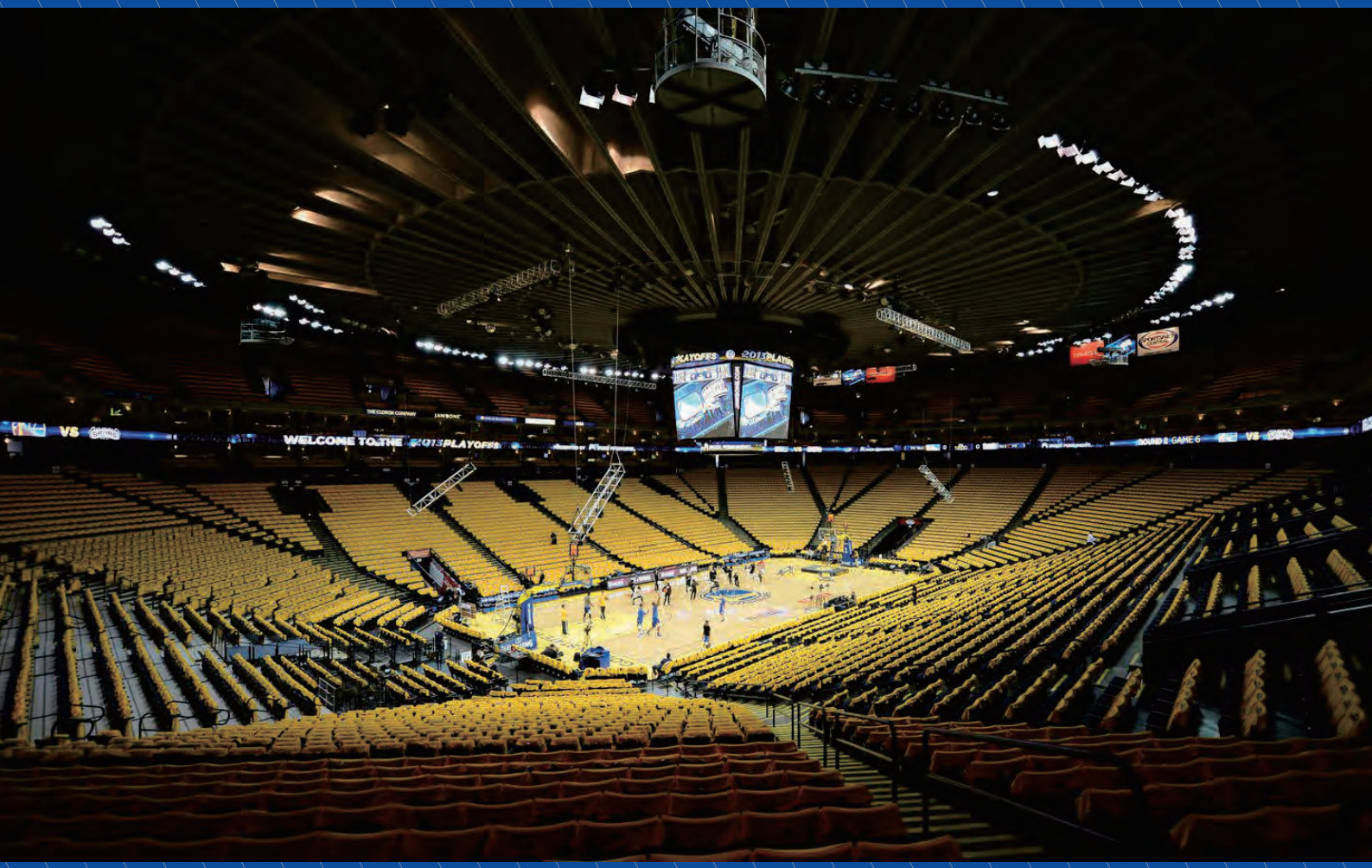
Durable Stadium Lighting Solution



LED Sports Light

J1 / J2 / L2 Series

CONSTELLATION
LIGHTING
www.constellationlighting.us

info@constellationlighting.us
(346) 326-3155
www.constellationlighting.us

J1 J2 series



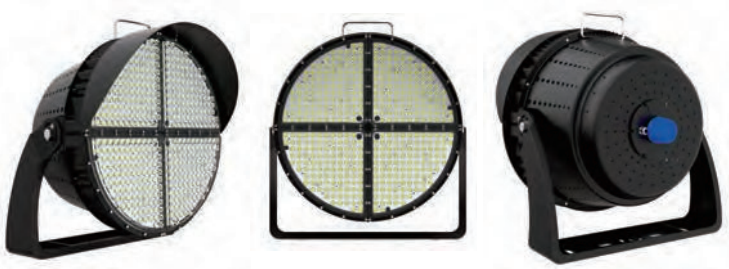
Built-in power supply



External power supply



L2 series



Built-in power supply



External power supply

Product Description

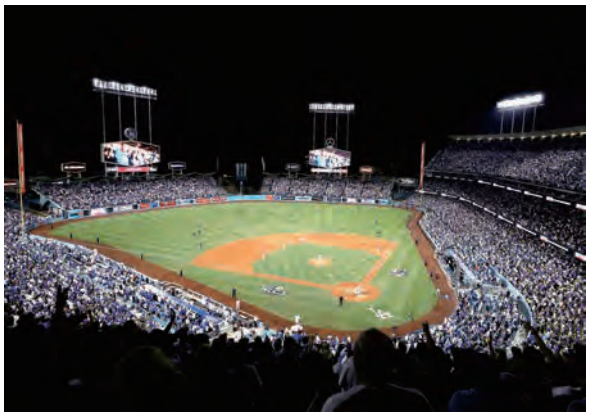
J1 & J2 & L2 series LED sports light produces ideal light distribution with the highest reliability level - incredibly high over 93% total efficiency, while saving up to 80% energy compared with traditional lighting. With cold forging aluminum (AL1050) housing, rugged and weather-tight design, this durable luminaire can withstand the most demanding elements, ideal for use in high vibration areas and extreme outdoor conditions.

Features

- RGB/RGBW optional
- External power supply and built-in power supply are optional
- DALI, DMX512, RDM wireless control, 0-10V dimming
- Cold forging 1050 aluminum housing with polyester powder coated finish, excellent heat dissipation and corrosion resistance
