POLARIS LIGHT

PS-PADEL

LED padel court floodlight

7-YEAR WARRANTY



Mounting bracket

Optic face

OVERVIEW

PS-PADEL is an LED floodlight for outdoor and indoor padel courts. A 100 x 60 degree asymmetric optic is designed for padel and can be mounted horizontally at 0 degrees. The datasheet states ULR 0% and no back light.

- 150 or 250 W, 28,500 or 47,500 lm, 190 lm/W
- 100 x 60 degree asymmetric optic, ULR 0%
- IP66 and IK10, ADC12 aluminium housing, RAL 7016
- Sosen driver, 100 to 277 V, 6 kV surge
- Typical design: four fittings per court

190 lm/W
Efficacy

IP66
Ingress

IK10
Ball impact

7 Years
Warranty

APPLICATION

Made for padel courts

A typical design uses four fittings per court, mounted at 6 m and aimed horizontally at 0 degrees. Datasheet class targets are 4 x 150 W for 300 lx and 0.6 uniformity, and 4 x 250 W for 500 lx and 0.7 uniformity.

Padel optic

100 x 60 degree asymmetric optic, ULR 0% and no back light. The datasheet describes the optic as low UGR but does not publish a UGR number.

190 lm/W

28,500 lm at 150 W and 47,500 lm at 250 W, published at CRI greater than 70.

IK10 and IP66

ADC12 aluminium housing, colour RAL 7016, with a PC optic, rated IP66 and IK10.

Four fittings

Typical court layout uses four fittings. Calculated design values from the datasheet are listed on page 2 and are not Polaris field measurements.

Sosen driver

Supplied with a Sosen driver. Optional dimming: 1-10V, PWM or Triac, and DALI-2.

7-year warranty

7-year warranty on the fitting. PS-PADEL-LINEAR also has a 7-year warranty. Every other Polaris product has a warranty of at least 5 years.

PS-PADEL Technical data

LED padel court floodlight, 150 and 250 W

SPECIFICATION

Input voltage	100 to 277 V AC, 50/60 Hz
Power	150 / 250 W
Luminous flux	28,500 / 47,500 lm
Efficacy	190 lm/W (published at CRI >70)
CRI / MacAdam	CRI >70 / MacAdam ≤5
Colour temperature	3000K, 4000K, 5000K, 5700K or 6500K
Optic	100 x 60 degree asymmetric, ULR 0%, no back light
IP / IK	IP66 / IK10
Electrical class	Class I
Power factor	>0.95
Surge	6 kV DM and CM
THD	<8% (220 V AC / 50 Hz, full load, 25°C)
Lifetime	L70B10 >102,000 h (TM-21 based on LM-80)
Ambient temperature	-40°C to +45°C
Driver	Sosen
Controls	1-10V, PWM, Triac dimming (optional); DALI-2 (optional)



Optic face



Mounting bracket



Close view of the optic

MODELS

Product	Power	Lumens	Efficacy	Dimensions L × W × H	Net / gross	Carton
PS-PADEL-150	150 W	28,500 lm	190 lm/W	533 × 184 × 100 mm	3.15 / 3.86 kg	595 × 250 × 165 mm
PS-PADEL-250	250 W	47,500 lm	190 lm/W	711 × 184 × 100 mm	3.70 / 4.45 kg	775 × 250 × 165 mm

Lumens are 150 W × 190 lm/W = 28,500 lm and 250 W × 190 lm/W = 47,500 lm. There is no 200 W model in the product data. Designed to IEC 60598-1, IEC 60598-2-1, EN IEC 55015, EN IEC 61000-3-2, EN IEC 61000-3-3, EN 61547, EN IEC 62031, EN 62493 and IEC TR 62778.

CALCULATED DESIGN VALUES FROM THE DATASHEET

Four fittings at 6 m, aimed at 0 degrees horizontally. These are the datasheet's calculated results, not Polaris field measurements. GR Max 27 is a glare rating from that calculation, not a published UGR number.

- Class II (target 300 lx / 0.6): 4 × 150 W, Eav 323 lx, Emin/Eav 0.76, Emin/Emax 0.58, ULR 0%, GR Max 27
- Class I (target 500 lx / 0.7): 4 × 250 W, Eav 524 lx, Emin/Eav 0.74, Emin/Emax 0.57, ULR 0%, GR Max 27

OPTIONS AND USE

- Optional 1-10V, PWM or Triac dimming, and DALI-2
- Housing: ADC12 aluminium, RAL 7016, PC optic. Cable 3 × 1.0 mm², 0.8 m
- Mounting bracket and pole mounting bracket
- Outdoor padel courts and indoor halls
- Typical design: four fittings per court

7 YEARS
WARRANTY

PS-PADEL carries a 7-year warranty on the fitting. PS-PADEL-LINEAR also has a 7-year warranty. Every other Polaris Light fitting carries a warranty of at least 5 years. Ask us for a free lighting design and lux plan for your courts.