

**SYLVANIA**

**Concord**



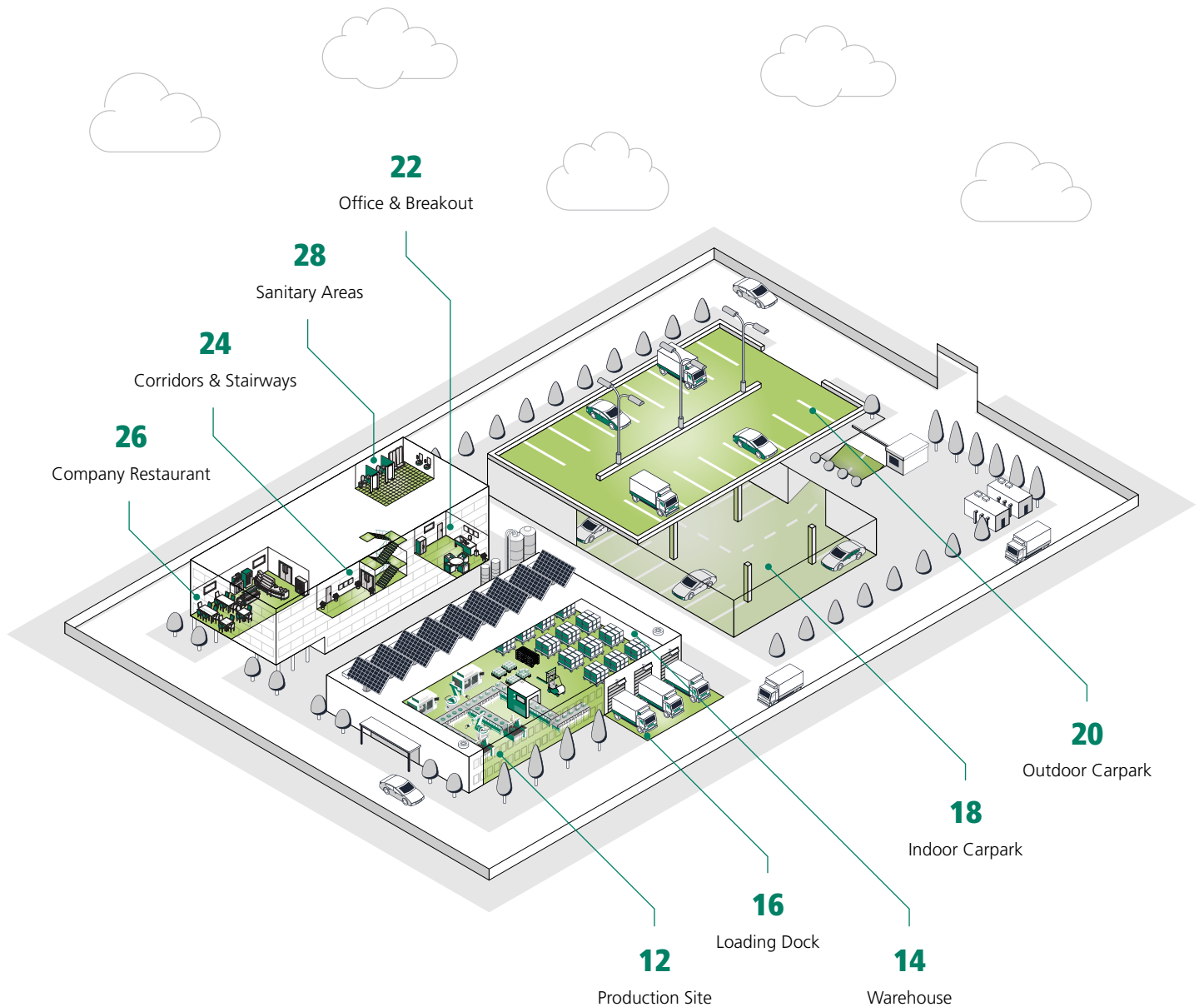
Effortless  
solutions for  
complex operations



LOGISTICS & INDUSTRY



**Digital | Lighting | Solutions**



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## Introduction

Warehouses, logistics platforms, and industrial sites serve as the backbone of global trade. They play a crucial role in the storage, circulation, and production of goods, making them essential for businesses in the sector. However, with the advent of energy crises, energy savings, regulations, quality of life at work, and safety, the industrial sector is facing unprecedented challenges.

Site managers are under increasing pressure to control operating costs while complying with stringent standards. One of the most effective ways to achieve this is by integrating LED lighting solutions with energy management systems. Lighting not only ensures optimal visibility of products, equipment, and personnel, but it also provides easy access to significant energy savings. At Sylvania, we offer intelligent building management solutions through our SylSmart platform that also delivers advanced analysis tools.

We are committed to helping our industrial clients navigate the challenges of energy transition and decarbonisation through comprehensive 360 services. With over 120 years of experience in the lighting industry, the Sylvania Group caters to all lighting needs through our Sylvania and Concord brands.

Whether you require high-quality lighting, advanced lighting management with an energy analysis platform, or a turnkey solution, we offer end-to-end support to ensure your site's future is secure. Partnering with Sylvania Group means having a trusted ally who understands your needs and has the expertise to help you envision a sustainable future for your site.



# Flexible and efficient

## Smart lighting solutions to suit your space

**SylSmart solutions have been developed with the aim of empowering the reduction of energy consumption and foster a culture of sustainability.** Our highly intelligent, robust and secure lighting control system is designed to meet the challenges of industrial environments using wireless frequencies and industrial-grade sensors and luminaires. Its flexibility and scalability, combined with specialized features like energy analytics, asset monitoring or space utilization, are truly unlocking your intelligent building. Our solutions provide real-time visual data on energy usage and guide you to a more sustainable future.

### SylSmart Connected

Unlock the intelligent building. SylSmart Connected is a robust and secure wireless Bluetooth solution designed to address the challenges of industrial environments. Heavy duty sensors and luminaires utilize strong and reliable qualified Bluetooth mesh to deliver maximum energy savings. Each luminaire features occupancy and daylight sensing, enabling advanced monitoring capabilities. SylSmart Connected aids in reducing operational costs and ensures that the right light is provided at the right place and at the right time.

As flexibility is critical, our SylSmart Connected controls can be easily re-commissioned to adapt to changing business and facility layout needs with minimal disruption.

#### Integrated Intelligence

Multifunctional sensors integrated into each luminaire enable secure wireless communication with distributed intelligence and dependable performance.

#### Rapid installation & Effortless scalability

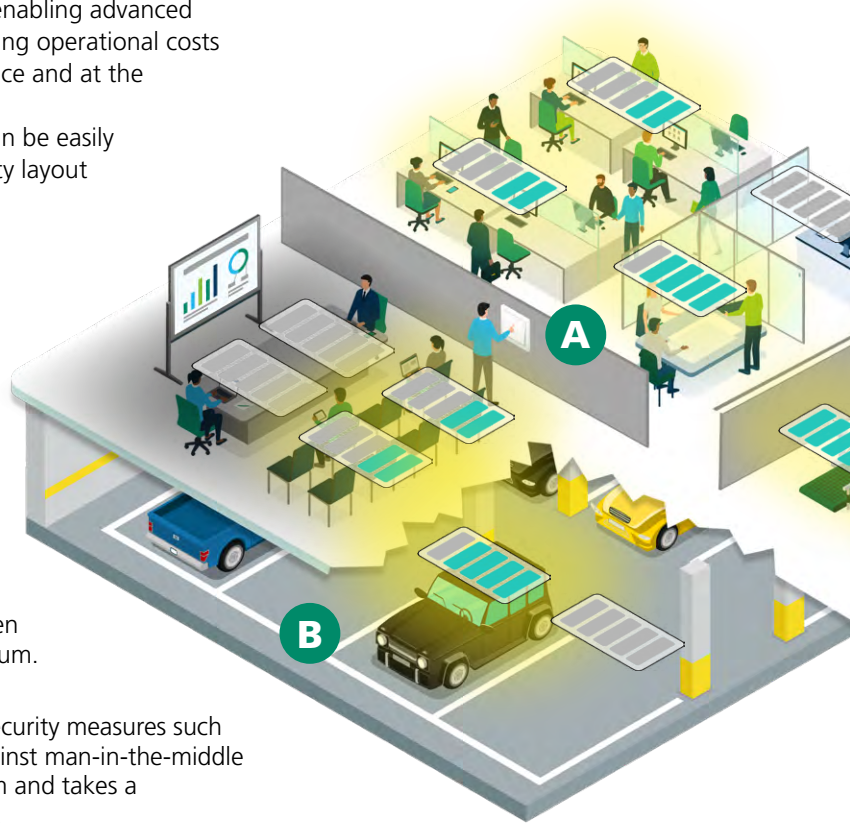
With offsite cloud-based pre-configuration, no extra wires or hardware are necessary, resulting in minimal on-site disruption. Furthermore, the system is easily scalable to accommodate any project size, from single floors to entire buildings.

#### Energy efficient

The system offers customizable energy-saving features based on occupancy, daylight, and time. With an app-driven approach to maintenance, disruptions are kept to a minimum.