- Laser aiming device (optional) provides precise control in angling and aiming to exact optimal position
- Special circuit design for each module part to work separately
- High-quality optical material and various light distribution angles deliver ideal illumination and visual comfort

Compliance

UL
DLC
CB



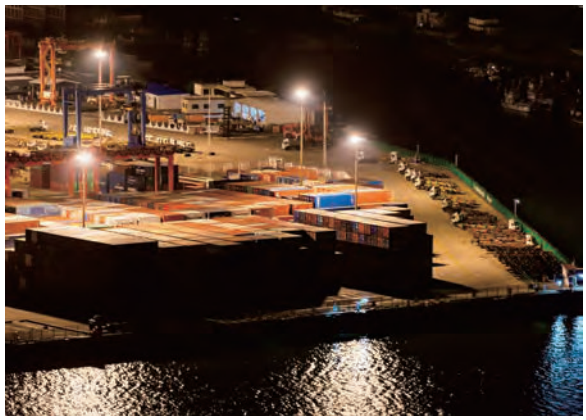
Application

- Sporting Facility
- Stadium
- Paper mills
- Container Loading Area
- Shipping Yard
- High Mast Roadway
- Airport
- Industrial Lighting
- Parking Lot
- Railway
- Port
- Public Square



Warranty

5-Year Standard Warranty
50,000 hours L70B50@35°C



Technical Parameter

• Electrical

Specification	SP-J1xxxW UXSQBZ	SP-J2xxxW UXSQBZ	SP-L2xxxW UXSQBZ
Rated Power	300/400/500/600W	720/800/1000/1200W	1000/1200/1500/1600/1800W
Input Voltage	AC120-277V/120-347V/277-480V	AC120-277V/120-347V/277-480V	AC120-277V/120-347V/277-480V
Input Frequency	50/60Hz	50/60Hz	50/60Hz
Power Factor	0.95	0.95	0.95
THD	<15%	<15%	<15%
Power Supply	Inventronics/Sosen	Inventronics/Sosen	Inventronics/Sosen
Surge Protection	10kV (Standard) / 20kV (Optional)	10kV (Standard) / 20kV (Optional)	10kV (Standard) / 20kV (Optional)

