

**SYLVANIA**

# Smarter lighting. Smart choice.

**SylSmart**

Light your world



# Smart lighting for smart businesses

Our days revolve around light. It illuminates every meeting and shines on every handshake. It creates an ambience to relax – it provides safety and security from the darkness. From office blocks and residential towers, to hotel rooms and restaurants, we depend on light every single day. So why not take control of it?

## SylSmart

At Sylvania we have a deep understanding of trends in both the lighting and controls industries, along with other fields, such as building and digitalisation. We know what makes businesses tick and we know that in today's challenging economic climate, where 39% of all commercial energy is spent on lighting resources\* – efficiency really is paramount.

That's why we made our SylSmart solutions easy-to-install and even easier to program, operate and maintain, so all businesses can capture and harness the power of light to make it work for them.

**SylSmart. Smarter Lighting. Smart Choice.**

Did you know that 39%\* of electricity consumed by a commercial property is used for lighting?

\*Source: IHS Markit 2017

# Smart lighting delivers value in multiple ways

Invest in the future of your business



Smart technology helps organisations across a variety of sectors streamline their operations and reduce running costs. Why should light be any different? If light efficiency is the question, SylSmart is the answer.

Using the latest standards from the Information and Communications Technology (ICT) world, SylSmart is built on open innovation that allows digital lighting to play a central role as the 'backbone' of a smart, connected building infrastructure.

SylSmart combines innovative technology with decades of experience to give users unparalleled control over their lit environment. Light can be harnessed and adapted to suit any time of day, in any environment, changing dynamically to reflect the needs of users. The result?

An all-encompassing solution that provides comfort, efficiency and scalability. Whether you need precise lighting control in a small space, or seamless connectivity across an entire site, SylSmart will light the way.

## What you can achieve with smart lighting

Smart lighting is about more than just light. It's about control and efficiency. By using remote monitoring, daylight harvesting, scheduling and energy and status reporting, SylSmart can dramatically reduce the energy costs to many businesses and meet legislations and certifications (including Breeam, ECA, BCO, LEED, DGNB, Estidama).

## Future proofing with SylSmart

SylSmart takes lighting one step further. With a focus on open standards, investing in smart lighting today which can be upgraded over the air, ensures you have access to the latest technology.

## Beyond lighting

SylSmart enables you to join the Internet of Things (IoT). Creating intelligent buildings through data acquisition and analytics, lighting can interact with other building facilities. Furthermore, monitoring usage can reduce costs and enhance user experience.

## SylSmart solutions



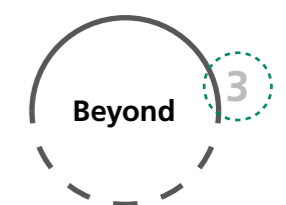
### Room by room, easy install & energy efficient

- + A wireless, plug-and-play, cost effective smart lighting solution for smaller installations
- + Simple, out of the box experience
- + Easy-to-install and maintenance free
- + Intuitive use that allows full control



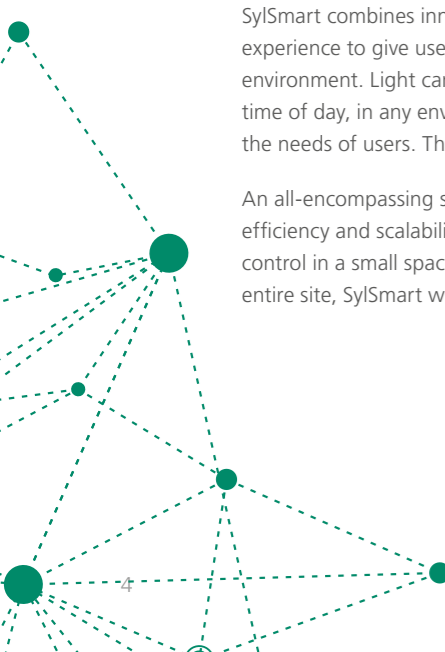
### Connects entire floors or buildings with intelligent lighting controls

- + Designed to manage and control a wide area with flexibility to control multiple areas, working together
- + Easy to install and program
- + Delivers maximum energy saving and occupancy comfort
- + All components work seamlessly together
- + All the benefits and elegance of a wireless system



### Enterprise level intelligent buildings

- + Embrace the Internet of Things (IoT)
- + Full connectivity and data analytics offer an intelligent, streamlined lighting solution like no other
- + Building and estate wide integration.
- + Occupancy Analytics
- + Asset Tracking
- + Location based services





Maximum control,  
minimum installation

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**SylSmart**  
Standalone Room

Offering wireless controls which can be programmed quickly and easily, SylSmart Standalone Room is a cost effective solution for small offices, meeting rooms, classrooms and corridors. Easy to install and even easier to program via the intuitive app, wireless enabled luminaires can be easily controlled from the wall switch to tailor the light as you need it for meetings or presentations and be automatically controlled by the occupancy sensor to ensure energy efficiency.



# Smart lighting controls for a Standalone Room

SylSmart Standalone Room is an easy to install lighting control system that allows you to manage your lighting the way you need to, providing you the flexibility to change light settings according to room functionality. Controls cabling is kept to a minimum thanks to wireless luminaires and switches.

SylSmart Standalone Room offers an energy efficient lighting solution that's flexible, delivers ultimate control, and is easy to install and program.

- + A wireless, plug-and-play, cost effective smart lighting solution
- + Battery-free, energy harvesting wall switches allowing high flexibility, low maintenance
- + Ideal for office or study areas like meeting rooms, classrooms and corridors
- + Quick and simple installation and maintenance free
- + Easily programmable with intuitive smartphone app
- + Luminaires can be controlled individually or grouped for convenient scene-setting
- + Turn lights on and off automatically thanks to sensors



#### Wireless luminaire

- + Integrated wireless controls offering seamless plug-and-play compatibility
- + No additional controls cables needed – only mains needed



#### Wireless switch

- + No wires
- + No batteries
- + Ultimate flexibility to place the switch where needed
- + No maintenance required



#### Sensor technology

- + Automatically controls luminaires based on presence or available natural light

#### Smart lighting via app control\*

- 100% luminaire setup via the app.
- + Setup luminaires
- + Create energy efficient profiles
- + Set scenes
- + Setup wall switch
- + Set timers

\*Android device with NFC and Android app required for pairing wireless switch to lighting group.