#### Secure & Reliable

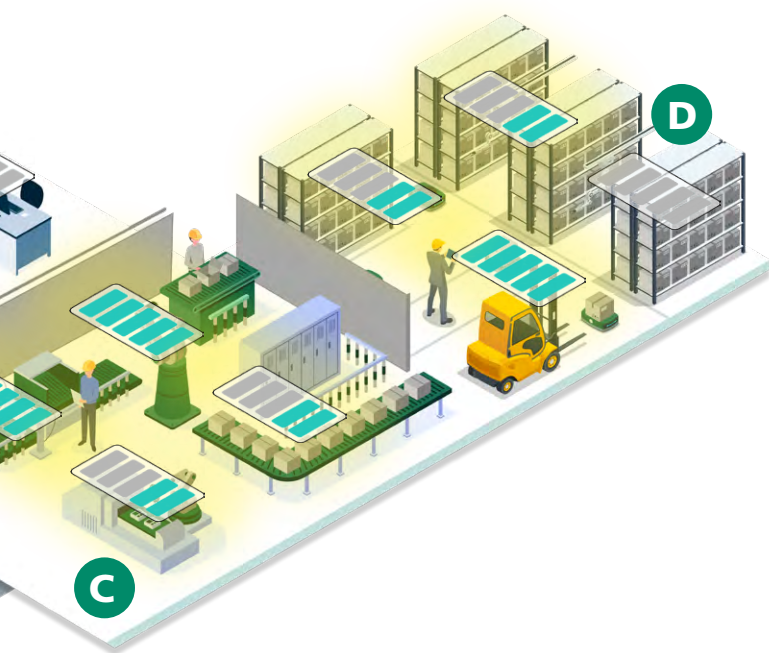
The system prioritizes security, utilizing a broad range of security measures such as cyclic keys, replay attack protection, and prevention against man-in-the-middle attacks. The security is considered at all levels of the system and takes a comprehensive approach throughout the system's lifespan.



**"SylSmart Connected serves as the primary platform for commissioning intelligent lighting control, designed to streamline and expedite the setup of lighting infrastructure, and maximize energy efficiency through advanced controls. Following setup, SylSmart Connected project details are seamlessly transferred to SylSmart Connected Pro, offering centralized oversight, comprehensive analytics, and seamless interoperability with other systems."**

**Clinton Milligan – Senior Product Line Manager**





## SylSmart Energy

Powering your drive to net zero. SylSmart Energy is an advanced energy analytics platform that empowers businesses and organisations to take action regarding their carbon emissions and energy consumption. This powerful tool helps clients identify areas of inefficiency and implement effective energy-saving measures, leading to significant cost savings and a more sustainable future.

### In-depth analytics

Users can monitor circuit level energy consumption throughout their site including production machinery, lighting and HVAC.

### Formulate action plans

Create budgets and energy reduction strategies in order to meet your reduction targets and maximise savings.

### Single pane of view

Monitor gas, water and electricity consumption and solar power generation across multiple sites from one platform.

### Comprehensive Connectivity

Gather data automatically from your utility company or push data to other systems such as BMS via API.

## Your spaces, enhanced...

**A**

### Offices, Commercial buildings

Dynamic and diverse needs

**B**

### Parking areas

User friendly and precise lighting

**C**

**+**

**D**

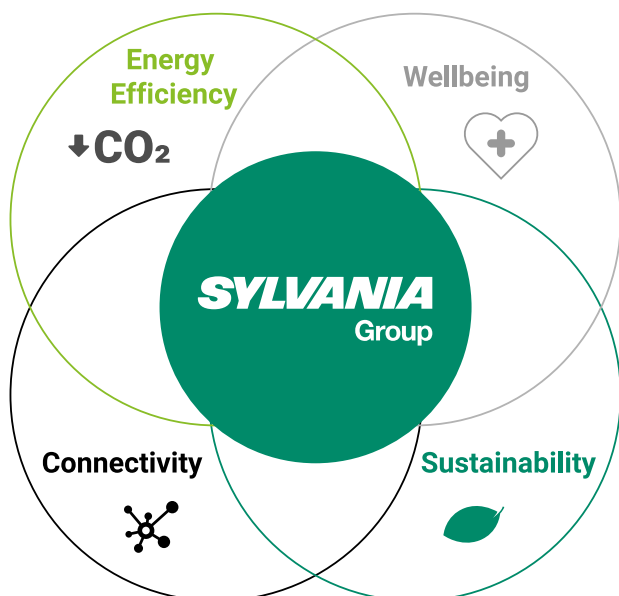
### Industry sites & Warehouses

Tailored light for maximum comfort & ultimate flexibility



## An ecosystem that is both comprehensive and effective, designed to assist you with your projects

Sylvania offers a comprehensive approach that goes beyond just the product itself. By working with Sylvania, you will gain a thorough understanding of your energy consumption, allowing you to effectively manage it and develop sustainable savings plans that are tailored to your specific needs and usage.



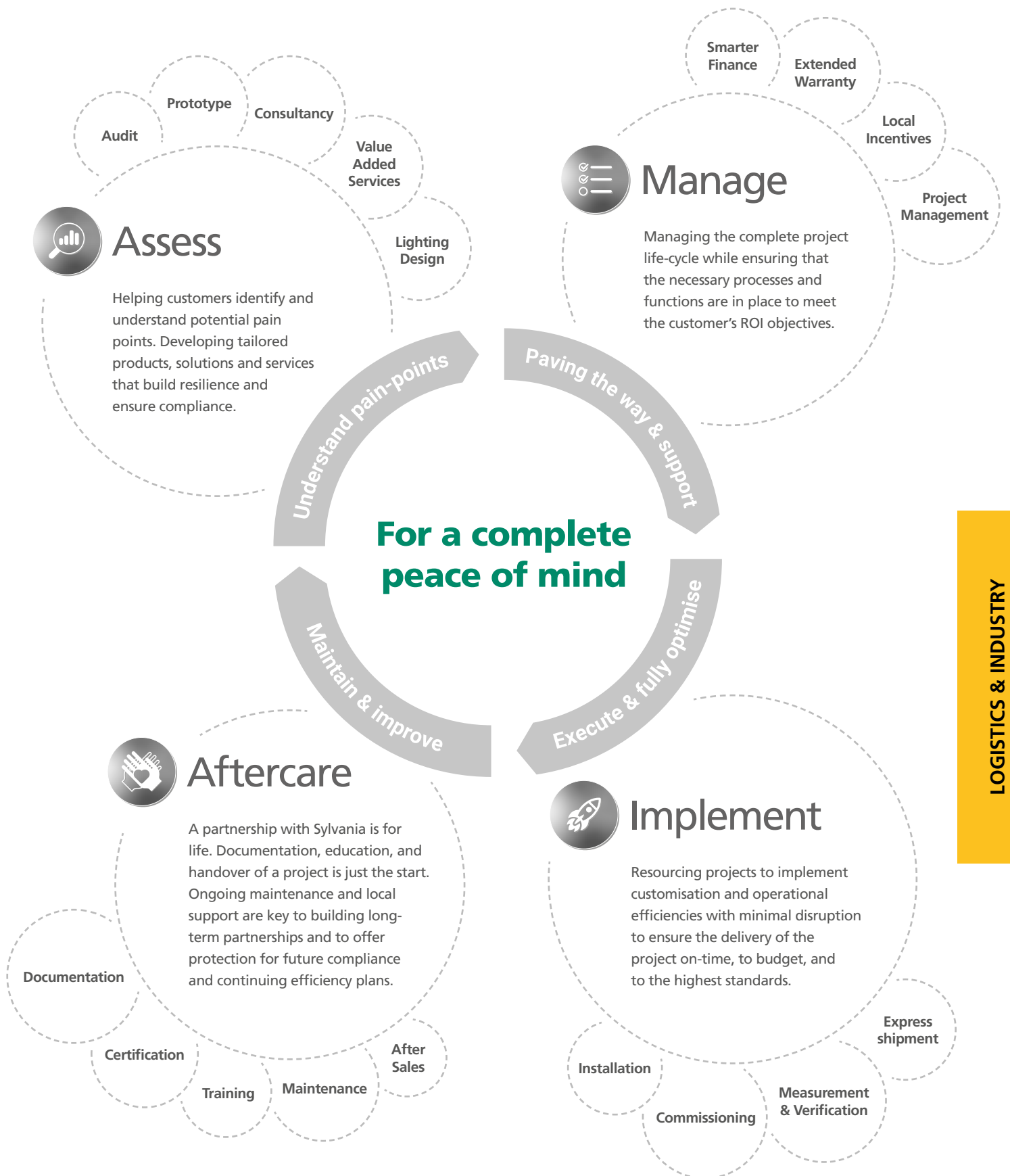
### Our commitments

As a specialist in professional and architectural lighting, Sylvania puts all its know-how, its capacity for innovation, the technology of its products and its services to contribute to:

- Increase energy efficiency, improve ecological footprint.
- Promote digitalization.
- Increase the well-being of users.

### Our strenghts

- Know-how of more than 120 years.
- European production sites.
- Proactivity and flexibility.
- European logistics centre located in France.
- Technical assistance.





## Keeping the lights on

### Safety and protection

**Emergency lighting is an essential part of any lighting installation. It ensures that adequate illumination is provided when standard lighting fails and maintains people site safety. In logistic and industrial applications where efficient operations are critical, sufficient illumination can enable work to continue or allow engineers to repair any issues and get normal power restored as quickly as possible.**

#### The importance of emergency lighting

The Regulatory Reform (Fire Safety) Order 2005 requires that all commercial premises have emergency lighting installed by law, with BS EN 1838 specifying escape and standby lighting requirements for businesses should they experience a power failure.