• Optical

Specification	SP-J1xxxW UXSQBZ	SP-J2xxxW UXSQBZ	SP-L2xxxW UXSQBZ
Lumen Output	45,900lm-93,000lm	106,560lm-162,000lm	148,000lm-243,000lm
Lumens Per Watt @Ra70	300W: 170lm/W, 400W: 165lm/W 500W: 160lm/W, 600W: 155lm/W	720W: 165lm/W, 800W: 160lm/W 1000W:150lm/W, 1200W: 135lm/W	1000W: 165lm/W, 1200W:155lm/W 1500W:145lm/W, 1600W: 140lm/W 1800W:135lm/W
Lumens Per Watt @Ra80	300W: 153lm/W, 400W: 148lm/W 500W: 144lm/W, 600W: 140lm/W	720W: 148lm/W, 800W: 144lm/W 1000W:135lm/W, 1200W: 120lm/W	1000W: 148lm/W, 1200W:140lm/W 1500W:130lm/W, 1600W: 126lm/W 1800W:121lm/W
Beam Angle	15°/20°/30°/45°/60°	15°/20°/25°/40°/60°/80°	15°/30°/45°
LED Type	5050 (3737 for 15° beam angle*)	5050 (3737 for 15° beam angle*)	3030 (3737 for 15° beam angle*)
CCT	2700K-6500K/RGB/RGBW	2700K-6500K/RGB/RGBW	2700K-6500K/RGB/RGBW
CRI	Ra70(Standard), Ra80(Optional)	Ra70(Standard), Ra80(Optional)	Ra70(Standard), Ra80(Optional)
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Intelligent Control	DMX512/RDM/DALI	DMX512/RDM/DALI	DMX512/RDM/DALI

**Ra90 chip is customizable.*
The Lumen efficiency of 3737 chip is 10% lower than that of other chips in average.

• Environmental

Specification	SP-J1xxxW UXSQBZ	SP-J2xxxW UXSQBZ	SP-L2xxxW UXSQBZ
Ambient Operating Temperature	-40°C to 50°C (-40°F to 122°F)	-40°C to 50°C (-40°F to 122°F)	-40°C to 50°C (-40°F to 122°F)

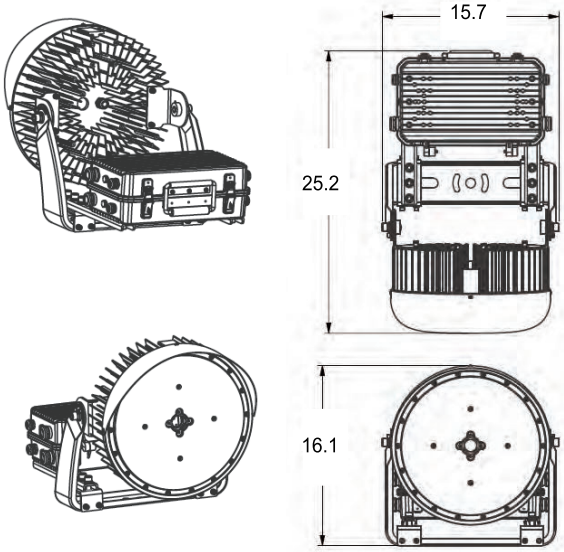
• Mechanical

Specification	SP-J1xxxW UXSQBZ	SP-J2xxxW UXSQBZ	SP-L2xxxW UXSQBZ
Housing Material	Cold Forging Aluminum (Al1050)	Cold Forging Aluminum (Al1050)	Cold Forging Aluminum (Al1050)
Lens Material	Anti-UV PC Optical Material	Anti-UV PC Optical Material	Anti-UV PC Optical Material
Protection	IP66/IK09	IP66/IK09	IP66/IK09
Mounting	Bracket mounting/ Pole mounting	Bracket mounting/ Pole mounting	Bracket mounting/ Pole mounting

Product Dimensions in Inches

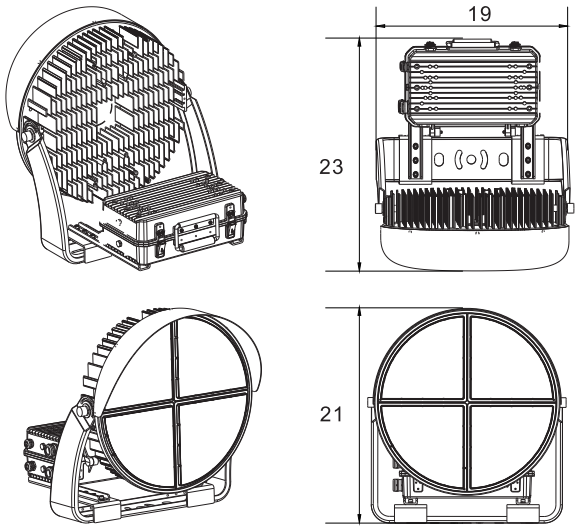
With External Power Supply:

