



BOURNEMOUTH UNIVERSITY

Gateway Building

Dextra
LIGHTING

ABOUT THE CLIENT

The Bournemouth Gateway Building at Bournemouth University is a physical representation of the university's vision of Fusion: to create the most stimulating, challenging and rewarding university experience in a world-class learning community. The construction includes 27 new seminar rooms, a lecture theatre, research space, an open access computer suite, rooftop terraces and a catering facility, with feature atria.

The Fusion Building is the university's most environmentally sustainable building to date. Achieving an Energy Performance Certificate rating of A and BREEAM Excellent, it features a range of the latest technologies designed to reduce its impact, including the selection of LED lighting throughout.

Ground source heat pumps lower the university's carbon emissions and heat the building in the winter and cool it during summer. The installation of high efficiency photovoltaic solar panels generates electricity, allowing the building to run on very low energy inputs.

Sensor-operated LED lighting provided by Dextra Lighting as well as the glazed atrium and AV systems, which turn off automatically when the areas are unoccupied, all helped reduce the energy demands of the building to help the university achieve commitment to environmental sustainability.

Working on this project were Kier and Mitie – the M&E Sub-Contractor as well as consultant AECOM. Dextra was chosen because Bournemouth University wanted to work with and support a local company which helped reduce its carbon footprint in delivering this project.



THE SOLUTION

Dextra provided bespoke outputs for the Rubix Suspended Bi-Directional to ensure it was achieving the required illumination and energy to meet the specific EPC requirements.

The Rubix Suspended Bi-Directional offers glare compliance to BSEN12464 and UGR19 or below ensuring it can be used in applications such as offices and classrooms. In common with other members of the Rubix family the optic frame is available in a range of colours and the housing can be supplied in either white or black allowing the appearance to be tailored to suit any corporate theme.

With bi-directional output as standard the Rubix Suspended Bi-Directional ensures that both the working area and the ceiling is effectively lit providing an attractive space. A balanced design also allows for a two-point suspension that is both discreet and quick to install. With both six cell 1500mm options, four cell 1200mm and continuous run options the performance and appearance of the Rubix is easily customised to a wide range of applications. Continuous run variants are supplied complete with four or six pole through wiring loom for quick and easy plug and socket connection and are also available with a range of blind units.

Elsewhere, the Modled Office was also used on the project. This product has been designed specifically for applications where monitors are used in areas such as classrooms and offices. By using a central micropism optic with high transmission opal diffuser surround the MODLED Office is designed to comply with the latest BSEN 12464 glare requirements for both the 3000 candelas per metre squared limit above 65 degrees and UGR19. This glare control has been combined with high output

LED sources ensuring that a 400 lux average can be achieved with spacings as large as three metres by three metres. The Modled Office therefore combines compliance with L2 and BSEN 12464 with optimum performance, allowing your installation to be designed with the minimum of luminaires, capital cost and energy consumption.

Selected for its premium quality, the BTEC Downlight is ideal for customers who need a premium quality downlight with high quality LEDs and drivers, excellent efficiency and a five-year warranty, whilst still suiting those on a more restricted budget.

With a spun aluminium housing and injection moulded cable retention, the BTEC Downlight provides a seamless single piece white aluminium reflector and bezel.



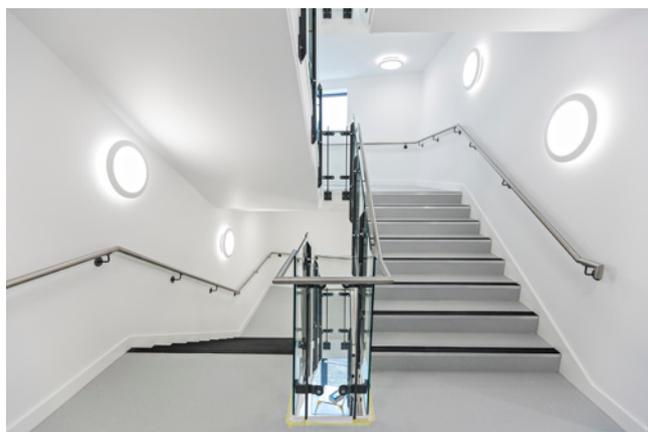
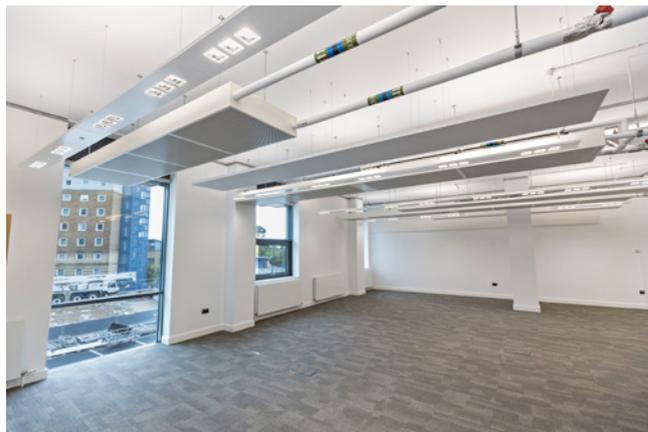
THE SOLUTION

