

PURSOS® SHP V3.1 Flood Light-General Datasheet



IP66 IK10

The PURSOS® SHP V3.1 General Edition is the latest and most advanced version of PURSOS with optimized structure, optics, and electrical systems, making it the ultimate high performance, cost-effective solution for area lighting needs such as Sports lighting, Stadiums, Street Lighting, Multi-purpose area (MUGA), harbor, and aprons. This high-performance lighting system boasts a well-designed, forged pure aluminum heat sink for superior heat dissipation and efficiency.

The latest version features a more compact size and lighter weight, with an integrated electrical gear box and a sleek appearance. It also offers an ultra-high light efficiency, with a choice of five light distributions, and precise optical design to meet various lighting applications.

The PURSOS® SHP V3.1 General Edition is a superior alternative to traditional 400W, 600W, and 1000W Metal Halide and Halogen flood lights, providing a more efficient and cost-effective lighting solution.

Benefits

Compact size, high cost performance

- Small size, light weight
- Available in CRI 70, CRI 80, CRI 90
- Nearly flicker free
- Optional visors available for glare control
- A choice of five light distributions, and precise optical design

High reliability

- Lumen maintenance L70-80000 hours @Ta30°C
- Robust aluminum body with high carbon steel mounting bracket
- High protection level IP66 & IK10
- Independent surge protector
- Operating temperature: -40°C to +50°C

Applications

- Sport entertainment venues (Sport park, school stadium)
- Training field (Basketball, Football, Hockey, Tennis)
- Street lighting (High mast lighting, cross lighting)
- Apron lighting
- Harbor lighting
- Multi-purpose area (MUGA)

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Technical Data

Optical Specifications

		1 Module			2 Modules		
Power		400W	500W	600W	800W	1000W	1200W
Luminous Flux* @5700K (+/-5%)	CRI 70	60000 lm	75000 lm	90000 lm	120000 lm	150000 lm	180000 lm
	CRI 80	52000 lm	65000 lm	78000 lm	104000 lm	130000 lm	156000 lm
Efficacy @5700K	CRI 70	Up to 150 lm/W					
	CRI 80	Up to 135 lm/W					
CCT		5700K, other on request					
CRI		CRI 70, CRI 80					
SDCM		5 SDCM					
Beam Angle		UNB (9°), NB (15°), MB (30°), UWB (60°), ASY (132° x 16°), other on request					

*. The luminous flux is the average value, different models have a slight difference, please refer to the photometrics data.

Electrical and Mechanical Specifications

Input Voltage	220-240V~ 50/60Hz					
Power Consumption (+/-10%)	400W	500W	600W	800W	1000W	1200W
Power Factor	>0.95					
Total Harmonic Distortion	≤8%					
FF factor	≤3%					
Surge protection	Independent surge protection device, Line-to-line 10KV, line-to-ground 10KV					
Dimensions	473*301*307mm			478*562*347mm		
Weight	13Kg	13Kg	13.5Kg	23Kg	24.5Kg	25.2Kg
Optical	PC, Polycarbonate					
Housing	Forged 1070 aluminum with high carbon steel mounting bracket					
Color	RAL 9005					

System Specifications

Main input	220-240V AC 50/60Hz
Dimmable	On/Off, DALI and 0-10V dimming on request
Mounting Type	Bracket installation, suitable for installation on the ground, wall, high mast and other solid plane
Operating Temperature	-40°C to +50°C
Storage Temperature	-40°C to +80°C
Environment	IP66 / IK10, suitable for outdoor and indoor applications, Coastal Environment (ASTM B117-16) is on request
Lumen Maintenance	L70-80000 hours @30°C
Warranty	7 Years
Safety Approval	Electrical Protection Class I, CB, ENEC, CE, UKCA

Due to the special conditions of manufacturing process of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from typical data.

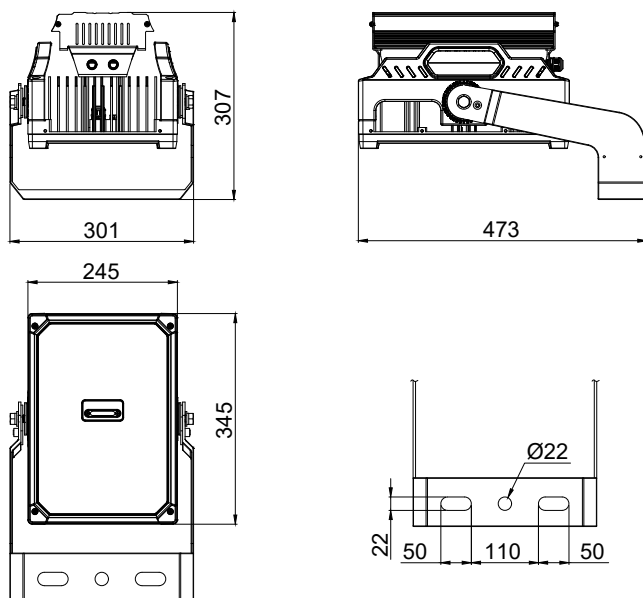
Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

