

PHILIPS

Case study

Tunnel Lighting



Case Study

St Pancras Road Underpass

Location: Camden, London

Philips Lighting: FlowStar Road Tunnel Luminaires



Fast Facts

Customer
SPIE, Camden Council

Location
Camden, London

Philips Products
FlowStar Road Tunnel Luminaires



FlowStar LEDs reduce costs for Camden Council

In replacing unreliable and inefficient metal halide lighting in the A5202 St Pancras Road underpass, Camden Council has taken advantage of the cost and environmental benefits of LED lighting, using Philips FlowStar Road Tunnel luminaires.

The underpass is a busy traffic, cycle and pedestrian route to both St Pancras and King's Cross rail stations, as well as providing access to the Council's new offices. It was previously lit by around 100 twin lamp metal halide fittings and Camden Council saw an opportunity to visually improve what had become a quite a gloomy and uninviting area. This was a "spend to save" initiative to take advantage of energy efficiency gains and lower maintenance costs whilst also reducing carbon emissions.



The Solution

The lighting design was carried out by Philips and the new luminaires were installed by main contractor SPIE. SPIE's John Broster recalled: "The previous luminaires were fitted into the soffit of the underpass and as this is a concrete struttured roof it would have been impractical to alter it. Consequently, we needed a solution that could provide a direct replacement for the existing fittings."

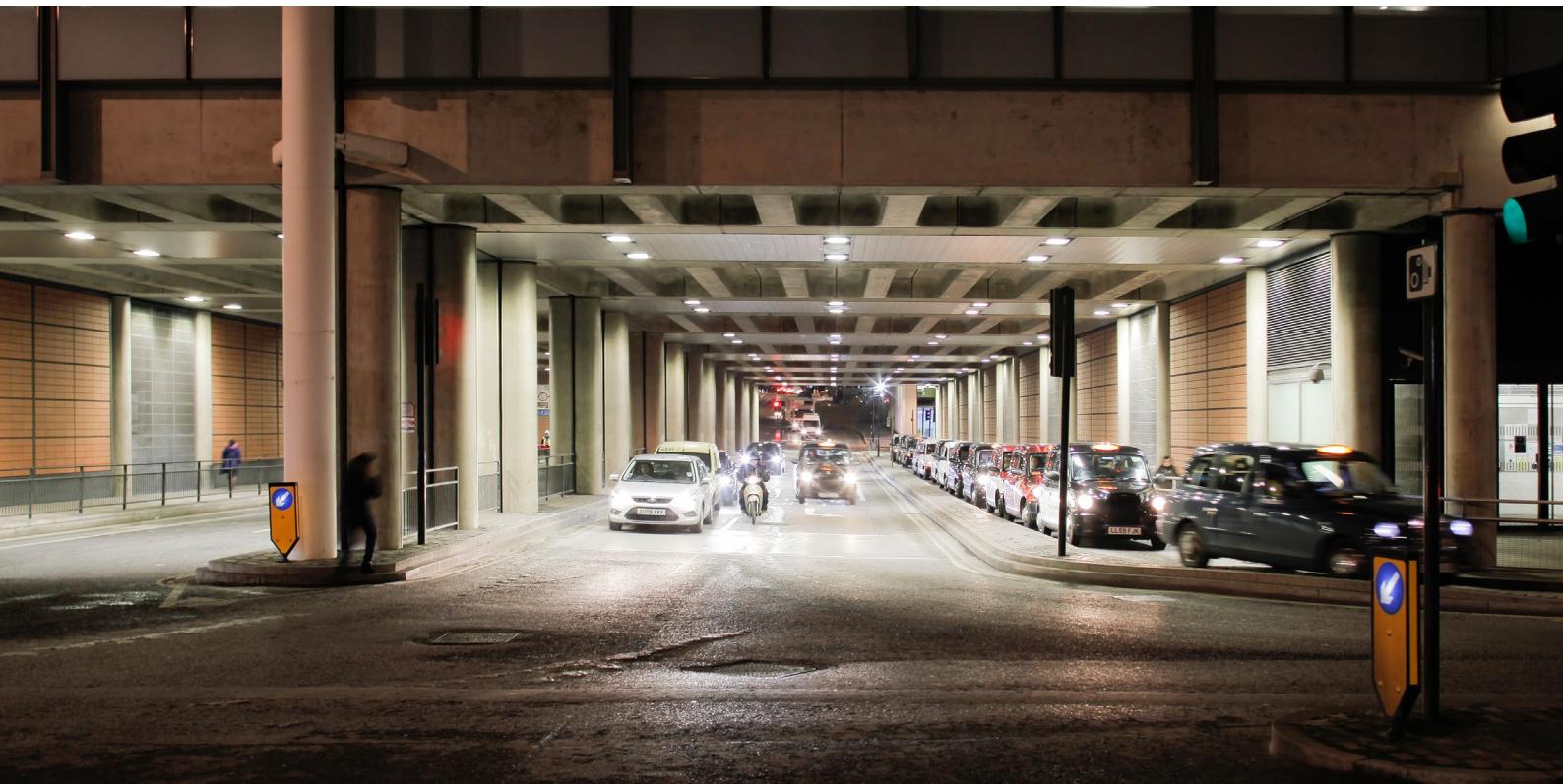
"To that end, we removed some of the fittings to verify that the existing electrical infrastructure was sound and also built a support framework as the new FlowStar fittings are slightly smaller than the previous luminaires. The framework was also provided with a decorative surround so that there were no visible gaps," he added.

The stainless steel FlowStar luminaires have been installed on a one-for-one replacement basis, to provide energy savings of over 50%. The new lighting has increased light levels and uniformity to remove the gloom, while the 4000K neutral white colour temperature has created a better and more inviting visual environment for users of the underpass. Overall the new lighting has made the tunnel feel safer and a pleasanter place to use.

The project also provided an ideal opportunity to change the control strategy to align it to current best practice of BS5489-1:2013. "As this is a short underpass the lighting only requires one-step dimming and we were able to adjust the existing system, using high light levels during the day and dimming at night to minimise the contrast for drivers entering the underpass," John Broster explained.

In upgrading to FlowStar LED luminaires Camden Council has achieved a significant reduction in energy consumption and carbon emissions, while also reducing maintenance costs as the luminaires are virtually maintenance-free throughout their lifetime. A five year pay-back is envisaged.

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





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