

PHILIPS



Case study

Lighting

Car parking

Case Study

Southern Health

NHS Foundation Trust

Location: Hampshire, UK
Philips Lighting: Stela LED Range





“ The LED trial received a very positive response, **improving security on site with staff and visitors feeling more comfortable walking outside** – especially those on the late shift.”

John Horne
Engineering Estate Officer, Southern Health NHS Foundation Trust



The Solution

The first site to be upgraded was Melbury Lodge in Winchester, a remote facility surrounded by woodland, where comments had been received with regard to safety. Here, the original exterior lighting was provided by a range of light sources including compact fluorescent, sodium and mercury. These have now been replaced with Philips Stela LED lanterns throughout the car park area.

John Horne, Engineering Estate Officer, recalled; “The main area of complaint was the low level of illumination in the car park, in particular issues around light pollution and poor lighting uniformity resulting in dark spots. These issues were present across all four sites of the estate. The LED trial received a very positive response, improving security on site with staff and visitors feeling more comfortable walking outside – especially those on the late shift. Light levels have now increased and there has been an approximately 70% saving on energy costs. The collaboration between the design team and the in-house installation team also resulted in additional cost savings.”

For Mulberry Lodge, all the lighting design and installation was carried out in-house by the Southern Health Estate Department. A further benefit at Melbury Lodge and, indeed, for other sites is the significant reduction in maintenance requirements due to the long life of the LED light sources – many of which required specialist access equipment for regular re-lamping in the past.

Following the success of the Melbury Lodge project the LED upgrade was rolled out to other sites on the estate. The key to the success of the project was Philips’ ability to tailor each solution to suit the individual requirements of many different types of outdoor space within the Trust’s estate.

For example, at both Romsey Community Hospital and the Leigh House Hospital children’s unit, where Stela lanterns have also been used, patterns of usage have enabled part-night dimming in selected areas to reduce energy consumption. At the rear of these car parks the lighting is switched off completely at times when they are not in use.

The other site to be upgraded was the Ashurst Hospital mother and baby unit, where Stela lanterns have been combined with Luma traffic luminaires to provide the best solution with optimum light distribution.

The Philips Stela lantern was the ideal core product for this project because of the inherent versatility of the Stela family, with luminaires in wide, square, and long versions, enabling them to deliver varying light distributions to suit the layout each car park, and the whole Stela family product range was used across the sites. In addition, they provide a guaranteed lifetime of 100,000 hours for low total cost of ownership, backed by ease of installation and maintenance.

If you would like to see more projects or have an enquiry, please visit us at www.philips.co.uk/lighting or email: lighting.uk@philips.com

Background

As part of its programme to reduce overall energy consumption by 10%, Southern Health NHS Foundation Trust has made extensive use of Philips LED lighting in car parks across multiple sites. In doing so, the Trust has also improved light quality, reduced life cycle costs and minimised light spillage with a quick return on investment. In addition the new lighting meets the BS5489 Rev2013 regulations.

Southern Health NHS Foundation Trust provides community health, specialist mental health and learning disability services for people across the South of England. The Trust is one of the

largest providers of these types of services in the UK, covering the counties of Hampshire, Dorset, Wiltshire, Oxfordshire and Buckinghamshire.

The Trust had a target to reduce its energy consumption by 10% by April 2014 and recognised that there was significant potential for improved energy efficiency by upgrading car park lighting across its estate. In addition, such an upgrade would help to address concerns relating to poor visibility, safety and light spillage onto the adjacent properties or into patient bedrooms.



Fast Facts

Customer
Southern Health NHS Foundation Trust

Location
Hampshire, UK

Philips Products
Stela LED Range



Southern Health **NHS**
NHS Foundation Trust

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