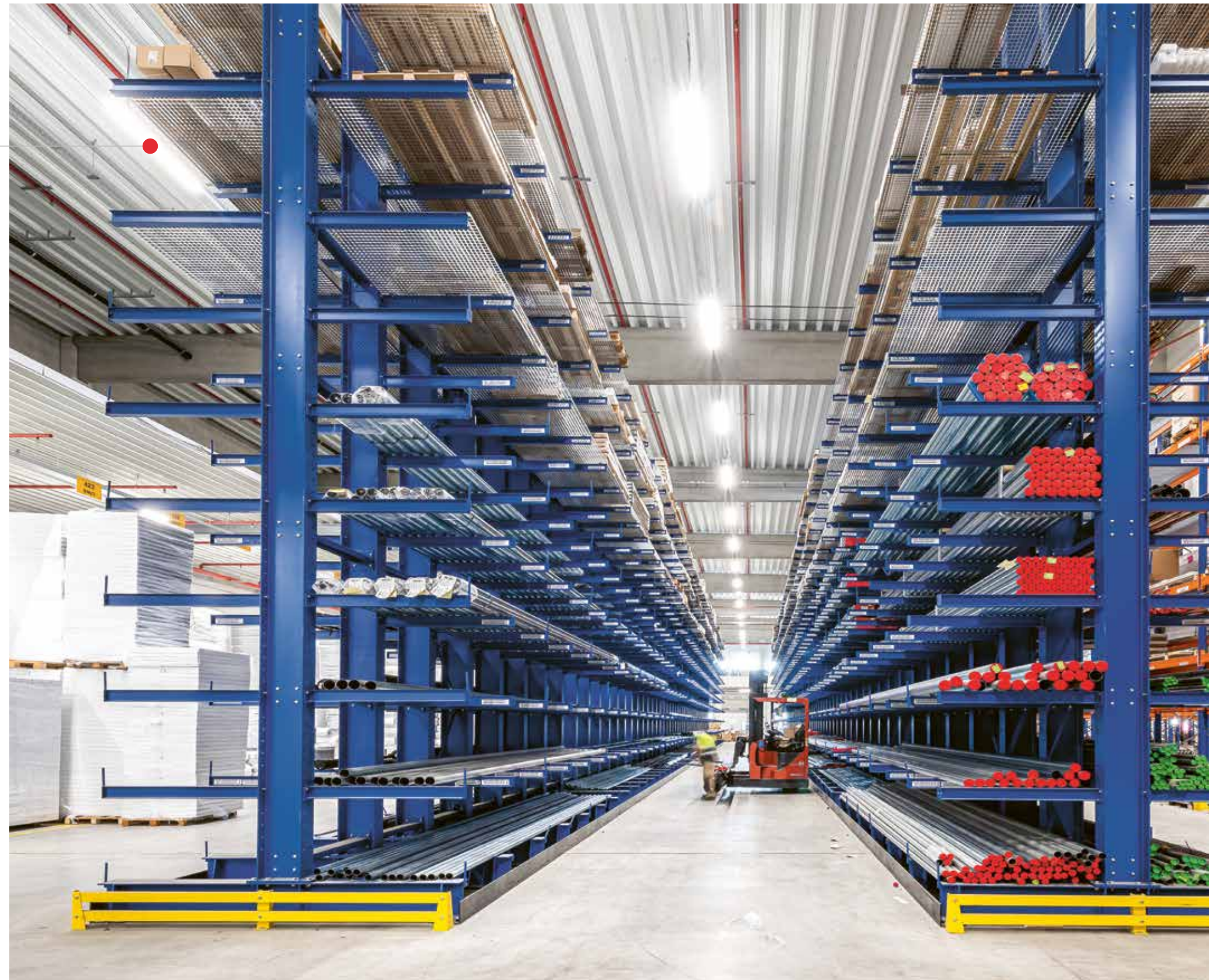
SITECO stands for intelligent lighting solutions.

Light from SITECO provides the necessary safety and flexibility for the future.

Compatibility with future needs could be easier than you thought.

Production today, highbay racking tomorrow. SITECO lighting solutions enable maximum options for alteration to accommodate changes in usage and environmental conditions. Our revolutionary trunking systems offer a variety of different luminaire inserts. Our customizing solutions provide even more individuality.

Our customers are ideally equipped for the future.



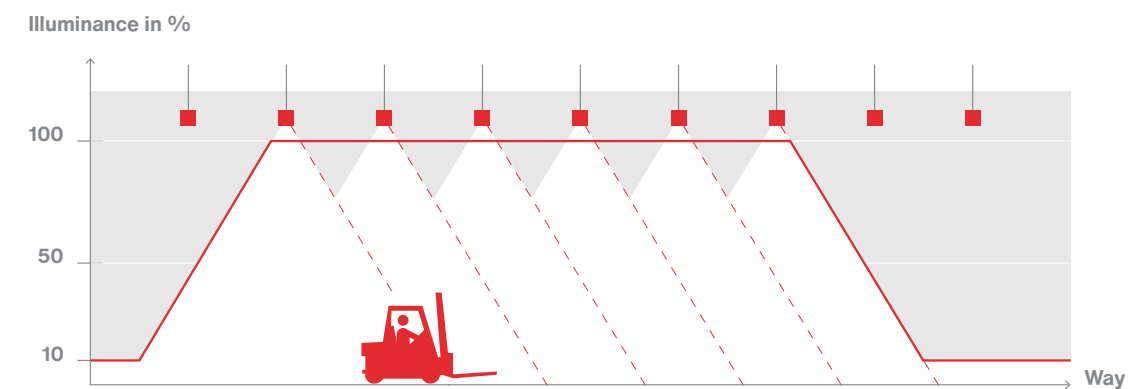


Uncovering the real value-add of digitization.

