



TRI LUX
SIMPLIFY YOUR LIGHT.

PUTTERIDGE HIGH SCHOOL

United Kingdom

Putteridge High School

TRILUX supply a fully controlled education lighting solution. Putteridge High School is a co-educational secondary school located in Luton, in the English county of Bedfordshire. In 2019 it was announced that funding and permission had been obtained to demolish the school's two sites and completely rebuild the school in one building.

The new school has been built as part of the Department for Education's School Priority Building Programme. The funding is part of a wider national programme to invest £2 billion into new and refurbished school buildings between 2015 and 2021.



Address

Edgewood Drive 2, LU2
8EX England, United
Kingdom



Lightplanner

Hoare Lea



The £23 million project is now home to 1,200 secondary students and offers state-of-the-art facilities, including modern teaching rooms, a sports hall, and three outdoor all-weather hard courts.

The school continually looks to inspire pride in its students to always strive to do their very best in everything they do. It aims to provide first-class opportunities for its students, preparing them for their adult lives ahead.

Artificial lighting formed a significant proportion of the previous buildings' energy use and carbon emissions and contributed to over 87,700kWhrs per annum.

Working with Kier Construction, Mechanical and Electrical consultant Hoare Lea was tasked with finding efficient luminaires to contribute to the overall reduction in energy use. Hoare Lea specified TRILUX lighting for all areas of the building to provide high lighting efficiency.



The following approach was applied to minimise the energy consumption of the lighting systems:

- ✓ Reducing lighting energy at the source by using LED lighting throughout the building.
- ✓ Reducing the time and intensity for which this energy is used using daylight linked controls and manual dimming systems
- ✓ Good level of illuminance on the task area as outlined by EN12464

Electrical contractor Integral UK installed a comprehensive selection of TRILUX luminaires throughout the school and its outdoor spaces.

The architectural design of the school goes against the norms of a typical school building. Stylistic choices reflect its forward-thinking approach to learning and inspiring its students, with exposed high concrete ceilings featuring heavily. Designers required a lighting solution that could fit within the ceiling, between the acoustic panels.

The suspended Solvan Flow modular system provides high-quality, energy-efficient light up to 143lm/cw optimised for the classroom setting. A wide range of light distributions, including symmetric, asymmetric, or diffusers, are available to suit all education lighting tasks.

For the lobby area, decorative suspended Limba pendants create an eye-catching entrance. The Mirona Fit Sport ball proof luminaire delivers a high light output in the sports hall and is reinforced to withstand high impact to ensure safe operation.

TRILUX's lighting management system, LiveLink, controls the lighting in all spaces other than the stores. The intelligent system combines the LED lighting with various types of sensors to increase energy efficiency.

LiveLink forms the basis for the future and can be extended beyond lighting at a later date. The system can independently report maintenance needs and interact with users, opening diverse possibilities for the control and monitoring of lighting solutions that make planning and installation highly simple.

The easy-to-use commissioning app provides electrical contractors with a range of intelligent functions for quick, reliable, and simple configuration of the light management system.







The following lighting control strategy was programmed for the school:

- ✓ In all spaces up to 35m², absence detection
- ✓ In all spaces over 35m², absence detection provided and including daylight dimming
- ✓ In daylight corridors, daylight dimming applied
- ✓ In all corridors, stairs, and lobbies without daylighting, PIR control used with manual override switches



In the teaching spaces, each luminaire row is independently controlled via manual inputs and the automatic system. Additionally, emergency lighting versions of the standard luminaires were chosen to provide the required minimum lighting levels in a power failure.



The fully controllable solution extends to the exterior lighting. Publisca decorative post-top lanterns were selected to light the pathways and car park around the school, reducing light spill to minimise the impact on the surrounding environment.

The energy efficient combination of lighting and controls has contributed to the building's BREEAM Very Good rating.

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