

Case Study

St Robert's Church

Customer: St Robert's Church
Technology: Bespoke LED
Outcomes: Improved light quality
Savings: 80% on watts, an ROI of 5.4 years



PROJECT OVERVIEW

Built in the 1870's St Robert's Church, Harrogate is an impressive example of the then fashionable architectural style of Gothic Revival. It has, however, been subjected to several internal changes over the last century – not all of them sympathetic to the work of its original builders.

LED INSTALLATION

We conducted a free no obligation survey and presented them with potential savings they could achieve and a price for installation.

PROJECT BACKGROUND

The existing quality of light within the church was poor, with no controls and difficult to maintain. A decision was made to take a positive stand on enhancing the character of the church whilst reducing their energy and carbon footprint. A demonstration light was made and hung so that members of the church, parish councillors and community could see and understand how it worked.

Half Power



Full Power



THE SOLUTION

Working with a local bespoke LED manufacture we designed, supplied and fitted 8 x 1 metre diameter wheel lights with 8 lamps on each fitting. We also made two smaller wheel lights with 5 lamps on, which are also dimmable and 22 LED strip light to replace the fluorescents which were under each window. There were three critical things to take into account with the project. The lights must be in keeping with the church. They must reduce the energy consumption. They had to enhance the ambiance of the Mass or activity taking place within church.

RESULTS AND OUTCOME

St Robert's Church wanted to achieve 3 objectives

- To reduce the energy consumption and carbon foot print of the building. Original wattage 2742. New in intelligent LED 590. An 88% energy saving.
- To replace the current lighting with something that was sympathetic to the architecture of the church. To enhance the aesthetic and ambiance of the church as a whole.
- To have a lighting infra-structure which was controllable in terms of dimming and energy efficiency. Which provided much better quality of light and also to reduce maintenance costs.

CUSTOMER FEEDBACK

The best evidence of this success is the number of parishioners and visitors who assume the church has always looked like this, we also can now create the ambiance and mood we want for Mass, whilst the parishioners can still read the mass. Mgr. Donal Lucey

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