J1: 300-600W



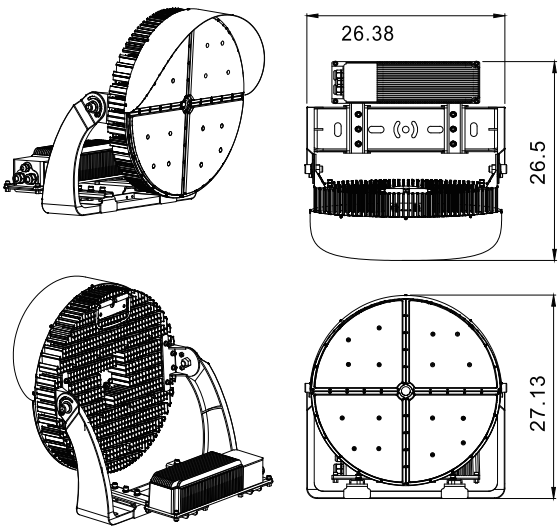
With External Power Supply:

J2: 720-1000W



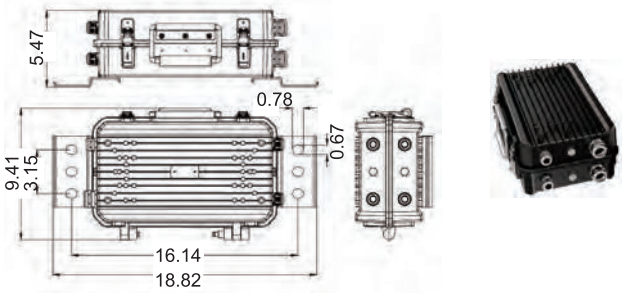
With External Power Supply:

L2: 1000-1800W

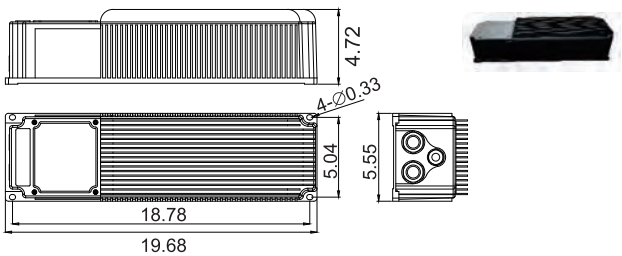


External Power Supply

for 300/400/500/600/720/800/900/1000:



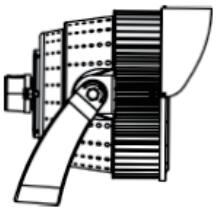
for 1000-1800W:

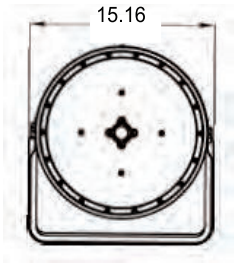


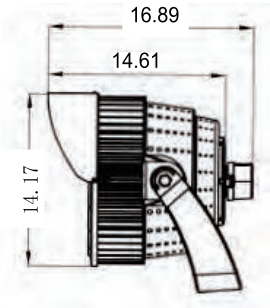
Product Dimensions in Inches

With Built-in Power Supply:

J1: 300-600W

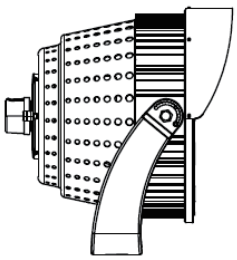


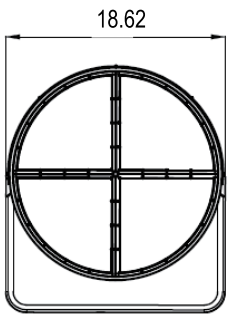


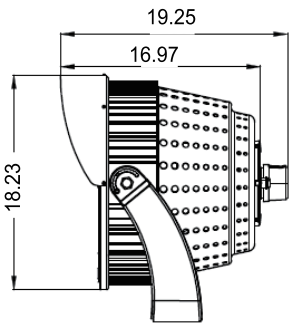


With Built-in Power Supply:

