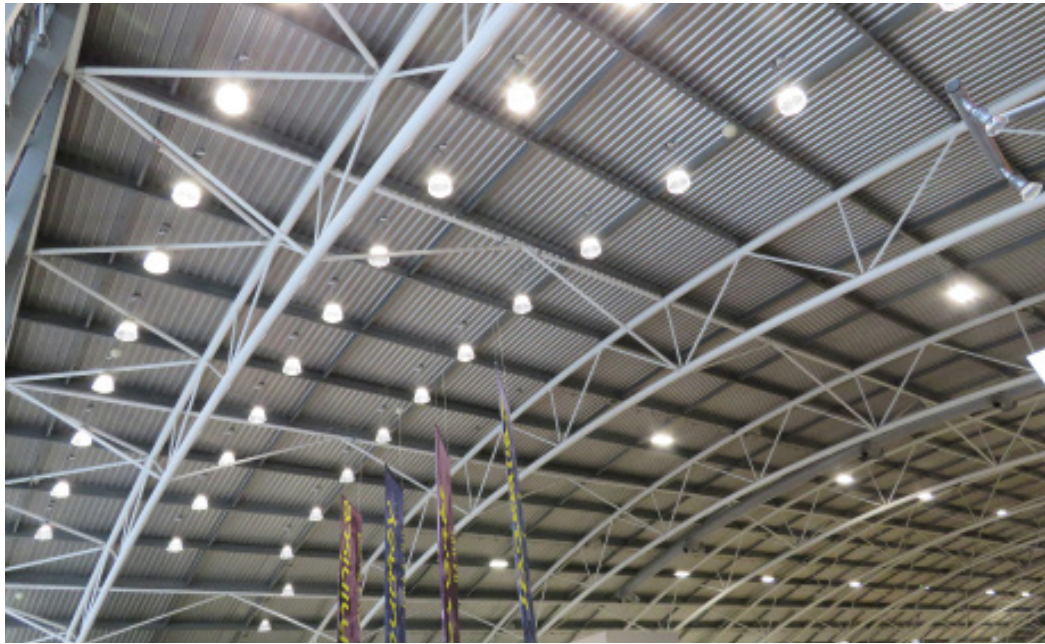


Milestones Museum – Re-lighting, energy and enhancement works

Property Services



Milestones Museum of Living History contains life size streets, buildings, shops and vehicles within a large hangar building. Hampshire County Council (HCC) were commissioned for a lighting re-evaluation and upgrade as the quality of light within the building was compromised by its scale, resulting in a high level of energy consumption to light the exhibits, and the space posed an obstacle for maintenance and access.

HCC also reviewed replacing the existing lighting as part of the council's carbon reduction strategy, aiming to improve the energy efficiency in council owned buildings.

The design brief was to provide a new standalone lighting control system, fit for purpose for the flexible environment. The design intent was to: reduce energy costs; improve lighting maintenance; improve the physical environment and experience for staff, building users and visitors; and make the space more flexible to increase the opportunities for its use, such as for special events and functions.

The old luminaires were stripped out and recycled and LED replacements selected as they offered the best performance and significant benefits in terms of control flexibility, energy reduction and long term maintenance cost savings. Changing the luminaires has resulted in a saving in energy costs of £11,027 per annum, and a saving in staff time to maintain and replace the old lights.

The scheme fulfilled the museum's brief by improving lighting levels and allowing lights to be programmed and controlled individually via a touch panel on mobile devices. The lighting can be adjusted to enhance the visitor experience, whilst minimising carbon emissions.

Key Benefits:

- With the LED lifecycle longer than the previous lamp based luminaires and the innovative design, the issue of restricted access to high level, in particular over existing fixed position exhibits, where maintenance has to be undertaken out of hours, was addressed
- The lighting controls allow the quality of light to be managed in a user friendly way using a touch screen and wi-fi technology
- The lighting is flexible and can be tailored to suit different requirements, such as one off events and to provide different scene setting scenarios
- The LED technology offers significant benefits in terms of control flexibility, energy reduction and long term maintenance savings
- Carbon and financial savings
- The system can be monitored via MEDIC software, to review energy use and also technical queries

Location: Milestones Museum,
Basingstoke Leisure Park,
Basingstoke, Hampshire.

Client: Hampshire Cultural Trust

Project Team: Hampshire County
Council (HCC), and Salix Finance Ltd.

Project Manager: Hampshire
County Council Property Services

Size of site: 6,004m² hangar
building/height 16m

Budget: £200k

Completed: November 2016

Senior Design Engineer: Mandeep
Athwal, HCC Property Services
Hampshire County Council

Proposals developed in consultation
with Salix Finance Ltd, HCC
Museum Service

“ The lighting at Milestones has improved so much since we have had the LED's put in and it's amazing after all these years to able to turn the lights on/off, dim them etc. and they do what they should do.

”
Emma Barrett, Assistant Manager,
Milestones Museum and Basing
House, Basingstoke

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