“Basic PIR systems are hit and miss – becoming prehistoric in my view – this bridges the gap between Basic controls and DALI.”

Facility Manager

“Some facility managers I work with do not know what controls they have, how they work or where the control panels are in their building – with this system they’ll have no problem discovering and controlling their facilities from the phone in their pocket.”

Contractor



# How can it benefit you?

### Installer

- + Quick and easy to install without complex cabling
- + Test and commission via simple-to-use app

### Owner

- + No need to rewire lighting as the use of spaces change
- + Deliver energy efficiency and control without the complexity of traditional solutions

### Occupier

- + Every luminaire programmed as you require for your space
- + Simple operation, automatic via sensors or manually via switches

### Consultants

- + Full range of luminaires and no cabling to switches enables flexibility in design
- + Late changes in space layouts are easy to accommodate

## Features and benefits

Features	SylSmart Standalone Room	PIR Sensor	Wired DALI	Other Wireless
Low cost for retrofit	✓	✓	✗	✗
Ease of installation	✓	✓	✗	✗
Energy Saving	✓	✓	✓	✓
Light controllability	✓	✗	✓	✓
Flexibility	✓	✗	✗	✗
Low maintenance	✓	✓	✗	✓
Ease of configuration	✓	✓	✗	✗
Minimal disruption during installation	✓	✓	✗	✓

Wireless controls and accessories offers flexibility with very low maintenance. With the intuitive app, programming is quick and easy and enables anyone to make any changes they need (including post-installation) to adapt the setup to changing layouts and needs of the space and its occupants.

### The result

A discrete, precisely controllable, cost-effective system that allows for energy saving and scene programming with minimal disruption.

Maximum control, minimum installation.

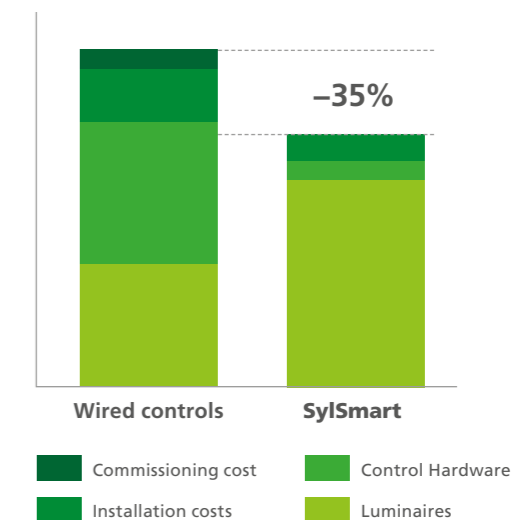
## Total cost of ownership example



### Compared to traditional lighting controls:

Typically 35% lower upfront cost  
Based on a meeting room with ten 600 x 600 luminaires, one wall switch and one sensor

## CAPEX Analysis



"The wireless wall switch alone saves me over an hour per room installed."  
Electrical Installer



[1] Meeting rooms



[2] Schools



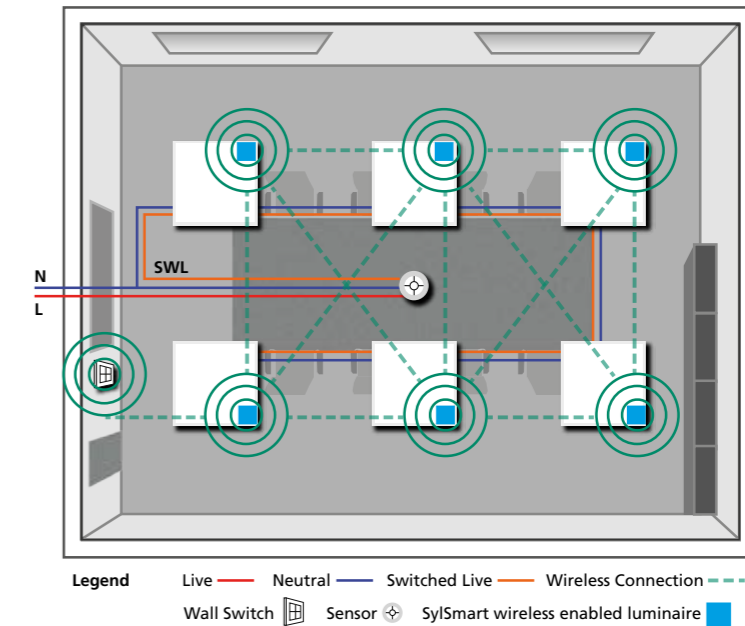
[3] Corridors

# Installation as easy as 1,2,3...

## How it works

### Design

- + No gateway or central control requirements
- + No need to plan for additional controls cabling



# Flexibility with low maintenance

## [2] Schools

SylSmart Standalone Room blends right into classrooms, libraries and canteens, delivering light when students and staff need it most in an energy efficient and highly controlled way. Sensors combined with easy programming options ensure perfect lighting for all occasions.

## Some of the many applications

### [1] Meeting Rooms

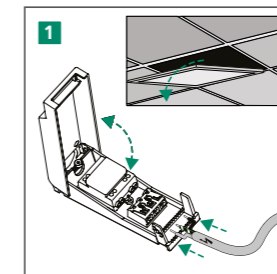
From presentations and videos to hospitality events and workshops, meeting rooms have more demanding lighting requirements than many people realise. SylSmart takes all of this into account, allowing users up to four lighting scenes that can be activated by the touch of a button, enhancing the function of a meeting room while saving energy at the same time.

### [3] Corridors

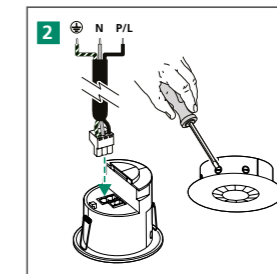
The SylSmart Standalone Room system is equally at home in corridors and service areas. Wireless controls enables quick and easy installation and reduces energy consumption by switching off the lights when not needed.