Warehouses and factories are critical buildings where in the event of a power outage engineers must be able to work uninterrupted, so emergency lighting becomes a crucial element of safety and security. Certain building areas offer limited natural light, so effective lighting must be supported by effective emergency lighting, which ensures that the exits are clearly illuminated for a fast and safe evacuation of occupants.

A reliable and efficient system is cost-effective, as it reduces downtime and minimises the impact to productivity. To ensure optimal performance at all times, it is important that emergency systems are regularly tested by qualified engineers. A mains power failure needs to be simulated and every emergency fitting checked to ensure each is capable of successfully switching to its battery supply, with each checked again when power is restored to check they are recharging. Results from tests must be logged, underlining the critical nature of an effective emergency lighting system.

#### Emergency lighting in general

When there is a power outage or a fire and the lights go out, the emergency lighting system retains a level of illuminance to enable people to navigate their way to an exit and leave the facility safely. In complex environments, it may take longer to evacuate, making reliable, efficient and quality emergency lighting systems essential.

Emergency luminaires are designed to charge when the lighting system is operating normally and remain active for 3 hours when there is an outage, recharging themselves again when power is restored.

Sylvania offers a range of integrated or stand-alone LED emergency luminaires, emergency exit signs as well as control and monitoring products that deliver a durable and reliable emergency lighting system perfectly suited to meet the varied and challenging environments of logistic and industry.



### Types of emergency lighting

Emergency lighting designs need to cater to different areas and emergency lighting is split into four main categories:

**Escape route lighting** – illuminating routes to designated fire escapes and emergency exits is essential in ensuring people can leave the building safely.

**Open areas** – providing sufficient lighting in areas where occupants may pass through when trying to find an exit will help reduce panic and facilitate people exiting the building safely in the event of an emergency.

**High-risk task areas** – workspaces where employees work with tools or machinery require emergency lighting that performs long enough after an outage to allow for work to stop safely and any tools or equipment to be put down.

**Standby lighting** – this type of lighting is not required by law and is often powered via a generator. Lighting is restored following an outage and is maintained until mains power is restored.



### DID YOU KNOW?

Where emergency lighting is placed is a crucial factor in how effective it is and placing it in the wrong areas can cause significant risks. LED illuminated emergency exit signs must clearly signpost a safe route to get out of the building. Emergency LED luminaires in transition areas where people will come into contact with each other as they exit are also important to minimise the risk of accidents.

Specific areas of a building where emergency lighting provision should be incorporated are highlighted via a fire risk assessment and often include:

- + Stairwells
- + Toilet areas and changing facilities
- + Intersections
- + Reception areas
- + Where there are changes in direction along recognised exit routes
- + Areas where there is a change in floor height

## Lighting standards & regulations: the essentials at a glance

The right light enables people to perform visual tasks efficiently and accurately including tasks performed over a prolonged time period or of a repetitive nature. Creating the right environment, integrating the artificial lighting and lighting controls into a system to provide the optimal logistics and industry lighting environment for the users is the biggest challenge for the lighting designers. The interior lighting standards and regulations for logistic & industry applications help to identify the right balance and the proper lighting solution. They are a requisite to comply to, both for the safety of occupants, and for the sustainability of your warehouses and production sites. But as these standards may change regularly, Sylvania is committed to answering all your questions, and supporting you in this aspect of your lighting projects. Standards, norms, and labels associated with energy compliance and well-being: we help you retrieve the essential points.

### Adequate and appropriate lighting in warehouses, logistics platforms, and industrial sites

European Standard EN 12464-1:2021 for lighting of indoor workplaces defines specific implementation in terms of quality and quantity of light. The lighting requirements are determined by the satisfaction of three human needs such as visual comfort, performance and safety. The main parameters are determining the lighting environment to respect in order to avoid any photobiological risk are the:

➤ **Illuminance (Ē):** this describes the quantity of luminous flux falling on a surface. The standard recommends the minimum values of average illuminance to be maintained according to the requirements of the visual task/activity in the work area. Measurement unit is lux (lx) and different lux levels are recommended in a building.

➤ **Glare (UGR):** is the unpleasant sensation produced by bright areas within the visual field, such as lit surfaces, parts of the luminaires, windows, and/or roof lights. In office buildings, discomfort glare may arise directly from bright luminaires or

windows. Careful design of the orientation of the building and minimizing of direct sunlight should eliminate discomfort glare through the windows. The rating of discomfort glare directly from the luminaires can be determined by using the CIE Unified Glare Rating (UGR) and the limits are set out for the different areas of the offices. The standard indicates maximum UGR values and specifies the luminance values to be respected to avoid reflections and glare by reflection (1000cd/m<sup>2</sup> for an angle of elevation of 65° in relation to the descending vertical for computers).

### Lighting of indoor workplaces

EN 12464-1 (August 2021)

TYPE OF TASK/ACTIVITY AREA	Ē (LX) (MIN)	U <sub>0</sub> (MIN)	R <sub>s</sub> (MIN)	R <sub>UGL</sub> (MAX)	SPECIFIC REQUIREMENTS
Unloading / loading area	200	0,40	80	25	
Rack storage - floor	150	0,50	80	25	Illuminance at floor level RUGL only in the viewing direction of the luminaire.
Rack storage - rack face	75	0,40	80	-	On aisle rack face. Band of 1,0 m may be excluded from the perimeter.
Central logistics corridor (heavy traffic)	300	0,60	80	25	
Canteens and break areas	200	0,40	80	22	
Cloakrooms, washrooms, bathrooms, toilets	200	0,40	80	25	
Circulation areas & corridors	100	0,40	80	25	
Stairs	150	0,40	80	25	
Writing, reading, data processing	500	0,60	80	19	DES-work, Lighting should be controllable





➤ **Colour rendering (CRI):** is the ability of a light source to reproduce surface colours (test colours R1 to R14) as faithfully as possible compared to a reference light source. It is identified by the colour rendering index (CRI). The best colour rendering is  $R_a = 100$ . The standard specifies CRI values depending on the visual task to be performed.

#### Control of lighting and energy-efficiency

The automatic management of artificial light on a space of  $25\text{m}^2$  must ensure a consumption below  $1.6\text{W}/\text{m}^2$  per 100lux to limit energy costs and environmental impact. Any room which has lighting control is the responsibility of its management staff, even during periods of occupancy, who must ensure it has a device for switching on and off the

➤ **Uniformity (UO):** is defined as the ratio between minimum to average lux (U1), or minimum to maximum lux (U2). It describes how the lights are evenly distributed on the ground. If the difference between minimum and average lux is small, then the ratio is high, which gives better light uniformity (the ratio between the lowest ( $E_{\min}$ ) and the mean illuminance level ( $\bar{E}$ )).

lighting. The automated regulation of luminaires is an invaluable help. It allows to dim or switch off the light according to the natural lighting of the room, and, when the room is unoccupied, the extinction of the sources of light or the lowering of the illumination to the regulatory minimum level.



#### SYLVANIA'S COMMITMENT

Our products are 100% compliant with EU and UK standards. Many of them are manufactured in France, Germany, and the United Kingdom to guarantee unparalleled quality, in accordance with European standards, and more specially to comply with the EN 12464-1:2021 standard. They respect the different rates and levels required such as glare ( $UGR < 19$ ), the level of luminance ( $L_{65} < 3000\text{ cd}/\text{m}^2$ ), CRI (80 min.) or low flickering ( $< 5\%$ ).



## Production Site

**Production sites, such as factories, production workshops, and manufacturing centres, are highly sensitive places that require specialised attention. These sites often operate around the clock and cannot afford to have unsuitable or malfunctioning lighting.**

**The lighting system must be able to withstand harsh conditions and ensure uninterrupted operations. Investing in reliable and robust lighting systems can save money, minimise downtime, and increase ongoing productivity.**

### CHALLENGES

#### Sustainability

The production areas often require 24/7 operation. Luminaires must therefore be robust, durable, and efficient with a minimum maintenance requirement.

#### Energy saving

Advanced management systems, in combination with efficient luminaires, can help maximise energy savings.

#### Security & regulations

Functional lighting solutions are crucial in ensuring the safety and security of workers in production areas. Investing in sustainable, energy-efficient, and compliant lighting solutions can benefit your business and the environment.

## Sylvania Granit SSA

### Industrial Highbay



SylSmart Connected enabled



Up to 163lm/W  
system efficacy



Robust (IP65/IK08)



Long lifespan > 90.000hrs







## OTHER LUMINAIRES

### SylBay

Industrial Highbay



Made in UK



- + Available in PIR and SylSmart Connected versions
- + Lumen output up to 47.400lm
- + Robust (IP65/IK08)
- + Very long lifespan: 120.000hrs

### START Highbay

Industrial Highbay



- + Shades available as accessories
- + Operating temperature from -20 to +45°C
- + Long lifespan: 90.000hrs

### Resisto

High performance weatherproof luminaire



Made in Germany



- + High efficacy
- + Quick and easy installation
- + Available in MW and SylSmart Connected versions

### Resisto GRP

Chemically resistant weatherproof luminaire



- + High efficacy
- + Quick and easy installation
- + Reinforced body





# Warehouse

Modern warehouses are rapidly growing in size and complexity, making it essential for lighting solutions to be efficient, durable, and easy to manage. Often, these facilities feature high ceilings that can pose challenges for lighting. To address these challenges, Sylvania offers advanced management solutions like SylSmart that bring intelligence to logistics sites, providing efficient and adaptable lighting options that can help manage energy costs and ensure a safe and industrious environment.

