

CASES  
022

## AAA-LUX LED technology allows for fewer luminaires while maintaining the quality Maximum light achieved by the absolute minimum

New technologies and philosophies are coming to light every single day. AAA-LUX always considers those that revolve around LED technology. This open-minded approach has enabled AAA-LUX to introduce better LED luminaires that provide superior quality illumination. As a result fewer AAA-LUX LED luminaires are required to achieve similar or better illumination than convention luminaires would achieve.

The debate about LED floodlights has, for a long time, revolved around their ability to generate significant energy savings. This debate was taken to another level when AAA-LUX introduced

“The improvement of our LED luminaires allows AAA-LUX, for instance, to illuminate a double tennis court by using only 4 luminaires”

its LED alternative for the 2.2 kW conventional luminaires. It was the first time that an LED became a viable alternative to conventional luminaires to illuminate large areas. AAA-LUX has now taken this debate to another level by developing LED luminaires

which produce illumination that is that intense and uniform that it outdoes what is being produced by the conventional luminaire. As a result AAA-LUX enables installers to install fewer LED luminaires to match, or even outdo, the illumination that was provided by the conventional luminaire. “The improvement of our LED luminaires allows AAA-LUX, for instance, to illuminate a double tennis court by using only 4 luminaires,” Michel van Dooren points out. “A recent installation at TV Skinlo in the Netherlands proved that 440 lux can be achieved with a uniformity of 0,78. In order to produce the 300 lux that is required according to the norm, the AAA-LUX LED luminaires at TV Skinlo have been dimmed to only 1,000 Watt,” he adds.