Networked lighting enables central control and real-time transparency of consumption and maintenance intervals.

Easily integrated sensor technology offers additional application options: from motion detection, optimization of ventilation and air conditioning systems to heat mapping of warehouse traffic for improving the flow of goods – a genuine plus in terms of efficiency.

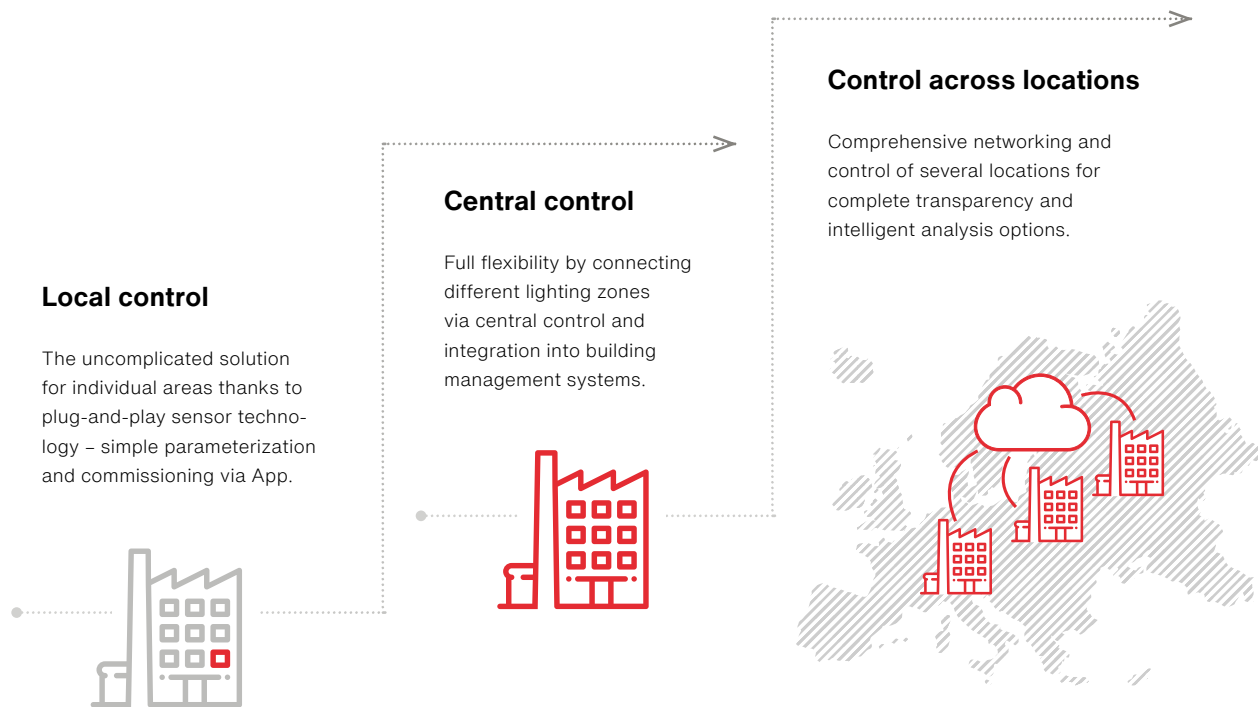
up to **90%** less energy consumption due to intelligent follow-me control