## CHALLENGES

### Sustainability

In terms of sustainability, the lighting used in logistics warehouses must be long-lasting and require minimal maintenance. Advanced sensors and management systems can help to maximise energy savings while ensuring adequate illumination.

### Safety

Safety is a crucial aspect of lighting in logistics warehouses, with forklifts frequently navigate narrow aisles, the lighting level must be suitable to reduce the risk of collisions.

### Security & regulations

Regulations impose specific lighting standards for warehouse-type applications due to the presence of high ceilings and aisles with high racking.

## SylBay SSA

### Industrial Highbay



Available in PIR and SylSmart Connected versions



Lumen output up to 47.400lm



Robust (IP65/IK08)



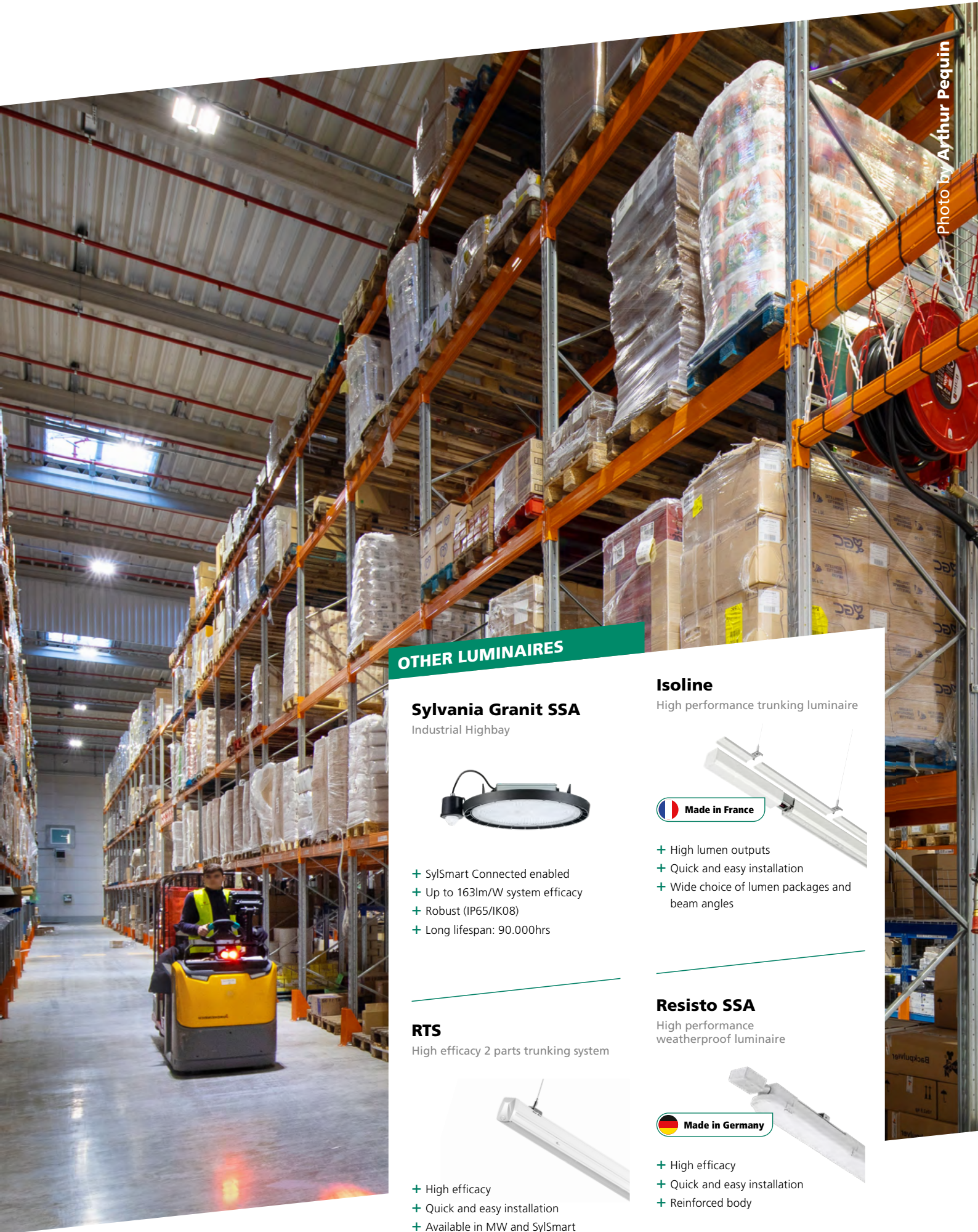
Very long lifespan: 120.000hrs



Made in UK







## OTHER LUMINAIRES

### Sylvania Granit SSA

Industrial Highbay



- + SylSmart Connected enabled
- + Up to 163lm/W system efficacy
- + Robust (IP65/IK08)
- + Long lifespan: 90.000hrs

### Isoline

High performance trunking luminaire



 **Made in France**

- + High lumen outputs
- + Quick and easy installation
- + Wide choice of lumen packages and beam angles

### RTS

High efficacy 2 parts trunking system



- + High efficacy
- + Quick and easy installation
- + Available in MW and SylSmart Connected versions

### Resisto SSA

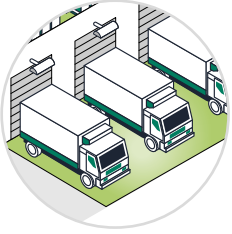
High performance weatherproof luminaire



 **Made in Germany**

- + High efficacy
- + Quick and easy installation
- + Reinforced body





## Loading Dock

The loading dock is a crucial element in managing the inflow and outflow of goods from a warehouse. It serves as the primary interface for logistics operations and plays a vital role in ensuring the smooth functioning of a logistics site.

These areas require proper illumination to ensure optimal functionality. Adequate lighting not only facilitates the parking of heavy goods vehicles, but also provides forklift operators with clear visibility when loading and unloading trailers.

### CHALLENGES

#### Security

Security and ensuring the well-being of everyone working in logistics is crucial, and this includes providing appropriate lighting solutions.

#### Sustainability

Sustainability is another key concern, particularly for outdoor lighting installations. Luminaires must be robust and designed to withstand all weather conditions, ensuring their longevity.

#### Energy efficiency

Energy efficiency is also important, and LED technology can help minimise energy costs. Furthermore, lighting management systems can be implemented to optimise the use of lighting and reducing energy waste.

### Raiden

#### Exterior LED Floodlight



Lumen output up to 50.800lm



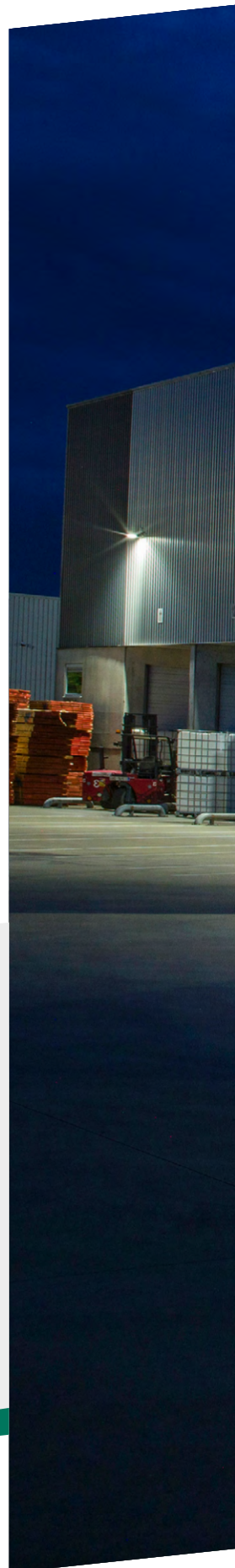
Heavy-duty (IP66/IK08)



Highly efficient thermal design: ta -40°C - +50°C



Very long lifespan: 100.000hrs







## OTHER LUMINAIRES

### Kalani

Exterior LED Floodlight



- + Lumen output up to 41.800lm
- + Heavy-duty (IP66/IK08)
- + Highly efficient thermal design:  
ta -30°C - +50°C
- + Very long lifespan: 100.000hrs

### START Flood Flat

Exterior LED Floodlight



- + Lumen output up to 10.000lm
- + Tilttable bracket
- + Good operating temperature range:  
ta -20°C - +40°C
- + Long lifespan: 90.000hrs

### Resisto

High performance  
weatherproof luminaire



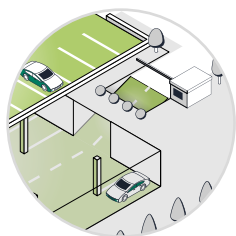
- + High efficacy
- + Quick and easy installation
- + Very long lifespan: 100.000hrs
- + Available in MW and SylSmart  
Connected versions

### START Waterproof Slim

High performance  
weatherproof luminaire



- + High efficacy
- + Quick and easy installation
- + Throughwiring and slidable  
mountings brackets
- + Very long lifespan: 100.000hrs



## Indoor Carpark

Car parks are often situated underground or in areas with limited natural light, making it essential to provide sufficient lighting for the safe movement of vehicles and pedestrians. The lighting solution used in car parks must be durable enough for continuous operation. Additionally, the inclusion of detectors can provide an appropriate level of lighting only when necessary, thus reducing energy consumption.

### CHALLENGES

#### Security

A reliable and suitable lighting solution is critical for ensuring the safety of people and vehicles in covered car parks.

#### Sustainability

The lighting system must be capable of withstanding harsh environmental conditions, such as dust and humidity, and have a long lifespan to minimise maintenance needs.

