



BRYNNAR JONES DAY CENTRE

Pentre

Dextra
LIGHTING

ABOUT THE CLIENT

Run by Rhondda Cynon Taf, the third largest local authority in Wales, the Brynnar Jones Day Centre in Pentre is used to support children and adults from the local community with learning difficulties and specialist needs.

The council wanted to create a welcoming environment for local members of the community as part of the plans to refurbish the building.

For this project Dextra worked with long-standing customer Rhondda Cynon Taf, Electrical Engineer Joshua Bradley and contractor Lloyd Electrical to design and supply products that would help enhance the day centre as well as make it more energy efficient.

Knowing the building is being used by members of the community with learning difficulties Dextra wanted to create a calming environment using a white tuneable lighting system and providing training to the staff who run the centre to change the lighting environment for each visitor at the touch of a button.

With previous lighting in the building using outdated T8 fluorescent technology, the transition to Dextra LEDs enabled the council to achieve its energy-saving targets successfully.



THE SOLUTION

Dextra's Graduate LED was used to integrate with the white tuneable system. The Graduate provides excellent glare control and works well in this learning environment. This was used throughout the building, where 28 of the white tuneable luminaires and 8 of the standard version were installed.

The Graduate LED has been extensively used in schools and hospitals nationwide. It is suitable for installation on conduit, surface mounting or suspension and can be offered with integral microwave sensors for additional energy savings. For healthcare applications a nightlight can be specified to provide low level lighting during rest periods.

The white tuneable system was also used with the Runway Wall, 23 of which were used in the sensory room, learning spaces and workplaces. Here, both ceiling and wall mounted versions were needed to help deliver the sensory requirements.

The Runway Wall is an architecturally attractive luminaire for wall mounting, supplied complete with a pair of mounting brackets to provide both cable entry and mechanical fix to walls. It is available in a range of options including grey, black or white finishes, opal or microprismatic diffuser options, white tunable and a wide range of dimming variants.

Also used on the project was the Amenity Decorative. The 1500 lumen model offers similar output to a 28W 2D luminaire and the 2000 lumen variant gives similar output to a 38W 2D with the benefit of significantly lower energy consumption as well as a five-year warranty. Its sister-product, the IP rated Amenity Decorative LED IP65 was also installed.



THE SOLUTION

Elsewhere, the LED4 was used. This incorporates a Lithium Ion 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 changeable lenses, catering for open area, escape route and spot applications. This ensures a single luminaire can be installed across any project and the lenses changed as and when required to provide the required light distribution.

Alongside this, the AME LED was specified on the project. The AME LED IP65 LED is a self-contained polycarbonate bulkhead. It comes in a white body and is manufactured to BS EN 60598.

Also, the OAT2 LED was installed in the building. The OAT2 is a recessed LED luminaire available with a recessed diffuser or with an optional LED hanging legend making it ideal to provide lighting and signage for emergency escape routes and exits. The recessed installation allows this luminaire to be as discreet as possible, while the option of either maintained or non-maintained operation allows for its use in a wide range of applications.

To further support the need for effective and efficient lighting on the project, Dextra's popular Protec LED was used. The Protec LED comes with a number of bezel, reflector, beam angle and colour attachment options that, once installed, can be easily removed and replaced. This allows for lighting updates in-line with changes to room layout, new branding colour schemes or display rearrangement. IP65 rating can be achieved for use in bathrooms and wet areas, whilst BSEN 12464 and UGR glare compliant variants are also available for use in offices.

Dextra's Typhon was installed in the building to help meet IP65 requirements. The Typhon is a robust and durable IP65 luminaire suitable for a wide range of industrial and commercial applications where protection against water and dust ingress and light impact is critical. Manufactured with a glass reinforced polyester housing and supplied with stainless steel clips as standard, the Typhon offers excellent chemical resistance, whilst the polycarbonate diffuser ensures resilience against accidental impacts.

To complete the project, the Discalo LED and Opus Wallpack products were used along with the REAF 7 6A LL sensor and REA 7 PTHDIR basic programmer.



FEATURED PRODUCTS



PROTEC

Overview: The Protec is the most versatile downlight in the range with a selection of attachments allowing the product to be personalised to suit most applications.



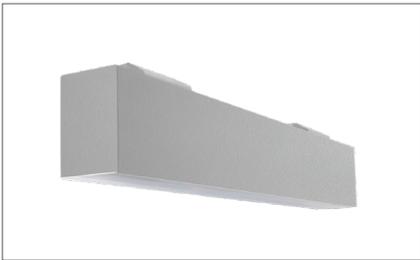
TYPHON

Overview: A robust and durable IP65 luminaire with GRP housing for excellent chemical resistance.



GRADUATE

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



RUNWAY WALL

Overview: A versatile wall mounted range offering standalone or continuous run solutions.



AMENITY DECORATIVE

Overview: The Amenity Decorative range offers an attractive solution for amenity applications such as corridors and stairwells and is manufactured from robust injection moulded polycarbonate.



LED4

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

FEATURED PRODUCTS



AME LED

Overview: IP65 LED Self-Contained Polycarbonate bulkhead.



OAT2 LED

Overview: A recessed LED luminaire available with a reeded diffuser or with an optional LED hanging legend making it ideal to provide lighting or signage for emergency escape routes and exits.



DISCALO

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



OPUS WALLPACK

Overview: The Opus Wallpack combines a modern and minimalist design with a durable and robust construction and a lensed optic that minimises upward light distribution and light pollution.