

Lighting case study - St Gabriel's Huyton Quarry

St Gabriel's seats 200+ people and has dark stone walls but a light ceiling (white plaster between dark beams). The Apse is painted white. Windows contain stained glass.

Original lighting consisted of total 8kW, including almost 4kW of front spotlighting.

It has been replaced by a total system of less than 1kW, consisting of a mixture of:

- 30-50 W SON spotlights
- 70 W SON spotlights
- 150 W SON spotlights
- 150 W Metal Halide spotlights

The front of the church is lit by two 150W Metal Halides and one 150W SON spotlight. This gives a whiter colour balance. This gives a good light balance which would be suitable for a range of purposes. The spotlights are mounted at a height of approximately 5 metres,

The rest of the church lighting consists of SON lights only, mounted at a height of approximately 3 metres and giving a warm yellow colour balance. Whilst this is sufficient for a worship setting it is unlikely to be ideal for use in a sports setting.

NB - as a comparison. 1 kW would correspond to:

- 10 100W standard lightbulbs
- 17 58W High Frequency fluorescents
- 66 15W energy saving lightbulbs