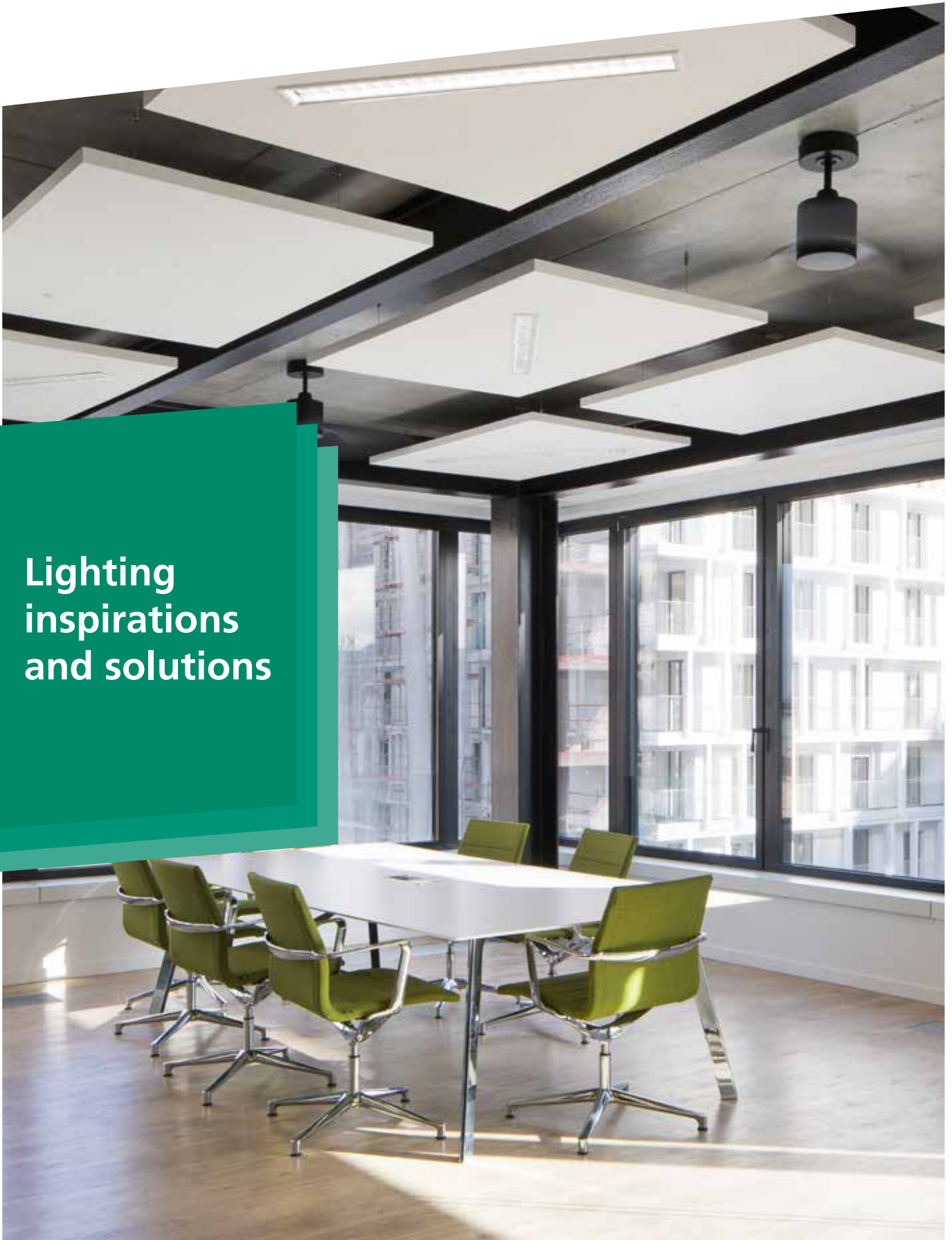


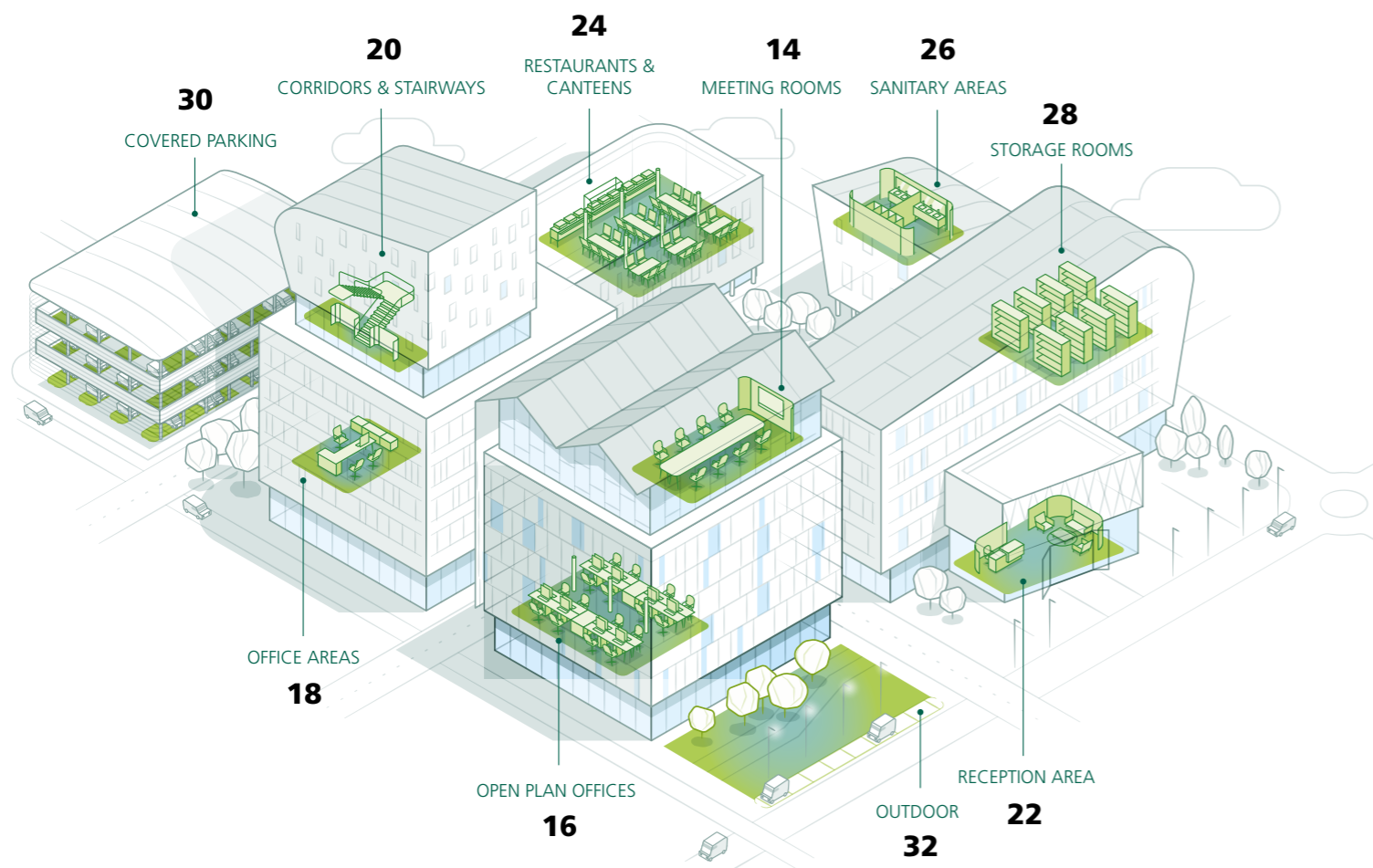
**SYLVANIA**

Lighting  
inspirations  
and solutions

FUTURE OFFICE

Light your world





## From workplaces to living spaces: the transformation of offices

Workspaces have recently undergone profound change. Increasingly stringent regulations, costs of buying or renting, energy efficiency considerations, and the well-being of occupants make its evolution more necessary than ever. In addition, remote or flexible working requires workspaces to adapt at a steady pace.

Offices are a place where people not only work, but live. Lighting is an essential element of office design and is evolving according to these new paradigms by embracing a biophilic approach, where natural elements in buildings contribute to the well-being and performance of employees. Beyond a necessary visual source, lighting has therefore become a strategic factor.

Over many years Sylvania have developed extensive knowledge from application and research of how to employ lighting in offices. More than just a manufacturer, Sylvania conceives lighting as an ergonomic parameter and helps you assess your needs and designs your projects hand in hand with your architects, with one human centric interest: taking care of your most valuable asset – people.

### Content

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Design: magamo – Photo credit: ABCD Stock, Delphotostock, Arthur Pequin, Alain Pierot, Seventyfour, Sylvania – Illustrations: Antoine Dagan.



The awareness of our ecological footprint is increasing the focus we need to place on reducing its size.