#### Energy efficiency

Energy efficiency is crucial to reduce electrical consumption and associated costs. Sylvania's SylSmart technology, which includes sensors and advanced management systems, allows real-time adaptation of lighting levels based on occupancy and movement detection to maximise energy savings.

### Resisto

High performance  
weatherproof luminaire



High efficacy up to 161lm/W



Quick and easy installation



Available in MW and  
SylSmart Connected versions



Very long lifespan: 100.000hrs



Made in Germany





## OTHER LUMINAIRES

### START Waterproof Slim

High performance  
weatherproof luminaire



- + High efficacy
- + Quick and easy installation
- + Throughwiring and slidable mountings brackets
- + Very long lifespan: 100.000hrs

### START Waterproof Tubular

High performances  
weatherproof luminaire



- + Good efficacy
- + Very robust IK10/IP66
- + Quick and easy installation
- + Slidable 304 stainless steel fixing brackets

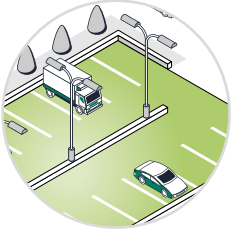
### START Waterproof Housing

For use with LED tubes



- + 1200mm & 1500mm single & twin versions
- + Robust IK08/IP65
- + Stainless steel fixing brackets for ceiling mounting





## Outdoor Carpark

An efficient lighting system is a crucial element in ensuring the safety of an outdoor parking area. Whether you opt for luminaires on poles or wall brackets, it's essential to choose durable solutions that can withstand the harshest weather conditions. Additionally, the lighting system must have a long service life, as maintaining fixtures installed at a height can be challenging, time-consuming, and costly. By choosing a robust lighting system, you can avoid costly repairs or replacements and ensure consistent, long-term performance.

### CHALLENGES

#### Security

The primary purpose of this type of lighting is to ensure the safety of users by providing visibility and illumination in all weather conditions.

#### Sustainability

Outdoor luminaires need to be resilient and long-lasting to reduce maintenance-related interventions and withstand different climates and environmental conditions.

#### Energy saving

This lighting system is designed with high luminous efficiency, allowing for maximum energy savings compared to traditional solutions.

### Raiden

#### Exterior LED Floodlight



High efficacy



Asymmetrical & Wide Beam angle



Heavy-duty (IP66/IK08)



Very long lifespan: 100.000hrs





## OTHER LUMINAIRES

### Kalani

Exterior LED Floodlight



- + High efficacy
- + Asymmetrical & Wide Beam angle
- + Heavy-duty (IP66/IK08)
- + Very long lifespan: 100.000hrs

### Zephyr

LED Lantern



- + Good efficacy
- + Heavy-duty (IP66/IK08)
- + Highly efficient thermal design:  
ta -30°C - +50°C
- + Photocell version
- + Long lifespan: 90.000hrs



## Office & Breakout

In both collective and individual offices, lighting plays a crucial role in creating a comfortable and productive environment. As employees spend a considerable amount of time in these spaces, it's essential to have lighting that adapts to their individual needs. For tasks that require targeted lighting, Sylvania offers dynamic lighting solutions designed for open spaces.

Ultimately, choosing the right lighting system for a workspace is essential for creating an environment that fosters creativity, productivity, and overall well-being.

### Optix LumiNature

Low-glare office lighting



Human Centric Lighting (HCL) enabled



Dynamic light, adapted to the circadian rhythm



Excellent colour rendering CRI97



UGR <16 & Luminance <200cd/m

### CHALLENGES

#### Productivity

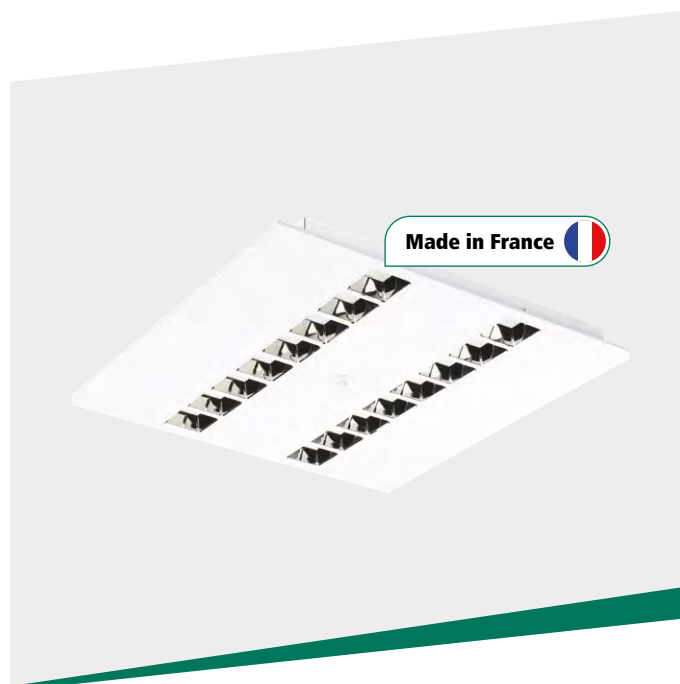
A lighting system that can adjust to the changing natural light conditions during the day can significantly improve concentration and increase the quality of work.

#### Well-being

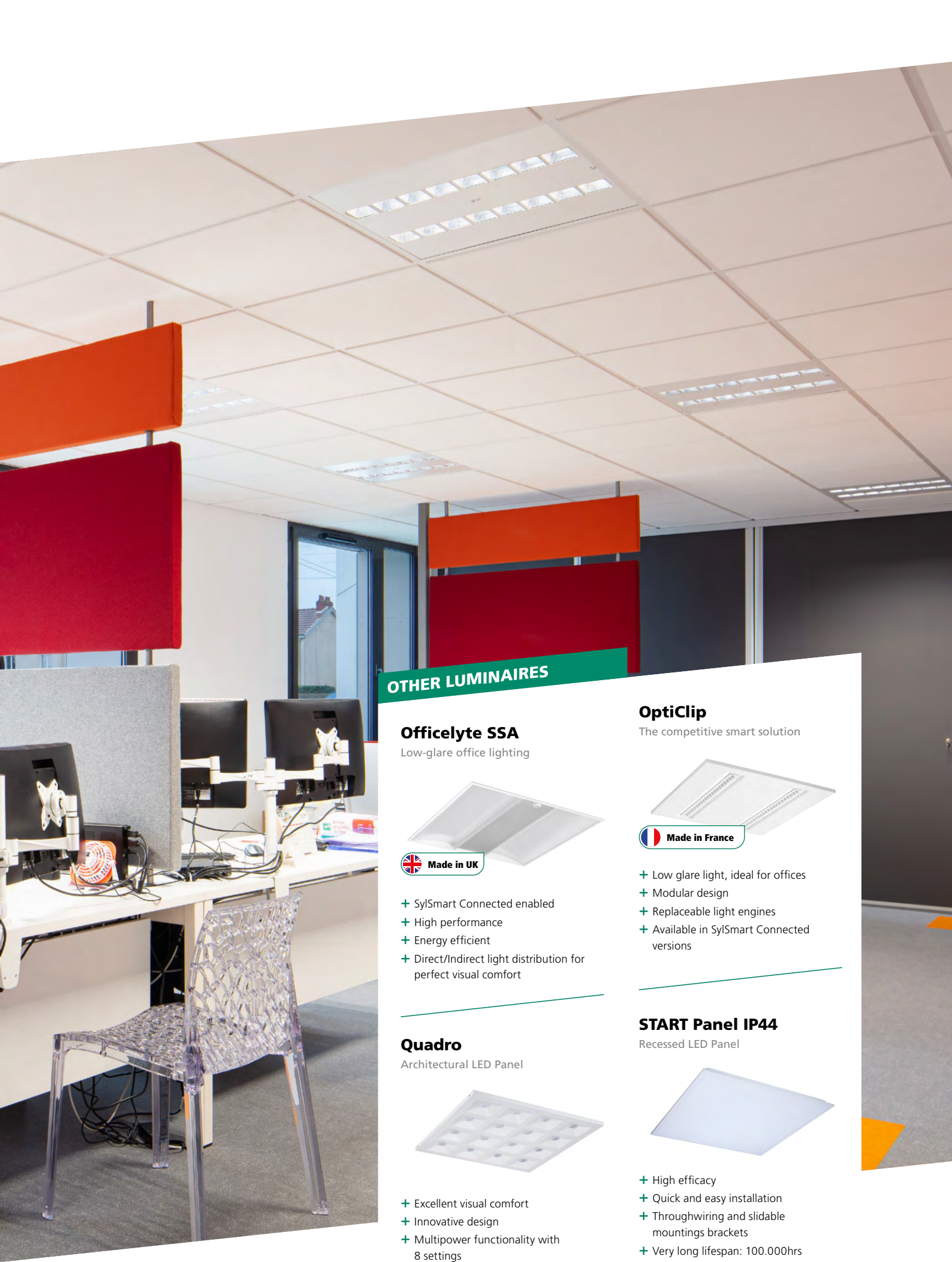
Spending extended periods indoors can expose us to artificial lighting that can impact our cognitive abilities and overall well-being. It's essential to integrate high-quality lighting that imitates natural light as closely as possible to ensure maximum comfort and productivity.

#### Energy-saving

Incorporating sensors and advanced management systems in lighting solutions can maximise energy savings while maintaining optimal lighting levels.







