

CASES
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AAA-LUX LED technology that superior that it can illuminate cricket ovals too Illumination quality that knocks you off your feet

Average LED's are unable to illuminate a cricket oval due to the dimensions of a cricket oval and the importance of quality illumination for the game. Not for AAA-LUX: by combining the most sophisticated technologies, AAA-LUX has managed to produce a luminaire that answers even to the illumination requirements dictated by the ICC.

Light plays an important role in cricket, thereby placing a major emphasise on the quality of the luminaire. Cricket ovals are huge, often resulting in light sources being positioned far away from the action. AAA-LUX partner Jasstech recently dealt with

distance of an average football field.

With a cricket ball being small in size but travelling at high speeds, batsmen need the best possible illumination in order to be able to react quickly. Well-trained bowlers throw a ball at speeds of up to 160 km per hour leaving a batsman with approximately 0.4 seconds to react. Good illumination is important to have this achieved. "AAA-LUX LED increases visibility through a combination of high colour rendering (CRI) and the fact the light is more tranquil for the human eye," says Erik Swennen, CEO and lighting scientist at AAA-LUX. "The key is in so-called continues lighting. Contrary to conventional luminaires, AAA-LUX LED luminaires don't flicker enabling athletes to better track objects moving at high speed."

"Well-trained bowlers throw a ball at speeds of up to 160 km per hour"

this when they installed AAA-LUX LED technology at Limestone Park cricket oval in Ipswich, Australia. Here light for a cricket game needs to travel over twice the

Cristal clear on TV

Illuminating a televised cricket game offers additional challenges. "The dimensions of a professional cricket venue can result in light having to travel over 300 meters," Swennen continues. "To create the required vertical light from the side of the cameras means the light needs to come from the same side and travel to the opposite site of the field while reflecting on a platter of ball. It also has to travel all the way back

"Illuminating a televised cricket game offers challenges: a small speeding ball and lighting from a up to 300 meter"

into the camera to get a recognizable image for the viewers at home." This extreme distance can only be covered by LED technology of the highest standard. "AAA-LUX distinguishes itself by combining lighting power with high quality optics," Swennen points out. The ability to deliver such quality is not a given.

"AAA-LUX technology is all studied, developed and assembled at our laboratories in Eindhoven, the Netherlands. As Eindhoven is home to some of the brightest minds in terms of LED and illumination technology, AAA-LUX often calls on their assistance to further improve and refine our LED illumination technology."

As research and technology at AAA-LUX is continuously driven by a quest for better quality, development of new technologies is a given. "But don't rule out the importance of the controls," Swennen continues. "Our smart lighting control system allows for the same LED luminaire to be used to also illuminate games in lower leagues. Games like these often require less intense illumination, allowing the venue owners to generate some serious energy savings."

With new cricket concepts gripping fans at rapid speed, Swennen has no doubt that AAA-LUX LED technology will soon become a household name in the international cricket scene.



Limestone Park

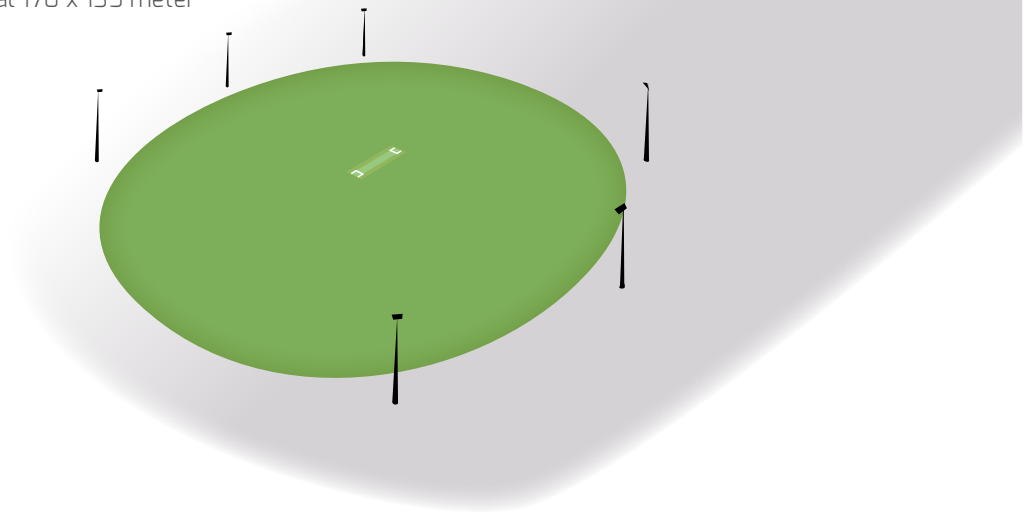
Limestone Park in Ipswich, Australia, is used regularly for sports events and has facilities suitable for football, cricket athletics and netball. The installation of AAA-LUX LED luminaires at the Bill Paterson Oval is part of the municipality's drive to 'green' and improve the local sports facilities.

Installation details

Light plan

Limestone Park AU

Cricket oval 170 x 135 meter



Led Luminaires used



28 x **WS-STAD WS 200**

Illumination quality:
300 lux Wicket,
200 lux Total Area (uniformity 0,5)

More information:
<http://www.aaa-lux-lighting.com/products/ws-serie-luminaires/>



LCMS

Hard wired

AAA-LUX project partner

Jasstech Solutions

