









## CASE STUDY: CAMBRIDGE SQUASH CLUB

Cambridge Squash Club doubles court light levels and reduces annual running costs by 16%

	Before	After	Benefit
<b>Light Levels</b> <small>(average)</small>	 <b>350 lux</b>	 <b>700 lux</b>	<b>2x</b> 350 lux increase
<b>Energy Usage</b> <small>(per court per year)</small>	 <b>2,024 kWh</b>	 <b>1,708 kWh</b>	<b>16% Saving</b> 316 kWh reduction
<b>Running Costs</b> <small>(per court per year inc. maintenance)</small>	<b>£</b> <b>£233</b>	<b>£</b> <b>£188</b>	<b>16% Saving</b> £35 reduction
<b>Carbon Footprint</b> <small>(per four courts per year)</small>	 <b>1,087 kg</b>	 <b>917 kg</b>	<b>16% Saving</b> 170 kg reduction



**PULSAR LIGHT**

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 ISSUE DATE | MAY 2015

# CAMBRIDGE SQUASH CLUB

## Project Details

Squash and Racketball like many other sports rely on carefully designed lighting to deliver the high illuminance levels required for standard and competitive play. Crucial to both the designer and the fixture manufacturer is minimising glare and shadow while ensuring the court is as evenly lit as possible.

The no. 1 court at Cambridge Squash was previously fitted with 12 Fluorescent tubes totalling around 77W per tube. Continuous play every day from mid-afternoon until 9 o'clock meant the Club was consuming over 2,000kWh per court per year. With a total of four courts, this amounted to an annual electricity bill of £892 for lighting.

In addition to the high cost of running the lights of the Club, the courts were not reaching the minimum recommended illuminance levels as specified England Squash and Racketball. Requiring at least 500 lux for practice and club play, the courts at their peak illuminance were only at 350 lux - well below this minimum lighting level.

Pulsar Light were approached by the Cambridge Squash club about their Eco-Range solutions, particularly the Eco-Range Squash 130 - a fixture designed by Pulsar Light in collaboration with England Squash and Racketball.

After visiting the site and preparing extensive light calculations with the Eco-Range Squash 130, Pulsar Light created a scheme that reduced the running cost of each court and provided an increase of 2x the original light levels.

The final scheme included 6 x 130W Eco-Range Squash 130 fittings with prismatic fronts, which reduces the total consumption per court to 1,708kWh and the total club energy bill to just £752. Light level readings were taken and hit a peak of 900 lux and averaging 700 - perfect for daily practice and club matches.

## About Pulsar Light

Pulsar Light of Cambridge manufactures a wide range of colour controlled LED lighting for large-scale international Architectural Projects, Television Shows, Live Performances, Hotels, and many other applications. Pulsar's EcoRange provides high power, high efficiency white LED lighting backed Pulsar's commitment to quality, reliability, and durability.

Our factory and offices are located in Cambridge in England, where we have been manufacturing lighting for 40 years. If you would like to visit our showroom, please arrange a time with our sales team by calling our office number on +44 (0) 1223 403 500.

For every Squash Court fitted with the Eco-Range Squash 130, a £10 donation will be made to the Squash and Racketball Foundation. Find out more at: <http://www.thesrfoundation.org>



avg. lux: 350

photo: 1/20s, f/8, ISO 100

Before: Court no. 1 illuminated with 12 x 77W Fluorescent Tube Lights



avg. lux: 700

photo: 1/20s, f/8, ISO 100

After: Court no. 1 illuminated with 6 x 130 Eco-Range Squash 130 fixtures



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