Case Study | Western Province Cricket Club

High Bay | Indoor Sports Lighting

Western Province Cricket Club in South Africa was founded in 1864. In August 2003 the club officially opened its Sports Centre in Rondebosch, situated approximately 1.2km from the Members Pavilion. The Clubhouse, in the middle of the 8 hectare park allows all members full usage of the facilities on offer which include an indoor Centre of Excellence, home to Cricket South Africa.

Background

Western Province Cricket Club is extremely proud of its facilities for cricket, however the Indoor Centre lighting needed to be upgraded. The existing lighting in this facility was a 400W metal halide lighting system which was over 12 years old and the lamps constantly needed replacing.

The existing lighting generally only lit the horizontal surfaces in the area. However in this application, the crucial areas to light are the vertical planes due to the necessity to clearly see the cricket ball in both bowling and batting scenarios.

The Chairman of Cricket at the Club, Gratton Rippon, employed Ceravision to redesign the lighting with the following brief in mind: improve the overall quality of the light which is critical for batting at semi-professional level. Also, electricity is one of the clubs biggest expenses and given the increases in electricity and running costs of the existing lighting, the Club is always seeking out ways to reduce energy consumption.

"The light quality is amazing and being able to run individual lanes is a winner!"

Bradley Seconds, Manager, WPCC

ionCORE™ Plasma Light

ionLUX™ High Output Light

Solution

Ceravision has independently developed a world leading Plasma lighting technology and by working with Plasmalux, its South Africa distributors, provided a solution for Western Province Cricket Club using Ceravision's ionLUX™ high bay luminaires.

ionLUX™ high efficiency Plasma lighting is a patented revolutionary technology that provides full spectrum light with excellent colour rendering along with industry leading energy and carbon savings. The ionLUX™ high bay luminaire is driven by ionCORE™. As it has a small light source that can be optimally focused, the ionLUX™ high bay luminaire is able to collect and efficiently use all of the light. This enables a reduction in the number of fixtures required and provides superior light uniformity.

Installation Results

The installation of the ionLUX™ high bay fittings generates an energy saving of more than 40%. The lux levels were significantly improved from 200 lux to 500 lux with the batting area reaching over 600 lux. Diffused glass was used in order to create a smooth and uniform light across the facility with no glare. The CRI of the ionLUX™ high bay luminaires provided a much improved quality of light.

"We do not need to power up the entire facility for kiddies having batting or bowling practice, whilst the U21's benefit from incredible quality of light."

Bradley Seconds, Manager, WPCC

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