



## Energy efficient and intelligent lighting for sustainable parking spaces

Woluwe Shopping Centre, Belgium

Woluwe Shopping Centre in Brussels, Belgium challenged Sylvania to deliver a powerful, wireless, smart lighting controls system to help reduce their energy consumption but which offered rapid installation and commissioning. The project encompassed the complete relighting of the parking and outdoor areas, through the implementation of SylSmart Connected controls. Not only did the customer receive Sylvania's state-of-the-art smart lighting solution, but were also supplied with a SylSmart Energy service ensuring the customer had accurate insights on existing energy consumption, helping

them to create a tailored strategy for energy reduction and decarbonising the building for a sustainable operation.

### ENERGY INSIGHTS ENABLE A STEP-CHANGE IN BUILDING OPERATIONS

SylSmart Energy is an advanced energy analytics platform that empowers businesses to take action regarding their energy data through insights. SylSmart Energy is designed to make it easy to gain insights ranging from high level summary information to detailed circuit level information. The high accuracy auditor devices that were deployed in the "assessment phase of the project" revealed the precise baseline of energy consumption, and also uncovered malfunctions of existing timers, that contributed to unnecessary lighting during off peak times.



### Client

Woluwe Shopping Centre, Belgium



### Key Benefits

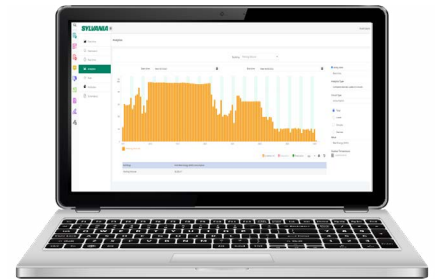
- **Cost savings:** easy installation, no re-wiring required
- **Energy savings:** 83% total savings verified by SylSmart Energy, an additional 74% savings beyond LED through SylSmart controls
- **Rectification:** helped identify faulty timers, achieved cost saving of 30% when the issue was resolved
- **Visual comfort:** fully optimised, flexible lighting linked to occupancy & daylight harvesting



### Solutions and products used

- SylSmart Energy Measurement & Verification
- Resisto - SylSmart Connected enabled
- Skyline Street
- Preconfiguration off-site
- Simple optimisation on-site

## SylSmart Energy



The fully optimised, flexible lighting solution linked to occupancy & daylight harvesting ensures automated lighting and comfort throughout the day. Tailored timed scenes secured illumination levels, safely meeting regulations, allowing customers to safely navigate their way back to their vehicles.

“The solution delivers on all main aspirations we had: it provides energy saving, was simple to install, intuitive to use and aesthetically pleasing.”

The whole project, supported by SylSmart Energy service, has been a great success with Woluwe Shopping Centre management, who appreciated the consultancy and aftercare services Sylvania provided and wishes to continue working with a one-stop shop lighting expert in future stages of their smart lighting projects.

The quantified baseline data suggested that through the LED lighting upgrade, and through deployment of robust smart controls, the carbon profile of their energy use would improve significantly, and that the Energy tool would help with energy reporting & sustainability initiatives obligations as well.

### COST EFFECTIVE SETUP AND MAINTENANCE

The installation process of the new SylSmart Connected enabled LED luminaires, along with the SylSmart Energy measurement and verification devices, were all carried out by the clients own internal maintenance team, following a tailored schedule that warranted little disruption in the operation of the building. There were over 700 of the latest generation of SylSmart Connected enabled Resisto waterproof fixtures installed and a further 24 units of Skyline Street LED fixtures retrofitted in outdoor areas.

“The SylSmart enabled luminaires with integrated sensors is a real advantage, the time of installation was very minimal as we only needed to replace the old lights with new lights”, said Wassim CHADLI, Facility Manager at Woluwe Shopping Centre (managed by AG Real Estate).

Both SylSmart Connected and SylSmart Energy systems provide real-time data about system performance, enabling Woluwe to control lighting and energy performance of the premises, with little to no maintenance other than firmware updates.

### INTELLIGENT CONTROLS FOR MAXIMUM SAVINGS AND ENHANCED OCCUPANCY COMFORT

Enhanced energy performance was one of the key priorities Woluwe was looking to achieve with this project. Beyond the efficiency of the LED fixtures and the new smart control system, SylSmart Connected facilitated a further 74% reduction in energy savings, reaching an impressive 83% total energy reduction compared to the original installation which resulted in a quick ROI of less than 1.4 years. Energy results of the SylSmart Energy verification service, provides tailored energy consumption dashboards and monitoring to all stakeholders.

“We are very satisfied with the efficacy of the new lighting system, sending communication to all the merchants in the shopping centre to explain to them how the smart system operates, they were also pleased with the new visual comfort and features.”

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 Ltd