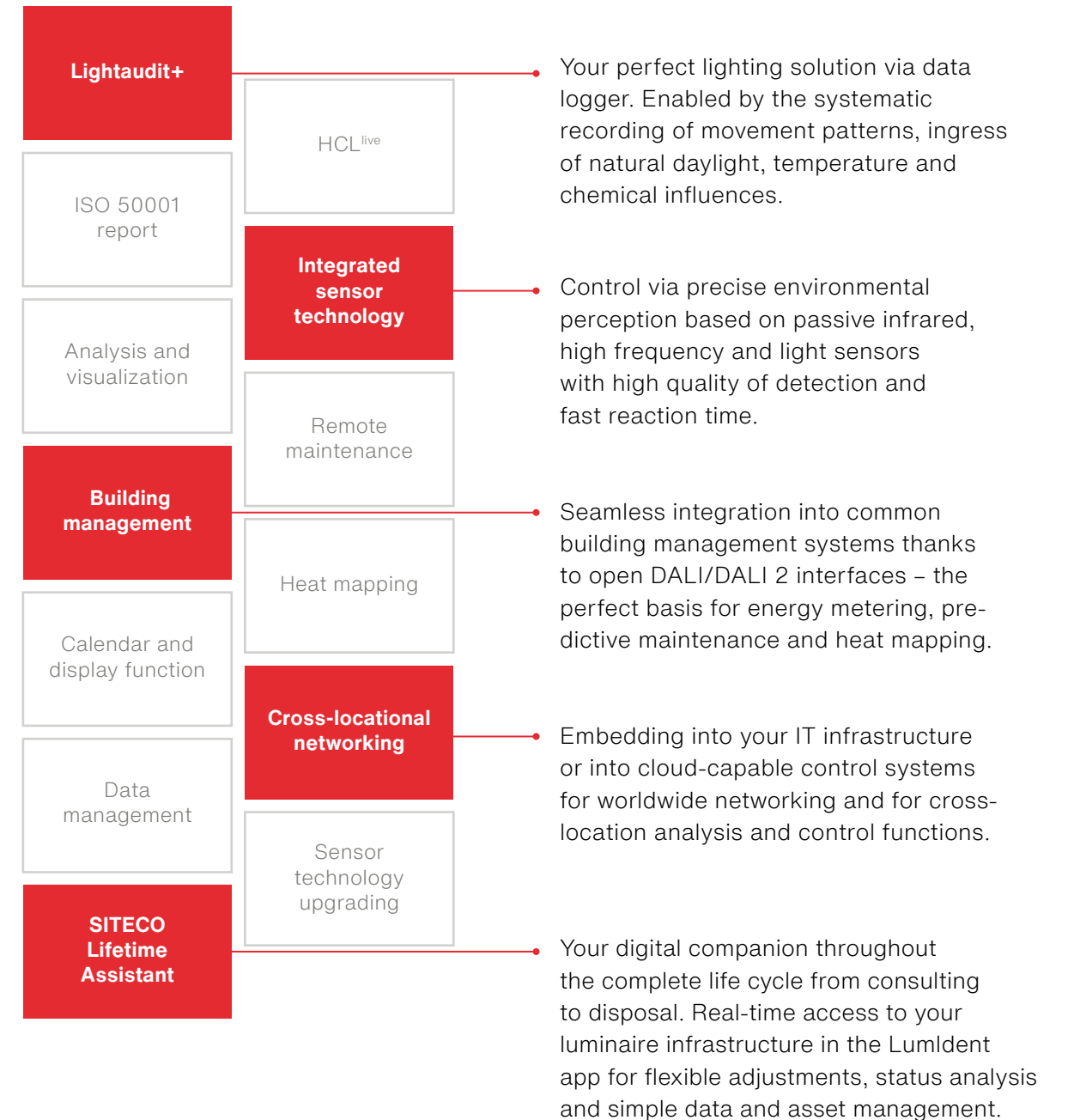
Not open for debate: Everything must be possible.

Now or later. We create the infrastructure that leaves all your options open. From the simple plug-and-play control to the fully intergrated building management system – SITECO Connect delivers tailor-made solutions. And we accompany you through the entire process: Planning, programming and commissioning.

SITECO Connect for next-level digital solutions.



“Today we control locally, but soon across multiple locations.”





Sustainability
Flexibility

Quality of life

We've forgotten how to understand light as part of our life energy.

80 % of our perception is visual. Light provides energy and generates safety, security and well-being. Nevertheless, companies today orient themselves almost exclusively to occupational safety standards and regulations. The real potential of lighting quality is currently far from being completely exploited. For greater well-being, motivation and success.

SITECO stands for best light.

Let light shine on us.

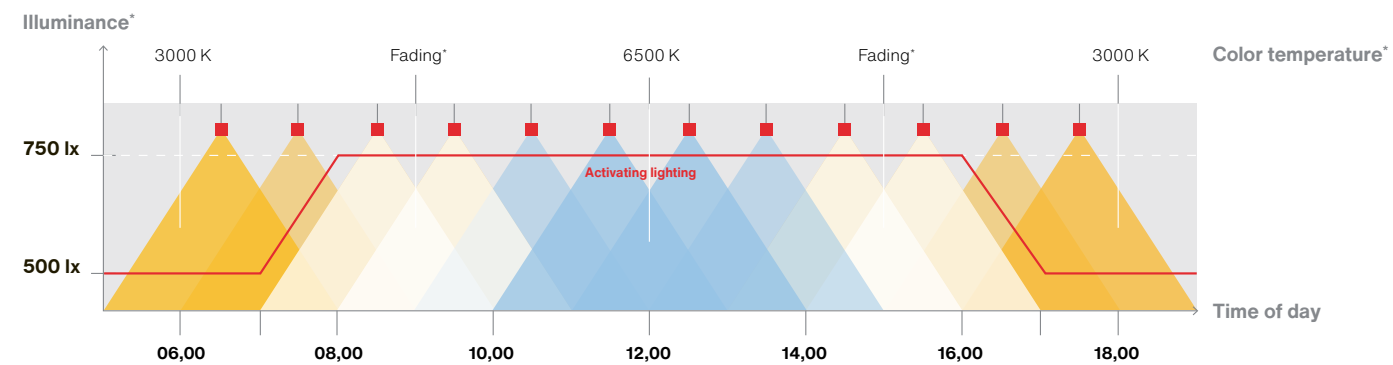
Light influences our body visually, emotionally and biologically. It is the pulsing mechanism for our inner clock. With color temperature, illuminance and light dynamics, well-being and performance can be significantly increased.

Technology is only the starting point. Planning, configuration, installation and calibration must be perfectly matched to the individual conditions. We've developed an approach that takes into account all relevant factors for maximum effect: SITECO HCL^{live}.

Our customer Beckhoff is enthusiastic.



Dynamic sequence of illuminance and color temperature (example)



* Project-specific design according to DIN SPEC 67600, 5031-100 und EN 12464-1

Project: Beckhoff, Verl, Germany
 Product: Modario® trunking system
 and Beckhoff control

“The brightness of day is now in our workshop. Our enthusiasm knows no bounds.”



With our HCL^{live} configurator, together we make complexity manageable and the solution tangible.

We know which questions to ask: from workplaces according to DIN standards to individual spatial conditions.