## Install

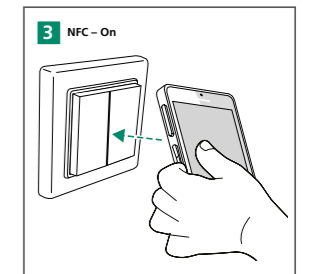
- + Point for point replacement
- + No additional wiring



Remove old luminaire and install new luminaire. Simply connect Live, Earth, Neutral. Connect sensor and set parameters.



Connect sensor and set



Pair, group and scene set the luminaires using the intuitive SylSmart Standalone Room App.

## Handover

- + Set authorisation control levels
- + Password protected access available





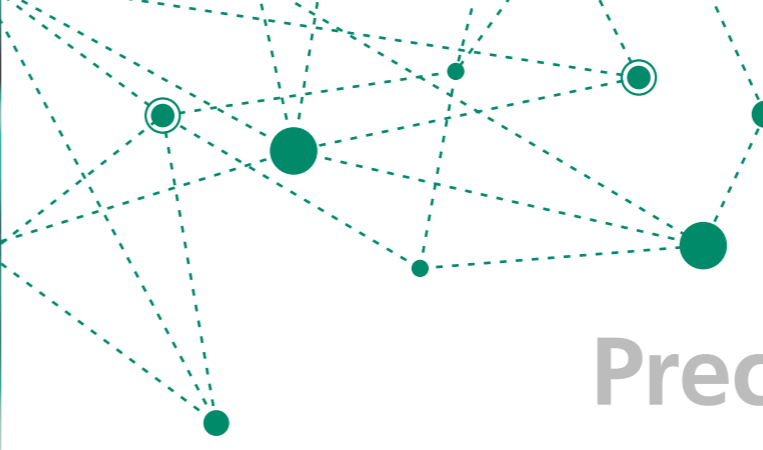
**SylSmart**  
Standalone Scene Setting

**Set your  
light how  
you want it**

Wireless, cost-effective and energy efficient, SylSmart Scene Setting puts creativity in the palm of your hand. With wireless enabled luminaires you can configure and activate your tailored lightscapes at the touch of a button - altering contrast, colour, warmth and tone of your space or object- all from the convenience of a smartphone or tablet. Scenes can be pre-programmed and time-activated to give each room a dynamic ambience that will make guests and visitors feel welcome and draw attention to your product.



# Create your perfect scene with multi-functional lighting controls



## Precise and flexible scene setting at the touch of a button

### Key features



#### Easy to program and simple to use

Setting new scenes and creating groups is incredibly simple using the SylSmart system:

1. Simply take out your smartphone or tablet and open the app
2. Select the luminaire whose settings you wish to change

From there you can set the dimming level, colour temperature, colour (depending on the luminaire used) of each luminaire or group of luminaires.

This easy to program capability separates SylSmart from other systems that require manual programming by experts. Have complete control over your lighting scene-setting capabilities allowing you the greatest level of creative freedom to create the specific lighting environment to suit your needs.

Download our free app from iTunes or the Google Play store to any smartphone or tablet to program your SylSmart Standalone Scene luminaire system.



#### Wireless – ideal for retrofit and easy to install

Our wireless devices are smart on their own. Everything you need is already built into the installed luminaire. There are no extra control wires to worry about, saving you on installation costs and the need to hire specialist electricians, while cutting down on the time needed to add SylSmart to your building.



#### Dynamic and timed scenes

The system permits scenes to be triggered automatically by the internal clock to ensure the right scene is set without lifting a finger.

Individual or groups of luminaires can also be set to have subtle or dramatic movements in their light-levels over time, changing the atmosphere of your whole space seamlessly.

Scene changes can be pre-programmed to ensure your environment always has the optimal lighting design operating at the right moment.



#### User controls

User controls are effortless. The intuitive app enables anyone to easily control their lighting. An optional app configured wireless switch also enables user control without the need for a phone or tablet.



#### Secure

Wireless does not have to be unsecured. As a standalone system with no IT integration, the system cannot be accessed remotely. SylSmart Standalone Scene controls are more secure than many wired control systems with four selectable security levels, SylSmart Standalone Scene Setting offers users a secured system which can be tailored to users needs.



#### Resilient, scalable network – no additional controls

SylSmart Standalone Scene Setting requires no additional controls hardware. The controls are integrated into the luminaire and use wireless mesh networking between luminaires, removing the need for any central control hardware or gateways. Mesh networking also offers a more robust, easily scalable controls solution with all settings stored in the network.



#### Future-proof

With wireless updates, the system can be updated automatically to ensure your controls are always up-to-date and running smoothly, all you need is a smartphone with Internet connection.

### System overview

**SylSmart Standalone Scene Setting is a wireless, cost-effective, flexible and future-proof solution that enables you to control your luminaires and set your lighting scene.**



Wireless enabled luminaires

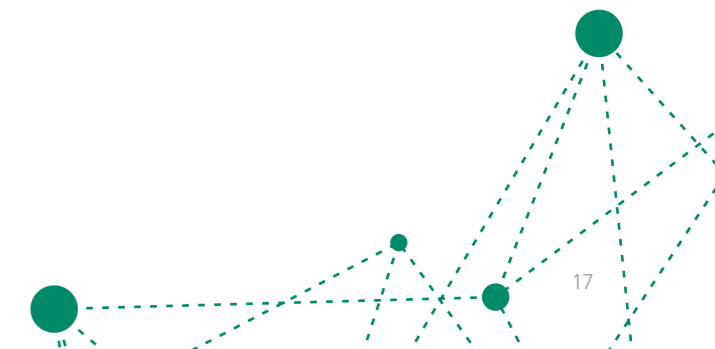


Wireless switch



Smartphone or tablet

- + Creativity at your fingertips. Have the perfect light setting for your application, product or art piece on display. Tunable whites, colour changing (RGB), dimming, scenes, animations and timers can all be set effortlessly and wirelessly.
- + No new cables required – All controls are integrated to the luminaire, simply connect the luminaire and power up.
- + Change lighting levels via the app and set different scenes as often as you like. No need to call in specialised experts.
- + No need to climb ladders to adjust light levels or the colour temperature of your luminaire, all settings are done from a smart device at distances up to 5m.
- + Day or night, your display will draw attention, as programmed timed settings are triggered enabling you to match your light scenes to the outside light level and whether your premises are open or closed.





