

TRINITY PRIMARY SCHOOL

The Challenge

The challenge was to provide the Lancashire County Council with a full LED lighting scheme compliant to CIBSE LG05: Lighting for education, a full emergency scheme with relevant design and documentation and a design for all exterior lighting. The Trinity foundation and key stage one site was a new build project carried out by John Turner Construction Group, who Allied worked closely with on the install of the lighting project.

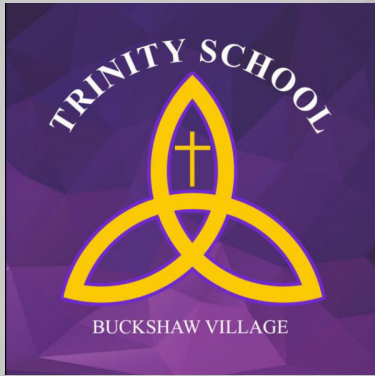


The Solution

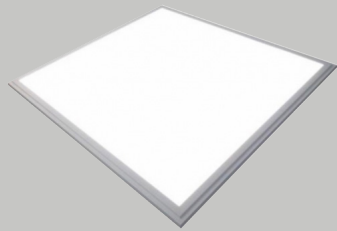
Upon being specified by LCC, Allied began work on procuring the most suitable fittings from trusted manufacturers in the UK and Europe. A full lighting design was carried out to comply to all regulations and an L2 compliance energy and control document was produced to ensure the selected luminaires produced optimum actual building power density ($\text{w/m}^2/100\text{lux}$) for the client. A full emergency scheme was produced with again carefully selected luminaires and all relevant documentation. Finally all exterior lighting was specified and supplied by Allied including bollards, wall lights and streetlighting with columns.



TRINITY PRIMARY SCHOOL - Web: www.allied.co.uk - Email: info@allied.co.uk - Preston Tel: 01772 883876 - London Tel: 0207 740 2764



FITTINGS USED IN INSTALL

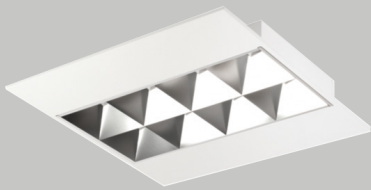


Allied Lucid 60V

Areas Used: Classrooms

Versions Used: Standard, DALI, 40W/ 30W

Reason for use: With a unified Glare rating of less than 19 and safety chain as standard, this LED panel is specifically designed for use in schools. Three different lumen outputs available to allow a seamless look and optimum energy savings. Tridonic DALI drivers were used for the panels in the classrooms



Allied Glacier L

Areas Used: Offices

Versions Used: DALI, 25W/ 29W/ 39W

Reasons for use: A decorative alternative to a flat LED panel to create a nice divide between teachers' office space and classroom space. Glare minimising optics and a matt white aluminium finish.



Allied IP65 Panel PL

Areas Used: Kitchen

Versions Used: 27W/ 40W Emergency

Reasons for use: IP65 rated panel selected for a busy kitchen for added protection. Available in various wattages to maximise energy savings. Integral emergency allowed easy install and maintained IP rating



Allied Orbit L

Areas Used: Classrooms, Corridors, Offices, Toilets

Versions Used: 13W/ 18W/ 25W, DALI

Reasons for use: A decorative downlight with many different wattages and optics available. Osram components and drivers.

Allied Pro Spot 10V

Areas Used: Cloak Room

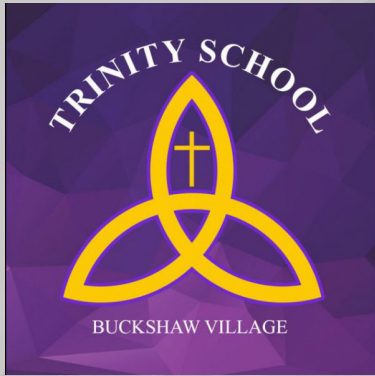
Versions Used: 10W IP44

Reasons for use: A neat spotlight to bring lux levels up in the cloakroom area for the pupils



TRINITY PRIMARY SCHOOL - Web: www.allied.co.uk - Email: info@allied.co.uk - Preston Tel: 01772 883876 - London Tel: 0207 740 2764