**ENVIRONMENTAL CHALLENGE**

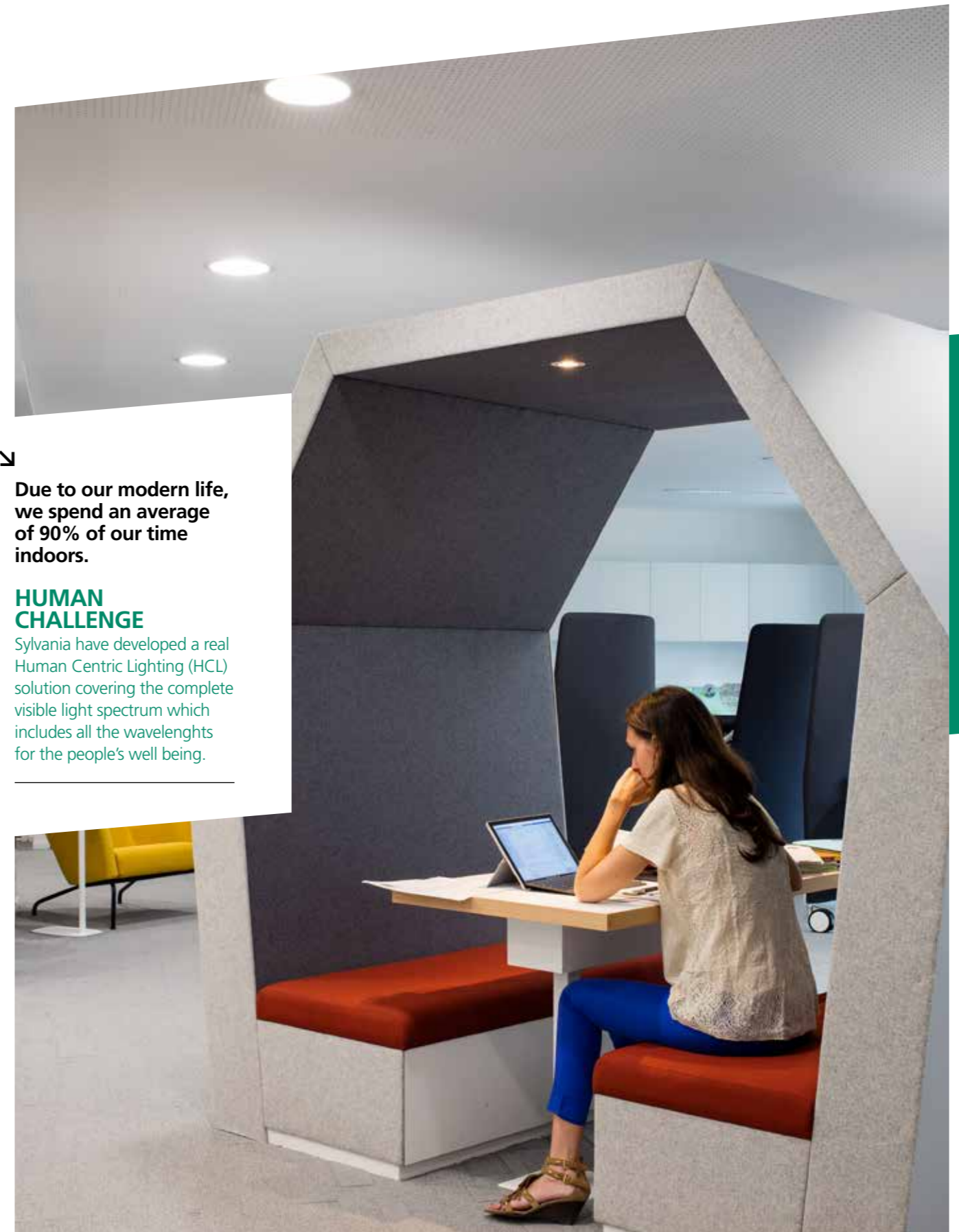
A sustainable building contributes to energy savings and the massively growing number of environmentally certified buildings shows that this trend will leave a lasting impact on the international building sector in the future.



The office of the future is more than a workplace, it is also a place that needs to respond to many functional needs.

**PERFORMANCE CHALLENGE**

Sylvania lighting solutions help to reduce operating and energy costs, improve the sale or rental value of the office, and enhance the performance and productivity of employees – all at the same time.



Due to our modern life, we spend an average of 90% of our time indoors.

**HUMAN CHALLENGE**

Sylvania have developed a real Human Centric Lighting (HCL) solution covering the complete visible light spectrum which includes all the wavelengths for the people's well being.

## Natural light:

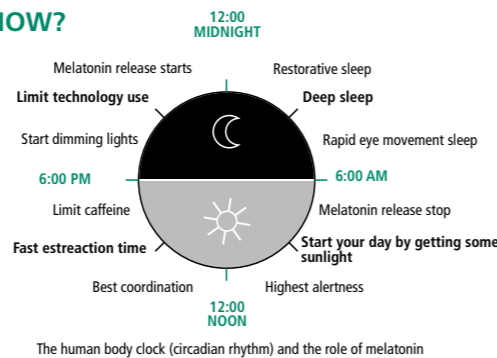
A source of well-being and productivity

According to the latest studies, people spend approximately 90% of their time indoors\*. This means that we are most often subjected to artificially lit environments and are deprived of the benefits of sunlight. As natural light rules our biological rhythm, it is of the greatest importance for well-being and productivity, at any time of the day. With a real Human Centric Lighting solution, Sylvania brings a game-changing innovation, recreating the full spectrum of natural light.

### The benefits of natural light

Natural daylight plays a major role in our lives: it enables us to see life with its true colours, but it goes far beyond that and influences our bodies' behavioural patterns. Sunlight helps our body to produce vitamin D, essential to our bone structure and well-being. It regulates our circadian rhythms, which are the patterns that our body uses to coordinate all its activities, from sleep/wake cycles, digestion, cell-regeneration, to cognitive functions, even mood and motivation levels. As a healthy exposure to natural light also governs our quality of sleep, it is strongly linked to performance and productivity during daytime. Benefiting from the natural light is quite easy when working outdoors, but our modern offices are faced with real challenges to keep our body and mind healthy.

### DID YOU KNOW?



Melatonin is often referred to as a sleep hormone that regulates our chronobiological rhythms. Furthermore, it is an antioxidant as well as an anti-aging hormone. Melatonin is vital to the wellbeing of humans. Its production is heavily influenced by the right kind of light at the right time of the day, which the sun delivers effortlessly. Therefore, the most natural artificial light indoors is key for the health of occupants.

### LUMINATURE IN YOUR OFFICES



Sylvania LumiNature marks a new era in human centric lighting: it recreates sunlight. Its complete spectral curve with eliminated blue peaks and truest colours makes it one of the most natural artificial lights. LumiNature gives you something that even the sun cannot: dynamic lighting control. The SylSmart Standalone Office and Connected Building control options offer you full optimisation and tunability. LumiNature is the perfect solution to bring sunlight indoors and is ideal for:

- Deep space offices (without windows) to bring natural light inside
- Offices with extended working hours (24h a day)
- Offices requiring a high level of detailed work such as quality control and colour checking

Revolutionary, human-tailored light. Designed for better living.



Institut Gustave Roussy, Villejuif (94), France

### Recreating the natural spectrum of the sun: one of the biggest challenges in lighting industry

Both natural and artificial lights are composed of a spectrum of colours. With LumiNature by Sylvania, the real Human Centric Lighting solution delivers a complete and balanced spectral distribution with all colours of light while eliminating the blue peak. Thanks to our wireless SylSmart system, it is even possible to program a personalised light control of your environment (*more details p. 10*).

### Natural lighting: many benefits for the occupants

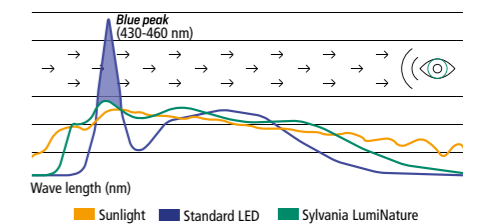
Three different types of benefits are achieved when a professional

environment is lit with a real HCL solution. First, it enables visual eye comfort and visual acuity: it perfectly renders colours which is essential in many fields such as design, fashion, food, etc. The second benefit is the respect of our circadian rhythms: it favours a good sleep quality, and therefore increases alertness during waking periods, enhances performance and productivity.

Thirdly, it contributes to the control of melatonin, which is paramount for the general health and well-being. Sylvania LumiNature encompasses these three benefits and perfectly responds to the lighting challenges of today and tomorrow.

### HCL, TUNABLE WHITE: LET'S TAKE STOCK

While many lighting solutions claim to be Human Centric Lighting (HCL), they only focus on the intensity and on the colour of light, from warm to cool. These are Tunable white solutions and do not eliminate the blue peak at 430-460nm level. LumiNature, the real Human Centric Lighting by Sylvania, is the only available solution that provides the most natural artificial light.



*"Light is a biological synchronizer. Its function is not only to see, but also to coordinate living things. LumiNature is the first solution allowing a real action on our biological clock by regulating our melatonin secretion according to the time of day. LumiNature energises us and offers us a healthy and rich light during the day with a high Melanopic Ratio (>4000K), while for nighttime applications, we can instead make the light soothing with a low MR (<3000K)."*

Yann Chevrier, Deal Manager at Feilo Sylvania France.

\*2018- YouGov survey "Indoor Generation" -16,000 people in 14 countries in Europe and North America

## Light design: from a functional to sensitive approach

There is what our eyes need to see, and how our eyes experience what they see. Interior architecture has long since gone beyond the simple functional aspect of spaces, so has lighting. Artificial light has become an ergonomic and organic parameter in office design. With a sensitive approach, lighting design enables you to reveal spaces and built structures, night and day, and enhances the way light is perceived.

### Light enables us to see

In optics, light is the phenomenon at the source of a visual sensation. The first component of lighting design is functional. The factor considered here is quantitative. Our eyes need enough light to see. Not enough light is a source of eye strain, and postural discomfort. Moreover, if the lighting from digital screens contrasts too much with the lighting environment, there is a danger to eye health. Too much light, on the other hand, is a disturbing factor. So, the right amount of light is essential for eye comfort, at any time of the day. But beyond vision, light design also answers to other needs.

