

# ARUP

## RESTORATION OF ST MEL'S CATHEDRAL

Acoustics and lighting are two prominent, yet largely invisible, engineering systems. Both are essential to the atmosphere of worship, and both have been improved on performance and efficiency without compromise in other areas.

## PROJECT OF THE YEAR FINALIST 2015



## CONTRIBUTION TO SOCIETY

- Technical objectives achieved - aesthetics, acoustics, energy efficiency, comfort, maintainability, flexibility, health, safety and future proofing
- Cathedral is widely acclaimed
- Praise and support from the local community

## CONTRIBUTION TO THE ECONOMY

Local employment was given priority

Museum in the crypt, housing part of the 9th century crozier of St Mel and other treasured artefacts recovered from the fire, draws ongoing tourism and interest



## ANY OTHER FACTS?

### *Acoustics*

It became clear that acoustic performance of controlling reverberation was a critical success factor.

An acoustic consultant worked closely with structural and electrical engineers and architects to find the optimum passive solution of absorbent materials backed up by intelligent speaker technology, which controlled the distance of amplification to minimise reverberation.

