

Jarrold Bridge

Norwich

Illuminating the environment with energy-efficient lighting



Project Brief

Lighting Technology Projects was appointed to illuminate the Jarrold Bridge by steelwork specialists SH Structures, who had won the contract to build, supply and install the bridge. With the steel and timber bridge open to the public 24 hours a day, decorative lighting was envisaged as an integral part of the

structure by the client, as was the need for an eco-friendly solution.

The team was subsequently tasked to devise a scheme that was durable and energy-efficient, but also aesthetically pleasing and complementary to the surrounding area.



Client Overview

The Jarrold Bridge is a brand new bridge connection designed to provide easy pedestrian access from Norwich centre to the north-east side of the city. Spanning the River Wensum, the footbridge boasts an arc design and is part of a £1.5 million investment by local business Jarrold and Sons to regenerate their former factory site.

The major redevelopment project by Jarrold will also include 250,000 sq ft of offices, a fitness centre and a 180-bed four-star hotel once completed.

“The Jarrold Bridge scheme was one of the more challenging projects LTP has recently completed, but the results were certainly worth it. Through careful planning and team work we have achieved a stunning lighting solution for the bridge that the client is thrilled with.”

Keith Elms,
Operations Director

Technical Solutions

Achieving a sustainable solution that would deliver high light output with low light pollution was imperative for the project. As such, LTP opted for LED and metal halide fixtures that could capably illuminate the bridge, accentuate the form of the structure for those crossing it during the hours of darkness, all whilst remaining cost and energy conscious.

For the main steel handrail, UniLED colonnade lights were specified and installed. The contemporary luminaires offer a cool white lighting effect and longevity, ensuring maintenance is kept to a minimum for the client.

The opposing handrail was lined with UniLED flexineon that was selected for its durability and performance. Measuring 100 metres in length, the energy-efficient LED extrusions follow the bridge's arc shape design and emit a soft white glow.

To provide further illumination, 11 metal halide in-ground uplights were incorporated on the north side of the bridge. The fixtures offer excellent operation, delivering a consistent white wash that complements the brightness of the LED lights.

All lighting aspects of the bridge are controlled via a Photocell arrangement that offers the client simplicity.

LTP collaborated with SH Structures during the project, integrating the lighting onto the bridge during its construction phase. Following the bridge lift across the River Wensum, any subsequent amendments to the scheme had to be completed at water level with the use of harnesses.

Outcome

Lighting Technology Projects worked closely with SH Structures to deliver the project which meets the client's aesthetic and environmental expectations, whilst also providing a safe and well-lit environment for pedestrians utilising the bridge.

The Jarrold Bridge successfully opened to the public in June and was blessed in a ceremony by the Bishop of Norwich. It has since been shortlisted for RICS East of England Awards, Institution of Civil Engineers (ICE) Awards (London Region) 2012 and the Structural Steel Awards and the Institution of Civil Engineers (ICE) Awards (East Region) 2012.

Key Products

- UniLED flexineon
- UniLED colonnade lights
- PLM metal halide in-ground uplights



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