

CASE STUDY

ICEPS, UNIVERSITY OF LEEDS

BAM Construct UK

Lighting design by Arup

BACKGROUND

We were approached by BAM to support them in delivering a series of concept luminaires for a new facility at the University of Leeds. The International Centre for Engineering and Physical Science (ICEPS) provides state-of-the-art facilities for the faculties of Engineering, Physics, Chemistry, Materials Science, Astronomy and Computing.

THE BRIEF

There were five aspects to the concept:

1. Atrium feature lighting,
2. Stairwell centre feature pendant lighting,
3. Stairwell balustrade lighting,
4. Exhibition space lighting,
5. Freestanding floor lighting.

THE PROJECT

The atrium and stair feature lighting included direct/indirect, and RGBW. Taking into consideration the visibility from above, we designed the Figaro 100 luminaires with diffused direct/indirect RGBW lighting.

To control the atrium lighting, we used a standalone DMX system, combined with Casambi Bluetooth control. This method involved using DMX to Casambi transmitters which convert DMX signals to data transmitted via Bluetooth.

Once the control was arranged, it was used for other areas including the stairwell feature pendant. The exhibition space required several different sizes of suspended rings, with direct white light only and DALI control.

Products used in this project:

Bespoke • Figaro 100 • Figaro 60

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The floor-standing lights required dynamic white controlled light, via the building control system. We used Casambi in each fitting, with a Casambi bridge module connected to the master system. Each fitting could then be placed anywhere with a power supply.

The feature stairwell fitting was not compatible with the DALI DT8 drivers. Our solution was to use the atrium DMX system and split it into two separate universes with an interface capable of converting DMX to DALI DT8 signals.

Balustrade fittings were designed to suit the existing concept brief and were manufactured and installed without any problems.

RESULTS

With such a large project, there will always be complications and changes in strategy. We were pleased to be able to problem-solve and provide low-cost solutions in several situations. We are extremely pleased with the completed results of this project. ICEPS is a huge asset to the University of Leeds campus.

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