## OTHER LUMINAIRES

### Officelyte SSA

Low-glare office lighting



 Made in UK

- + SylSmart Connected enabled
- + High performance
- + Energy efficient
- + Direct/Indirect light distribution for perfect visual comfort

### Quadro

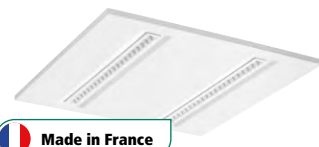
Architectural LED Panel



- + Excellent visual comfort
- + Innovative design
- + Multipower functionality with 8 settings

### OptiClip

The competitive smart solution



 Made in France

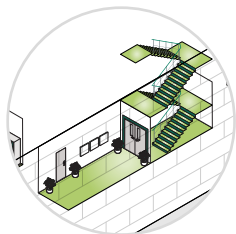
- + Low glare light, ideal for offices
- + Modular design
- + Replaceable light engines
- + Available in SylSmart Connected versions

### START Panel IP44

Recessed LED Panel



- + High efficacy
- + Quick and easy installation
- + Throughwiring and slidable mountings brackets
- + Very long lifespan: 100.000hrs



## Corridors & Stairways

In a workspace, lighting plays a crucial role in facilitating the movement of people in hallways and stairways. Since natural light is often absent in these areas, the lighting must offer excellent visibility to ensure everyone can move around safely. Additionally, it's important to maintain a synergy between the lighting and the interior architecture, where possible, to create a cohesive environment.

Investing in high-quality lighting solutions that meet both functional and aesthetic requirements helps in creating a safe and pleasant workspace.

### CHALLENGES

#### Accompaniment

By providing high-quality lighting on walls and ceilings, you can guide movement, create harmony, and enhance often neglected areas in a building.

#### Security

Safety is paramount in high-traffic areas such as stairways and hallways. Choosing the right lighting can provide good visibility and ensure everyone's safety.

#### Energy-saving

Incorporating motion sensors in lighting solutions can significantly maximise energy savings. This also makes lighting systems more sustainable and cost-effective in the long run.

### INSAVER SLIM

Low-glare downlight



Reduced glare of UGR<19



Wide range of lumen packages



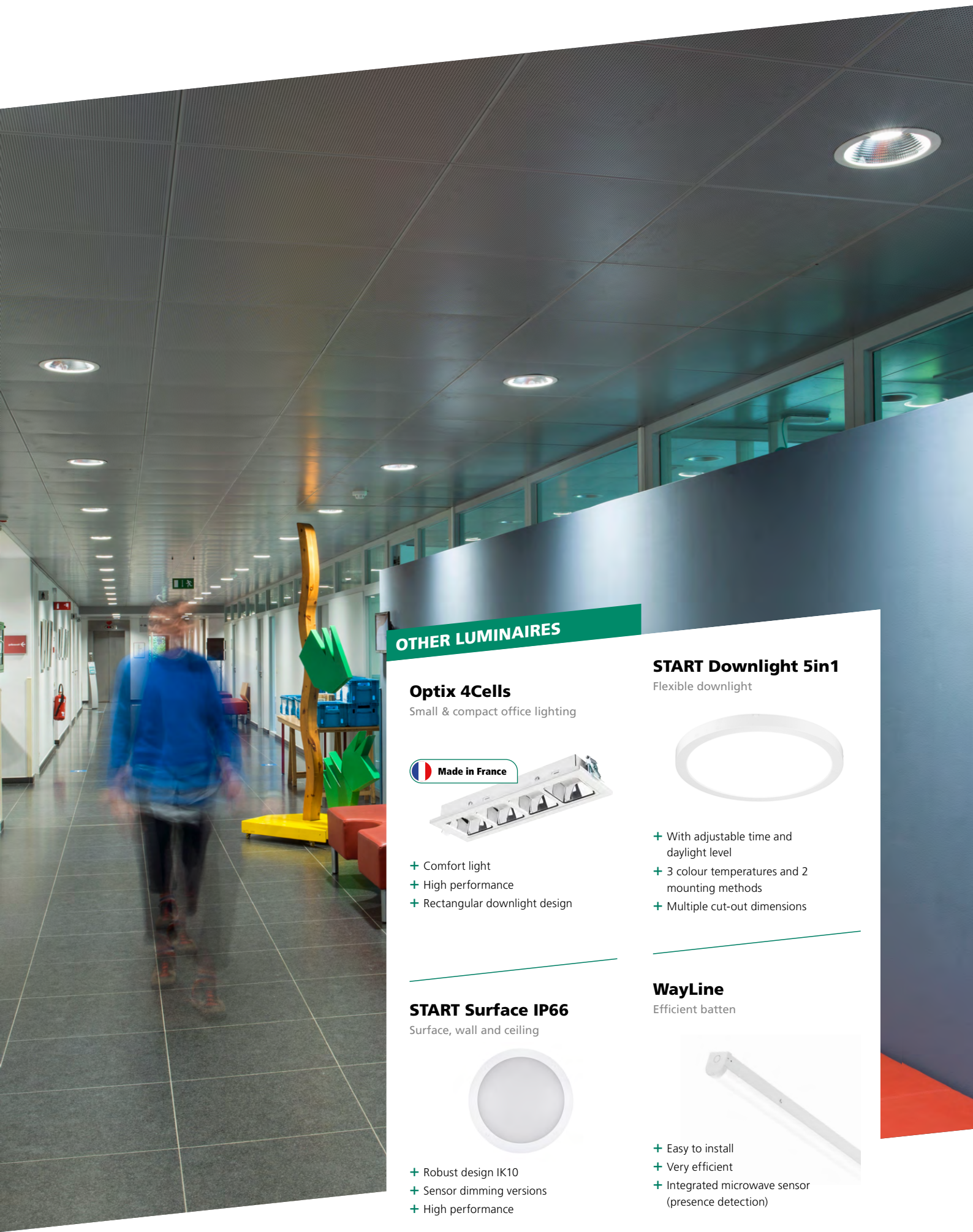
DALI and SylSmart  
Standalone versions available



Very long lifespan: 100.000hrs







## OTHER LUMINAIRES

### Optix 4Cells

Small & compact office lighting



- + Comfort light
- + High performance
- + Rectangular downlight design

### START Downlight 5in1

Flexible downlight



- + With adjustable time and daylight level
- + 3 colour temperatures and 2 mounting methods
- + Multiple cut-out dimensions

### START Surface IP66

Surface, wall and ceiling



- + Robust design IK10
- + Sensor dimming versions
- + High performance

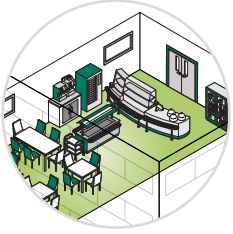
### WayLine

Efficient batten



- + Easy to install
- + Very efficient
- + Integrated microwave sensor (presence detection)





## Company Restaurant

A well-balanced and nutritious diet can have a significant impact on concentration and productivity. Therefore, it's essential to provide employees with healthy meal options that can fuel their energy and improve their overall well-being. A company canteen or cafeteria with a welcoming ambiance can create a pleasant environment for employees to relax and unwind during their breaks.

Adequate lighting design in the company canteen or cafeteria can enhance the ambiance and create a positive impact on employees' moods and emotions.

### OptiClip SSA

The competitive smart solution



Low glare light



Modular design



Replaceable light engines

### CHALLENGES

#### Comfortable Dining

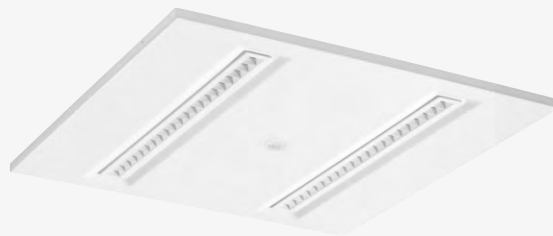
Creative lighting solutions can be used to create a cozy atmosphere that encourages users to take a break from work and socialise over a bite to eat or a cup of coffee.

#### Hygiene Standards

Food preparation areas require functional lighting solutions that meet strict hygiene standards to ensure staff can work safely and efficiently.

#### Atmosphere

Decorative lighting can be used to create a sense of calm and promote a positive work culture. Mood lighting can create a warmer, more intimate atmosphere that fosters creativity and collaboration.





## OTHER LUMINAIRES

### INSAVER SLIM

Low glare downlight



- + Reduced glare of UGR<19
- + Wide range of lumen packages
- + DALI and SylSmart Standalone versions available
- + Very long lifespan: 100.000hrs

### START Downlight IP44

Recessed and surface downlight



- + Good efficacy
- + SylSmart Standalone enabled
- + Shallow recess depth of <65mm

### START Panel IP65

Recessed LED panel



- + High efficacy
- + Slim size
- + IP44 rated from the front

### Colossal

Architectural luminaire

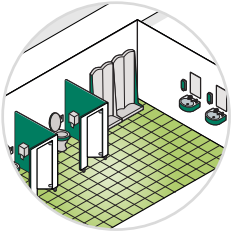


- + Wide variety of dimensions
- + Direct and direct + halo distribution
- + DALI and SylSmart versions available



Made in France





## Sanitary Areas

Efficiency and comfort are essential aspects of washroom lighting. While the decorative element may not be a priority in this area, Sylvania provides designer luminaires that are specifically designed for wet areas and comply with the IP44 standard. The presence of sensors ensures that the lighting is optimal for the conditions and guarantees a comfortable user experience.