J2: 720-1200W

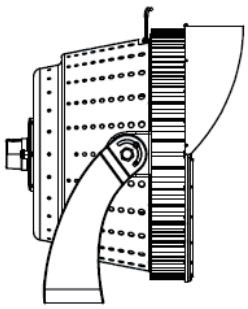


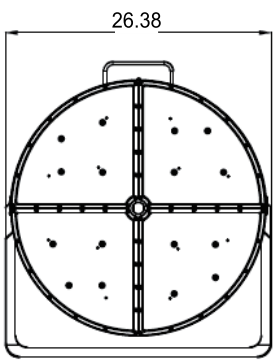


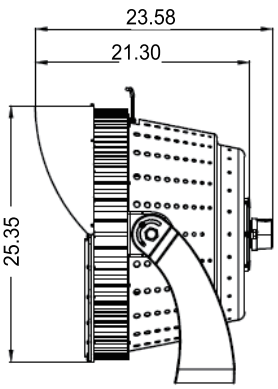


With Built-in Power Supply:

L2: 1000-1800W

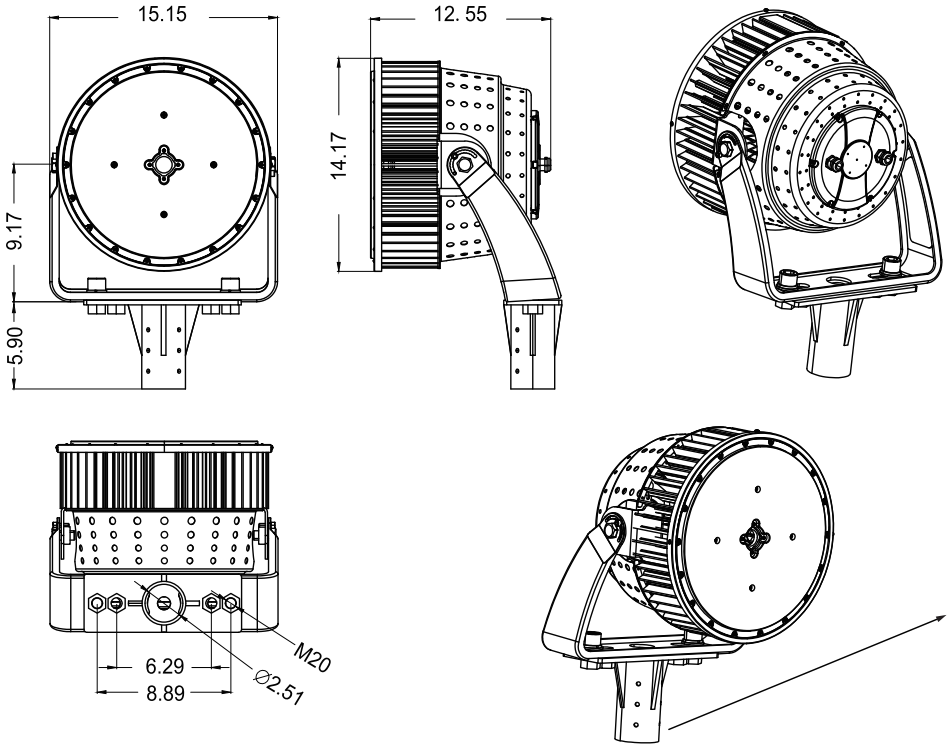




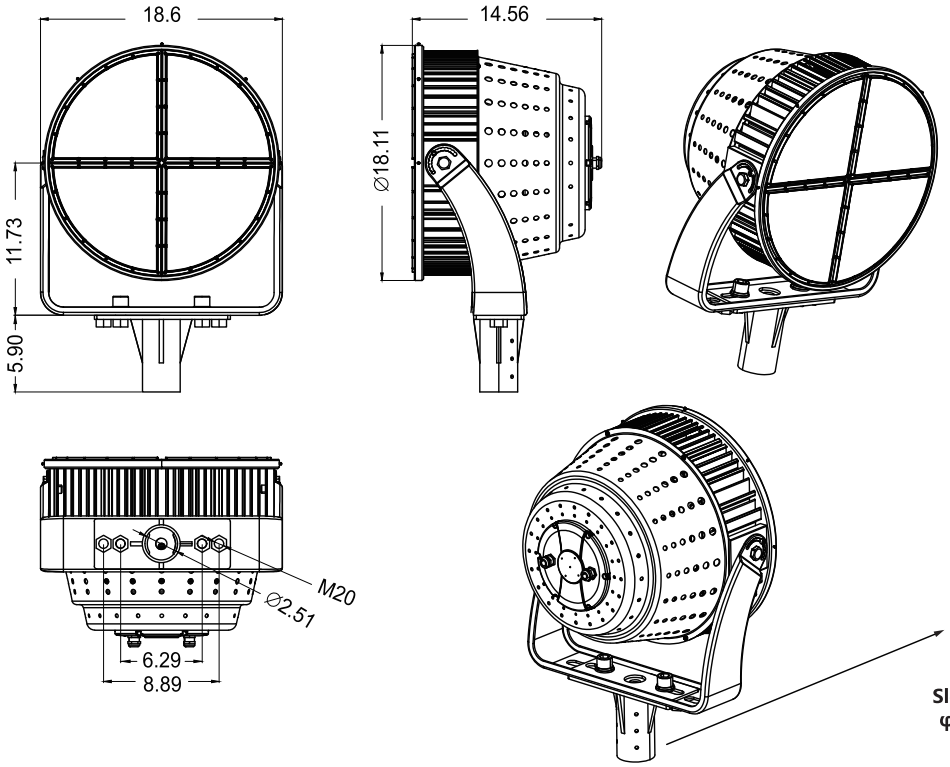


Product Dimensions with Sleeve Bracket (without Visor) in Inches

J1: 300-600W

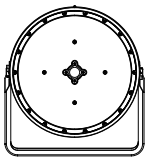


J2: 720-1200W

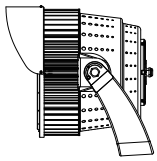


EPA

J1: 300-600W



EPA: 1.25

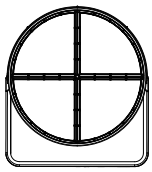


EPA: 1.16

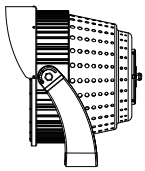


EPA: 1.57

J2: 720-1200W



EPA: 2.01

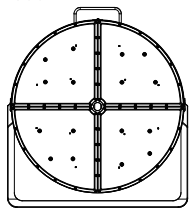


EPA: 1.72

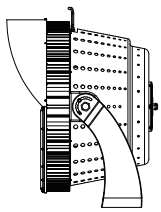


EPA: 1.97

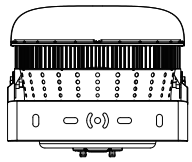
L2: 1000-1800W



EPA: 4.03



EPA: 2.79



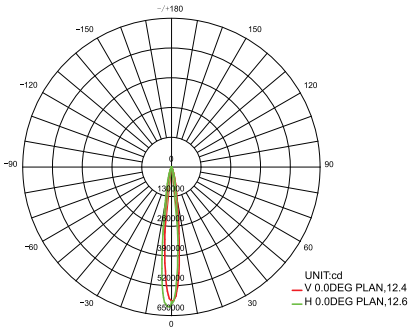
EPA: 3.59

Packing Information

Model	Net Weight (Product)	Quantity/ Carton	Gross Weight	Package Dimensions (LxWxH)
