



WS1xxP-series^{Gen8P}

TYPE NUMBERS INVOLVED: WS110P- WS160P- WS130P- WS182P- WS183P

NOT VALID FOR : WS120 – WS170 4-MODULES. SEE SEPARATE DATASHEET

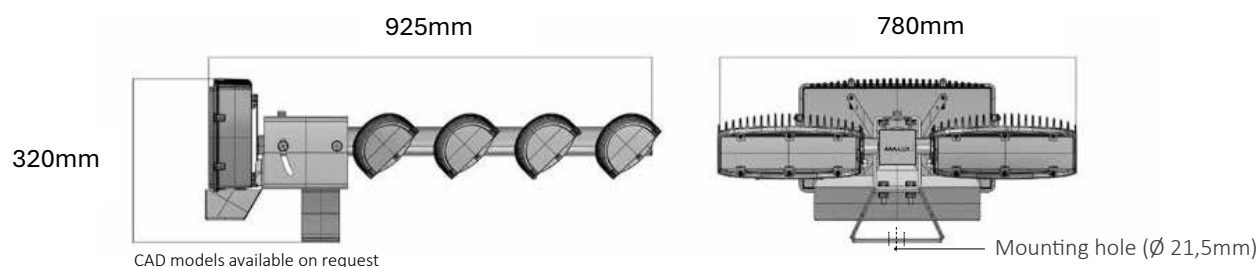
Increased light performance – low weight – excellent light spill control

- The WS-family AAA-LUX LED luminaires are suitable to illuminate sports fields according various norms for sports field lighting : e.g. EN12193 and others. Specifically developed for tennis solutions but can apply for sports solutions (hockey, soccer, ...)
- High output and high efficacy gives the lowest power consumption and lower number of luminaire needed for project realisation
- Thanks to the weight and wind surface parameters of our luminaires, re-use of the existing infrastructure, avoiding costly investments in new masts and cabling

Feature	Benefit
High luminous flux per luminaire	Less luminaires needed per field gives a lower project price
Increased efficiency > 132 lm/W	Lower power consumption > shorter ROI for sport facilities/end-customers Meeting all tender specifications and/or grant specifications
Excellent light spill control	Retrofit possible even when houses are nearby New projects can be planned close to residential buildings while residents are not disturbed by high intensity lighting during evenings and meeting spill light requirements Protecting of flora and fauna nearby projects

Mechanical data

Image for reference only



Specifications WS1xxP-series^{Gen8P}

All models			
	Min	Typ	Max
	Correlated colour temperature (K)	4000/5000 ¹	
	CRI: Colour rendering index ²	70/80	75/85
	Expected lifetime LED	60 000	
	LM-80, TM-21 (hours) ³		
	Luminous efficacy luminaire (lm/W)	132	140
	Weight (kg) ⁴	24	
	Frontal surface (C _w =1) @tilt 0° (m²)	0.13 ⁵	
	Max ambient temperature (non-operating, °C)	-40	60
	Ingress protection	IP66 ⁶	
	Impact resistance	IK08	
	Product colour	RAL7015 / Pantone 446 C / Uncoated	

Standard (ST)			
	Min	Typ	Max
	Power consumption @100% (W) ⁴	1625	
	Normal level @80-90% (W)	1300	
	Training level @60% (W)	975	
	Current (A)	3.9 @415 VAC ⁸ / 4.1 @400VAC	4.9 @360 VAC
	Ambient operating temperature (°C) ⁷	-20	30
	Luminous LED flux (lm) WS110P/WS160P	312 000 / 281 000	40 ^{7/9}
	Luminous LED flux (lm) WS130P	297 000 / 267 000	
	Luminous LED flux (lm) WS182P/WS183P	289 000 / 260 000	

High temperature (HT)			
	Min	Typ	Max
	Power consumption @100% (W) ⁴	1425	
	Normal level @80-90% (W)	1150	
	Training level @60% (W)	850	
	Current (A)	3.5 @415VAC ⁸ / 3.6 @400VAC	4.4 @360VAC
	Ambient operating temperature (°C) ⁷	-20	40 ^{7/9}
	Luminous LED flux (lm) WS110P/WS160P	277 000 / 251 000	
	Luminous LED flux (lm) WS130P	264 000 / 237 000	
	Luminous LED flux (lm) WS182P/WS183P	257 000 / 231 000	

Maximum power (MP)			
	Min	Typ	Max
	Power consumption @100% (W) ⁴	1800	
	Normal level @80-90% (W)	1450	
	Training level @60% (W)	1100	
	Current (A)	4.4 @415VAC ⁸ / 4.6 @400VAC	5.4 @360VAC
	Ambient operating temperature (°C) ⁷	-20	25
	Luminous LED flux (lm) WS110P/WS160P	347 000 / 312 000	40 ^{7/9}
	Luminous LED flux (lm) WS130P	330 000 / 297 000	
	Luminous LED flux (lm) WS182P/WS183P	321 000 / 289 000	

Electrical specifications			
	Min	Typ	Max
	Voltage input (VAC)	360	400 / 415 ⁸
	Power factor @20%- 100%	0.9	0.97
	Inrush current above I _{max}	none	
	Surge protection (kV)	6	
Electrical insulation class		I	

¹3000K available on request²90 upon request³TP11 Maintenance⁴Including power supplier⁵TP26 Luminaire windage details⁶Dali, DMX/RDM and Modbus version IP65⁷Auto dimming may occur from typical ambient temperature⁸Australia/New Zealand⁹Lifetime is based on usage at typical ambient temperature

Compliance to standards

IEC 60598-1 :2014	Luminaires – Part 1 : General requirements and tests
IEC 60598-2-5 :2015	Luminaires – Part 2-5 : Particular requirements – Floodlights
IEC 62471 :2008	Photobiological safety of lamps and lamp systems
IEC 60529	Degrees of protection provided by enclosures (IP Code)
IEC 62031 :2008	LED modules for general lighting – Safety specifications
IEC 61347	Lamp controlgear
EN 55015 :2013+A1 :2015	(Generic emissions)
EC 61000-3-2 :2014	(Generic emissions)
EN 61000-3-3 :2013	(Harmonics)
EN 61547 :2009	General lighting purposes – EMC immunity requirements

DIN 50021 NSS
DIN 50018 SWF 2.0
NFT 30.055 2 liter 502