# We deliver value, wherever you use us

## Key application areas



Museums



Hospitality



Branding through light and shop windows



Car showrooms



Fitting rooms

### Light that changes and moves you

Light does not just have to be static. It can change and create illusions of motion and increase interest.

Previously, dynamically controlled lighting was in the realms of stage and studio with complex and expensive hardware and programming.

SylSmart enables animated lighting which can easily be programmed with a smartphone app without the need for additional hardware.

### Shop windows

Making people stop and notice your products is critically important. Eye-catching lighting gives your shop window that stopping power.

Shop windows are a symbol of a shop's identity and must attract your customers and invite them into your world. Frequent product changes can present challenges to keep the lighting updated to show the latest product at its best.

SylSmart offers a flexible, engaging lighting solution with dynamic light control possibilities to maximise visual impact without aggravation of additional cabling and can be adjusted at the push of a button.

### Museums

In a museum, precise and often multifunctional lighting plays an important role in not only making a precious artefact shine but in creating an unforgettable experience for your visitors.

Ensuring the right light can enhance the appearance of your objects through tailored light levels and colours as well as ensure their preservation by reducing the exposure to light.

SylSmart offers curators unparalleled levels of interaction with their lighting to give them the creative freedom they desire.

### Hospitality

Hotel and restaurant owners strive to make their spaces unique, welcoming and memorable for their guests and it pays to have the right light to meet their expectations by delivering a visual experience that matches the mood.

With hospitality spaces often being used in a variety of functions, it is important that the lighting offers flexibility to change over the course of a day and week to match your needs.

SylSmart gives you the benefits of more sophisticated scene setting controls without the complexity of programming or extensive cabling and hardware.

### Branding through light

Your brand is your most important asset. Using carefully selected and deployed lighting can help build your brand experience through bold lighting to convey a perception of yourself or through more subtle highlights of colour to bring different design elements together. Lighting can also be linked to season events through changing colours to immerse your customers.

Lighting is a powerful and highly creative tool to help you realise your vision. SylSmart will put this creativity at your fingertips.

### Car showrooms

Car showrooms are a destination of sensuous experience. From the moment you enter a showroom through the journey to the joy of picking up your new car, buying a new car is a passionate investment and the lighting is an important tool to deliver this experience.

With dynamically controlled lighting, you can give your customers a memorable experience. This combined with automated controls will not only enhance your brand but help reduce operational costs through energy efficiency.

### Fitting rooms

60% of purchasing decisions are made in the fitting rooms. The perfect light ensures your customers can see themselves in a flattering light.

With SylSmart, the light can be controlled to suit the type of light in which the shopper will wear their new clothes allowing them the freedom to imagine themselves in their chosen setting.

## Case study

**Location:** London, United Kingdom  
**Client:** Pod  
**Lighting Designer:** Sylvania  
**Installer:** Finish Effect Refurbs Limited



“This pilot project has been great for us. It has demonstrated how we can reinvigorate our stores by upgrading our lighting to an energy efficient and well-controlled alternative. As we gather more data and understand the benefits, we will consider rolling out the lighting across our other 23 stores.”

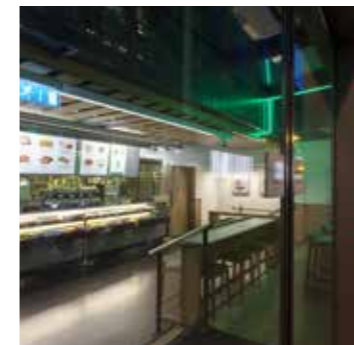
John Postlethwaite, Executive Chairman at POD.

The brief to Sylvania was clear – to create an attractive, bright and dynamic location that felt inviting to customers and projected POD’s branding externally. Sylvania set to work on creating an innovative design to really bring the store to life. To answer the brief, Sylvania selected a number of its luminaires, all of which were enabled by the ground-breaking wireless control system – SylSmart. SylSmart Standalone Scene (one of the SylSmart range of solutions), enables store branding through lighting as well as supporting tailored promotions and events. Timed schedules can be set to change according to the season and daily light patterns, and there is also a night-time scene to capture the attention of late night city revellers, while maintaining energy efficiency during closed hours. Programming was quickly setup on site, with an easy to use mobile app.

Rosie Parkes, Senior Marketing Manager at POD, comments, “The new lighting not only allows us to create a warm and friendly environment for our customers but it also encapsulates our brand. We can adapt the lighting when we are running a promotion or highlight to customers that we have a new menu, it’s a visual extension of our marketing and brand ethos. We’re delighted with the new lighting scheme and the added benefit it is bringing our store.”

# Controllable, dynamic lighting

**Retail** Sylvania designed and installed an innovative new lighting solution at POD, a healthy food-to-go retailer based at Chiswell Street in London. By taking a fresh approach and combining the latest products with our ground-breaking SylSmart wireless control solution, Sylvania significantly improved the in-store customer experience. POD challenged Sylvania to reinvigorate the lighting scheme at one of its branches as they felt the space was inadequately lit and the company recognised that a new approach and fresh design could make a real difference to the visitor experience.



### Key Outcomes

- A new and inviting environment created for customers
- A controllable lighting scheme that improves the environment and saves energy
- Easy to install and use system

Intelligent,  
flexible light  
that's always  
learning

**SylSmart**  
Connected Building

SylSmart Connected Building uses the latest technology to bring you a highly intelligent lighting controls experience. With each luminaire integrating a small, discreet but powerful sensor combined with wireless communication and machine learning, this system can give you a full lighting control experience with no additional cables, no additional controls hardware and no commissioning required. The system automatically commissions itself through learning patterns of movement and makes changes for you. Truly an intelligent system that works harder for you.



