

Case Study: Town Centre Car Park



Chalmor

Experts in Energy Saving Lighting and Heating

The Challenge: Extensively improved lighting solution, energy savings and safety for main town centre car park

A long stay car park in a busy town centre was in need of new lighting and an innovative solution to reduce energy and maintenance costs. Chalmor were invited to tender prior to assessing the 328 parking space multi-storey car park and implementing new LED lighting and energy saving controls.

The Chalmor Approach

Chalmor undertook a detailed survey and assessment of the busy town centre car park, in order to provide a detailed, tailored solution.

The survey revealed:

- The entire multi-storey building, open 7 days a week until midnight, was fully lit during operational hours
- The incumbent lighting was inefficient and expensive to run, with costly maintenance for the 806 individual light fittings
- Safety levels of shoppers, users and staff were low due to poorly lit sections of the car park



Holistic approach and best use of technology deliver safe, well lit car parking facilities





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The Solution

Chalmor won the tender, thanks to their tailored engineered solution which used the latest and best technology available, namely high output LED tubes.

- ✓ 806 light fittings were replaced on a point for point basis throughout the car park.
- ✓ High output LED tubes which significantly increased light levels, whilst reducing the lighting load from 107kW to 33kW, were installed.
- ✓ The high output LED tubes produced 107 lumens / watt and are rated at 40,000 hours operational life.
- ✓ Autolux lighting controller was installed. This allows for light level control on the open top floor of the car park and perimeter lights, alongside programmed time control for lighting throughout the car park. As well as maximising energy savings, this ensures the life of the LEDs are extended even further.



The Results



£50,000 a year projected cost savings



6 years of service from high output LEDs, based on current running hours



Vast reduction in maintenance time and costs, due to hinged lids with clips for easy maintenance



Improved environment, with optimal comfort and light levels



"We were delighted with Chalmor's lighting solution for one of our busy town centre car parks, which has seen a cost saving in the region of 35% and importantly increased safety for the car parks users"

Nigel Hooper,
Corporate Property Maintenance Manager, Northampton Borough Council.