J1 (with built-in driver)	16.36kg (36.07lbs)	1 pc	18.16kg (40.03lbs)	20.27x16.34x15.75inch (515x415x400mm)
J2 (with built-in driver)	25.79kg (56.86lbs)	1 pc	28.88kg (63.67lbs)	25.00x21.06x18.31inch (635x535x465mm)
L2 (with built-in driver)	51.96kg (114.55lbs)	1 pc	57.47kg (126.70lbs)	32.28x29.53x20.67inch (820x750x525mm)
J1 (with external driver)	10.96kg (24.16lbs)	1 pc	12.98kg (28.61lbs)	21.06x16.34x12.99inch (535x415x330mm)
J2 (with external driver)	14.78kg (32.58lbs)	1 pc	18.58kg (40.96lbs)	25.00x21.06x13.38inch (635x535x340mm)
L2 (with external driver)	33.16kg (73.10lbs)	1 pc	39.62kg (87.35lbs)	32.28x29.53x15.75inch (820x750x400mm)
External Power Supply (for 300W/400W/500W/600W/ 720W/8000W/900W/1000W/ 1100W/1200W)	6.6kg (14.55lbs)	1 pc	7.8kg (17.19lbs)	21.06x12.79x8.27inch (535x325x210mm)
External Power Supply (for 1300-1800W)	6.1kg (13.45lbs)	1 pc	7.0kg (15.43lbs)	21.65x7.48x6.69inch (550x190x170mm)