### CHALLENGES

#### Limited maintenance

Limited maintenance is crucial in controlling costs associated with lighting in sanitary facilities. The lighting system must be both functional and durable, minimising the need for maintenance and repair costs.

#### Energy savings

Energy savings can be achieved by incorporating presence sensors, which can be programmed to turn the lighting on only when the facilities are in use.

#### Easy installation

Easy installation and quick mounting options help to minimise disruption during fixture replacement or maintenance.

### INSAVER SLIM PIR

Low-glare downlight with PIR sensor



Reduced glare of UGR<19



Master/Slave feature

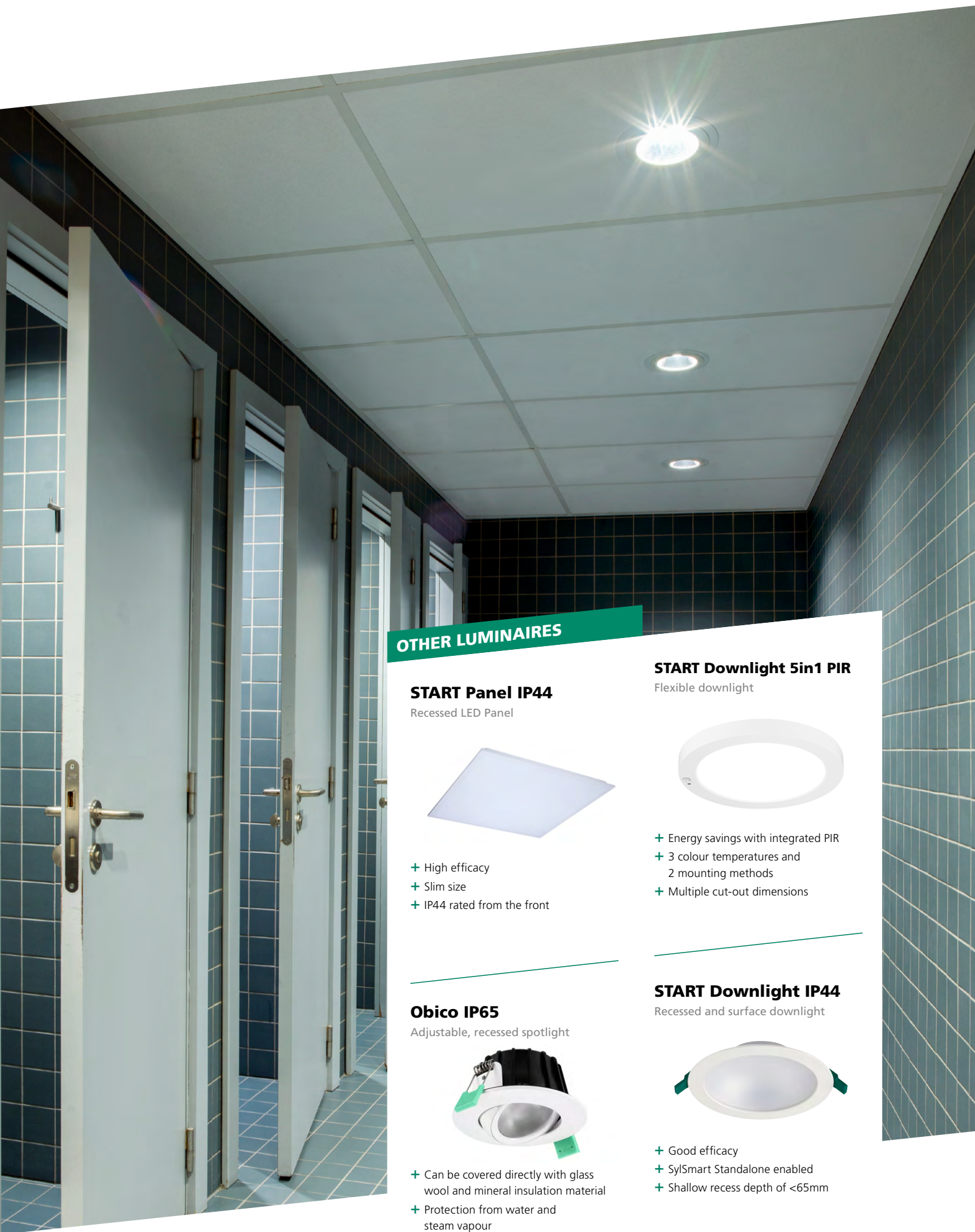


Energy savings with integrated PIR



Very long lifespan: 100.000hrs





## OTHER LUMINAIRES

### START Panel IP44

Recessed LED Panel



- + High efficacy
- + Slim size
- + IP44 rated from the front

### START Downlight 5in1 PIR

Flexible downlight



- + Energy savings with integrated PIR
- + 3 colour temperatures and 2 mounting methods
- + Multiple cut-out dimensions

### Obico IP65

Adjustable, recessed spotlight



- + Can be covered directly with glass wool and mineral insulation material
- + Protection from water and steam vapour
- + 360° adjustability

### START Downlight IP44

Recessed and surface downlight



- + Good efficacy
- + SylSmart Standalone enabled
- + Shallow recess depth of <65mm



## A made-in-Europe know-how at your service

**Sylvania is a leading provider of total solutions for professional and architectural lighting. With nearly 100 years of expertise in luminaires and lamps, Sylvania has an extended offer for the public, private and commercial sectors. Choose our quality guarantee, and as Sylvania is not only a manufacturer, there is also a complete range of services at your disposal. Allow yourself a full serenity with Sylvania's expertise and be assured that all your lighting projects benefit from perfectly mastered solutions.**

### Made in Europe

We take pride in having local Research and Development and production facilities throughout Europe. Our factories and production units are located in France, England and Germany. Our Research and Development offices are a leading part of our organisation and allow us to be at the forefront of technological innovations, and to be constantly on the lookout for new developments, whether it be emerging uses by occupants, environmental challenges, or compliance with new regulatory standards. This company structure is a guarantee of quality, and a reflection of our strong social, work-policy and environmental commitments.

On this point, the manufacturing process and the European design approach significantly reduce the carbon footprint of our products.

### Sylvania organisation for a customised support

With an agile and flexible approach, Sylvania designs bespoke solutions tailored to our clients' individual requirements. Adapting to any 'lighting intention', our job is to create and develop eco-efficient lighting solutions to meet each of your projects. Once your needs are clearly identified,

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**22**

production units  
in the Newhaven factory (GB)

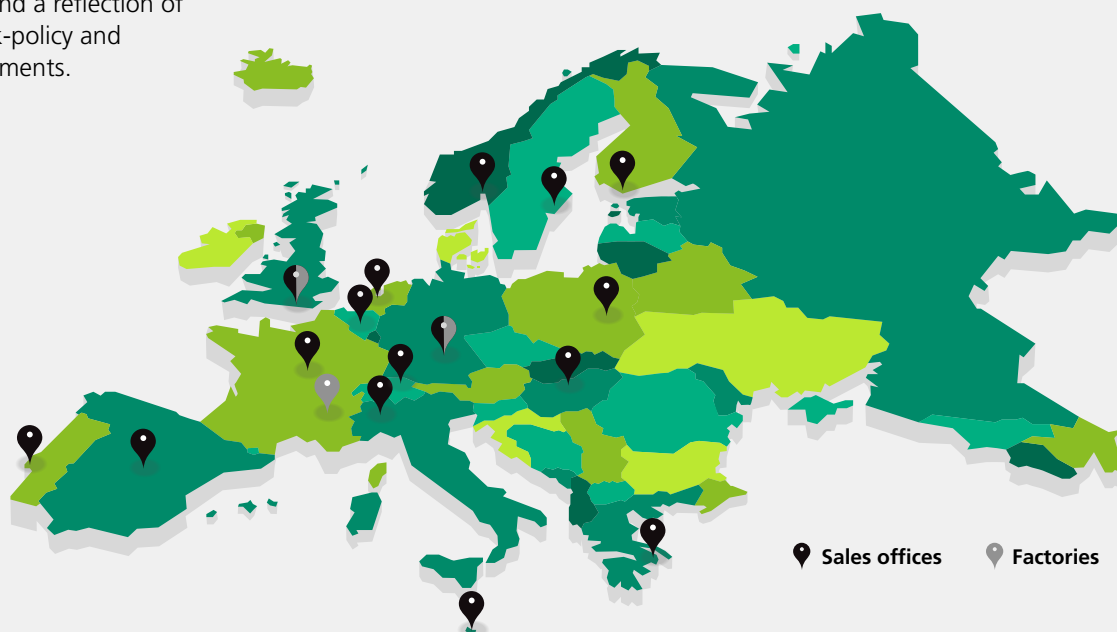
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**42 000 m<sup>2</sup>**

of French, English  
and German factories

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Production in our  
Erlangen factory  
in Germany.

the coordination with our R&D offices is the key turning point to make sure the best products and solutions are implemented, with the operational support of our production units.

#### **Our custom-made services**

Sylvania is not just a manufacturer. Whatever your project, benefit from our on-demand services designed to support you from A to Z. From the detailed analysis of your lighting systems, the installation and optimization of your installations and eco-performance, compliance with regulations, and financing solutions, Sylvania is an expert at your side, each step of the way.

## 30%

of the production of the  
French factory corresponds  
to special luminaires

## 63%

of the German's production  
corresponds to lamps



#### **DID YOU KNOW?**

As the demand for luminaires with integrated HVAC (heating, ventilation, and air-conditioning) is increasing tremendously due to its numerous advantages, Sylvania continues to evolve with your needs and integrates these latest solutions in its offerings.



