



## Churchfields Car Park LED Case Study

# Council enjoys 71% energy reduction due to LED Lighting

### Background

Churchfields Multistorey Car Park is owned by Bromsgrove District Council. It is situated in Bromsgrove. The car park was built in 2003 and occupies approximately 30500 sq ft per floor. As part of a refurbishment project to improve the appearance and security of the car-park, the council identified that the current lighting was inadequate. Rather than replacing like for like, they saw this as an opportunity to also improve electricity costs and reduce maintenance requirements by installing high efficiency LED replacements. Previously the car park was being lit by 243 No 5ft twin T8 58W vapour proof luminaires. The consumption from the lighting circuit was 142,000 kWh per annum. The car park is in operation approx 13 hours a day 7 days a week so access would be outside of operational hours.

### Project

Bromsgrove & Redditch Council held a tender to select a partner to work with on the project and iVolt were successful in winning the bid. iVolt worked with one of their approved contractors Wessex Group to specify & implement the project over a 2 week period, working evenings only. iVolt specified their parent company Sollatek's IP65 rated 5ft batten in 32W output for the main car park areas and a 600x600 lay-in 28W panel for the offices. The project was completed on time in January 2017. The new lighting load was reduced to approx 9kW instead of over 30kW previously.

### Outcome

As well as the noticeable difference in light output the Council has been able to significantly improve welfare & safety for the car park customers and staff. As a result of the refurbishment, the car-park has achieved a Park-Mark award. This is given to car parking facilities by the British Parking Association for demonstrating that they are concerned with safety and have taken steps to ensure that they're secured and safe from crime. An impressive 71% reduction in energy was delivered corresponding to a 101,000 Kwh per annum saving or 54.7 tonnes of Carbon. In addition the car park lighting will be maintenance free for 5 years due to Sollatek's comprehensive 5 year warranty.



**Bromsgrove**  
District Council  
[www.bromsgrove.gov.uk](http://www.bromsgrove.gov.uk)

### PRODUCTS

IP65 rated 5ft batten in 32W output  
600x600 lay-in 28W panel

### HISTORY

January 2017

### HOW'S IT GOING

With higher than expected savings the council are set to save 55 metric tonnes of CO<sub>2</sub> and over 101,000 Kwh.



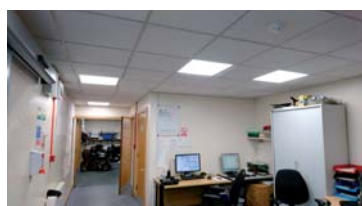
IP65 rated 5ft batten  
in 32W output

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“We have received compliments from car-park users as to how much better and brighter the car-park looks. The quality and robustness of the fittings seem good. We were also happy with the installation process, which took place overnight in order not to disrupt the operation of the car-park: workmen were tidy, communicated at handover each day and completed the work quickly and efficiently.

**Matthew Mead, Senior Engineering Technician**



For more information visit: [www.sollatek.com](http://www.sollatek.com)

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