# You move, SylSmart reacts

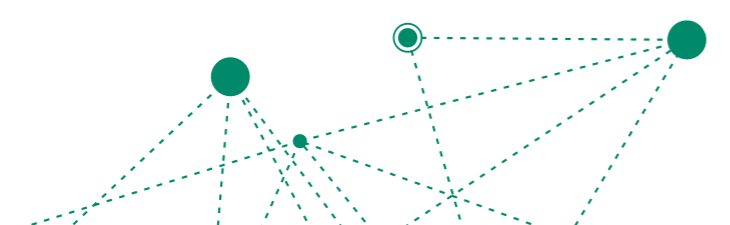
**SylSmart** Connected Building

Even with the maturity of energy efficient LED Lighting, there's a lot more that can be done. We control our other utilities, such as heating, everyday to save money and work more efficiently, why should lighting be any different? That's the question we asked ourselves when we developed SylSmart for Connected Building.

**Built-in SylSmart technology that's small, discrete and powerful**

Ambient Light Sensor

Motion Sensor (Just 5mm)



## Auto-configuration

Simply power up and the luminaires will automatically connect and self-configure

## It just works

As a full end to end solutions provider, we have tested and ensure that all components work seamlessly together

## No additional control hardware

All you need to do is install the luminaires to get started

## Dynamic adjustments

As day turns into night, people come and go and the space use changes, SylSmart will automatically adapt the light to suit

## Fully wireless

No control cabling is required, making the system easy to install and even easier to maintain

SylSmart Connected Building is a highly intelligent, de-centralised lighting control system that enables businesses to adopt lighting controls with ease, achieving significant energy savings through granular control of each luminaire based on presence and natural daylight.

Take a moment to look around your office during the day. How many lights are on at full intensity above empty desks? How much light gets wasted in those corridors and rooms that have extremely low footfall?

SylSmart uses the very latest technology to continuously detect human presence and natural light levels, adjusting the levels of artificial lighting to match your needs perfectly. Busy areas such as foyers and corridors will stay bright and well lit, where as quieter areas like meeting rooms and lesser used corners of the office will automatically dim gradually over time to save energy.

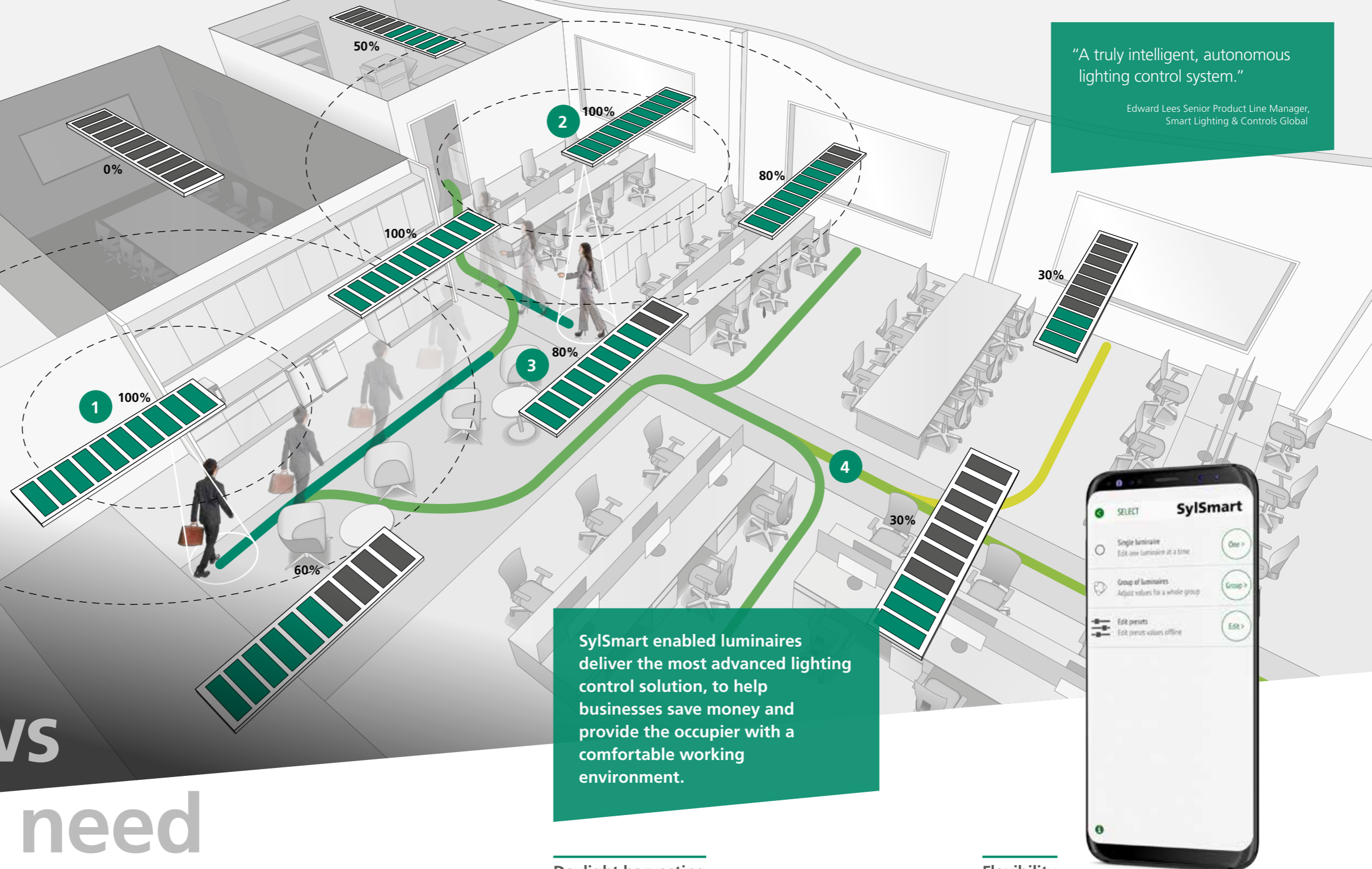
**This level of advanced lighting control can save businesses up to 87%, achieving the highest possible energy saving and helping you to achieve your green building certificates, such as BREEAM.**

## Automatically behaves as a system

1. Each luminaire automatically identifies its neighbours to start working together.
2. Every sensor lets other nearby sensors know when someone is detected.
3. Every sensor lets other nearby sensors know when someone is detected.
4. Using collective learning, the system will determine in which direction it believes the occupant is moving, and sets the light levels automatically.