## Committed to sustainable lighting solutions

Each time we develop a new product and service we engage sustainable practices to deliver optimal lighting solutions while minimising our environmental impact. We employ comprehensive waste and energy conservation protocols that involve everyone in the business and extend to all areas of our operations.

We believe a responsible business is a healthy business and the prosperity of business and society is closely connected. Our mission is to bring technology, creativity, and innovation together through our products, services, and people to enhance energy efficiency, improve sustainability, increase connectivity, and promote wellbeing.

By mobilising our collective strength and strategic commitments to focus on creating healthy communities and a healthy environment, we can achieve long-term value and have a positive impact on society.

### Recognised for our contribution

Sylvania is a business with a culture that places its people at the centre of all it does. We provide a professional, inclusive environment that helps our employees excel at everything they do, with policies in place to ensure we continue to evolve and adapt to the world around us. We want a career with Sylvania to be challenging, rewarding, and fulfilling, where our people can reach their potential both personally and professionally.

We are a progressive and innovative global business dedicated to delivering excellent products and services to our customers and an inclusive work environment for our employees. We value our people, their experience, their ideas, and their contribution and we thrive on empowering each other so we can grow and develop together.

### Intelligent lighting for the future

Sylvania invests in delivering advanced solutions that enhance people's lives and help create better environments. Innovations such as Helios and Helios Flex offer so much more than quality lighting solutions, they represent the foundations on which future innovation can be built and deliver sustainable cost and energy efficiencies.



Our approach to creating an inclusive and sustainable business is recognised through our bronze certification from Ecovadis, one of the world's most recognised business sustainability ratings. This measures non-financial management systems and sits alongside our internal metrics, which we evaluate against industry best practices in a global context and employ continuous improvement principles to ensure we remain ahead in our market.





### Made in Europe

Our heritage as a leading manufacturer of quality lighting solutions dates back more than 120 years and we are proud of our history of European production. With manufacturing and R&D facilities located in France, Germany, and the UK we can design, develop, and produce innovative lighting solutions and deliver them to market with pace and agility whilst significantly reducing our carbon footprint.

Our European facilities are ISO9001, ISO14001, and ISO50001 certified, underlining our alignment with the principles of responsible manufacturing, and our continued commitment to reducing emissions and managing our waste.

Technology plays a critical role in increasing energy efficiency while enhancing luminaire performance and our comprehensive portfolio contains an extensive range of lighting solutions manufactured to the highest quality standards that offer extended lifetimes. We take responsibility for managing the full life cycle of products and have plans to embrace the principles of the circular economy in our approach to sustainability on future product development projects. Placing greater emphasis on product design helps us proactively reduce emissions and manage waste and encouraging their sustainable consumption keeps them in active use for longer. The interchangeable components of some of our products increases their lifecycle and makes them in-line with our circular economy approach.

### Sylvania's CSR pledge by 2030



To become a net-zero emissions company



All company cars to become electrical



To create and implement a circular economy business model



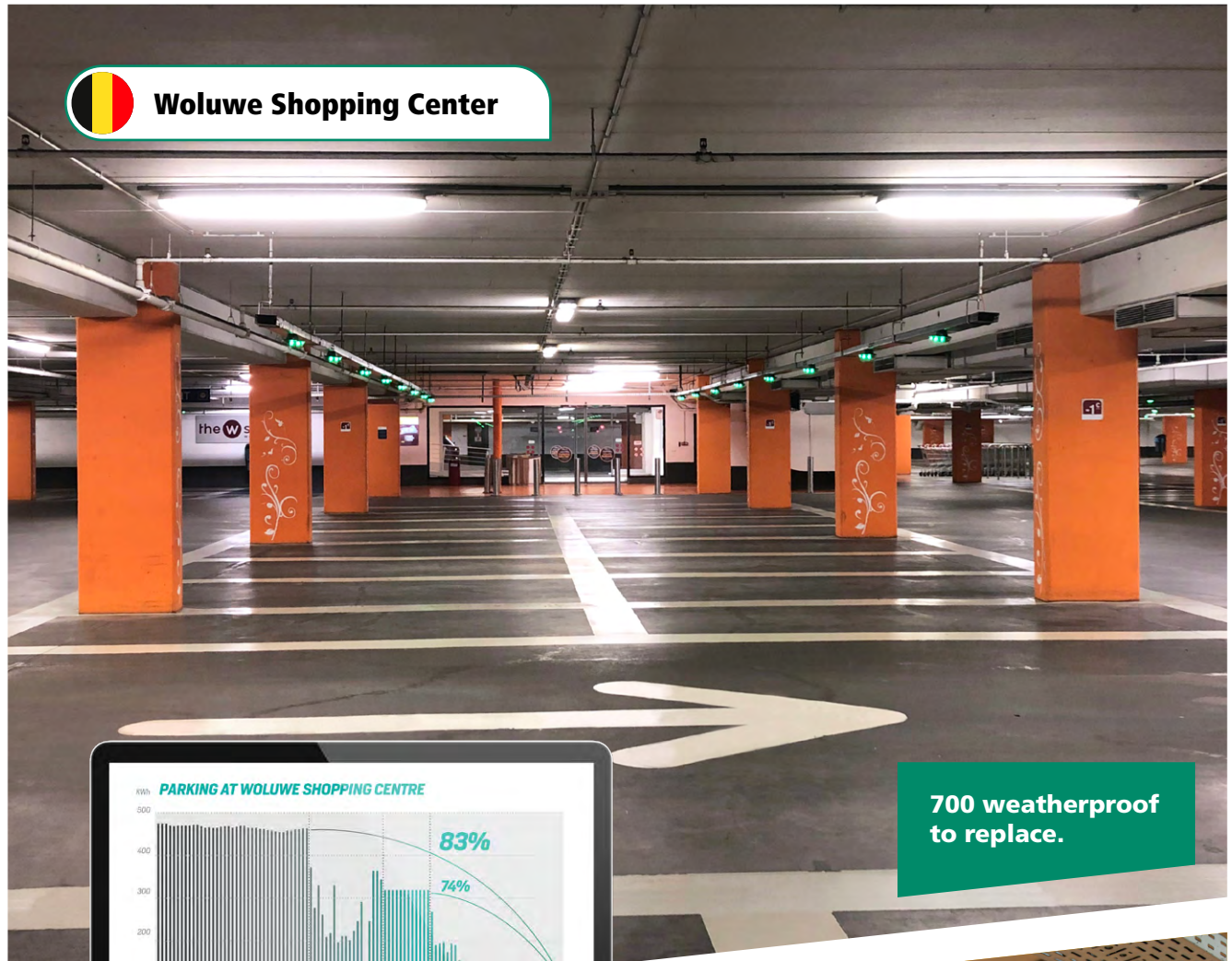
*"Sylvania is a responsible business. We strive to comply with the highest quality standards when it comes to our employees, customers, partners, and the environment. The commitment to our new CSR strategy is to improve and increase the sustainability of the company and all our stakeholders based on three main pillars - environment, social and governance (ESG). We have a clear vision for our future, we have the people to make the change and I strongly believe that collectively we can become a net-zero business by 2030. We will do this for ourselves and for the generations to come."*

**Eduardo Fuentes, Environmental & Sustainability Director EMEA**





## Woluwe Shopping Center



700 weatherproof to replace.



Total energy & carbon savings of

# 83%

thanks to

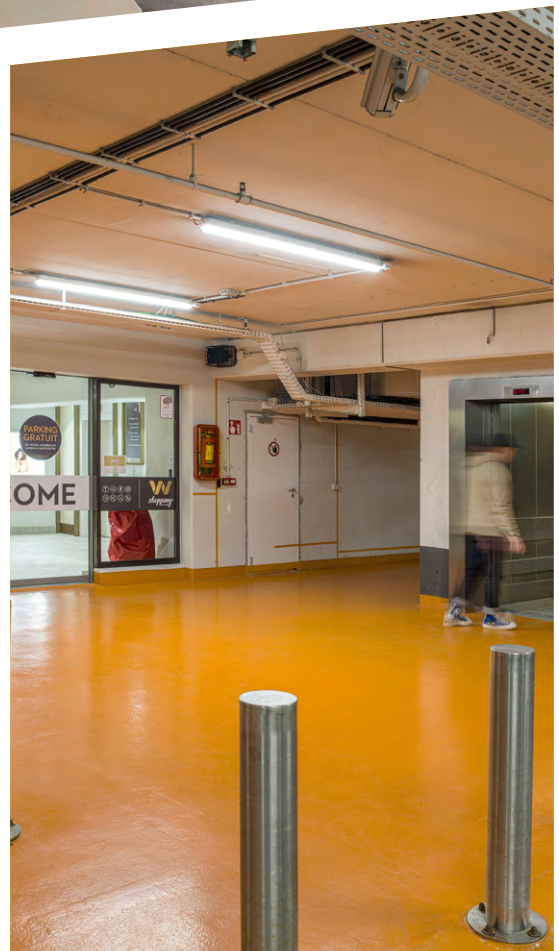


**SylSmart Connected**

and verified by



**SylSmart Energy**







**Groupe Barre Logistique**



**70%**

**energy savings  
with immediate**

**Return on Investment**

**thanks to**

**Smarter Finance**

**A 30.000m<sup>2</sup> site  
to renovate.**



**LOGISTICS & INDUSTRY**



Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Feilo Sylvania International Group Kft.

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