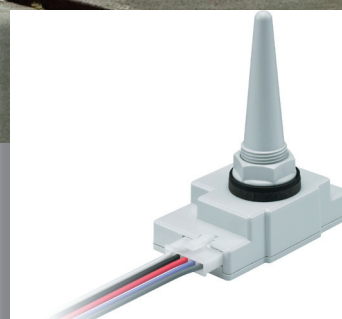




Case study Orford, Warrington

Location
Philips Lighting

Warrington, UK
Philips White Light Solutions



PHILIPS



“Warrington Borough Council is committed to reducing its carbon footprint by installing energy efficient and low maintenance lighting whilst considering the needs of a diverse environment and its residents. Philips’ lighting scheme offered us the perfect solution to ensure we installed a lighting system that met the needs of local residents.”

Barry Hughes, Street Lighting Team Leader



Before



After

This picture illustrates how the quality of street lighting was significantly improved through the use of modern white light sources.

Philips enables Warrington Borough Council to introduce a high quality, energy efficient and cost effective street lighting system



Fast Facts

Customer

Warrington Borough Council

Location

Orford, Warrington

Philips Products

SpeedStar BGP322 LEDGINE

Mini Iridium SGS45I 60W CPO and DALI DynaVision programmable ballasts

Starsense telemanagement system

Project in Partnership with

Warrington Borough Council

Lighting Class

S4

Background

Philips worked with Warrington Borough Council to transform Festival Avenue and surrounding streets in Orford through the use of white light, using a mix of LED luminaires and CosmoPolis lamps. Philips' lighting scheme allowed the Council to experiment with different colour temperatures to determine the best night time environment for residents of the area.

The Solution

Warrington Borough Council installed luminaires with four different colour temperatures in neighbouring streets to precisely match specific lighting requirements. At the core of Philips' lighting scheme was the SpeedStar LEDGINE as this product is available in three colour temperatures; 3,000K, 4,000K and 5,700K as standard. The SpeedStar is an ideal cost effective and energy efficient solution due to the modular concept of LEDGINE, starting with 24 LEDs through to 160 LEDs in increments of eight LEDs, there is complete flexibility to light a scheme to the exact lighting design requirements, thus not over lighting, and offer the three different colour temperatures.

Controllability

The SpeedStar and Mini Iridium CosmoPolis luminaires introduced by Philips also included the new Starsense RF Central Management System which is a cost-effective system for monitoring, controlling, metering and diagnosing outdoor lighting. These capabilities offer the opportunity to significantly reduce maintenance costs through extended lamp life and accurate planning of service calls, to save energy through dimming, and improve outdoor lighting reliability.

The system also included DALI DynaVision programmable ballasts in the Mini Iridium luminaires which offered Warrington immediate savings through a pre-programmed dimming profile, but integrated easily into the StarSense system once the RF node was connected.

Energy and carbon saving

With this new installation, the Council was able to achieve an initial energy saving of up to 60%, which was then further improved through the use of a telemanagement system.

Barry Hughes, Street Lighting Team Leader said "Warrington Borough Council is committed to reducing its carbon footprint by installing energy efficient and low maintenance lighting whilst considering the needs of a diverse environment and its residents. Philips' lighting scheme offered us the perfect solution to ensure we installed a lighting system that met the needs of local residents."

Philips can create a lighting scheme specifically for your needs, and if you have any existing system, Philips can also advise on LED upgrade or lamp replacement options.

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



Mini-Iridium 60W CPO 2800K



SpeedStar 3000K



SpeedStar 4000K



SpeedStar 5700K

The pictures above illustrate the different colour temperatures that were implemented to allow Warrington Borough Council to assess the environment created by each colour temperature.

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