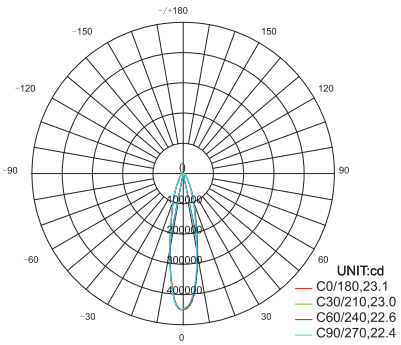
Photometric

J1 15 degrees



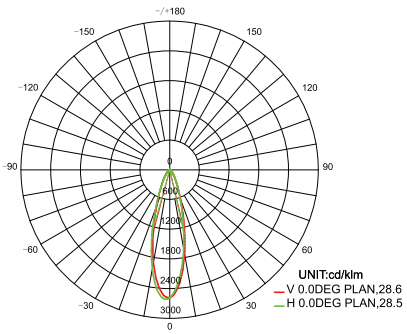
AVERAGE BEAM ANGLE(50%):12.5 DEG

J1 20 degrees



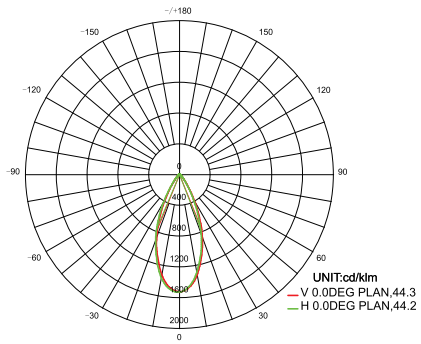
AVERAGE BEAM ANGLE(50%):22.8 DEG

J1 30 degrees



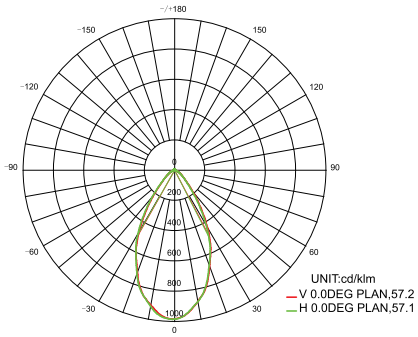
AVERAGE BEAM ANGLE(50%):28.5 DEG

J1 45 degrees



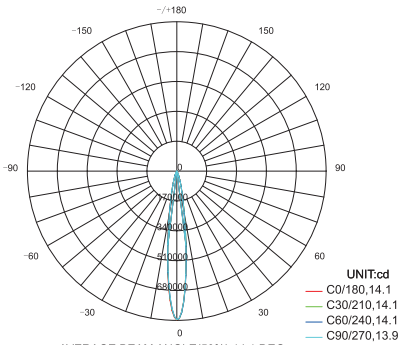
AVERAGE BEAM ANGLE(50%):44.3 DEG

J1 60 degrees



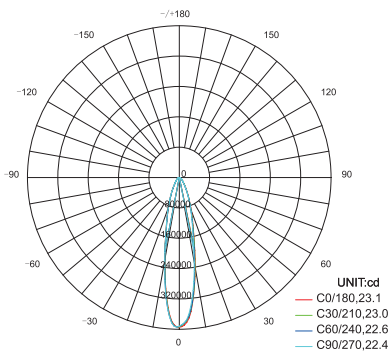
AVERAGE BEAM ANGLE(50%):57.2 DEG

J2 15 degrees



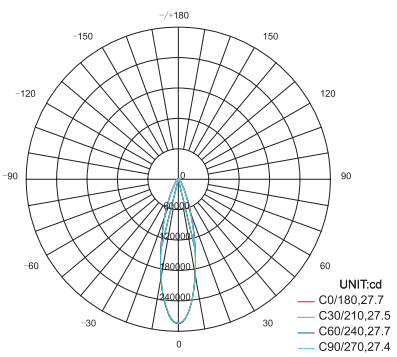
AVERAGE BEAM ANGLE(50%):14.1 DEG

J2 20 degrees



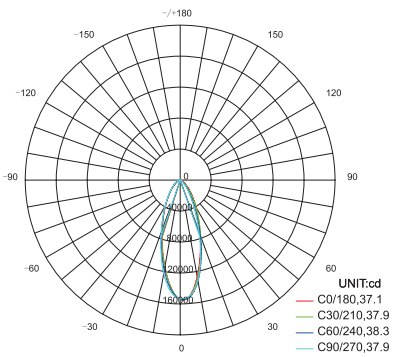
AVERAGE BEAM ANGLE(50%):22.8 DEG

J2 25 degrees



AVERAGE BEAM ANGLE(50%):27.6 DEG

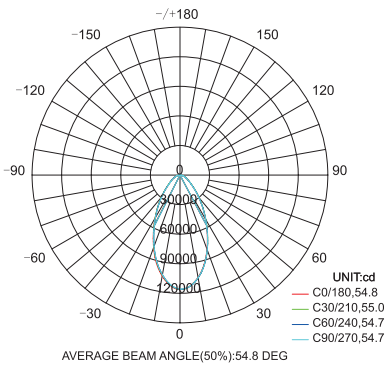
J2 40 degrees



AVERAGE BEAM ANGLE(50%):37.8 DEG

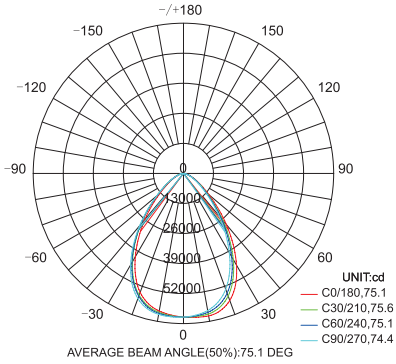
Photometric

J2 60 degrees



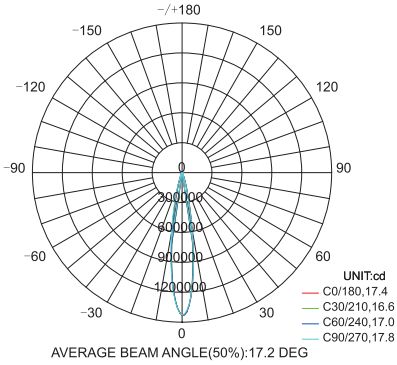