Allied
L i g h t i n g



FITTINGS USED IN INSTALL



Allied Recessed Decorative Exit Sign

Areas Used: Indoor Exit routes

Versions Used: 4W Exit Sign

Reason for use: Smart compact recessed exit sign in the corridors as opposed to suspended fittings

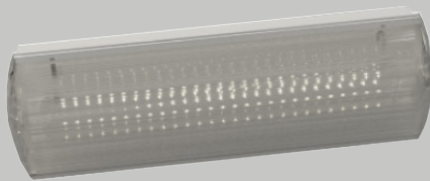


Allied 3hrs Emergency Downlight

Areas Used: Corridors/ Open Areas

Versions Used: 3W

Reason for use: Stand Alone emergency downlights with two different optics specified (corridor and open areas) to minimise the number of fittings required

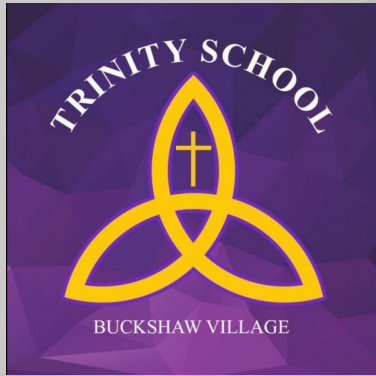


Allied 3hrs Emergency Downlight

Areas Used: Above doors

Versions Used: 4W Non maintained

Reason for use: Maintained and non maintained multi talented bulkhead, suitable for indoor and outdoor.



FITTINGS USED IN INSTALL



Allied 25W Bollard

Areas Used: Walkways
 Versions Used: 25W Bollard
 Reasons for use: Decorative bollard with high lumen output made for pathways and walkways



Allied Eyelid N

Areas Used: Exterior Wall
 Versions Used: 12W Eyelid
 Reasons for use: High lumen, decorative fitting



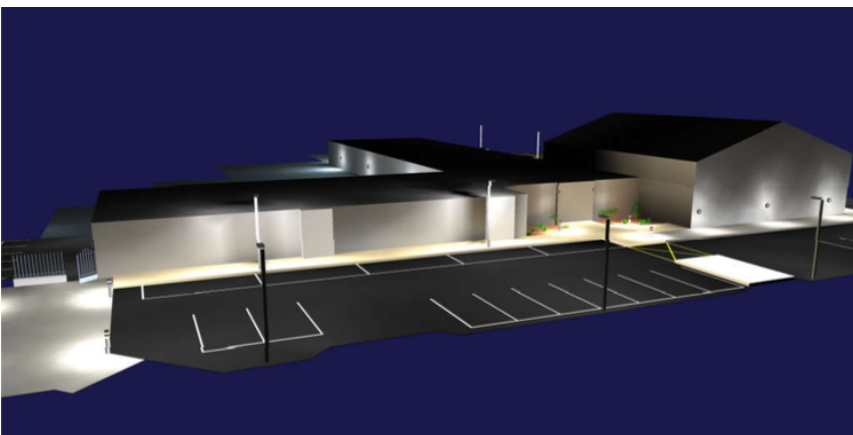
Allied Tube N

Areas Used: School Entrance
 Versions Used: 10W Tube
 Reasons for use: Up and Down light. Decorative fitting for outdoor use.

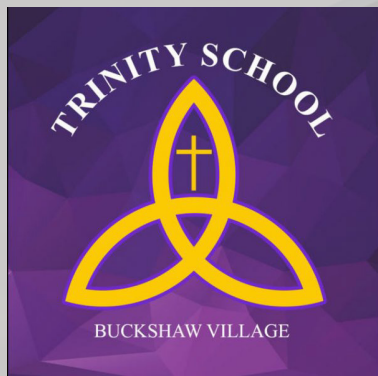


Allied Urbino L

Areas Used: Car Park, Road
 Versions Used: 55W Single, 55W Twin
 Reasons for use: High lumen, decorative street light with various optics available. Area lighting optics selected for Car Parks



TRINITY PRIMARY SCHOOL - Web: www.allied.co.uk - Email: info@allied.co.uk - Preston Tel: 01772 883876 - London Tel: 0207 740 2764



ENERGY SAVING EXAMPLE

Installed LED
Operating Costs

£3,510

Non-LED Alternative
Operating Costs

£13,949

Savings
Percentage

75%

kWh Saved

68319

CO2 Savings
Tonnes

30.4