

Overview

Greengate has supplied a fully addressable DALI-based lighting system to a new building at Bolton College, providing flexible lighting control managed through a front-end PC, as well as automated testing of emergency lighting and failure reporting.

The new 20,201m² site incorporates hair and beauty salons, a performance area and performing and visual art studios and a large sports hall and gymnasium, as well as a new training restaurant and catering facilities, and a purpose built construction skills and arts building located adjacent to the new building.

In the light of the varied uses and occupancy levels, consulting engineers Gifford Manchester specified a highly flexible lighting management system that would also assure the college of low cost of ownership.

Consequently, the lighting control system is designed to dim lighting in relation to daylight levels, as well as providing occupancy control in learning areas. Corridor-linking ensures that access areas remain lit at 50% when adjacent rooms are occupied. Greengate also worked closely with the college's FM team to develop pre-defined lighting scenarios for individual learning areas.

In addition to the energy savings achieved through the lighting control, the project has addressed other areas relating to cost of ownership. For example, Greengate liaised with modular wiring company Apex Wiring Solutions to provide a complete plug and play solution, helping to reduce installation time.

In addition, the system provides automatic testing of emergency lighting with full documentation, freeing maintenance staff from manual inspections. The enhanced lighting control will also extend lamp life so that re-lamping and lamp disposal costs are minimised.

The Greengate lighting management system at Bolton College comprises a 9-port pre-addressed DALI lighting control module (LCM), a single circuit HW DALI LCM, a twin circuit HW DALI LCM and input units, universal sensors and other lighting control equipment.



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