The result: precise parameters for optimized control of color temperature, illuminance and light dynamics.

For us, human centric lighting is more than just a definition.

On paper, anyone can do HCL nowadays. We transform it into reality. HCL^{live} is our promise to achieve the greatest benefit from HCL in your specific situation.

During the process we support and accompany you, from holistic planning, installation and commissioning to fine tuning.

SITECO HCL^{live} is a new dimension of light.



The value of outstanding lighting technology and optics.

SITECO stands for maximum quality of light. Quality means completely flicker-free, uniform illumination with high vertical illuminance and perfect glare control. Our unique anti-glare technology with highly precise lenses and prismatic structured covers achieves UGR values < 19 even in industrial lighting. This is a condition for precise industrial activities as well as comfortable working on screens.

The fully automated Linde Gas filling plant in Marl, Germany can handle over one million gas cylinders each year. Safety is a high priority here. SITECO luminaires provide an invaluable contribution in all indoor and outdoor areas.



Efficiency and safety
in the entire
operating,
production and
delivery procedure.

① + ②

Project: Linde Gas, Marl, Germany
Product: Modario® trunking system



Lighting technology

We admit it,
we love lighting
technology.

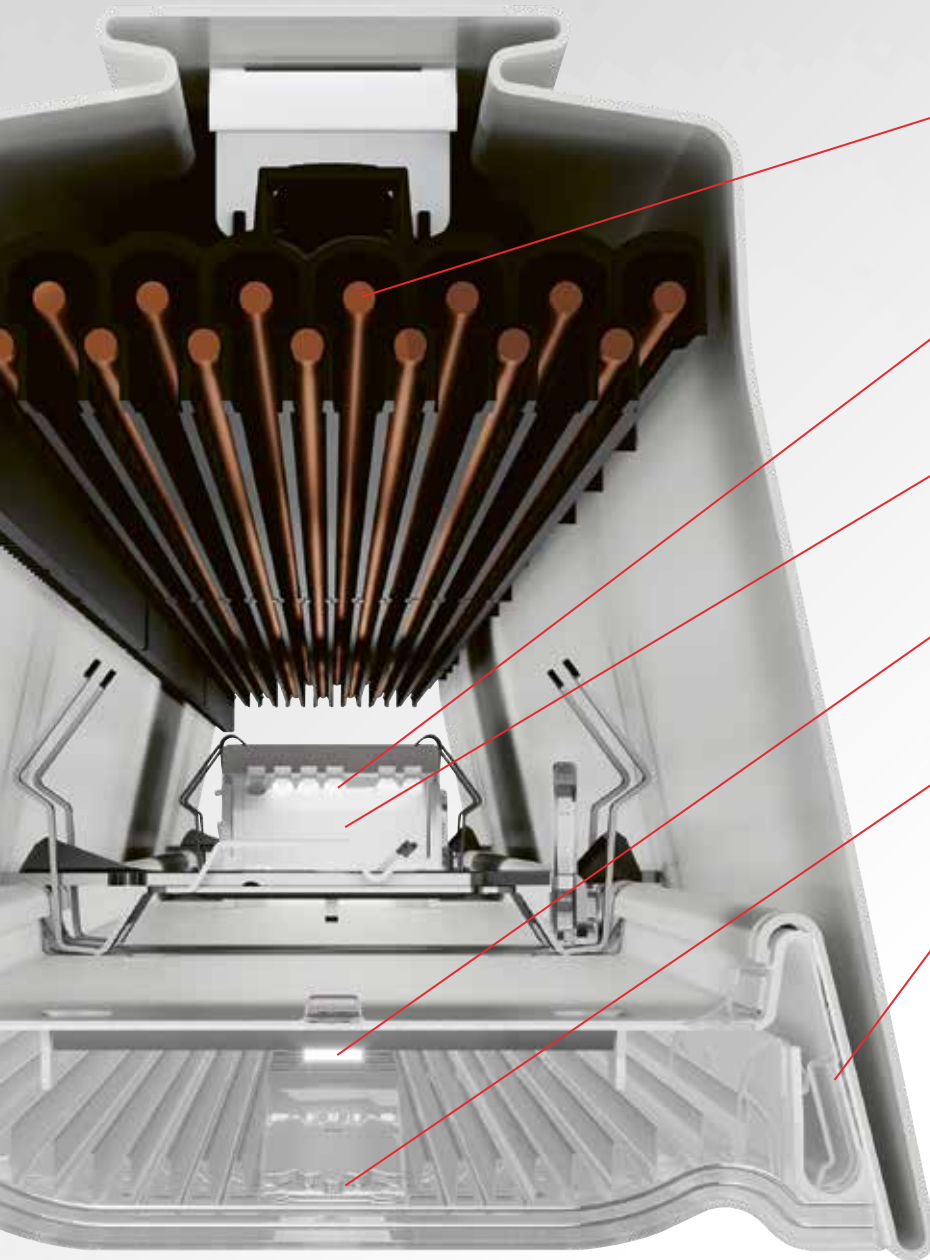
SITECO is a technology pioneer with more than 150 years of experience. CLO 2.0, full cut-off, freeform reflector technology with a globally unique silver coating process. We stand for more than 200 patented lighting technologies with diverse application options for you and your future. We also offer you holistic luminaire development from a single source – from the optics, mechanics and thermal design right up to the control electronics. The perfect integration of hardware and software designed and engineered in Germany.

SITECO stands for exceptional lighting technology.