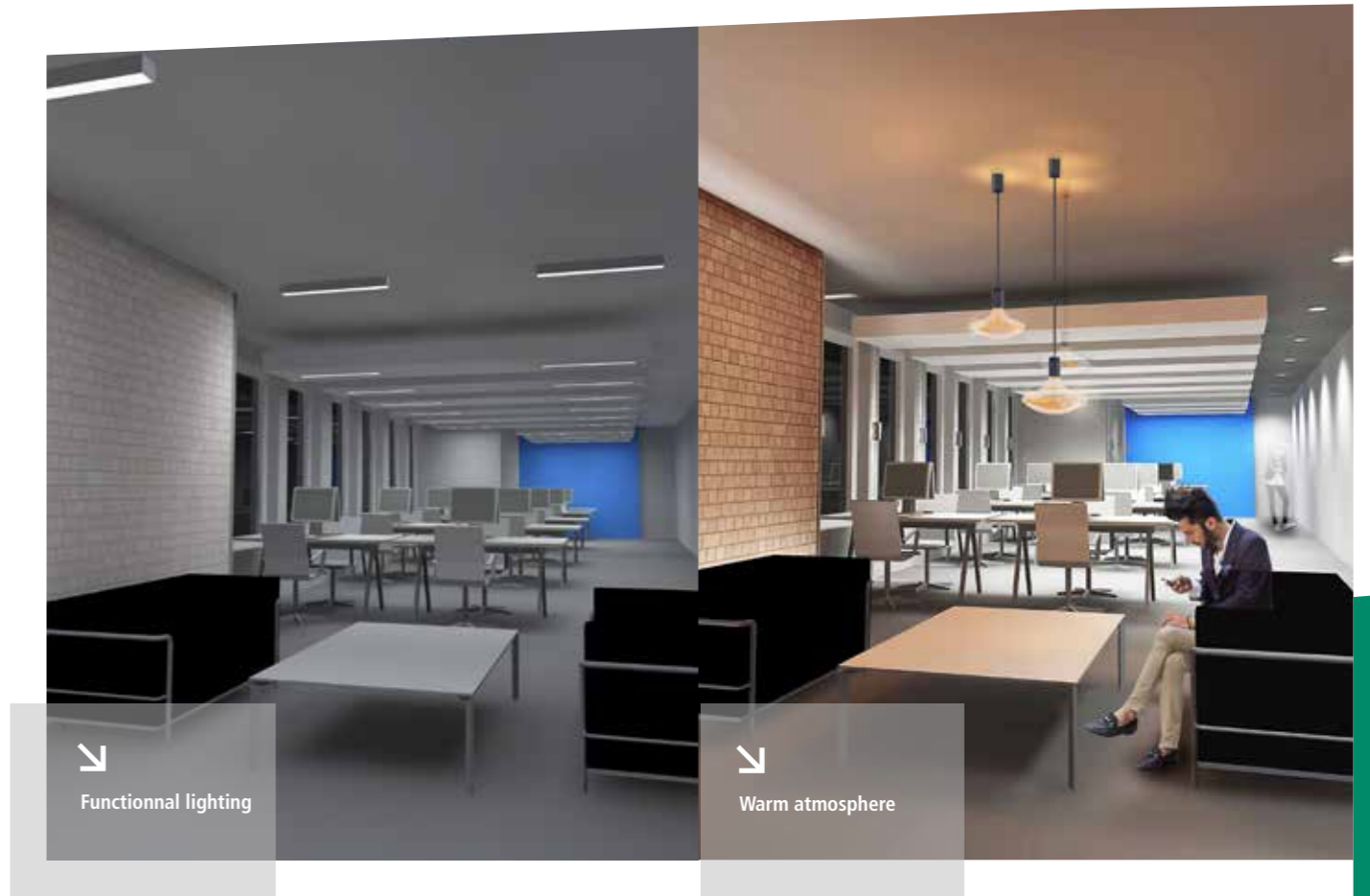
### Light is a structural element of space

Light plays an important role in interior design, in both the creation and definition of spaces. Would you imagine an art exhibition without a proper lighting to enhance its beauty? Probably not. We can apply the same logic to a workspace. Light assumes an architectural dimension and allows the space to be modulated in both a precise and subtle way. It discriminates the different volumes within a space, gives a clear hierarchy in the zones, and creates a tangible dynamic by playing with different sources, intensities of light, and types of luminaires.

Light wouldn't be properly revealed without shadow. In a lighting design approach, light is not homogeneously distributed. This allows to give contrast, to guide the circulation of occupants within the office, and to structure an open space with its several usages such as meeting rooms or resting areas.

### Light is emotional

In addition to seeing and interior design, the third pillar of lighting design is all about experience. It is essential to first define the objectives, the functions, but also the emotions that we expect to see expressed in each space. The combination of these three pillars is the condition for a successful lighting project.



Functionnal lighting



Warm atmosphere

Actively participating in the wellbeing and comfort of occupants, lighting design sheds valuable perspective on the sensitive approach of spaces.

Whether you are seeking a peaceful or energizing atmosphere, the setting and choice of luminaires will be custom-made to fit your every need.

Embracing new codes, lighting design takes into account the natural-like spectrum to provide a quality of lighting close to natural light. With the use of technical and theatrical photometry, we are able to create diffused lighting suited to the relaxing ambience of a hotel setting. Favoring your offices can now develop beyond their prime function as a workspace, and become spaces where it feels good to work in.

### DID YOU KNOW?

Lighting designers work hand in hand with architects and interior designers to conceive, structure, or renovate space. Lighting designers are both consultants and technicians, with a thorough approach to all aspects and functions of light.

Sylvania has an integrated research department of lighting designers who will accompany you from design to installation. Its expertise in custom construction and the quality of its glass will allow a multitude of configurations. Masters of light, they can help you create a perfect atmosphere and harmoniously align your spaces.

### PHOTOMETRY IN A NUTSHELL

Simply put, photometry is the measurement of visible light as perceived by the average human eye. The measuring unit of illuminance is the lux, which indicates the amount of illumination a given surface unit receives.



*"In some design exercises, you need attention to details, and you have many things to take into consideration. Lighting guides and recommendations are there to be used and understood, but certainly not blindly followed. Personal preferences, architecture, decorative elements, etc., are equally important to consider when making a decision whether to abide by or depart from standards."*

Zsolt Bodzay, Head of Lighting Design, Feilo Sylvania International Group Kft

## A smart solution to every need

When creating a lighting design, thought should be given to the ease of installation as well as the financial and environmental costs. Whilst the comfort of occupants should remain the core consideration, modern society demands the delivery of sustainable solutions where comfort, simplicity, energy-efficiency, and a respect for the environment can be equally reconciled.

### A new generation of connected lighting

Intelligent lighting systems make significant contributions to the eco-performance of office buildings and introducing flexible solutions can deliver the desired functionality and aesthetics whilst also providing enhanced energy efficiency and cost-savings. With its wireless technology, sensors, and distributed intelligence, Smart Lighting is the backbone of the digital infrastructure of buildings. The ability to sense occupancy and natural light levels, combined with cutting-edge wireless Bluetooth mesh networking technology, enables SylSmart luminaires to deliver an optimum lighting

experience that's installed with minimal disruption and programmed with intuitive tools. Lighting can now be tailored to the needs of individuals across entire buildings, maximising comfort, increasing productivity, and improving the wellbeing of occupants, as well as delivering significant energy savings. Leveraging data such as energy usage, occupancy information and more, SylSmart can be utilised within the larger world of IoT to augment the efficiency of other systems and help drive down operational costs and dramatically cut CO<sub>2</sub> emissions. SylSmart is an IoT connected lighting infrastructure that delivers so much more than just light.

**30%**

The % of the total electricity consumed in a commercial building attributable to lighting\*

**84%**

The amount of energy that can be saved by replacing conventional lighting with LED\*\*

### SYLSMART BENEFITS

-  Easy Set-Up
-  Reliable & Secure
-  Dynamic & Flexible
-  Abundant Savings

\*Data sources: DG energy, EU energy in figures, 2012. LBNL (Lawrence Berkeley National Laboratory)  
\*\* Measured and verified savings at Atalian Solutions, Belgium



### SylSmart Standalone

**Maximum control. Minimum installation.** A wireless, plug-and-play lighting control solution perfect for smaller applications where ease of installation is paramount. With low upfront costs and minimal maintenance, SylSmart Standalone allows luminaires to be controlled with precision through its intuitive multifunctional control system. The solution is easy to set-up and offers core functions that include occupancy control, daylight linking tunable white and colour control, grouping, scheduling, and wall switch configuration.

### SylSmart Connected

**Unlock the intelligent building** Using wireless mesh communication technology, SylSmart Connected offers an ideal solution that's easy to install, has low initial costs, and is low maintenance. With integrated multifunctional sensors in each luminaire, the system delivers wireless communication with distributed intelligence and a reliable smart lighting experience. Systems can be scaled to meet the needs of any project size from single offices to complete floors or buildings and are secure and efficient. No additional wires or hardware is required, with remote pre-configuration capability via cloud for a personalised lighting experience.



#### DID YOU KNOW?

Human Centric Lighting solutions and automated lighting systems complement each other beautifully. The two combined offer a true-to-life reproduction of the solar spectrum at any time of the day, for an optimal respect of the occupant's circadian cycle (more details p.6).



*"SylSmart systems and solutions challenge the perceptions of what light can do. Built on foundations of de-centralised controls and distributed intelligence, SylSmart delivers feature-rich experiences with easy installation and programming, built-in flexibility and reliability, underpinned by strong security credentials. It also ensures a future-proof infrastructure that is IOT ready and waiting for you. Sensing and reporting capabilities will take your lighting to the next level. SylSmart - Empowering your digital world."*

Edward Lees, Head of Technical Product Development - Smart and Beyond, Feilo Sylvania Europe Ltd.

## 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 office lighting environment for the users is the biggest challenge for the lighting designers. The interior lighting standards and regulations for offices help to identify the right balance and the proper lighting solution. They are a requisite to comply to, both for the health of occupants, and for the sustainability of your buildings and offices. 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 offices

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 ( $\bar{E}$ ):** describes the quantity of luminous flux falling on a surface. The standard recommends 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).

→ **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 (UGR<19 for working areas in offices) 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).

→ **Colour rendering (CRI):** the 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 Ra = 100. The standard specifies CRI values depending on the visual task to be performed (minimum CRI 80 for offices).

→ **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<sub>min</sub>) and the mean illuminance level ( $\bar{E}$ ).

### The control of lighting and energy-efficiency

The automatic management of artificial light on a space of 25m<sup>2</sup> must ensure a consumption below 1.6W/m<sup>2</sup> 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 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

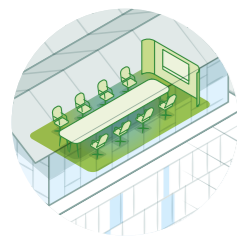
Our products are 100% compliant with EU and UK standards. Many of them are indeed manufactured in France, Germany, and the United Kingdom to guarantee unparalleled quality, in accordance with European standards, and more specially to comply with the EN 12464-1:2021 standard. They respect the different rates and levels required such as glare (UGR<19), the level of luminance (L65 < 3000 cd/m<sup>2</sup>), CRI (80 min.) or low flickering (<5%), for an example.

