



A sustainable lighting and fire solution for Doncaster civic building

Location:

Doncaster, UK

Segment:

Commercial Office

Challenge:

To provide a full mains and emergency lighting solution that incorporates a fire detection and alarm system whilst saving energy.

Solution:

A comprehensive bespoke system combining mains lighting, emergency lighting and fire systems.

Results:

The wide range of fittings installed on site are expected to contribute to an annual saving of £650,000.

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Eaton's Cooper Lighting and Safety business, a Carbon Trust accredited supplier were selected by Wates Construction to deliver a £500,000 package to complete a lighting and fire alarm fit out on Doncaster Council's new £20m Civic Offices. The five-storey, 157,500 sq ft new Civic Office is part of a major town centre regeneration project that covers about 25% of the town centre in the Waterdale area. The first phase of the Civic and Cultural Quarter also includes the new performance venue Cast and Sir Nigel Gresley Square. Upgraded road networks help reconnect Waterdale with the town centre and a refurbished 850 space Civic Quarter Car Park. New housing has also started in the area. The project is being delivered by Doncaster Council and its partner Muse Developments. Wates Construction was the main contractor for this first phase.

Delivered at £1,300 per sq m, the now occupied Civic Office building provides flexible office space for 1,600 council staff and has enabled the authority to merge much of its estate under one roof. The building also includes a one-stop-shop for council services. This highly sustainable building has achieved a BREEAM Excellent rating and is expected to save the council £650,000 per year in operational costs. The mains functionality for lighting used Cooper's Acoustic System including Moduspec T5 in all office spaces; fitted with dimming controls, allowing for lighting levels to be altered creating an ambient workplace atmosphere. To facilitate safe exit from the building, in the event of mains power outage, a high spec emergency lighting system was also fitted, incorporating 2 Loadstar AC/AC battery systems. The Loadstar AC/AC has been awarded both EN50171 and the BSI Kitemark for its market leading performance and safety features.

The system also included EC1002nc panels, each of which can have up to 255 emergency luminaires connected. The status of each luminaire can be read as

either a numerical fault value or as a digital value per fault-code. Each panel can be reset individually, making the system user friendly, whilst still offering absolute peace of mind. To create a bespoke solution to the client's lighting requirements that complemented the contemporary feel of the building, other products installed included the use of LSN fittings on stairwells, incorporating T5 luminaires. Additional luminaires fitted within the system included New Safe 8 self-contained 8W T5 luminaires, suitable for both interior and exterior usage, as well as New Safe Ex emergency exit signs, designed with pictograms for safe egress guidance. Other luminaires used on the project included Moduseal, Cercla, Coolstar, Solstar and Tufflite.

Scott Cardwell, Doncaster Metropolitan Borough Council stated, "Cooper Lighting and Safety are a great company and were pleased they secured this contract. They worked extensively with the contractor and us to result in a high quality mains and emergency lighting and fire system fit for our new offices."