AVERAGE BEAM ANGLE(50%):54.8 DEG

J2 80 degrees



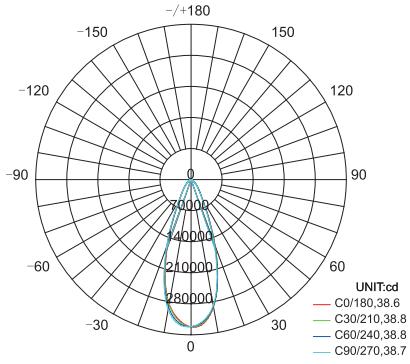
AVERAGE BEAM ANGLE(50%):75.1 DEG

L2 15 degrees



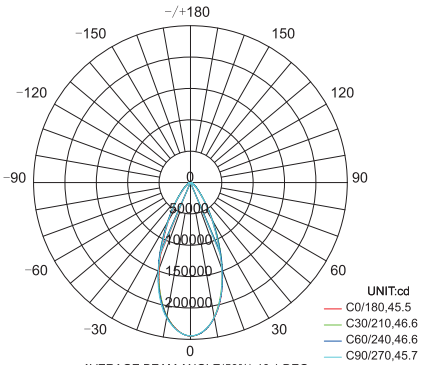
AVERAGE BEAM ANGLE(50%):17.2 DEG

L2 30 degrees



AVERAGE BEAM ANGLE(50%):38.7 DEG

L2 45 degrees



AVERAGE BEAM ANGLE(50%):46.1 DEG

Ordering Guide

SP	-	XX	xxxW	U	X	S	Q	B	Z
1		2	3	4	5	6	7	8	9

1. Product Category	2. Product Series	3. Wattage	4. Color Temperature	5. Dimming Function
SP: Sports Light	Can be: J1/J2/L2	J1: 300/400/500/600W J2: 720/800/1000/1200W L2: 1000/1200/1500/1600/1800W	22=2200K, 30=3000K, ..., 70=7000K	D: Dimmable N: Non-dimmable

6. Beam Angle	7. Sensor	8. Remote Driver Box	9. Input Voltage
15=15°, 20 =20°, 25 =25°, 30=30°, 40=40°, 45=45°, 60=60°, 80=80°	Q can be N, represents without sensor	B can be: G: with remote driver box Blank: without remote driver box	Z can be: A: 120-277VAC, E: 277-480VAC F: 200-480VAC, G: 120-347VAC H: 220-400VAC