

## Case Study

# Washington Riding Centre

**Customer:** Washington Riding Centre  
**Technology:** Intelligent LED Lighting  
**Finance:** Funded by Sport England and Empower  
**Outcomes:** Energy Savings and improved light quality  
**Savings:** 86.9%, an ROI of 2.5 years

## PROJECT OVERVIEW

Washington Riding Centre has opted to change their lighting to Intelligent LED Lighting to enhance the safety of the riding experience. The project was funded through Sports England and Empower.



## LED INSTALLATION

We conducted a free no obligation survey and presented them with potential savings they could achieve and a price for installation.

## OUR TASK

Whilst Washington Riding Centre was in full working operation, our installation team worked to install 15 Intelligent LED Lumi Optima 5218.

The recommended minimum lux level for indoor equestrian centres is 250. When we first surveyed the centre our consultant took a reading of 120 lux. We have since achieved a reading of 666 lux. We removed the 21 X 400-watt sodium lights, completed the installation and provided them with an Electrical safety certificate.





## RESULTS AND OUTCOME

As a result of the project Washington Riding Centre has been able to cut its lighting energy consumption in the main indoor arena by a staggering 86.9%. A saving of 28,639 kWh every year. In terms of reduced energy bills and maintenance costs, this means the centre is saving £3,961.68 per year. It equates to an annual saving of 12.76 tonnes of carbon dioxide. The light is now 5300 Kelvins, Day light. Each light has its own control and also measures the amount of natural light coming in to the building. This in turn saves money and prolongs the lamp life. The arena no longer looks yellow, the constant buzzing of the sodium's has stopped and Washington Riding Centre expects to achieve payback on the project in just 2.5 years.



**For more information please contact:**

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## CLIENT FEEDBACK

“We really appreciate the fact that you have installed everything, and it has been finished ahead of schedule, so thanks again for all your team have done.”

**Eileen Curley, Centre Manager.**

“The difference in lighting and the environment for the riders, both able bodied and disabled has been dramatic. The shadows and constant noise of the old lights have gone completely. It makes the whole experience so much better for everyone including the horses. Coaching is better and easier as we can now see and be heard. The feedback from the parents of our students has been very complementary.”

**Lorna Watson Instructor/ Assistant Yard Manger.**

“The old lights were very temperamental and took ages to come on, we never turned them off because it took them 20 minutes or more for them to come back on. The quality of light from our new intelligent LED’s is fantastic, as we leave the arena they are turning themselves off behind us. Everyone loves them”

**Helen Volunteer Coordinator RDA.**