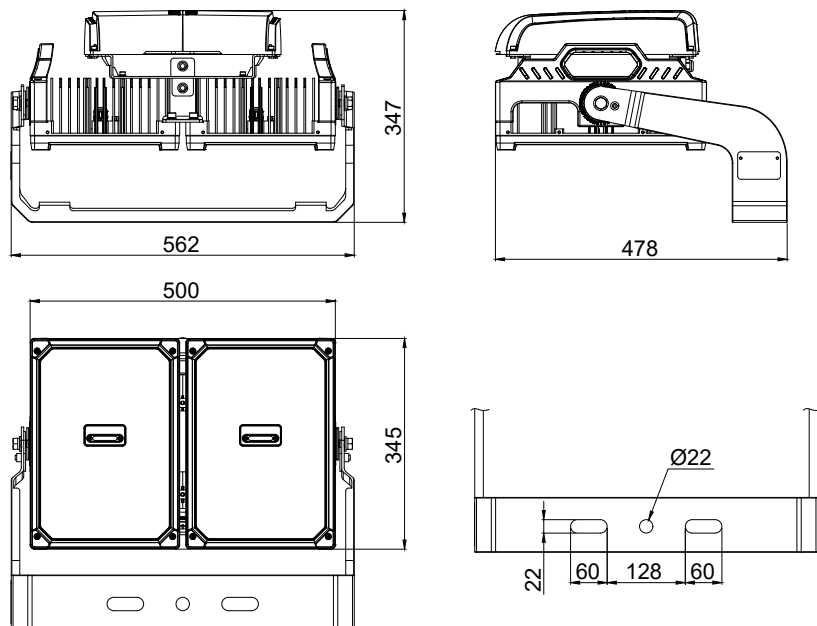
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Dimension (Unit: mm)

Dimension for 400W / 500W / 600W



Dimension for 800W / 1000W / 1200W

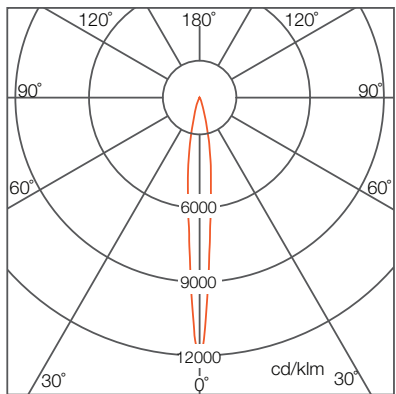


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Photometrics

Illuminance at Distance

UNB (9°)

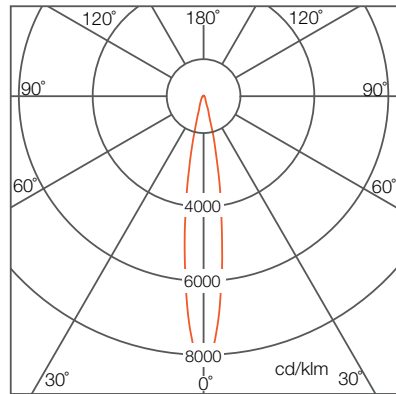


	Center Beam Lux/klm	Beam Width
2.0m	3069	0.32m
4.0m	767	0.64m
6.0m	341	0.97m
8.0m	192	1.29m
10.0m	123	1.61m

For feet multiply by 3.28

● Horiz. Spread: 9.2°
For fc divide by 10.7

NB (15°)

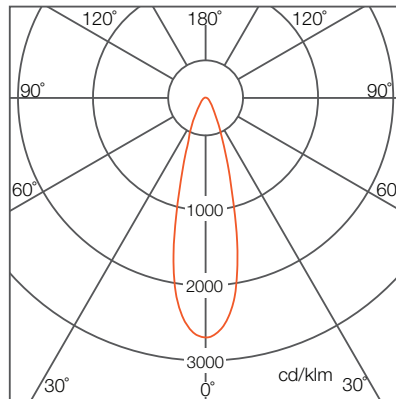


	Center Beam Lux/klm	Beam Width
2.0m	2138	0.56m
4.0m	534	1.11m
6.0m	238	1.67m
8.0m	134	2.22m
10.0m	86	2.78m

For feet multiply by 3.28

● Horiz. Spread: 15.8°
For fc divide by 10.7

MB (30°)



	Center Beam Lux/klm	Beam Width
2.0m	696	1.00m
4.0m	174	2.01m
6.0m	77	3.01m
8.0m	44	4.02m
10.0m	28	5.02m