### LIGHTING OF INDOOR WORKPLACES

EN 12464-1 (August 2021)

TYPE OF TASK/ACTIVITY AREA	$\bar{E}_m$ (LX) (MIN)	$U_o$ (MIN)	$R_A$ (MIN)	$R_{VGL}$ (MAX)	SPECIFIC REQUIREMENTS
Entrance halls & reception areas	200	0.40	80	2	
Corridors & passages	200	0.40	80	22	
Conference and meeting rooms	500	0.60	80	19	Lighting should be controllable
Conference table	500	0.60	80	19	Lighting should be controllable
Reception desk	300	0.60	80	22	
Archives	200	0.40	80	25	
Entrance halls	100	0.40	60	22	
Circulation areas & corridors	100	0.40	40	28	
Stairs, escalators & travelators	150	0.40	40	25	
Canteens & break areas	200	0.40	80	22	
Cloakrooms, washrooms, bathrooms, toilets	200	0.40	80	25	





## Meeting rooms

The way we work has changed. No longer is everyone required to attend a meeting in person, with many now able to participate remotely via videoconference. The demands on lighting meeting rooms have therefore also changed, with flexible lighting capable of adapting to different requirements key to ensuring everyone can see and be seen clearly during discussions.

### ISSUES

#### Uniform light

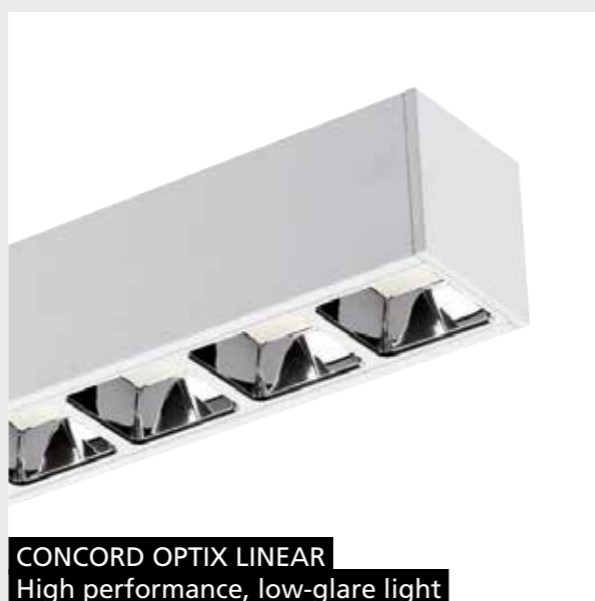
is important, so that all areas of a meeting space receive the same amount of light and participants enjoy the same visual comfort.

#### Precise and user-friendly lighting

is guaranteed by introducing lighting controls so the levels of light can be tailored to specific needs, such as lowering to improve visibility during presentations.

#### Energy savings

are available using smart controls, allowing lighting to be programmed to operate only when needed and automatically switch off when meeting rooms are no longer in use.



**CONCORD OPTIX LINEAR**  
High performance, low-glare light



+ Continuous lines of seamless light



+ High performance (147 lumens/Watt)



+ Exceptional visual comfort



+ Luminance <math><1.000\text{ cd/m}^2</math> at 65°

### OTHER LUMINAIRES



**Concord Mini Continuum II – Lighting system with uniquely clean design**  
+ Uniform and continuous light lines  
+ Minimalist design  
+ Direct/Indirect light distribution

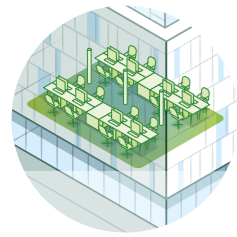
**Concord OfficeLyte – Low-glare office lighting**  
+ High performance  
+ Energy efficient  
+ Direct/Indirect light distribution for perfect visual comfort

**Rana Linear – Variety of optical solutions**  
+ Slim and unobtrusive  
+ Possibility to mix-and-match  
+ Several optical options

**Concord Optix Recessed – Modularity at the highest level**  
+ Low glare  
+ Visual comfort  
+ Possibility for quick customisation







## Open-plan offices

Given the significant amounts of time some people spend in open plan offices, it's imperative the lighting is adaptable to suit the needs of the individual. Some areas require focused lighting to facilitate the execution of tasks, whereas in others more relaxed lighting is preferred to encourage informal interactions. Sylvania offers dynamic lighting solutions suited to open plan office spaces that create a responsive environment and allow different lighting effects to feature as they are needed.

### ISSUES

#### Performance and productivity

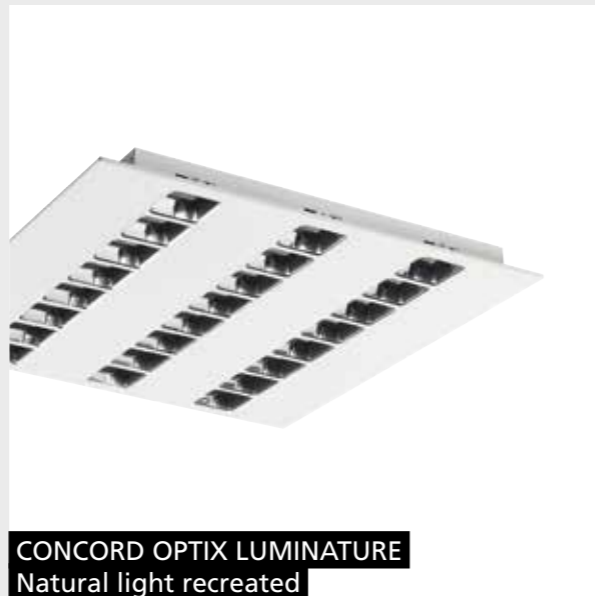
are linked to our circadian rhythm, a natural, internal process that regulates our sleep-wake cycle and responds to light and dark. Lighting that can adapt closely to changes in natural daylight throughout the day will optimise concentration and boost work levels.

#### Time indoors






is most often spent in artificial light, but it's important for our cognitive responsiveness and effectiveness that we incorporate quality light that mimics natural light as much as possible.

#### Personalisation

of large open environments can be achieved by grouping luminaires together to create the desired lighting effects needed for different activities.



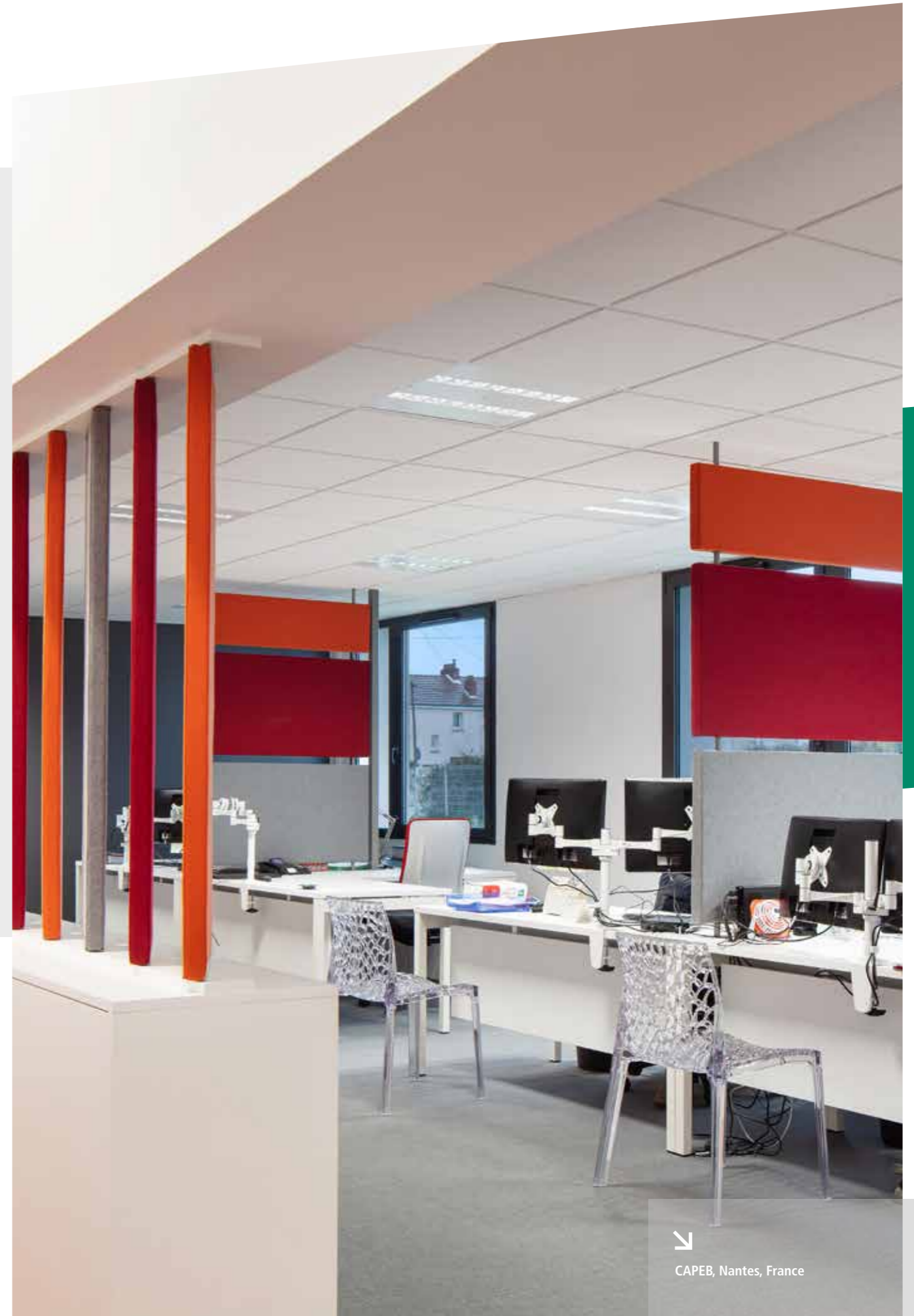
**CONCORD OPTIX LUMINATURE**  
Natural light recreated

