

# Calshot Activities Centre, Sunderland Hanger Lighting Improvements



**Location:** Sunderland Hanger, Calshot Activities Centre, Calshot, Southampton

**Client:** Calshot, Hampshire Outdoor Centres

**Project Team:** Hampshire County Council (HCC), EMCOR

**Project Manager:** Steve Allinson, HCC Property Services

**Building size:** 180,000m<sup>2</sup>, height 15m

**Budget:** £70,000

**Completed:** May 2018

**Senior Design Engineer:** Steve Allinson, HCC Property Services

Calshot Activities Centre is one of the largest outdoor activity centres in Britain, providing a range of water and land-based activities. The Sunderland Hanger on the site comprises the velodrome, dry ski slope and rock-climbing walls as well as a café and ancillary areas.

Much of the artificial lighting in the velodrome, dry ski slope and rock-climbing area was originally installed 30 years ago and needed replacement. HCC Property Services proposed to review the replacement of the existing lighting in these areas with the obvious benefit of improving the lighting levels and energy efficiency.

The design brief was to provide replacement Light-Emitting Diode (LED) lighting to reduce energy costs and to improve lighting levels; ease of maintenance; the physical environment; and the experience for staff and visitors.

As a public building open for long hours each day there was limited opportunity to access the lights for maintenance, therefore consideration was given to the logistics of reaching the lights in a large hanger style building with specialist floor covering in the climbing area.

No additional lights were added during the replacement project, however the changes to LED fittings has enabled better illumination levels and achieved financial savings. It is anticipated that the upgraded lighting will provide an annual energy saving of 80,000 kWh and 31t of carbon, equating to a financial saving of approximately £10,000, with a return on investment after just over six and a half years.

This is the first part of a programme of relighting works across the whole Calshot site which it is anticipated will be completed by December 2018, depending on finances.

## Key Benefits:

- Following this work the new velodrome lighting achieves Sport England Class III - Community standard illumination
- Addressed the issue of restricted access to high level areas where maintenance must be undertaken out of hours, with the increased lifecycle of LED compared to previous lamp-based luminaires
- Significant carbon and financial savings

“ *The lighting meets all my expectations.* ”

**Damian Lester, Senior FM Officer,  
Calshot Activities Centre**



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