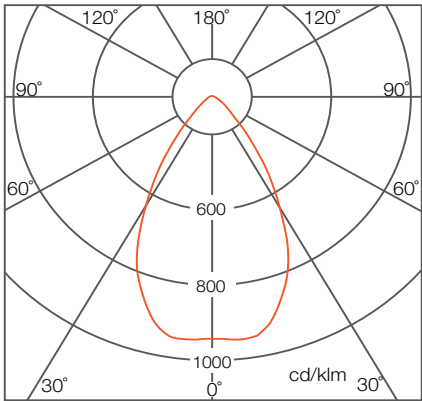
For feet multiply by 3.28

● Horiz. Spread: 28.2°
For fc divide by 10.7

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Photometrics

UWB (60°)



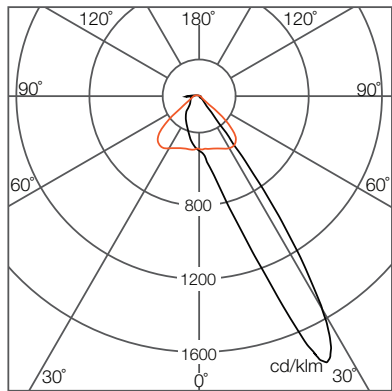
Illuminance at Distance

	Center Beam Lux/klm	Beam Width
2.0m	232	2.36m
4.0m	58	4.71m
6.0m	26	7.07m
8.0m	14	9.42m
10.0m	9	11.78m

For feet multiply by 3.28

● Horiz.Spread: 61.0°
For fc divide by 10.7

ASY (132° x 16°)



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Ordering Codes

Fixture

Short Text	Power (W)	Control	CCT	CRI	Material
PSS SHP V3 G 400W 757 UNB VS1 OSRAM	400	On-Off	5700K	70	GL23100019955
PSS SHP V3 G 400W 757 NB VS1 OSRAM	400	On-Off	5700K	70	GL23100020055
PSS SHP V3 G 400W 757 MB VS1 OSRAM	400	On-Off	5700K	70	GL23100020155
PSS SHP V3 G 400W 757 UWB VS1 OSRAM	400	On-Off	5700K	70	GL23100020255
PSS SHP V3 G 400W 757 ASY VS1 OSRAM	400	On-Off	5700K	70	GL23100020355
PSS SHP V3 G 400W 857 UNB VS1 OSRAM	400	On-Off	5700K	80	GL23100020455
PSS SHP V3 G 400W 857 NB VS1 OSRAM	400	On-Off	5700K	80	GL23100020555
PSS SHP V3 G 400W 857 MB VS1 OSRAM	400	On-Off	5700K	80	GL23100020655
PSS SHP V3 G 400W 857 UWB VS1 OSRAM	400	On-Off	5700K	80	GL23100020755
PSS SHP V3 G 400W 857 ASY VS1 OSRAM	400	On-Off	5700K	80	GL23100020855
PSS SHP V3 G 500W 757 UNB VS1 OSRAM	500	On-Off	5700K	70	GL23100020955
PSS SHP V3 G 500W 757 NB VS1 OSRAM	500	On-Off	5700K	70	GL23100021055
PSS SHP V3 G 500W 757 MB VS1 OSRAM	500	On-Off	5700K	70	GL23100021155
PSS SHP V3 G 500W 757 UWB VS1 OSRAM	500	On-Off	5700K	70	GL23100021255
PSS SHP V3 G 500W 757 ASY VS1 OSRAM	500	On-Off	5700K	70	GL23100021355
PSS SHP V3 G 500W 857 UNB VS1 OSRAM	500	On-Off	5700K	80	GL23100021455
PSS SHP V3 G 500W 857 NB VS1 OSRAM	500	On-Off	5700K	80	GL23100021555
PSS SHP V3 G 500W 857 MB VS1 OSRAM	500	On-Off	5700K	80	GL23100021655
PSS SHP V3 G 500W 857 UWB VS1 OSRAM	500	On-Off	5700K	80	GL23100021755
PSS SHP V3 G 500W 857 ASY VS1 OSRAM	500	On-Off	5700K	80	GL23100021855
PSS SHP V3 G 600W 757 UNB VS1 OSRAM	600	On-Off	5700K	70	GL23100021955
PSS SHP V3 G 600W 757 NB VS1 OSRAM	600	On-Off	5700K	70	GL23100022055
PSS SHP V3 G 600W 757 MB VS1 OSRAM	600	On-Off	5700K	70	GL23100022155
PSS SHP V3 G 600W 757 UWB VS1 OSRAM	600	On-Off	5700K	70	GL23100022255
PSS SHP V3 G 600W 757 ASY VS1 OSRAM	600	On-Off	5700K	70	GL23100022355
PSS SHP V3 G 600W 857 UNB VS1 OSRAM	600	On-Off	5700K	80	GL23100022455
PSS SHP V3 G 600W 857 NB VS1 OSRAM	600	On-Off	5700K	80	GL23100022555
PSS SHP V3 G 600W 857 MB VS1 OSRAM	600	On-Off	5700K	80	GL23100022655
PSS SHP V3 G 600W 857 UWB VS1 OSRAM	600	On-Off	5700K	80	GL23100022755
PSS SHP V3 G 600W 857 ASY VS1 OSRAM	600	On-Off	5700K	80	GL23100022855
PSS SHP V3 G 800W 757 UNB VS1 OSRAM	800	On-Off	5700K	70	GL23100022955
PSS SHP V3 G 800W 757 NB VS1 OSRAM	800	On-Off	5700K	70	GL23100023055
PSS SHP V3 G 800W 757 MB VS1 OSRAM	800	On-Off	5700K	70	GL23100023155
PSS SHP V3 G 800W 757 UWB VS1 OSRAM	800	On-Off	5700K	70	GL23100023255
PSS SHP V3 G 800W 757 ASY VS1 OSRAM	800	On-Off	5700K	70	GL23100023355
PSS SHP V3 G 800W 857 UNB VS1 OSRAM	800	On-Off	5700K	80	GL23100023455
PSS SHP V3 G 800W 857 NB VS1 OSRAM	800	On-Off	5700K	80	GL23100023555
PSS SHP V3 G 800W 857 MB VS1 OSRAM	800	On-Off	5700K	80	GL23100023655
PSS SHP V3 G 800W 857 UWB VS1 OSRAM	800	On-Off	5700K	80	GL23100023755
PSS SHP V3 G 800W 857 ASY VS1 OSRAM	800	On-Off	5700K	80	GL23100023855
PSS SHP V3 G 1000W 757 UNB VS1 OSRAM	1000	On-Off	5700K	70	GL23100023955
PSS SHP V3 G 1000W 757 NB VS1 OSRAM	1000	On-Off	5700K	70	GL23100024055
PSS SHP V3 G 1000W 757 MB VS1 OSRAM	1000	On-Off	5700K	70	GL23100024155
PSS SHP V3 G 1000W 757 UWB VS1 OSRAM	1000	On-Off	5700K	70	GL23100024255
PSS SHP V3 G 1000W 757 ASY VS1 OSRAM	1000	On-Off	5700K	70	GL23100024355

