



## Eaton's Cooper Lighting and Safety helps revitalise St Pancras Station

**Location:**

London, UK

**Segment:**

Community Infrastructure

**Challenge:**

The platform lighting required a bespoke luminaire to be housed within a catenary boom system, stretching a total length of some 4.5km.

**Solution:**

Eaton's Cooper Lighting and Safety designed and manufactured a luminaire to meet all the special requirements. Featuring an extruded aluminium housing with a toughened glass cover, the luminaire incorporates a reflector and louvre and is sealed to provide IP65 environmental protection.

**Results:**

Over 1600 of the bespoke luminaires were supplied, helping revitalise St Pancras for the 21st century.

**Behind the scenes, Eaton's Cooper Lighting and Safety supplied some £100,000-worth of items**

**Background**

To prepare St Pancras Station for its role as the London terminus for Eurostar, London and Continental Railways spent £800million restoring the original Barlow Shed to its Victorian grandeur and adding a new extension to accommodate the longer Eurostar trains. As part of this process, the lighting was renewed throughout the station.

**Challenges**

The platform lighting had to be housed within a catenary boom system that stretches to a total

length of some 4.5km, suspended at a height of 3.2m from the T-shaped passenger information points located at intervals along each of the platforms. This called for a bespoke luminaire design, which had to achieve the required lighting levels for the platform edge while satisfying the structural requirements of the catenary system and meeting strict limitations on weight.

**Solution**

The special luminaire designed and manufactured by Eaton's Cooper Lighting and Safety satisfied all these requirements. Featuring an extruded aluminium housing with a toughened glass cover, the luminaire incorporates a reflector and louvre and is sealed to provide IP65 environmental protection. The use of a plug-and-socket connection system not only saved time during the initial installation but also minimises



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any disruption for maintenance work.

In addition, Eaton's Cooper Lighting and Safety designed and manufactured the vertical LED-based exit signs built into each passenger information point and the horizontal versions suspended above the concourse at the south end of the station. Derived from the company's Britesign product, these 6W edge-lit exit signs offer a lifetime of up to 50,000 hours with virtually zero

maintenance.

Behind the scenes, Eaton's Cooper Lighting and Safety supplied some £100,000-worth of items from its standard range for offices and other areas of the station, including Synthesis suspended luminaires, Varsity surface luminaires, Wafer T5 suspended luminaires for direct/indirect illumination, Moduspec T5 modular recessed luminaires and Tufflite IP65 luminaires.

## Results

Over 1600 of the bespoke platform luminaires were supplied by Eaton's Cooper Lighting and Safety to help revitalise St Pancras Station for the 21st century. As well as providing downlighting to illuminate the platform for passengers, the luminaires also included an element of uplighting, which provides some illumination for the vast arched roof of the Barlow Shed.