"A truly intelligent, autonomous lighting control system."

Edward Lees Senior Product Line Manager,  
Smart Lighting & Controls Global



# A system that knows what you need

SylSmart enabled luminaires deliver the most advanced lighting control solution, to help businesses save money and provide the occupier with a comfortable working environment.

## Automatic setup and presence learning

Getting up and running with SylSmart is easy, simply install the luminaires connect the power and you are done. No further commissioning is needed. SylSmart enabled luminaires will automatically detect surrounding conditions and set light output accordingly.

From the moment the unit is powered, the SylSmart system begins learning patterns of movement in the space. Through machine learning, each sensor node detects movement and works with its neighbours to understand how the space is used to generate predictive lighting controls. The system then continues to learn if there are any changes to the pattern and adapts accordingly.

## Daylight harvesting

Natural daylight is a free but overlooked resource. Working with the cycles of the day provides an opportunity to reduce energy consumption dramatically. SylSmart enabled luminaires detect available daylight, balancing energy saving with user comfort. No programming is needed, the system will measure, learn and monitor the levels of natural daylight available and automatically control the dimming for you. Where required a precise light level can be calibrated using the app to enable:

- + Constant light output
- + Maintained illumination
- + Maximum and minimum light levels

## Flexibility

Using the SylSmart app, users are able to optimise the settings of the system to extract maximum energy saving potential from their lighting. It also provides flexibility for the lighting to work precisely as you need it including setting light levels, occupancy timeout, fade time, of each luminaire or group. The app also enables luminaires to be grouped and the configuration of the wall switch for a personalised lighting experience.

- + On-site optimisation
- + Maintained illumination
- + Personalised lighting experience

# We deliver value, wherever you use us



## Key stakeholders



### Property Developer

- + **Prevent delays** – The commissioning of a lighting control system can sometimes cause sign-off delays. As SylSmart works as soon as power is connected to the luminaires, there are no delays; your building can open on time.
- + **Adhere to planning requirements** – There is increasing pressure to build energy efficient buildings in order to get planning permission. SylSmart is a cost effective way to score additional points on your green building certificates, such as BREEAM.

### Building Owner

- + **Improved returns** – SylSmart delivers optimal lighting and a greener building. Your energy consumption will be lower which will attract higher rents.
- + **Shorter rent-free periods** – When new tenants come in, lighting does not need to be recommissioned. Moving-in periods are shorter so landlords can reduce rent free periods.
- + **Reduce maintenance costs** – Malfunctioning lighting control systems are a common cause of maintenance calls. The simplicity of the SylSmart system, coupled with the system's lack of a single point of failure, has been proven to significantly reduce faults and consequently reduce the number of maintenance calls.

### Tenant

- + **Flexibility** – Tenants can repartition space without recommissioning or moving sensors, as the SylSmart system will automatically adapt.
- + **Year-on-year improvements** – Deliver energy savings year after year by fine-tuning the system for incremental energy saving gains.
- + **Control energy performance/ ESOS improvements** – Tenants often have little control over potential energy saving measures, such as the quality of insulation in a premises. SylSmart offers the opportunity to deliver significant energy savings by a simple point by point replacement of the luminaires.

## Key application areas



Healthcare



Data centres



Service corridors



Education



Logistics/warehouses



Offices



Airports

# A lifetime of saving you money

SylSmart is a sound financial investment, saving you money at every phase of a project's lifecycle – from design and installation through to handover and use – while also delivering the best possible light quality to your building occupants.

SylSmart is one of the first lighting control solutions that makes sense from both a financial and user comfort perspective. It is important for specifiers and lighting buyers to strike the right balance between performance and cost. Adding controls delivers energy saving- SylSmart delivers maximum energy saving while maintaining a comfortable working environment.

By using SylSmart enabled luminaires, not only can you enjoy vastly superior lit environments, but you can also enjoy significant savings on capital expenditure as well as on operating costs.

"I have used SylSmart solutions in several projects and it shortens the time to install by 25%, compared with a DALI installation."

Filip Salembier, Electrolyse



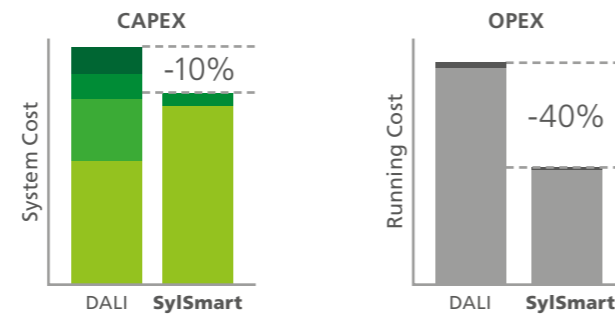
## Total cost of ownership examples

### Open-plan office refurbishment SylSmart vs DALI



#### Compared To DALI:

- 10% reduction in capex
- 20% additional saving p.a.
- Typically 1.5 years quicker payback



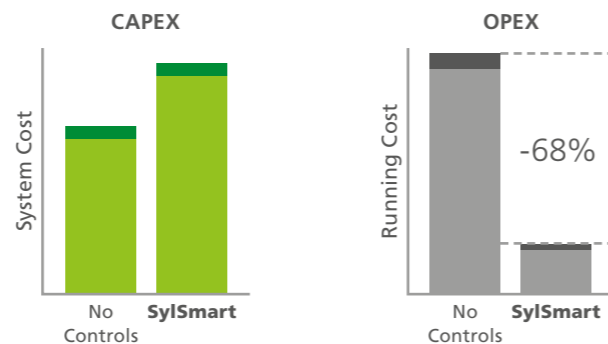
For this example, figures have been calculated for an open-plan office layout featuring 83 standard 600 x 600mm 64W T8 luminaires. Taking into account the reduced installation and commissioning investment required, this scenario delivers impressive savings as well as reducing annual energy consumption

### Hospital corridor SylSmart vs No Controls



#### Compared to installing LED luminaires only:

- 1.9 years payback (instead of 2.3 years)
- 68% additional saving in annual running costs (GBP)



Figures calculated on 50W SylSmart-enabled luminaires 600x600mm (49 standard and 17 emergency). Previously, the hospital was fitted with 66 4x18W luminaires, consuming 62,270kWh.

