



Case study University of Surrey Lecture Block

Location
Philips Lighting

Guildford, Surrey
Philips Lighting and Control Solutions



PHILIPS



"Upgrading the lighting in the lecture block has delivered significant energy savings with a fast return on investment. In the Griffiths lecture theatre, for example, we replaced ageing T8 fluorescent lighting with a combination of DayZone recessed LED luminaires for general lighting and StyliD downlights for additional accent lighting. The LightMaster controls are configured with a range of pre-set scenes that can be easily selected to suit the activities in the lecture theatre."

Simon Davis, Electrical Consultant



Enlightening the Campus Environment



Fast Facts

Customer

University of Surrey

Location

Guildford, Surrey

Philips Products

DayZone

Soundlight Comfort

LuxSpace

StyliID

Project in Partnership with

Cambridge Van Leyden

Background

In upgrading the lighting in a number of its facilities, the University of Surrey has enhanced the campus, creating a more inviting environment for both students and staff. As part of its sustainability programme, the University of Surrey has an on-going programme to reduce energy consumption and carbon emissions. In several recent projects this has involved upgrading the lighting to more efficient lighting technologies, such as LED, combined with advanced controls. As well as reducing energy costs and carbon footprint, these measures are helping to lighten the financial burden of the Carbon Reduction Commitment Energy Efficiency Scheme.

The Solution

Each lighting solution supports learning and social activities in both a practical and perceptual way, while also contributing to reduced environmental impact.

Lighting performance in the main lecture block at the Guildford campus, for example, has been addressed as part of a phased refurbishment project. The new lighting takes advantage of the wide range of solutions available from Philips. The Philips team worked closely with lead electrical consultant Simon Davis to address the requirements of each space very precisely.

In the main circulation areas of the lecture block the emphasis of the lighting design is on creating a stimulating ambience that enhances the vitality of the space and influences the perception of visiting prospective students. To that end a range of coloured light sources have been installed to create the desired effect.

LuxSpace and StyliID fixtures have been used in the Archive Library. "As with all of these projects we wanted to take advantage of the latest technologies in the Archive library. Again, LEDs and controls were the obvious way forward. So in

the foyer and corridors we've replaced fluorescent lighting with LED luminaires, combined with a control strategy that will minimise energy consumption. Low energy lighting has also been installed in adjacent offices," Simon Davis recalled.

The Studio is an innovative space, occupying part of the University's original bookshop and now used by student entrepreneurs. Darren Barnes, the University's Project Manager, was involved from the start: "Because of the concrete slab ceiling the acoustics in the space are very challenging, it was clear that a standard grid ceiling would not provide the acoustic control required. When we saw the Soundlight Comfort system it was clear this was exactly what we needed," he explained.

The Soundlight Comfort system comprises white sound-absorbing acoustic panels with specially modified PowerBalance luminaires built into them to provide low-energy lighting with an optical design that complies with all office norms. The system was developed jointly by Philips and acoustic specialist Ecophon.

As well as minimising lighting energy consumption the environmental credentials of the system are enhanced by use of panels manufactured from 70% recycled household glass and recycled glass wool.

A common factor in the re-lighting projects for the University of Surrey is the high level of collaboration between Philips and other members of the design teams. This interaction at the early stage of each project has helped to ensure that design decisions have been made on the basis of the latest lighting technologies available.

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



Contact details:

Guildford

Philips Lighting
Philips Centre
Guildford Business Park
Guildford, GU2 8XH
Tel: 0845 601 1283

Dublin

Philips Electronics Ireland Ltd
Philips House
South County Business Park
Leopardstown
Dublin 18
Tel: +353 1 764 0000

Email: lighting.uk@philips.com
www.philips.co.uk/lighting



©2013 Koninklijke Philips Electronics N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.

Date of release: March 2013