

LED Highbay Case Study

Existing Fittings

40 x 400w Metal Halide

Replacement Fittings

40 x HL150

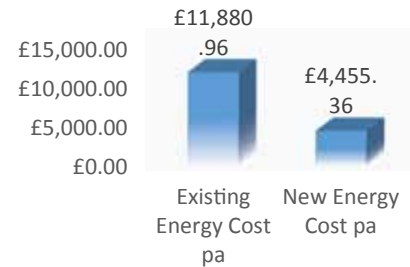
The Brief

The sportshall was undergoing a redevelopment and the lighting required attention as the old scheme was very expensive to run and the quality of the light levels was diminished. Due to the nature of some of the sports being played in the arena, they required a high LUX level. The Lighthouse technical team visited the site and carried out a lighting survey and proposed the LED 150w Highbay to suit the needs of the customer; reducing energy bills whilst creating bright and modern leisure facilities.



Key Figures	
Total Investment	£8,600.00
Savings per annum	£7,425.60
Existing Energy Cost pa	£11,880.96
New Energy Cost pa	£4,455.36
Carbon Reduction (kg/pa)	23762
Maintenance Savings	£6,667.00
Total Savings	£91,667.01
Payback time (months)	13.9

ENERGY COMPARISON



The Benefits

Immediately following the installation, results were visible. The light levels were brighter and consistent and all areas of the facilities were illuminated well. In addition to this, energy savings were apparent in the first bill and in excess of £7400 per annum in energy savings is expected to be made as well as maintenance costs reduced in the future due to the long lamp life on the LED Highbays.