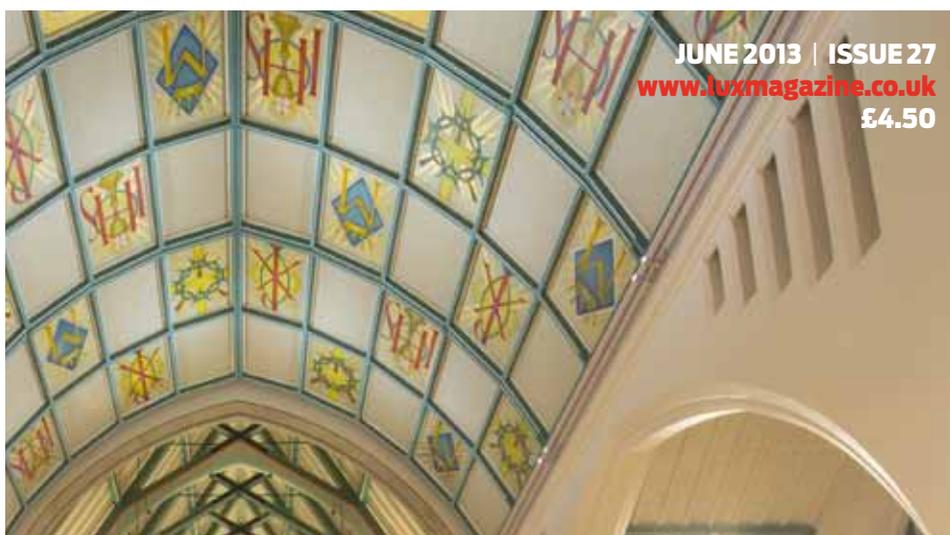




LUX MAGAZINE



YOU RAISE ME UP

How one London church lifted its light levels – and lowered its costs

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JOHN CASWELL

'Investing now means long-term benefits'



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LED BULKHEADS

We check out eight replacements for 2D and give our verdict

PLUS »

30 **REVOLUTIONISE YOUR LIGHTING AT LUXLIVE 2013**



Practise what you PREACH

This London church thought it would have to use more energy to improve its lighting. It ended up cutting it by almost half. **Robert Bain** finds out how

When the relighting of the Sacred Heart Church in Kilburn, northwest London, was first envisaged six years ago, the plan involved increasing energy consumption significantly to provide more light.

The existing 1960s scheme using filament and halogen pendants and spots was providing poor illumination, no longer meeting requirements and costing about £500 a year to maintain. A new design, using pendants with AR11 12V lamps, more AR111s for accent lighting and some MR16 spots, would have seen the electrical load triple to 35kW.

Major refurb

But last year the architect and the client asked church lighting specialist CES to revise the planned scheme as part of a major refurbishment throughout the church.

This time it was possible to look at making the church all-LED. CES specified luminaires from Mike Stoane, Basis and Commercial Lighting, using Bridgelux LEDs. General ambient lighting is at a colour temperature of 3000K, and the displays of the Stations of the Cross were lit at 4000K, to create depth and emphasise texture and colour.

More for less

The electrical load is just 6.9kW at full brightness – less than 20 per cent of what had originally been planned. Not only that, but light levels have been vastly improved, creating a much better space for people to come and worship. The new scheme provides 180lx in the nave and aisles and 300-400lx in the sanctuary areas.

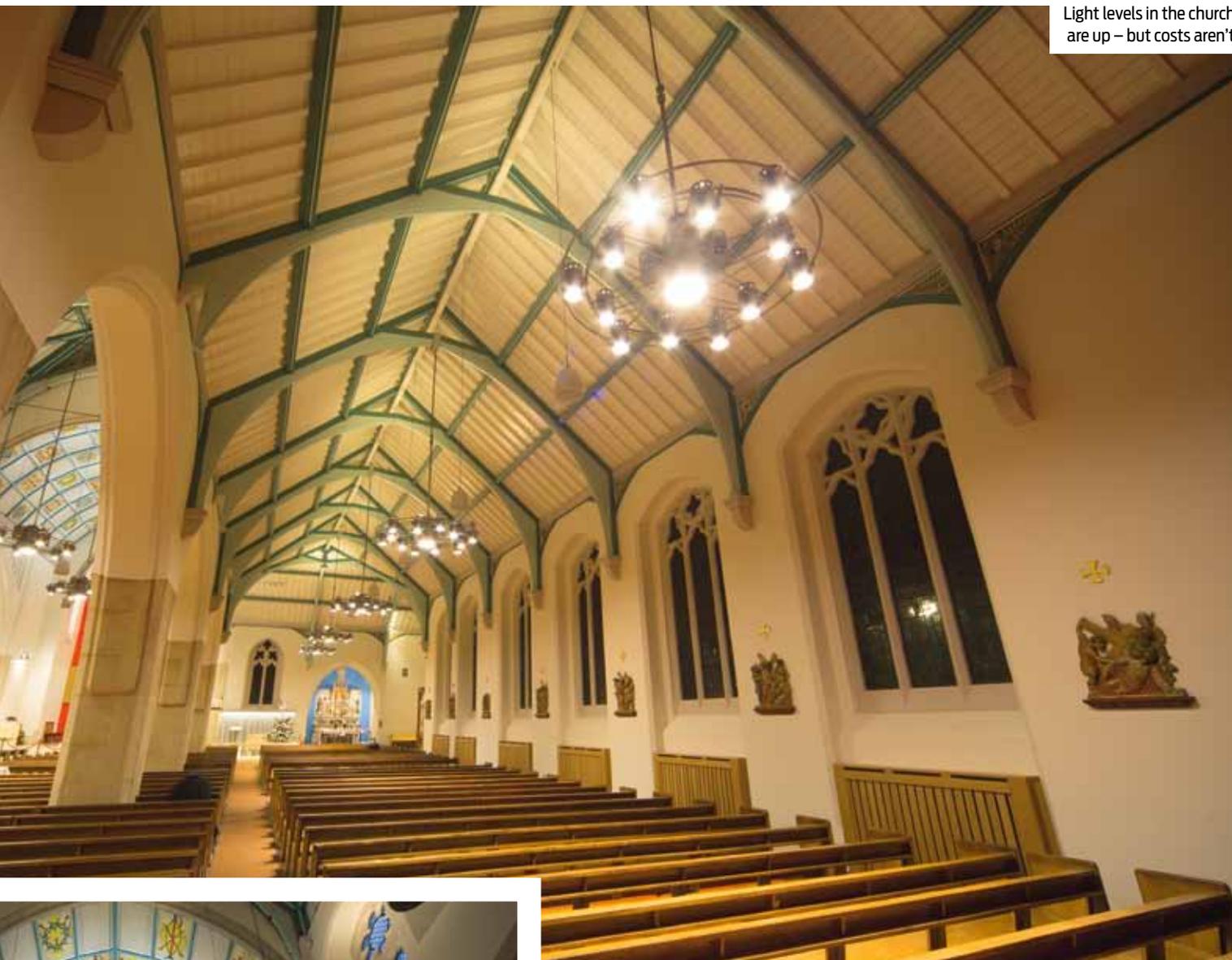
An I-Light automatic dimming system was also installed providing a number of lighting scenes and zones, which helped reduce the operational load by between 0.5 and 2kW. ▶



