THE BRIEF:

Highcliffe is a secondary school and sixth form with academy status, located in Highcliffe-on-Sea in the town of Christchurch, Dorset. The school originally opened in 1961 in temporary premises until the main building was completed in February 1963. With approximately 1400 pupils it has a dedicated team who are passionate about the power of education to improve lives.

With the main building being over 57 years old the school was looking at ways to improve the lighting whilst at the same time reduce energy consumption. ESL was invited to provide an energy efficient solution that could be introduced throughout the school. With a number of buildings of various ages and a mixture of lighting technologies, the challenge was to offer an LED solution that was consistent throughout whilst being sympathetic with the colour temperature to match the age of the buildings, but still provide correct light levels.

The original lighting consumption was approximately 282,822kWh per year providing a hefty annual bill of £31,172. With the age of the fittings many were difficult to maintain so ongoing maintenance was difficult and costs found to be high.

THE SOLUTION:

Having completed over one hundred lighting projects for education facilities, ESL had the experience to produce a solution to meet the school’s objectives.

QUICK FACTS:

61% Annual Energy Saving, £19,000 Cost Saving Per Annum, Carbon Ton Savings 104T

We upgraded the lights for the savings but were amazed by the improved quality of light too.

Simon Fuller
Business Manager

www.energysavinglighting.org
Many of the fluorescent tubes were either replaced with Flux LED Ovara tubes or where fitted flush to the ceiling grid replaced with Flux LED Pririo low profile panels.

The main hall was a particular challenge, with a ceiling height of approximately 9 meters, it was important to get the correct colour temperature and light level but without the glare that can sometimes be associated with high level lights. From the lighting design created by ESL the best solution was found to be the FLUX LED Helios fitting.

FLUX LED lamps offer a lifespan of approximately 50,000 hours compared to 8,000 for traditional fluorescent lamps, and with the ESL’s 5 year warranty Highcliffe was safe in the knowledge that should a light fail ESL would supply a free-of-charge replacement.

THE RESULT:

After completing the project the end result meant Highcliffe reduced their yearly lighting cost from approximately £31,000 to £12,000. Carbon emissions have also been reduced from 170T to 66T with a reduction of 61% in energy costs.

The school was delighted with the end result and level of service the ESL team provided. The installation of the LED lamps and fittings meant the school achieved its objectives of substantially reducing energy costs, reducing maintenance expenditure and improving the light output to offer an uplifting and brighter environment for both staff and pupils.

DID YOU KNOW?

ESL are able to provide government approved interest free loans, which are paid back by the energy savings made. This means you would not incur any additional budgetary costs for an LED upgrade.

The light output in the school has improved dramatically and the reduction in our energy costs is significantly noticeable.

The overall running of the project by ESL was very impressive, they were not too expensive but still used good quality products. ESL have a good team, we were very pleased with the customer service received.

Simon Fuller
Business Manager