Licross® Trunking

14 cores and full flexibility are a must-have for tomorrow.

45 years of experience – trunking *Made in Germany* perfected in our new Licross® trunking system.



14 cores for optimal networking, diverse enhancements and integrated emergency lighting – and easy to install with a simple click system

System service life up to 100,000 hours for sustainable and plannable investments

Maximum photometric efficiency of up to 200 lm/W for low operating costs and quick payback times

Optimum glare control to UGR < 19 and high illuminances for safety and high visual comfort

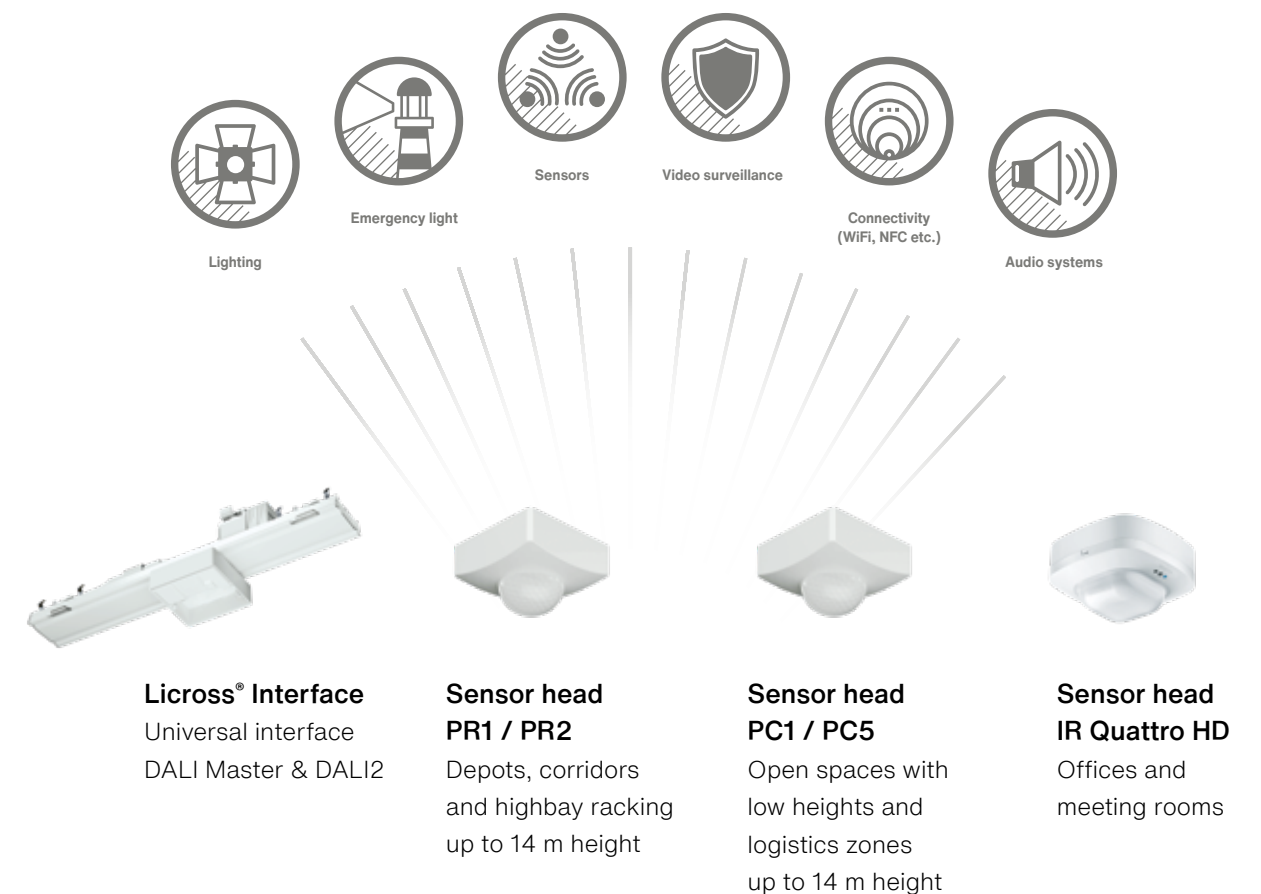
The ideal basis for SITECO HCL^{live} for improving motivation and well-being

One-for-all concept with diverse luminaire inserts and a unique combination of multi-lumen capability and CLOi for maximum adaptability

14 cores for a new level of networking.

Free lines in the Licross® trunking system enable ultra-fast data transmission to the device of your choice. Standardized Ethernet sockets installed by us in the trunking system enable the connection of a wide range of IT equipment such as cameras and audio systems thanks to a well thought-out family concept.

This enables you to bundle smart technology on the luminaire and thus optimize the space and appearance of your building ceilings. You simultaneously reduce the complexity of the systems control and can reduce the fire load of your building.



Licross[®] luminaire inserts

The right technology for any application.

Recessed, Protected, Performance – what at first sight makes a technical impression in actual fact offers the greatest freedom of implementation possible. The results are precisely matching configurations and specifications exactly addressing your needs. Additional customizing options enable even more flexibility.



