



Case Study

Marymount International School
August 2013





Marymount International –LightSense® Reduces Costs and Boosts Performance in modern refurbishment of school

Estimated £3,910.93 savings in first year

Project Information

The Brief:

Client is seeking a modern alternative to fluorescent tubes.

Client is looking for a solution to lights being left on.

LightSense® Products used:

600x600 Panel:

50,000hrs, 32w, 2730lm, >80CRI, Emergency Option, plus motion sensor.

GU10 Lamp:

6.8w, 400lm, >80CRI, Integral dimming.

180 Round Light:

50,000hrs, 12W, 750lm, >70CRI, Emergency Option.

The Brief

Marymount International School is a small, independent Catholic day and boarding school for girls aged 11-18. The client is looking to upgrade their lighting solutions to go with the complete redesign of 7 classrooms, toilets and library, which will all include a new suspended ceiling. The lighting solutions must mirror the modern attributes of the new refurbishment, but it is also important to boost lighting performance and reduce energy costs. An ongoing issue the client faces is that the classroom and toilet lights are frequently left on while rooms are unoccupied. Students in the library will require various lighting outputs in order to achieve the correct ambience to create an appropriate working environment, therefore, the client will require a lighting system that offers dimming functionality.

The Solution:

Our solution to the outdated fluorescent lighting in the classrooms, toilets and the library was the LightSense® 600x600 Panel. The 600x600 Panel series offers a sleek and modern design while also fitting directly into a standard suspended ceiling. The panel also offers the latest edge lit technology; projecting lumen outputs of 2730. This works in the client's favour, as recent studies have proven that luminous ambient lighting has an impact on classroom productivity. The panel is 32 watts with a lifetime period of 50,000 hours, allowing the client to significantly reduce energy and maintenance costs.

The major issue in classroom and toilets was that the lights were frequently left on while unoccupied. Our solution to this matter was to fit a motion sensor. The sensor removes the switch control function, allowing the lights only to be activated while motion in the room is detected. This feature has been installed with a flexible control system, allowing the option to turn the motion sensor off if required. This allows the client to have the lights off while the room is occupied, which has proven to be a popular feature throughout school environments.



Inside the library, the client wanted a flexible and a functional lighting system that allowed the end user full control over the ambient settings. To meet this requirement the panel fittings, as standard, were installed with 1-10v dimming . The GU10 was also installed, as certain areas of the library required a more subtle and relaxed light. The GU10 lamps come with an integral dimmable driver, allowing for dimming functionality. The GU10 also comes with a directional feature, allowing the end user to direct the light where required. Also included in the project installation was the LightSense® 180mm Round Light, which was situated throughout school hallways. The client also required emergency lighting and therefore the panel series emergency pack option allowed the client to have uniformity throughout.



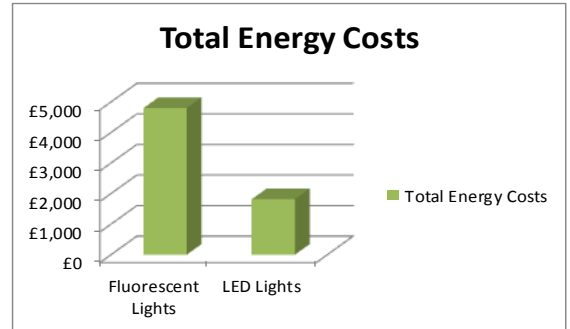
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The Outcome:

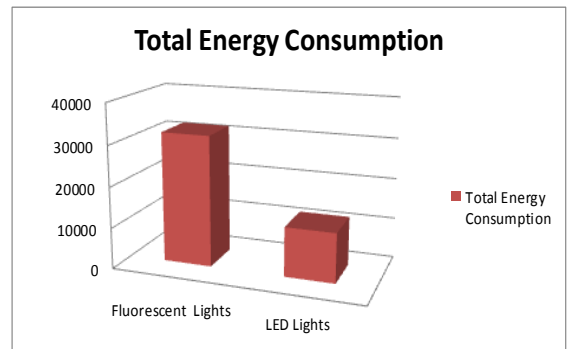
Overall, the LightSense® light fittings reduced energy costs, boosted performance and decreased carbon emission by around 50%. The installation of a motion sensor allowed the client to further reduce their energy consumption, allowing for additional savings to be made on their energy expenditure. Full control and functionality was available to the client and the design of the light fittings reflected the modern refurbishment of the school.



An additional £900 was saved as a result of reduction on maintenance, replacement and cleaning of fluorescent tubes.

More Information:

For more information please call the LightSense® team on 01206 890248 or alternatively visit our website on: www.ledlightsense.co.uk



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