Dextra's Modled Slim luminaire is designed to compliment its comprehensive fluorescent modular range of luminaires with an LED source providing excellent energy efficiency and low maintenance on the project.

Also selected for installation, the LED4 incorporates a Lithium Iron Phosphate battery giving greatly extended lifetime over traditional Nickel Cadmium and Nickel Metal Hydride products. Designed to complement mains operated luminaires, the LED4 is a standalone non maintained emergency luminaire and is available in standard, self-test and autotest emergency variants. All luminaires are supplied complete with a range of easily changed lenses for open area, escape route and spot applications ensuring that a single luminaire can be installed across any project and the lenses changed as and when required to provide the required light distribution.

The Graduate LED was also used in the Fusion building at the University. It has been extensively used in schools and hospitals nationwide. Available in 600mm, 1200mm and 1500mm variants, a wide range of lumen outputs as well as dimming and emergency options the Graduate LED can be tailored for use in applications ranging from classrooms and hospital wards through to corridors and stairwells.

Also installed as part of the scheme, were the Runway Recessed, the Modled Surface/Suspended, the Amenity Decorative, Discalo LED, Amenity Plus Led-Circular, Amenity Exterior Eyelid, Avalon Wallpack Led, Protec LED and the HBE LED.



FEATURED PRODUCTS



RUBIX SUSPENDED BI-DIRECTIONAL

Overview: To complement the recessed and surface range of Rubix luminaires the Rubix Suspended Bi-Directional has now been launched in the Dextra Lighting range.



MODLED OFFICE

Overview: The MODLED Office has been designed specifically for applications where monitors are used in areas such as classrooms and offices.



BTEC

Overview: The BTEC Downlight is ideal for customers who need a premium quality downlight with high quality LEDs and drivers as well as excellent efficiency for a rapid return on investment



MODLED SLIM

Overview: The Dextra MODLED Slim luminaire is designed to compliment Dextra's comprehensive fluorescent modular range of luminaires with an LED source providing excellent energy efficiency and low maintenance.



LED4

Overview: The LED4 is the first Lithium powered emergency product in the Dextra range offering extended lifetime and warranty.



GRADUATE LED

Overview: The Graduate LED is a mainstay of the Dextra range and has been extensively used in schools and hospitals nationwide.

FEATURED PRODUCTS



RUNWAY RECESSED

Overview: A slim line aluminium housing available in three colour options, offering recessed in either continuous runs or as individual luminaires options.



MODLED SURFACE / SUSPENDED

Overview: The Dextra MODLED Surface / Suspended luminaire is designed to provide our customers with an energy efficient and low maintenance alternative to traditional sources.



AMENITY DECORATIVE LED

Overview: The Amenity Decorative is manufactured from injection moulded polycarbonate with an opal diffuser and comes with a range of optional coloured ring attachments and semi recessing kits.



DISCALO LED

Overview: The Discalo LED brings a highly efficient and low maintenance luminaire to our amenity range.



AMENITY PLUS LED – CIRCULAR

Overview: The Amenity Plus - Circular range is sealed to IP65 allowing for use in external areas such as under canopies or wall mounting, however is equally suited to a range of internal applications such as corridors, stairways, toilets and storage areas.



AMENITY EXTERIOR – EYELID

Overview: The AMENITY EXTERIOR LED is a highly robust aluminium exterior luminaire with a durable opal polycarbonate diffuser, sealed to IP65.

FEATURED PRODUCTS



AVALON WALLPACK LED

Overview: The Avalon Wallpack LED uses the latest branded LEDs providing excellent efficiency and low energy consumption combined with minimal maintenance.



PROTEC LED

Overview: A high quality recessed LED downlight, the PROTEC LED uses the highest quality components with cutting edge optic design and a modern aesthetic.



HBE LED

Overview: 4w LED self-contained surface 'Hanging Blade' Exit Sign with aluminium body and screen printed legends.