Licross[®] Recessed

- Simple path to illumination according to needs due to many different light distributions
- Uniform design due to rail-flush integration

Licross[®] Protected

- High resistance and suitability for ambient temperatures up to 50 °C over complete service life
- Very robust system with protection ratings up to IP64 / IK06 with high luminous flux of up to 14,000 lm

Licross[®] Performance

- Special optic technology for very high visual comfort with up to UGR < 19 and suitability for VDU workstations
- Attractive interior design with up to 23 % indirect light component – ideal for SITECO HCL^{live}

All inserts are available with these color options:



• Durable and reliable with service life up to 100,000 hours

• Optional sensor technology for light control depending on movement and available daylight

• Ready for a wide range of applications due to various construction sizes with lumen packages up to 64,000 lm, various light distributions and different mounting options

• Highly efficient lens-based optics system with high lumen-output LEDs and up to 177 lm/W

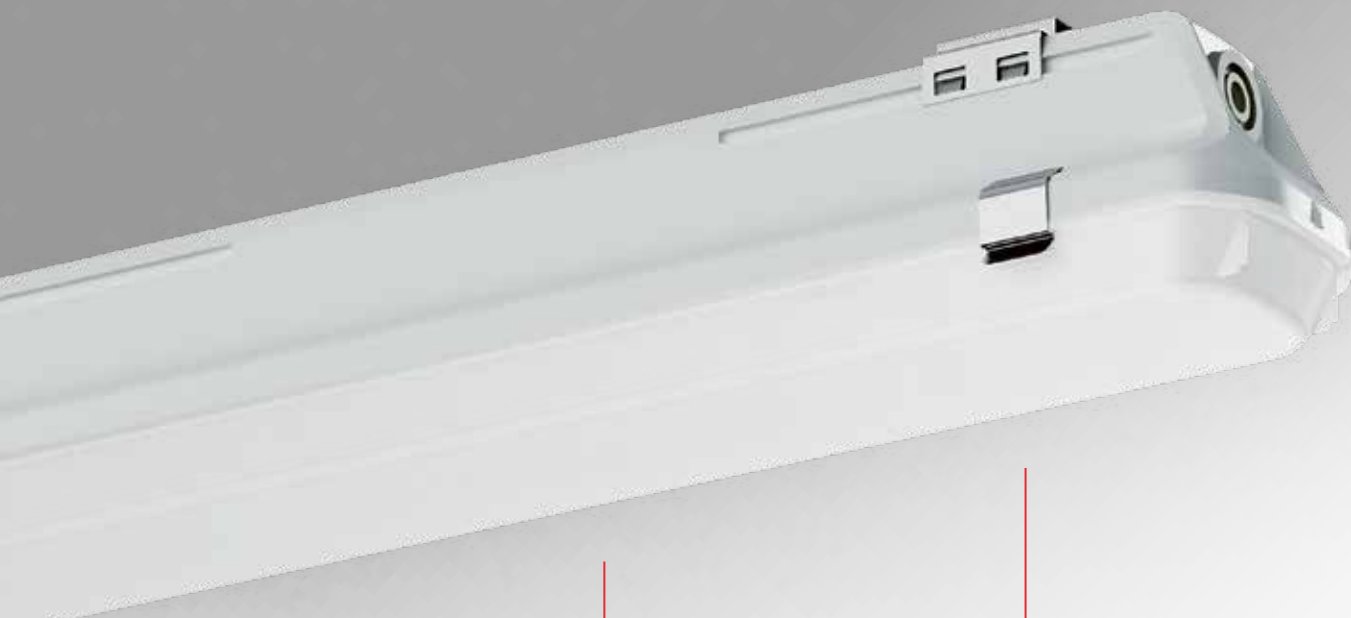
• Highly robust with protection class IP65 and impact resistance up to IK08, as well as ambient temperature-resistant to 70 °C

• High visual comfort due to very good glare control with UGR < 22

High Bay

A new era for highbay lighting.

The universal hall lighting solution with a view to the future – both as a stand-alone luminaire as well as integrated in the Licross[®] rail system.



- Multilumen technology with luminous fluxes up to 12,000 lm for maximum adaptability

- Highly robust with IP66 protection rating and suitable for outdoor use in ambient temperatures up to 50 °C

- Simple maintenance and easy upgrading of sensors due to tool-free opening of the luminaire

- CLOi also with On/Off models for standard-compliant lighting over the complete service life without over-planning and for optimized energy consumption

- Durable and reliable with service life up to 100,000 hours

Monsun®

The next level of damp-proof lighting.

The future-proof damp-proof luminaire – reliable, robust and with upgradeable intelligence.

Modario®

A trunking system for universal use.

More than one million installed luminaires make Modario® one of our greatest successes. Flexibility and quality have always been important for us. Updating your existing system with state of the art luminaire inserts enables you to dramatically cut your costs and CO₂ emissions.

- Wide range of variants due to modular system with a large number of luminaire inserts for maximum flexibility

- Highly efficient LED inserts with up to 170 lm/W – also suitable for replacing conventional luminaire inserts in existing Modario® systems for simple exploitation of energy-saving potential

- Luminous flux tracking and multilumen capability also with On/Off models for lighting solutions tailored to requirements

- Can be used in dusty and dirty environments and fire-risk locations due to IP64 and D symbol

- Prismatic frosted optic for low glare and high visual comfort





Sirius®

A dream of a floodlight.

- Extremely high lumen-output with up to 309.000 lm and simultaneously highly efficient due to silver reflectors and CLO 2.0 luminous flux tracking for low investment and operating costs
- Full-Cut-Off technology for maximum glare reduction (UGR 10) and perfect visual conditions



Floodlight FL 20

The all-purpose solution for planar lighting.