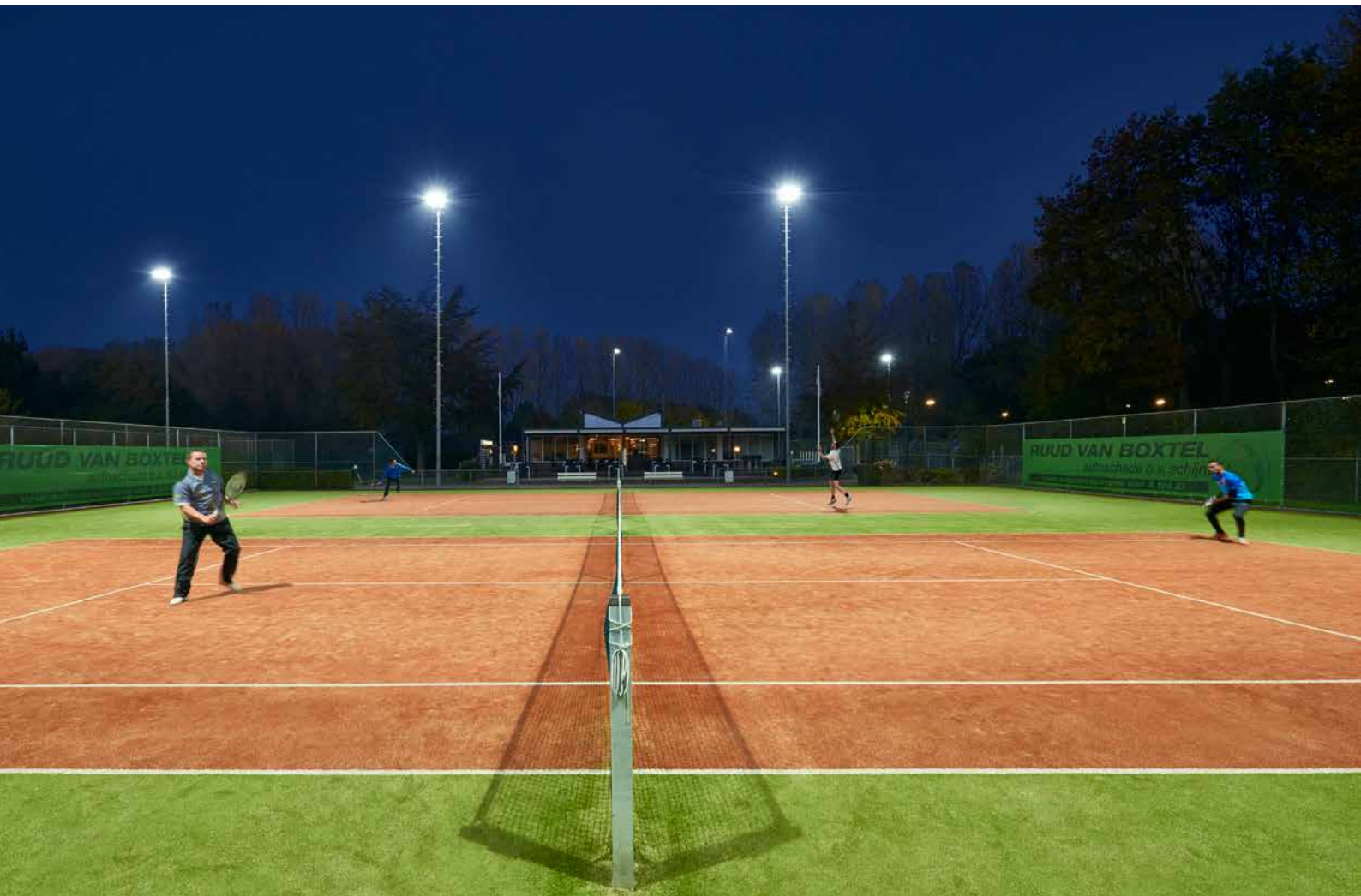
### No additional cost

The advantage of this achievement lies in the fact that no additional investments will be required when replacing conventional luminaires with AAA-LUX LED technology. "The size and weight of AAA-LUX LED luminaires has always been kept close to that of the conventional luminaires, enabling a swift one-on-one replacement. Thanks to the new improvements, we even have to install less LED luminaires to deliver the

"... we can even meet the highest standard, Class I, with these luminaires"

illumination required. The major advantage is that when clubs or companies opt to replace their illumination by AAA-LUX LED technology, they will not have to invest in additional infrastructure."

TV Skinlo benefitted from those advantages. "The six double tennis courts are now illuminated by 24 AAA-LUX LED luminaires of the AAA-LUX WS-100 series. The requested the illumination quality to meet the Class II illumination standard set by the Dutch Tennis Association. Reality is that we can even meet the highest standard, Class I, with these luminaires." TV Skinlo's decision meant that they only had to replace the luminaires. "They have also achieved significant energy savings. The energy consumption per cage, consisting of two courts, is more than 50% less compared to what the convention luminaires consumed. These luminaires typically consumed 8,8 kWh while the AAA-LUX LED luminaires have been audited consuming only 4,0 kWh," Van Dooren concludes.

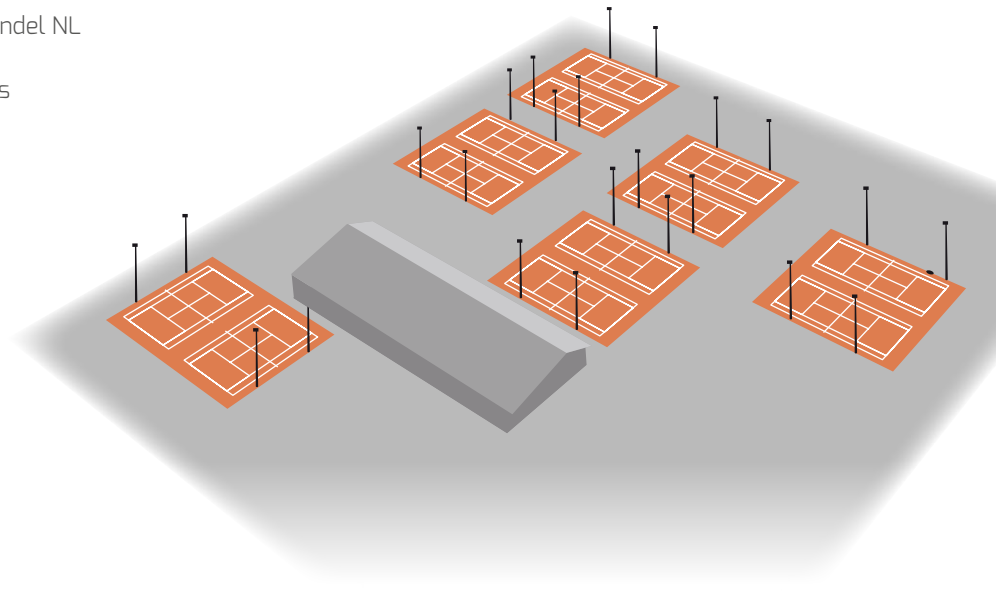


## Installation details

### Light plan

Skinlo Schijndel NL

Tennis courts



### Led Luminaires used



26 x **WS 250 WS 200**

Illumination level:

Max 100% = 500 lux (Class I)

90% = 450 lux, maintenance factor dimmed down

60% = 300 lux (Class II) training level

More information:

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



### LCMS



**Switchbox**



**Touchscreen**

More information:

<http://www.aaa-lux-lighting.com/products/lcms/>



### AAA-LUX project partner

Strago Electro