PLEASE NOTE: Figures are indicative only. Pricing can vary based on the individual circumstance of the client.

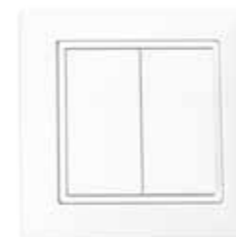


## Accessories

### SylSmart Wall Switch

Allows you to control light scenes and the dimming of luminaires within a designated area. A feature of the wall switch is to select a pre-programmed lighting scene to enhance a presentation.

The wall switch is wireless and battery free ensuring a maintenance free experience with the flexibility to be mounted anywhere, including glass partitions. An Android device with NFC is needed for configuration of the wall switch.



### App for Apple iOS and Google Android

For further optimisation of the system, to maximise user comfort and energy efficiency, download the app from the Apple Store or Google Play Store and use it to tailor your SylSmart system to suit your needs.

- + Light levels
- + Timeouts
- + Fade times
- + Pre-set parameters
- + Grouping
- + Edit values for a group
- + Add to group
- + Remove from group
- + Create a new group

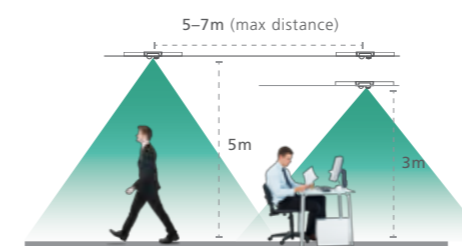
- + Multi-group
- + Corridor hold
- + Control daylight harvesting
- + Wall switch setup\*
- + Network lock

\*An Android device with NFC is needed for configuration of the wall switch.

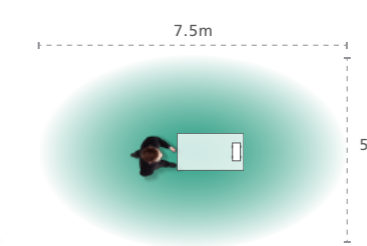


## Technical details

### Office

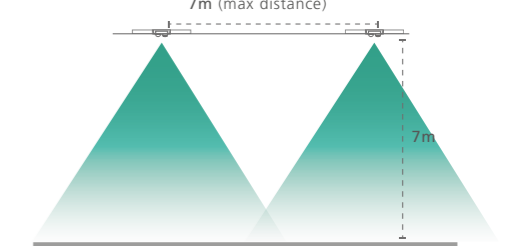


Presence detector coverage — indoor/commercial



Presence detector coverage

### Service Areas



Presence detector coverage — Service areas



## Case study

**Location:** France  
**Client:** Eugene Decomble High School  
**Architect:** Grzeszczak-Rigaud Architect  
**Engineering:** Artelia  
**Installer:** Groupe SNEF



# An ideal learning environment

### Education

Sylvania's innovative SylSmart luminaires are providing an energy-efficient lighting and control system at the all-new Eugene Decomble High School in France. A High Environmental Quality (HQE) approach was adopted for the building, making it a showcase for eco-construction and sustainable development.

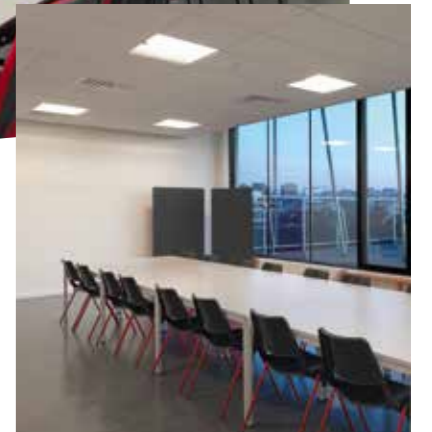
The project involved creating a lighting scheme for the school's 25 classrooms, corridors and boarding house. Grzeszczak-Rigaud Architects worked with Engineering office, Artelia, and Marseille based installers, Groupe SNEF, to install a lighting scheme that guaranteed the best visual comfort for the students and staff. A lighting and control solution from Sylvania was selected due to its high efficiency, adaptability and ease of installation.

"In order to best meet the specifications which were based essentially on energy, performance, we proposed Lumiance Insaver LED luminaires and the SylSmart lighting management system", explains Angélique Morel, Market Manager at Sylvania.

To suit the dimensions of the classrooms, two versions of the SylSmart-enabled luminaires were installed: 150 luminaires with a luminous flux of 3,210lm (2 x 15W) and 100 with a flux of 7,700lm (3 x 15 W). The 4,000K luminaires are equipped with a very low luminance grid and a micro-prismatic diffuser. The daylight sensors help maintain the illuminance level of 450 lux on the tables, regardless of natural light contribution.

## Case study

**Location:** Place Rouppe, Brussels  
**Client:** SETCa/BBTK  
**Architect:** Walter Quix Hontoir Architects of Brussels  
**Installer:** Electrolysis BVBA



# Rapid installation

### Office

The office buildings of SETCa/BBTK (Union of employees, technicians and managers in the FGTB/ABVV) and the federal organization of the FGTB, the Belgian socialist union have been completely renovated to provide a modern and energy-efficient workplace. Sylvania was chosen to provide the lighting products and has delivered an efficient solution that simultaneously creates a unique atmosphere and also meets the diverse needs of users and visitors of the building.