-  + Human Centric Lighting (HCL) enabled
-  + No blue peak for visual comfort
-  + Dynamic light, adapted to the circadian rhythm
-  + Excellent colour rendering CRI97
-  + UGR <16 & Luminance <200cd/m<sup>2</sup>

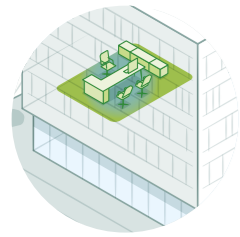
### OTHER LUMINAIRES



- |  |   |  |   |
|--|---|--|---|
| <p><b>Concord OfficeLyte</b><br/>– Low-glare office lighting</p> <ul style="list-style-type: none"> <li>+ High performance</li> <li>+ Energy efficient</li> <li>+ Direct/Indirect light distribution for perfect visual comfort</li> </ul> | <p><b>OptiClip</b> – The competitive smart solution</p> <ul style="list-style-type: none"> <li>+ Low glare light, ideal in office</li> <li>+ Modular design</li> <li>+ Replaceable light engines</li> </ul> | <p><b>Quadro</b> – Architectural LED Panel</p> <ul style="list-style-type: none"> <li>+ Excellent visual comfort</li> <li>+ Innovative design</li> <li>+ Multipower functionality with 8 settings</li> </ul> | <p><b>Rubico</b> – Architectural solution</p> <ul style="list-style-type: none"> <li>+ Ideal for large spaces</li> <li>+ Slim body</li> <li>+ Modular design</li> </ul> |
|--|---|--|---|



CAPEB, Nantes, France



## Office areas

The emergence of working groups within organisations has challenged the traditional office structure, introducing the need to provide areas tailored to specific requirements such as offices, workshop areas and meeting rooms. Larger spaces can be separated using partitions or dividers, with lighting used to deliver the specific needs of each individual area.

### ISSUES

#### Designing

an office to suit multiple uses allows the opportunity to rethink how lighting can be used to align with the space to make it as pleasant an environment for everyone.

#### Functionality

is a key consideration in lighting design and it's important to deliver consistent levels of comfort and light in office areas of all sizes.

#### Personalisation

uses light to create different atmospheres that align with the function of different spaces and reflect whether they're used by groups or individuals.



**CONCORD OFFICELYTE**  
Low-glare office lighting



+ High performance



+ Direct and indirect light distribution for perfect visual comfort

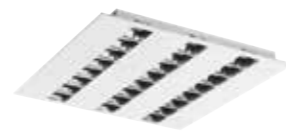


+ Energy efficient

### OTHER LUMINAIRES



**Concord Ascent 100 – High power LED Downlight**  
+ Visual comfort CRI 95-99  
+ High performance up to 146lm/W for CRI80 versions  
+ 4 different lumen packages  
+ LumiNature version with no blue peak, adapted to the circadian rhythm



**Concord Optix Recessed LumiNature**  
– Natural light recreated  
+ Human Centric Lighting (HCL) enabled  
+ No blue peak for visual comfort  
+ Dynamic light, adapted to the circadian rhythm  
+ Excellent colour rendering  
+ UGR <16 & Luminance <200cd/m<sup>2</sup>

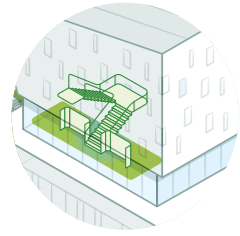


**OptiClip – The competitive smart solution**  
+ Design and sustainability  
+ Low glare light, ideal in office  
+ Replaceable driver



**Quadro – Architectural LED Panel**  
+ Excellent Visual comfort  
+ Innovative design  
+ Multipower functionality with 8 settings





## Corridors and stairways

Lighting needs to perform different functions when used to help people move around in a work environment. There is often no natural light in corridors and stairways, so the lighting must provide good visibility to allow people to travel around safely whilst retaining a synergy with the aesthetics of the environment.

### ISSUES

#### Accompanying the movements

Accompanying the movements of people by engaging continuous lighting across walls and ceilings, creating harmony and beautifying otherwise forgotten areas of a building.

#### Safety

in high traffic areas such as corridors and stairways is important and the right lighting provides good visibility to ensure people circulate safely.

#### Cost savings

can be achieved by utilising motion sensors to detect movement and only turn on lighting when it's needed.



**CONCORD ASCENT 100**  
High power LED Downlight



+ Visual comfort  
CRI 95-99



+ 4 different lumen packages



+ High performance up to  
146 lm/W for CRI80 versions



+ LumiNature version with no blue peak, adapted to the circadian rhythm

### OTHER LUMINAIRES



**Concord Colossal – Minimalist style circular luminaire**  
+ Aesthetic design in compact circular shape  
+ Diffused, soft light distribution  
+ Surface, wall and pendant mounting options  
+ Discrete halo effect for D/I versions



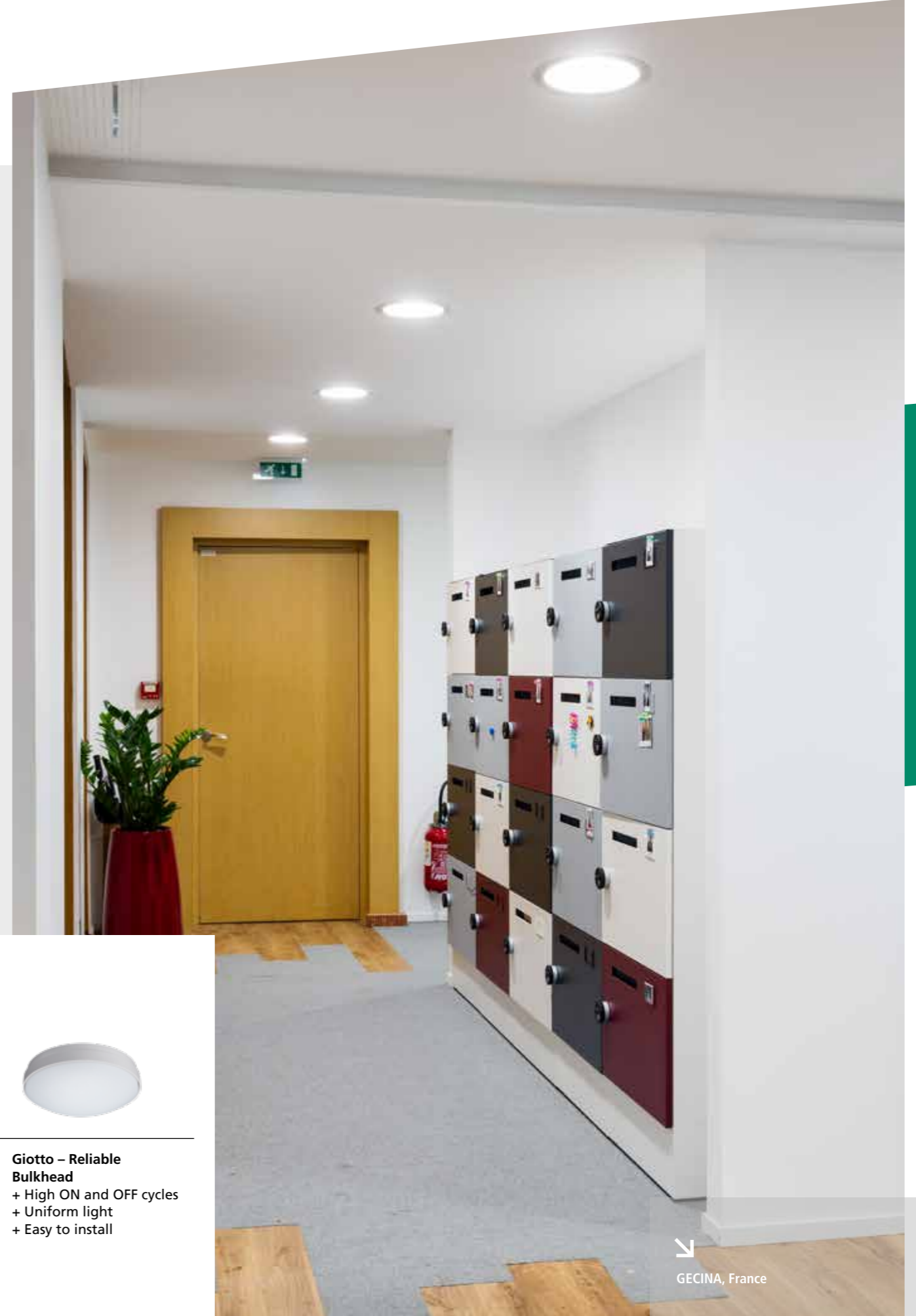
**Concord Optix 4Cells – Small & compact office lighting**  
+ Comfort light  
+ High performance  
+ Rectangular downlight design

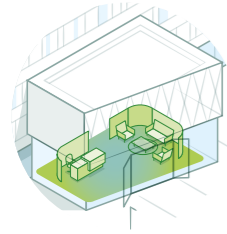


**Insaver Slim – Small sized Downlight**  
+ Glare control  
+ Excellent visual comfort up to 2500lm  
+ Compact design  
+ High efficacy  
+ Several output options from 620lm to 5200lm



**Giotto – Reliable Bulkhead**  
+ High ON and OFF cycles  
+ Uniform light  
+ Easy to install





## Reception area

There's only one opportunity to make a good first impression and getting the right lighting in reception areas is critical to making visitors feel welcome and developing a positive brand perception. Time and thought in creating the right light will set the right tone and give visitors a warm welcome.

### ISSUES

#### Pure light

that's consistent with the outdoors provides a gentle introduction, welcomes visitors and helps them feel relaxed.

#### Communicate the desired corporate image

with a well-lit reception area that conveys your brand values.

#### Highlight architecture

using smart lighting solutions to showcase buildings and enhance employee wellbeing.