- Long service life of 100,000 hours and extremely resistant due to non-yellowing glass cover and lens technology as well as interchangeable LED module and ECG
- Avoidance of light immission and glare due to asymmetric light distribution and intelligent thermal management for minimum luminous flux degradation



Streetlight SL 11

The absolute top model for technical streetlighting.

- Future-proof due to state of the art light control and wireless networking options, simultaneously durable and robust with stable die-cast aluminum housing and optimum heat dissipation for a long 100,000 hours service life
- High efficiency due to state of the art LED technology (up to 150 lm/W) for low energy consumption and precise light control via silver-coated HD reflectors for optimum illumination



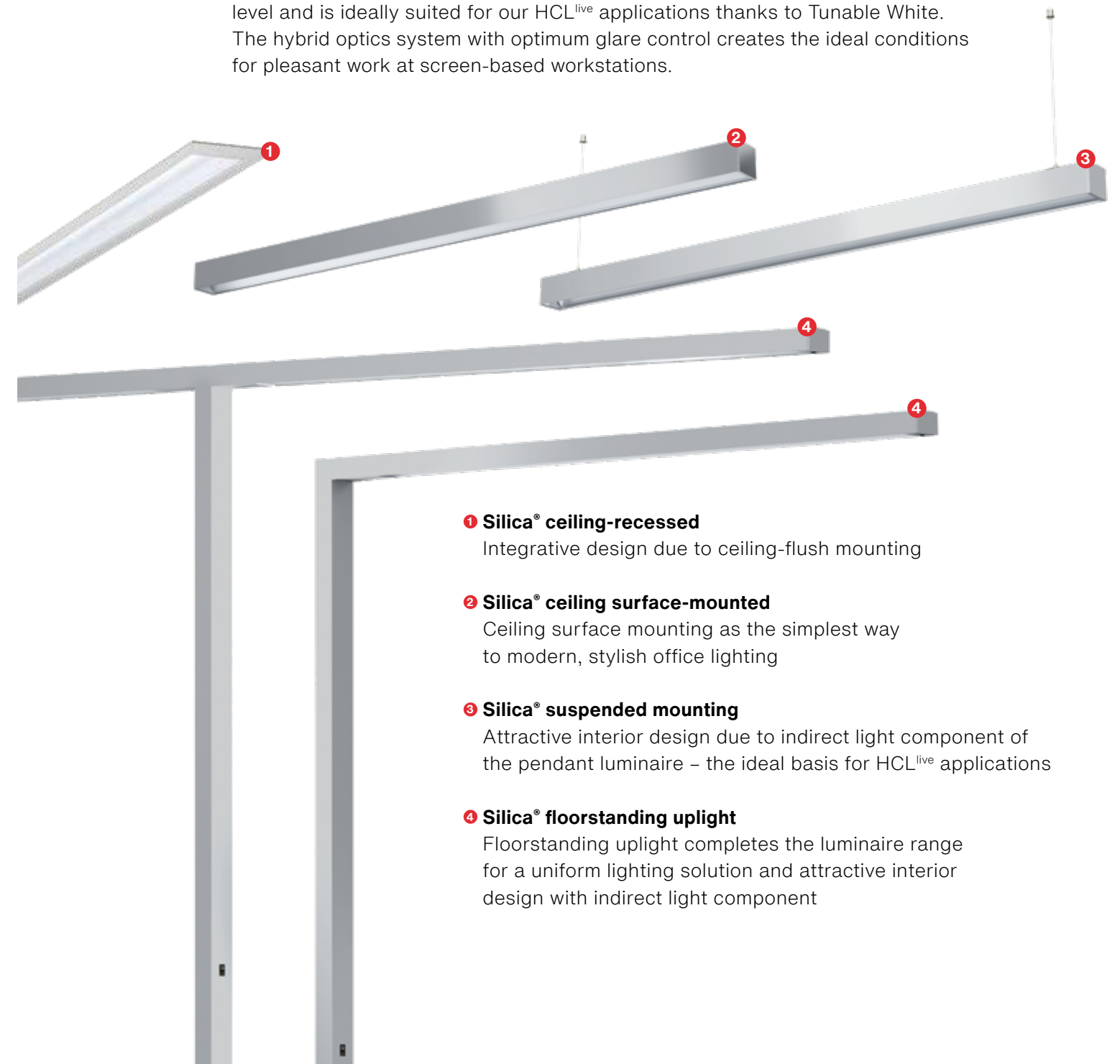


Photo: © Mark Seelen for de Winder

Silica[®] luminaire family

Compact, straightforward and well thought-out – office lighting in a new light.

Silica[®] brings together simplicity and elegance in a high-quality linear housing. The integrated ECG enables seamless continuous rows with a variety of individualization options. Silica[®] stands for lighting technology at the highest level and is ideally suited for our HCL^{live} applications thanks to Tunable White. The hybrid optics system with optimum glare control creates the ideal conditions for pleasant work at screen-based workstations.



- 1 Silica[®] ceiling-recessed**
Integrative design due to ceiling-flush mounting
- 2 Silica[®] ceiling surface-mounted**
Ceiling surface mounting as the simplest way to modern, stylish office lighting
- 3 Silica[®] suspended mounting**
Attractive interior design due to indirect light component of the pendant luminaire – the ideal basis for HCL^{live} applications
- 4 Silica[®] floorstanding upright**
Floorstanding upright completes the luminaire range for a uniform lighting solution and attractive interior design with indirect light component

Project: Mozilla, Berlin, Germany
 Planning: De Winder Architects
 Product: Silica[®]

800,000
customized
luminaires

in over 1,000 projects

Adaption.