**180 SylSmart enabled luminaires were installed and customized in just two hours, over five floors. 5x faster than Dali.**

Located in the Place Rouppe, a picturesque square in the centre of Brussels, the striking Art Deco building, is now equipped with Sylvania Rubico LED luminaires that incorporate SylSmart technology. The SylSmart lighting control system uses natural algorithms to react to changes in the environment, which means the lighting is only on in the areas of the building that are being used. 180 SylSmart enabled luminaires were installed and customized in just two hours, over five floors. Both the customer and the installer – Electrolysis BVBA – were very pleasantly surprised and pleased with the speed and ease of installation of the system.

The other building, located on rue de Tournai, houses the federal portion of SETCa/BBTK. Spread over the different floors are many meeting rooms, which have been refurbished and new lighting installed. The U-shaped conference or auditoriums always have a booth and are equipped with a total of one hundred Rubico MPO LED dimmable luminaires. To create a standardised approach, Concord Glace luminaires were again used for an extra decorative touch, Instar Eco Kit LED in the washrooms, Lumiance Giotto LED wall lights in the stairwells and Sylvania Sylproof Superia LED in the basement.

It is clear that Sylvania, in collaboration with the architect Walter Quix Hontoir Architects of Brussels, has created an impressive overall lighting solution. In addition, this solution saves the maximum amount of energy by utilising SylSmart technology, suitable drives and motion detectors.

# Lighting unlocking the intelligent building

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## SylSmart Beyond

Luminaires, regardless of style, will soon become the beating heart of any building's digital infrastructure. They are already powered, connected and precisely located, making them ideal candidates for smart technology including sensors for monitoring motion, ambient light, air quality, temperature, noise and for asset tracking.

Eventually, we predict that customers will start selecting lighting solutions based on their capabilities to meet their data needs. It will become a decision aligned to a business strategy.

That is why, in order to deliver to our customers and meet their new requirements beyond lighting, we have launched the SylSmart Lighting Innovation Centre (SLIC) – transforming our business and revolutionising the industry through open innovation.



# A SLIC approach to smart lighting

At Sylvania, we are putting our ambitions into practice by forming the SLIC – the SylSmart Lighting Innovation Centre – an initiative pushing the boundaries of collaboration aimed at delivering fresh thinking and true value to our customers based on a smart lighting infrastructure.

We have built this strategy around an ecosystem approach that sees successful collaboration with customers, established IoT companies, new startups and leading lighting control companies as a way to jointly innovate and deliver SylSmart smart lighting propositions to market.

## Anything is possible with Beyond

Through the SLIC, we are continuously pushing the boundaries Beyond lighting. We have 5 key priority areas for development:

- + Status Monitoring and Maintenance planning** – monitor your lighting infrastructure to ensure operation and compliance with effective maintenance planning.
- + Wider systems integration** – using data to enable other connected building services such as HVAC or security to become smarter and more efficient.
- + Occupancy Analytics and Space Utilisation** – Understand how and where your property is being used by guests, visitors or staff.

- + Location Based Services** – Help people find their way from A to B through indoor smartphone navigation, or engage customers with contextual content through location-based messaging.
- + Asset tracking** – With, building-wide real-time scanning and a deployment of low cost beacons, SylSmart can help you and your staff track and locate key assets.

We are particularly interested in developers of these solutions. Contact us through [slic@feilosylvania.com](mailto:slic@feilosylvania.com)

The SylSmart Lighting Innovation Centre initiative has been created to catalyse our vision, and develop the technology to enable our progression from a traditional lighting company to a solutions and services company.

We invite you to join us and be part of this journey, to be a part of the revolution in lighting.



# Occupancy analytics driving down operational costs at the NEN

**The NEN (Netherlands Standardisation Institute) has installed the latest SylSmart Beyond lighting solution from Sylvania in their headquarters in Delft.**

The solution comes with fully cloud enabled smart lighting and delivers benefits far beyond normal lighting controls applications. Each luminaire is equipped with a smart sensor module where every sensor reading is analysed and made available in real-time, worldwide through the connected portal. This enables the NEN to operate their building in a far more efficient way. The presence data is used by the cleaners to only clean those rooms that have been used reducing the time spent cleaning rooms that have hardly been used since the last cleaning round.

**Case study**  
**Location:** Netherlands  
**Client:** Netherlands Standardisation Institute (NEN)  
**Partner:** My Sustainable Business and Relighting

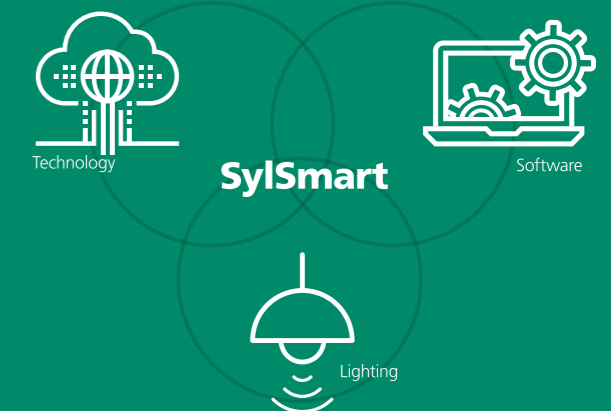
## Key Outcomes

- De-centralised intelligent lighting control system installed which is able to acquire data, enabling operational insights and savings beyond lighting
- Up to 75% energy is being saved compared to a standard on / off system
- Cleaning operations have been significantly improved and costs reduced
- 15% cleaning cost saving a month

## Our open innovation policy

We have a deep understanding of trends in both the lighting and construction industries, along with other fields, such as building and digitalisation. We know what makes businesses tick and we know that in today's challenging economic climate, where 39% of all commercial energy is spent on lighting resources — efficiency and making best use of resources and technology is paramount. Sylvania operates an open innovation policy working with partners across lighting and technology markets to develop solutions that meet the precise needs of their users. Combining the strength of Sylvania with the power of IoT and big data to transform its lighting offering from products to services for connected buildings and smart cities.

Get in touch with us today at: [slic@feilosylvania.com](mailto:slic@feilosylvania.com)



# SYLVANIA



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 Europe Limited.

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