

Falkirk Tunnel













Information

Client: Scottish Canals - United Kingdom Location: Falkirk, Scotland - United Kingdom Products Used: MaxiLED Large Globe RGBW DMX Controller Used: Pharos

Technology



Data over Power distribution to the fixtures



Environment: Dry, damp and wet locations (IP68).

Light Source: CREE LED's with red, green, blue and white dies.



48VAC with combined data over

175m (574ft) maximum strand length.

Power Output:

line voltage.

Cable/Run Lengths:

100 Globes per strand.

75m (246ft) maximum length

for leader cable to first fitting.

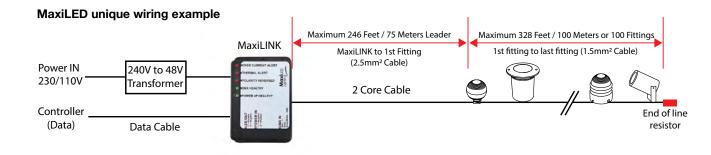


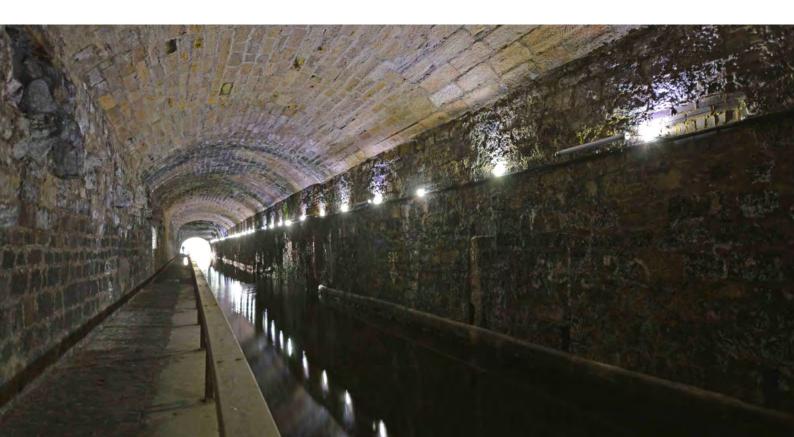


Watts: 2.35W per Globe at full RGBW on.



Listings: UL/cUL, CE, FCC, IK07 impact protection, BS EN 60598, IEC 60598





Background

Falkirk tunnel, which is 690 yards in length and has a towpath running right through it, has been cut out of solid rock, with deep rock cuttings existing at both ends. There is constant water seepage through the roof. The tunnel which dates back to 1818 is part of the Union Canal and is located close to the iconic Falkirk Wheel. This tunnel is of some interest in that it dates earlier than the railway-tunnels and therefore, presumably, the oldest tunnel in Scotland. The tow-path inside the tunnel has been renovated and provided with a handrail for the use of pedestrians and cyclists.



Design

Scottish Canals upgraded the existing functional lighting to programmable White LED, but in addition wanted to include a dynamic RGBW LED solution to add to the general atmosphere of the space. LITE worked in conjunction with Scottish Canals, a lighting designer and the contractor to provide an appropriate Lighting solution that could be programmed but also endure the testing conditions within the tunnel. LITE's MaxiLED RGBW Festoon product was selected specifically because of the IP68 and IK07 rating and the easy installation method using catenary cable to reduce the amount of fixings.

A further development was the addition of a 3G remote access control interface which allows the client to change control settings from the office or home using a mobile phone or laptop.





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