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Ordering Codes

Fixture

Short Text	Power (W)	Control	CCT	CRI	Material
PSS SHP V3 G 1000W 857 UNB VS1 OSRAM	1000	On-Off	5700K	80	GL23100024455
PSS SHP V3 G 1000W 857 NB VS1 OSRAM	1000	On-Off	5700K	80	GL23100024555
PSS SHP V3 G 1000W 857 MB VS1 OSRAM	1000	On-Off	5700K	80	GL23100024655
PSS SHP V3 G 1000W 857 UWB VS1 OSRAM	1000	On-Off	5700K	80	GL23100024755
PSS SHP V3 G 1000W 857 ASY VS1 OSRAM	1000	On-Off	5700K	80	GL23100024855
PSS SHP V3 G 1200W 757 UNB VS1 OSRAM	1200	On-Off	5700K	70	GL23100024955
PSS SHP V3 G 1200W 757 NB VS1 OSRAM	1200	On-Off	5700K	70	GL23100025055
PSS SHP V3 G 1200W 757 MB VS1 OSRAM	1200	On-Off	5700K	70	GL23100025155
PSS SHP V3 G 1200W 757 UWB VS1 OSRAM	1200	On-Off	5700K	70	GL23100025255
PSS SHP V3 G 1200W 757 ASY VS1 OSRAM	1200	On-Off	5700K	70	GL23100025355
PSS SHP V3 G 1200W 857 UNB VS1 OSRAM	1200	On-Off	5700K	80	GL23100025455
PSS SHP V3 G 1200W 857 NB VS1 OSRAM	1200	On-Off	5700K	80	GL23100025555
PSS SHP V3 G 1200W 857 MB VS1 OSRAM	1200	On-Off	5700K	80	GL23100025655
PSS SHP V3 G 1200W 857 UWB VS1 OSRAM	1200	On-Off	5700K	80	GL23100025755
PSS SHP V3 G 1200W 857 ASY VS1 OSRAM	1200	On-Off	5700K	80	GL23100025855

Accessories

Short Text	Note	Material
PSS SHP V3 VISOR 1-module ACC VS4 OSRAM	For 400W / 500W / 600W	GA23100035155
PSS SHP V3 VISOR 2-module ACC VS4 OSRAM	For 800W / 1000W / 1200W	GA23100035255