All the church's lighting is now LED



Light levels in the church are up – but costs aren't



The church is divided into zones for lighting control

ENERGY DASHBOARD ●●●●●●●●

6.9kW

INSTALLED LOAD

43%

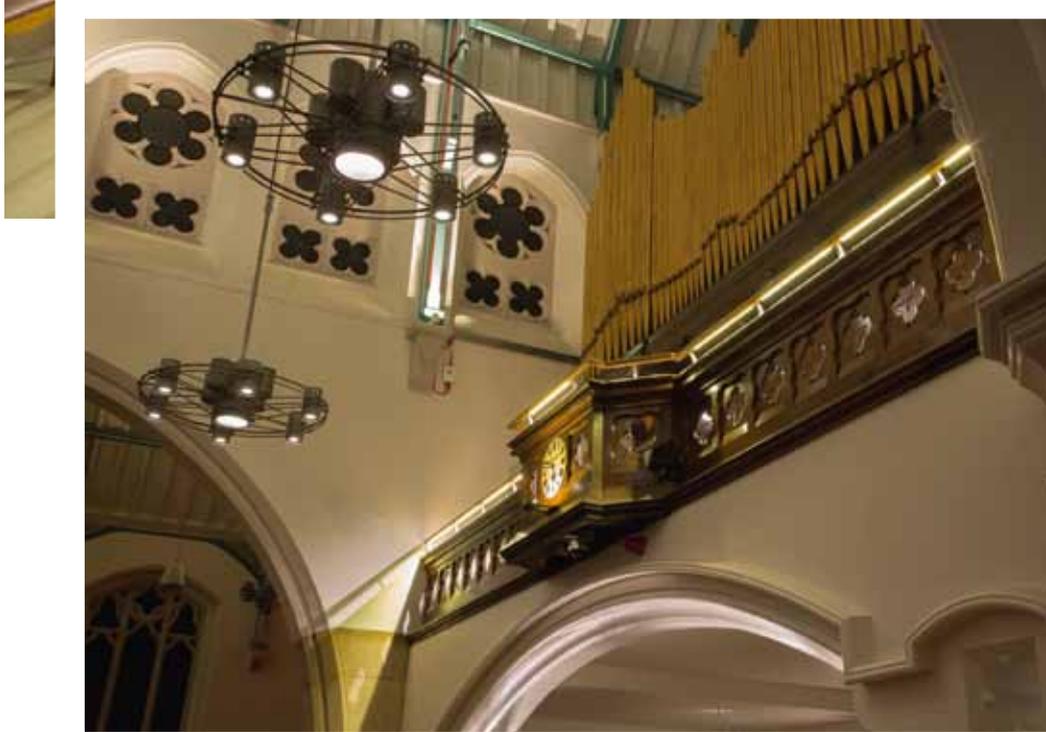
ENERGY SAVING

180-400lx

LUX LEVELS

The electrical load of the new scheme is way below what had originally been planned

Different scenes can be created for different services and events



The church is open every day from 9am to 9pm and the client wanted flexibility to control the lighting for different services, and in response to daylight.

The scheme was designed for maximum flexibility. Throughout the worship area there were 42 lighting channels with up to 50 lighting scenes, and lighting levels can be reduced at the touch of a button when there is daylight.

Highlighting architecture

Graham Smith, partner at CES, says, 'The client now has a very successful lighting installation offering very low energy, minimal maintenance and maximum flexibility, and highlighting the prominent aspects of the architecture throughout the worship area.'

LED fittings mean minimal maintenance