Modification of series luminaires

- Changing the light color and color rendering
- Changing the housing dimensions, colors and mounting accessories

Combination.

Modular construction system

- Versatile combinable systems for your ideal project solution
- Modular SITECO optic platforms as the basis for your project luminaire

Creation.

Special luminaire development

- Concept development and project management
- Construction planning and special luminaire construction with experienced development team

Ideal customer proximity via flexibility and speed.

When the options in the catalogue end, the almost infinite variety of customized options begin.

SITECO offers a wide spectrum of customized solutions thanks to its experienced team of designers and engineers. *Made in Germany* also means we provide additional flexibility and speed.



One of many topics for you, but for us it's everything.

Outstanding lighting technology provides the perfect foundation. In addition, our claim is to also make a significant contribution to the future viability of our customers.

For this reason SITECO solutions include the complete spectrum, ranging from planning and project management to the financing and operation of your system.

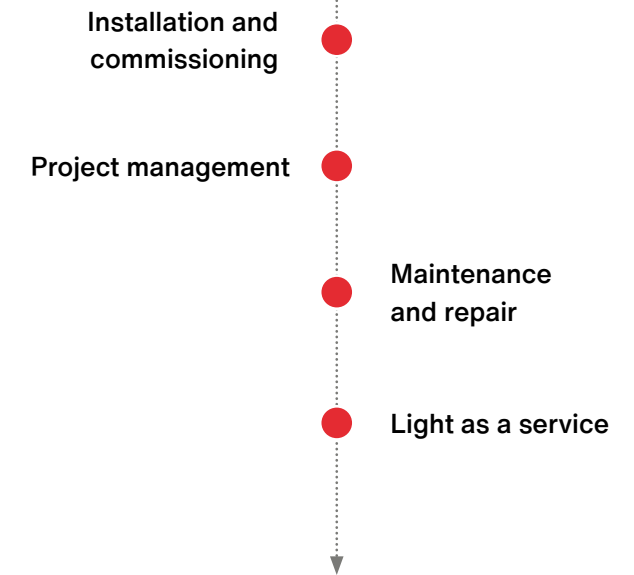
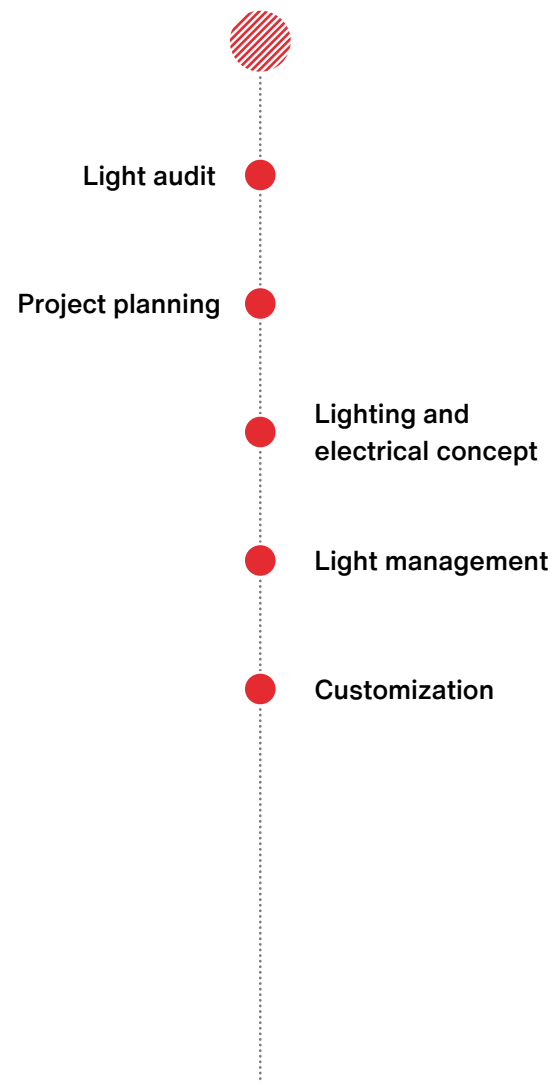
SITECO assumes responsibility for your light.

Lighting solutions

Complex is fine. But not complicated.

Whether functional lighting or complex lighting solutions – each project is individual and depends on the lighting requirements, the existing conditions and the architectural demands. SITECO supports you in defining these parameters and converting them into an overall concept. We also speak your language – putting complex technologies into plain words. This is how we make sure that your specific requirements are taken into account and successfully implemented in the project.

SITECO – the planning and development partner for your lighting solution.



Your time and your budget are not infinite.

Modern lighting systems not only require precise planning but also precise implementation. This often results in high organizational and coordination effort – which should not result in a decision against the project. Concerns about high investment costs should also not hinder project progress. The systematic modernization of lighting systems usually pays for itself through lower operating costs.

We have a network of reliable partners ranging from installers to programmers to provide you with turnkey solutions. We also offer you individual financing solutions, for example monthly installments or individual leasing contracts. You decide whether CAPEX or OPEX and whether we take over your maintenance at the same time.

SITECO guarantees the success of your project.

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For reasons of readability, the brochure largely dispenses from using gender-specific formulations.
If personal designations are only provided in masculine form they refer to persons of every gender.

Order number 810P009GB | SITECO Marketing 02.2020 | Technical modifications and errors reserved.



Project: SITECO, Traunreut, Germany
Product: Licross® trunking system