**CONCORD MINI CONTINUUM**  
Lighting system with uniquely clean design



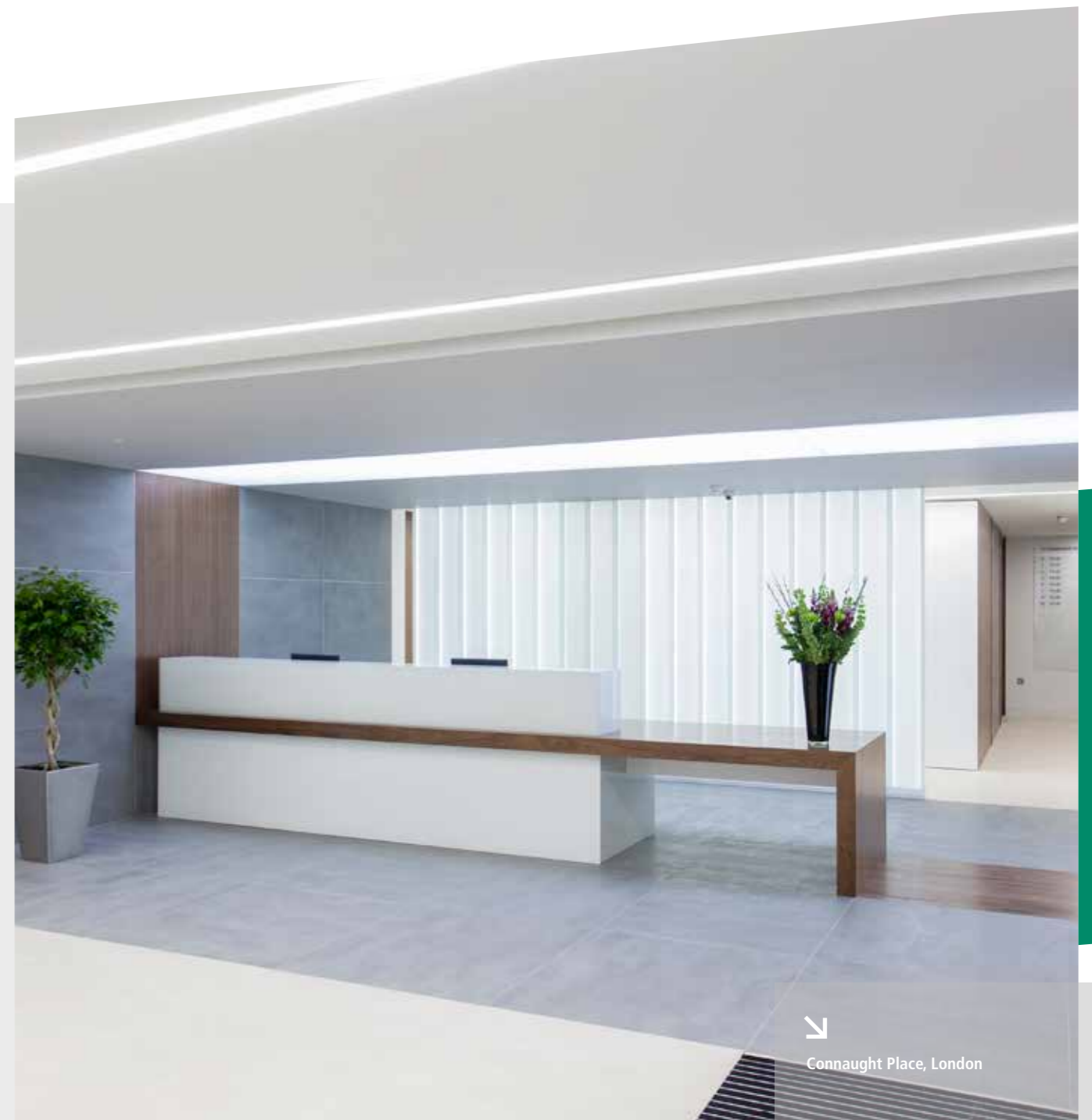
+ Uniform & continuous light lines



+ Direct/Indirect light distribution



+ Minimalist design



↙  
Connaught Place, London

### OTHER LUMINAIRES



**Concord TubiXx – Pendant & Wall lights**  
+ Classic design, contemporary technology  
+ Different finishes and reflectors  
+ CRI > 90



**Concord Colossal – Minimalist style circular luminaire**  
+ Aesthetic design in compact circular shape  
+ Diffused, soft light distribution  
+ Surface, wall and pendant mounting options  
+ Discrete halo effect for D/I versions



**Ludospot – Modular accent Downlights**  
+ Easy and quick mounting  
+ Modular design  
+ Wide range of housing options to get the ambience you wish



**START Flex – LED Strips**  
+ Uniform colour & excellent light quality  
+ RGB and RGBW versions  
+ With drivers and aluminium profiles



## Restaurants & Canteens

Maintaining a healthy, balanced diet can boost concentration levels and ensure productivity remains at desired levels. Offering a welcoming environment for employees to enjoy while away from their desks allows them to switch off from work and is important to promoting overall wellbeing. A well-designed restaurant or canteen with thoughtful lighting also builds a positive impression among external visitors.



**NEPHOS**  
A contemporary design LED Pendant



+ Diffused, ambient light



+ Perfect for hospitality applications



+ High-quality glossy finish in white or black

### ISSUES

#### Comforting and relaxing

dining areas can be achieved with creative lighting designs that offer additional meeting places where informal discussions can be held over a coffee.

#### A functional lighting solution

is needed in specific areas where food preparation takes place and standards in hygiene must be always maintained, or where it's necessary to ensure staff can operate safely.

#### Decorative lighting

can introduce a feeling of home in the workplace, with ambient lighting creating a warmer, more intimate atmosphere.

### OTHER LUMINAIRES



**Concord Colossal – Minimalist style circular luminaire**  
+ Aesthetic design in compact circular shape  
+ Diffused, soft light distribution  
+ Surface, wall and pendant mounting options  
+ Discrete halo effect for D/I versions



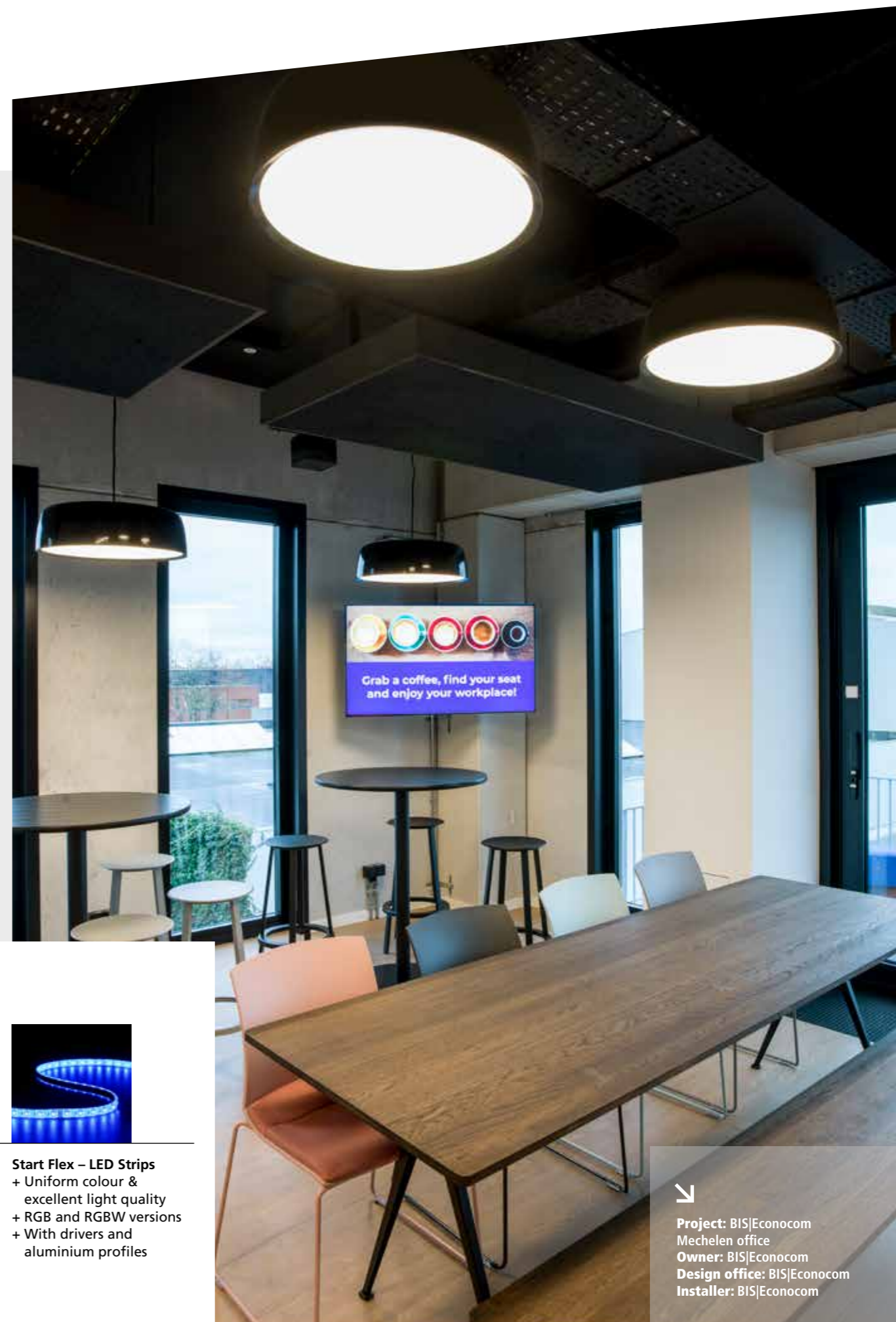
**OptiClip 1200 – Recessed modular**  
+ Design and sustainability  
+ Uniform light output  
+ Low-glare light, ideal in office  
+ Replaceable driver



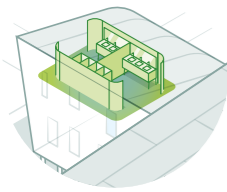
**Concord TubiXx – Pendant and Wall lights**  
+ Classic design, contemporary technology  
+ Different finishes and reflectors  
+ CRI > 90



**Start Flex – LED Strips**  
+ Uniform colour & excellent light quality  
+ RGB and RGBW versions  
+ With drivers and aluminium profiles



**Project:** BIS|Econocom  
Mechelen office  
**Owner:** BIS|Econocom  
**Design office:** BIS|Econocom  
**Installer:** BIS|Econocom



## Sanitary areas

The purpose of lighting in sanitary areas is to provide a combination of functionality, efficiency and comfort. Although the decorative aspects of luminaires aren't the primary focus, Sylvania offer products designed for wet rooms that are IP44 rated and visually attractive. Our sensor technology delivers quality lighting with simplicity and efficiency while preserving hygiene levels critical in sanitary areas.



