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## Athletics track around the globe benefit from AAA-LUX LED technology

# The oldest game uses the latest technology

It's the oldest sport in humankind, yet members of various athletics clubs around the globe are currently enjoying the latest LED illumination technology. They can practice as often as they like as the energy bill hardly makes a dent in the municipal finances.

Sports play an important role in any society but in Germany in particular as sports is seen as a way to create social cohesion. No matter how small or remote a German village will be, there is a good chance you'll find a fully equipped sports facility. These facilities are often available free-of-charge to children below 18 years old to stimulate their participation in

Local municipality can reduce their CO2 footprint with replacing conventional floodlights

sports. This does, however, come at a price for the local municipality as it is often them who have to pick up the tab.

Being a signatory to the Global Climate Change Framework, industrial countries like Germany are required to do whatever they can to reduce their CO2 footprint. This challenge has encouraged the city of Walldorf to replace all conventional floodlights of its sports facilities with modern LED technology. "We started off last year by installing AAA-LUX LED luminaires at the football fields of FC Astoria and, more recently, have also replaced the floodlights for the athletics stadium with AAA-LUX LED luminaires," says Bern Kempf of Kempf GmbH. "A total of 57 luminaires were installed to ensure that each athletics discipline, as well as the football field in the in-field, can be illuminated accordingly." The luminaires are controlled by a touchscreen and officials can select out of seven different illumination scenarios. "Two of those

scenarios are reserved for the football field and either illuminate according to training or match requirements.

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

The other five will either illuminate parts of the athletic track, depending on which athletics discipline is being performed.”

### Significant savings

The installation at the athletics stadium in Walldorf is expected to make another contribution to the municipal drive to reduce its energy consumption and, ultimately, its CO2 footprint. “The old situation had 6 masts with 24 luminaires in total, producing 150 Lux while consuming 50 kW. The new situation has 57 luminaires which, if they are used at full capacity, will produce 400 Lux while consuming only 40 kW,” Kempf

explains. The 400 Lux was a requirement as the local football club now plays a higher league. “Walldorf achieves additional savings as it no longer has to switch on all luminaires to illuminate practice sessions of a particular athletics discipline. They can now opt for only illuminating a part of the facility and still benefitting from sufficient, good quality, illumination.” Kempf estimates that the total savings have come close to 25% of what the venue used to consume. As Germans are known for their penchant for quality, their choice of AAA-LUX LED luminaires is not a coincidence. “AAA-LUX LED luminaires have been used in many installations around the globe, including many athletics facilities. The installation at Palmer Park in the United Kingdom was used as an example for this installation. The city of Walldorf was adamant to receive good quality illumination technology with a proven track-record in order to reduce the total energy consumption of their sports facilities.” Achieving their energy saving goals will soon become reality for Walldorf municipality while it will only be a matter of time before track-records will be set at the local athletics facility.

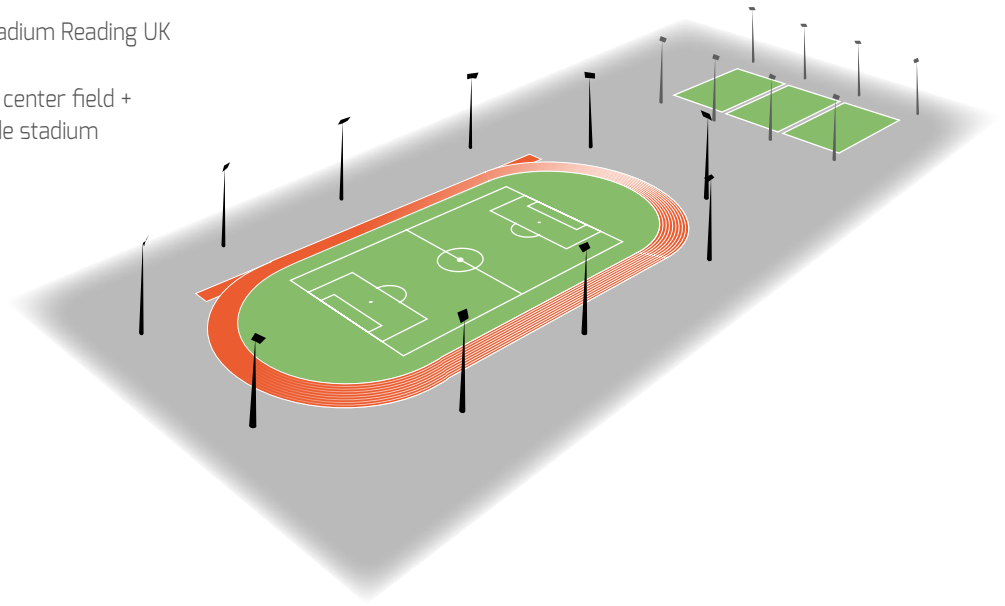


## Installation details

### Lightplan

Palmer Park Stadium Reading UK

Athletics Track, center field +  
3 pitches outside stadium



### Led Luminaires used



**60 x WS 250 WS 200** (stadium)  
**12 x WS 400** (pitches)

Illumination quality:  
Horizontal 350 lux, 0.6 - 0.8

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



### LCMS



**Touchscreen**

AAA-LUX  
project partner

**Abacus**  
Leaders in Lighting