**INSAVER SLIM PIR**  
Downlight with PIR sensor included

### ISSUES

#### Cost control

is a consideration in sanitary areas, as lighting must be functional and long-lasting to minimise maintenance costs.

#### Energy savings

can be achieved with PIR sensors, which can be set so the lighting operates only when the sanitary areas are in use.

#### Quick and easy mounting

minimises the disruption caused when light fittings need to be replaced or maintained.

-  + Glare control
-  + High efficacy
-  + With adjustable time and daylight level
-  + Energy savings with integrated PIR
-  + Compact design
-  + Several output options from 620lm to 5200lm

### OTHER LUMINAIRES



**START Panel IP44 – Recessed LED Panel**  
+ High efficacy  
+ Slim size  
+ IP44 rated from the front



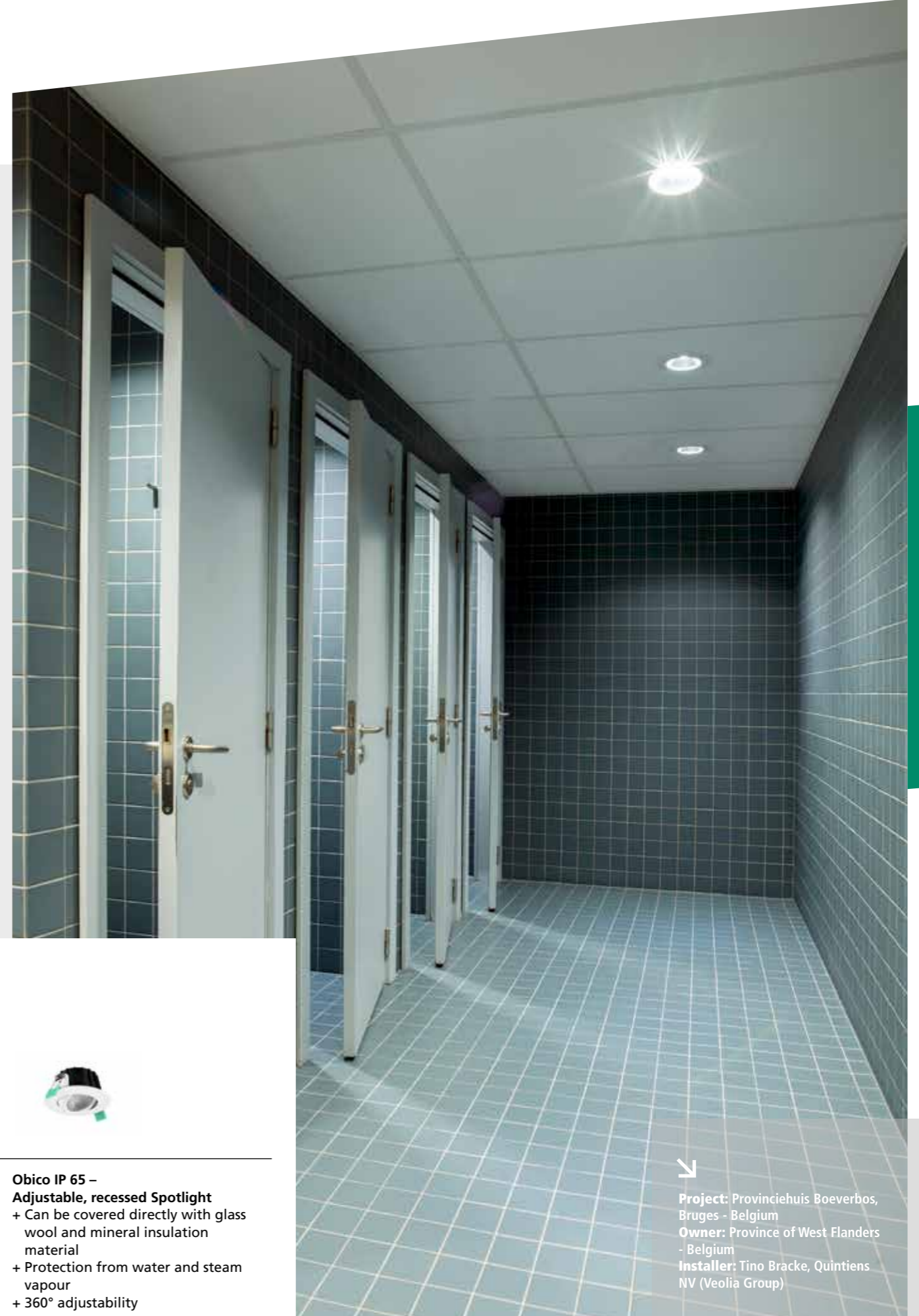
**START Downlight 5in1 PIR – Flexible Downlight**  
+ With adjustable time and daylight level  
+ 3 colour temperatures and 2 mounting methods  
+ Multiple cut-out dimensions



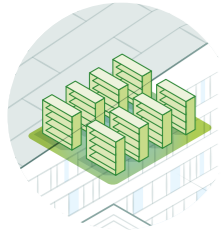
**START Downlight IP44 – Recessed and Surface Downlight**  
+ High efficacy  
+ SylSmart Standalone enabled  
+ Shallow recess depth of <65mm



**Obico IP 65 – Adjustable, recessed Spotlight**  
+ Can be covered directly with glass wool and mineral insulation material  
+ Protection from water and steam vapour  
+ 360° adjustability



↙  
**Project:** Provinciehuis Boeverbos, Bruges - Belgium  
**Owner:** Province of West Flanders - Belgium  
**Installer:** Tino Bracke, Quintiens NV (Veolia Group)



## Storage room

These areas can see both high or low levels of traffic, but the lighting must be reliable, resilient, long-lasting and of sufficient quality to enable strong visibility across the entire area.

### ISSUES

#### Resilient

lighting is important in storage areas that are perhaps dusty and have poor ventilation.

#### Low maintenance

is a prerequisite of lighting in storage areas that are not visited frequently and require low maintenance lighting solutions.

#### A bright lighting solution

is essential to ensure records and documentation can be found and identified quickly.



**START WATERPROOF SLIM**  
Robust and resilient



+ Perfect replacement of fluorescent battens



+ Operating temperature from -25°C to 50°C



+ Dust resistant



+ Easy and quick, tool-free installation

### OTHER LUMINAIRES



**WayLine – Efficient Batten**  
+ Easy to install  
+ Very efficient  
+ Integrated microwave sensor (presence detection)



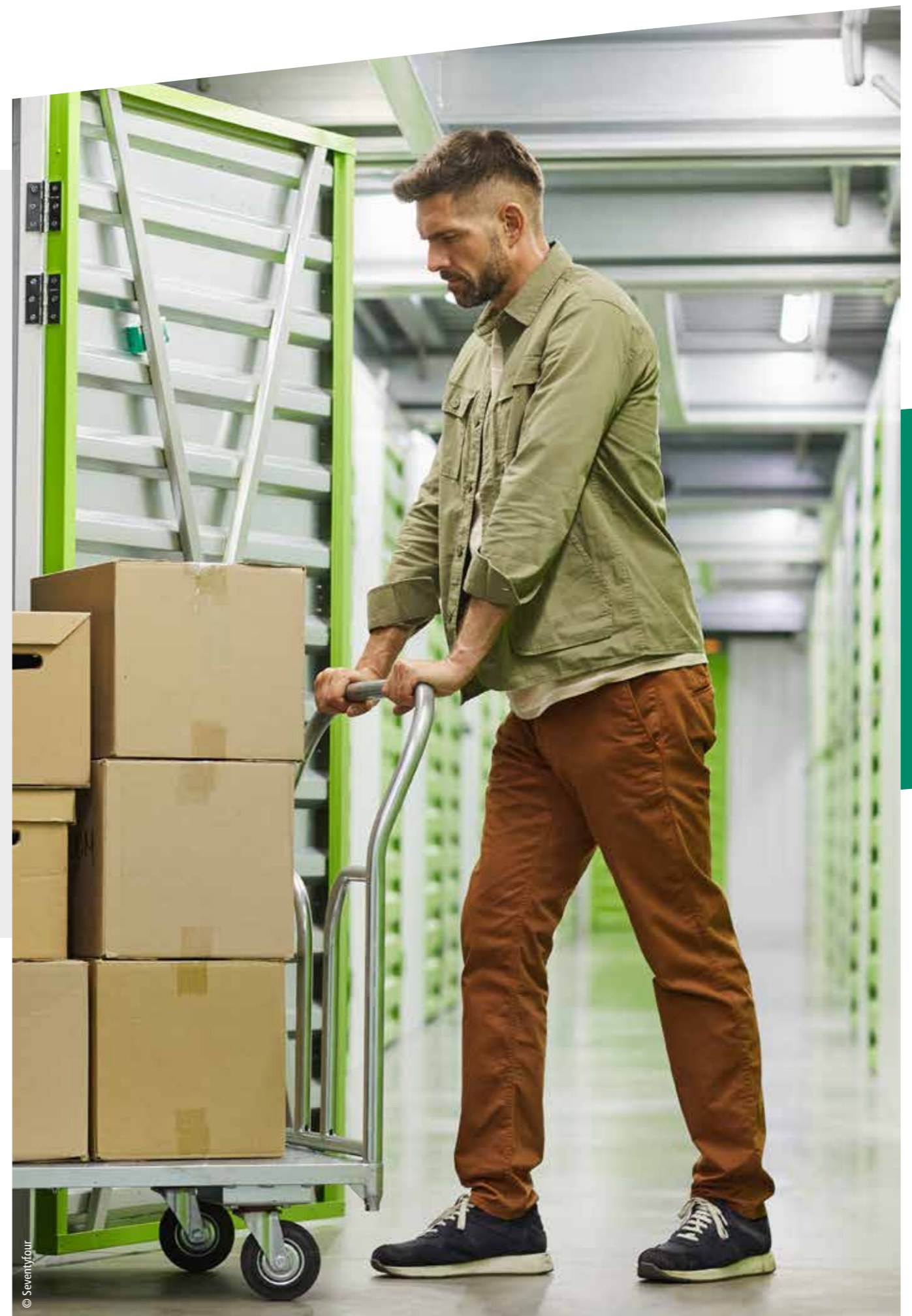
**START Eco Batten IP65 – Slim waterproof luminaire**  
+ Linkable  
+ High luminous efficiency  
+ High resistance

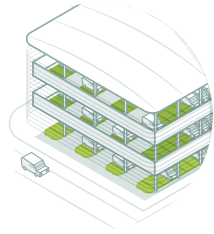


**Resisto – High performance waterproof range**  
+ High luminous efficiency  
+ Easy and quick installation  
+ SylSmart enabled versions



**START Eco Surface IP44 – Wall or ceiling mounted luminaires**  
+ Microwave and PIR sensor  
+ Compact design  
+ Dual tone





## Covered parking

Often located below buildings with no or limited natural light, providing adequate lighting in covered parking areas is vital in ensuring vehicles and people can move around safely. Furthermore, it must be suited to continual operation at all times of day and night and perform to expected levels in extreme ranges of temperature.



**RESISTO SYLSMART ENABLED**  
High-performance waterproof lighting

### ISSUES

#### Energy savings

are available thanks to SylSmart wireless technology that utilises sensors to detect occupancy and light levels and adapts to maintain optimal light levels.

#### A solid and robust lighting system

resistant to high temperatures, dust and moisture is essential to ensure reliable operation.

#### Safety

of all traffic is always a major consideration, emphasising the need to have consistent, bright, and reliable lighting throughout any covered parking areas.

-  + Robust & durable
-  + Ease of installation
-  + Fitted with PIR sensor
-  + Energy efficient
-  + SylSmart enabled versions ideal for parking

### OTHER LUMINAIRES



**START Waterproof Slim – Robust and resilient**  
+ Perfect replacement of fluorescent battens  
+ Operating temperature from -25°C to 50°C  
+ Easy and quick, tool-free installation



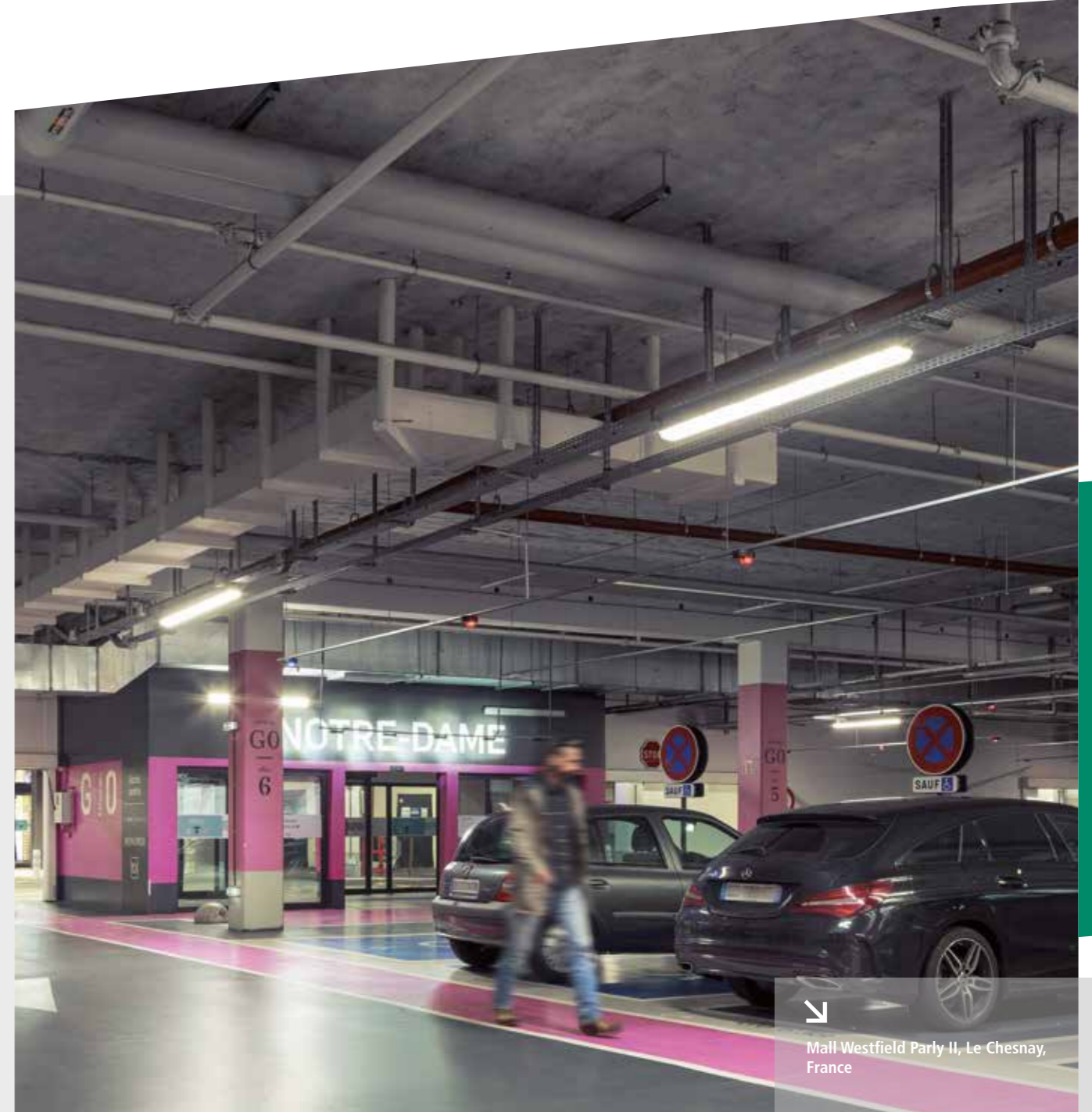
**START Eco Batten IP65 – Slimline waterproof luminaire**  
+ Linkable  
+ High luminous efficacy  
+ High resistance



**Resisto MW – High performance waterproof lighting**  
+ Microwave presence sensor  
+ Corridor and master/slave versions  
+ No dark ends

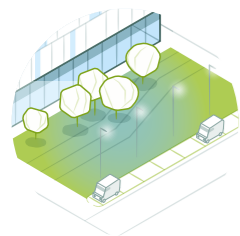


**START Surface IP66 – Surface, wall and ceiling**  
+ Perfect for exterior applications  
+ Robust design IK10  
+ Sensor dimming versions  
+ High performance



↓  
Mall Westfield Parly II, Le Chesnay, France





## Outdoor areas

Lighting outdoor spaces impacts the safety of people in and around buildings at night and can be used to accentuate the beauty of architecture and draw attention to specific features that might enhance local areas and draw prominence to brands.

### ISSUES

#### Sensitivity

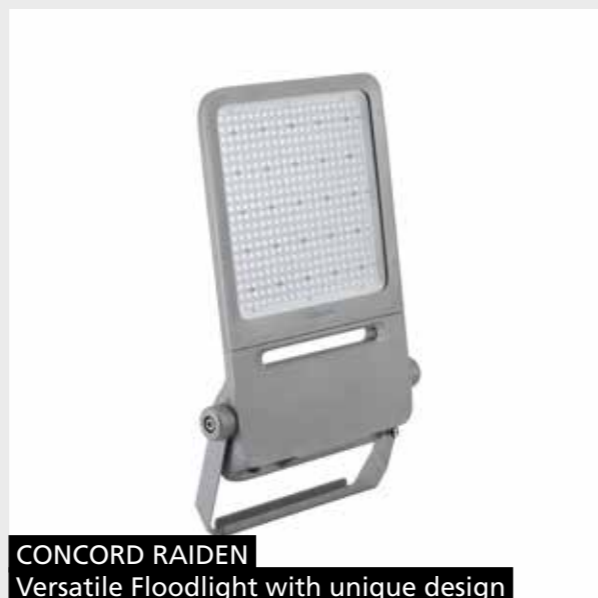
to local surroundings and ensuring people's safety are major considerations when designing exterior lighting and safeguarding compliance with various regulations.

#### Resistance to changing climatic conditions

must be guaranteed to ensure outdoor lighting installations perform in all weather.

#### Integration

with surrounding environments will allow outdoor lighting to compliment existing landscapes, gardens, or urban spaces and add to the existing aesthetic.



**CONCORD RAIDEN**  
Versatile Floodlight with unique design



+ 4 sizes and 3 colour temperatures



+ Energy efficient



+ High performance and efficacy



+ DALI dimmable

### OTHER LUMINAIRES



**Start Bollard – Landscape lighting**  
+ Contemporary and robust design  
+ High-performance  
+ Ideal for gardens and paths



**Interrata – Buried Uplights**  
+ Robust design for ground lighting  
+ Driver over capability up to 2000kg  
+ Tilttable for fine tuning



**Kalani – Exterior Floodlight**  
+ Quick and easy to install  
+ Robust  
+ Wide range of lumen output



**Inverto – Surface, wall and ceiling**  
+ Robust and compact  
+ Contemporary cubic design  
+ Corrosion resistant



## 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. For your offices, 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.

### The quality of local production

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 light-related developments, whether it be emerging uses by occupants, environmental challenges, or compliance with new regulatory standards.

In order to work jointly and efficiently with the production units, our R&D cells are close to the factories and are also located in France, in England and in Germany.

This made-in-Europe 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,

**22**  
production units  
in the Newhaven factory (GB)

**59 000 m<sup>2</sup>**  
of French, English  
and German factories



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!



**40%**  
of the production of the French factory corresponds to special luminaires

**53%**  
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 offer.

\*With our Logic Smarter Finance offer, no solution is out of reach: no need for an initial investment, you pay back every month with the savings you make.  
\*\*We install your new equipment, ensure its perfect compliance and optimal performance, recycle your old installation, and also provide a maintenance service.

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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