

# Poseidon-Series

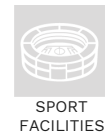


## KEY ADVANTAGES

- Professional light distribution makes maximum use of lumens
- Thanks to die-cast technology, achieve the aesthetic appearance
- Intelligent sensing provides a guarantee for high efficiency and energy saving
- Rectangular light type specially designed for warehouse aisles
- Multiple mounting options for replacement and new installations
- High visual comfort
- No hazardous materials
- Fast ROI thanks to long life span and reduced maintenance

## TYPES OF APPLICATION

- INDUSTRIAL HALL & WAREHOUSE
- EXHIBITION CENTERS
- CAR PARKS
- SPORT FACILITIES
- LARGE AREAS
- SHOPPING MALLS



### GENERAL INFORMATION

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| Driver included  | Yes                                                                           |
| CE mark          | Yes                                                                           |
| RoHS compliant   | Yes                                                                           |
| Safety features  | Open circuit protection<br>Short circuit protection<br>Overvoltage protection |
| Testing standard | LM-79-19 (all measurements in ISO17025 accredited laboratory)                 |

### HOUSING AND FINISH

|                    |                                        |
|--------------------|----------------------------------------|
| Housing            | Aluminium                              |
| Optic              | Polycarbonate                          |
| Protector          | Polycarbonate (with integrated lenses) |
| Housing finish     | Electrostatic polyester powder coating |
| Standard colour(s) | RAL 9017 black                         |
| Tightness level    | IP 65                                  |
| Impact resistance  | IK 09                                  |

### OPERATING CONDITIONS

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Operating temperature range (Ta) | -30°C to + 45°C                       |
| Operating Humidity               | 10-90%RH                              |
| Mounting Option                  | Pendant mounting/<br>ceiling mounting |
| Warranty                         | 5 years                               |

### Performance

|                     |                                        |
|---------------------|----------------------------------------|
| Power               | 100W/120W/200W/240W/<br>300W/400W/480W |
| Efficacy            | 180lm/W,160lm/W                        |
| Power Efficiency    | ≥90%                                   |
| Start Time          | ≤0.2S                                  |
| Warm-up time to 60% | 0.5S                                   |

### ELECTRICAL INFORMATION

|                                                                                                                                     |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Electrical class                                                                                                                    | Class I EU                                                                                 |
| Nominal voltage                                                                                                                     | 120-277V   50/60Hz                                                                         |
| Power factor (at full load)                                                                                                         | 0.9                                                                                        |
| Surge protection options (kV)                                                                                                       | 6KV-Line-Line<br>6KV-Line-Earth                                                            |
| Electromagnetic compatibility (EMC)                                                                                                 | EN 55015:2019/A11:2020, EN 61000-3-2:2019, EN 61000-3-3:2013, EN 61547:2009, EN 62493:2015 |
| Total Harmonic Distortion(THD)                                                                                                      | IEC 61000-3-2 Class C<br><20%                                                              |
| Driver Type                                                                                                                         | Constant current(CC)                                                                       |
| For fixed Class 1 luminaires, overvoltage protective devices which comply with IEC 61643-11 shall be disconnected from the circuit. |                                                                                            |
| withstand voltage                                                                                                                   | 1.5KV 60S 10mA                                                                             |

### OPTICAL INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| LED Type                         | SMD3030                                  |
| Beam Angle                       | 30x70° / 60x90° /<br>40x110°             |
| Recommended installation height  | 4m to 12m                                |
| Color Tolerance                  | Ra70 ≤7<br>Ra80 ≤5                       |
| LED colour temperature           | 3000K / 4000K / 5000K /<br>5700K / 6500K |
| Colour rendering index (CRI)     | CRI>70 standard<br>CRI>80 optional       |
| Upward Light Output Ratio (ULOR) | 0%                                       |
| ※Ra measurement tolerance is ±2. |                                          |

### LIFETIME OF THE LEDS @ TQ 25°C

|                    |                |
|--------------------|----------------|
| All configurations |                |
| L70B10             | >100,000h      |
| L80B10             | >50,000h       |
| L90B10             | >30,000h       |
| Switching Cycles   | >100,000 times |

### PRO VERSION

| POWER | LUMENS   | EFFICACY      |
|-------|----------|---------------|
| 100W  | 18,000LM | 180LM/W(Ra70) |
|       | 17,000LM | 170LM/W(Ra80) |
| 120W  | 20,400LM | 170LM/W(Ra70) |
|       | 19,200LM | 160LM/W(Ra80) |
| 200W  | 36,000LM | 180LM/W(Ra70) |
|       | 34,000LM | 170LM/W(Ra80) |
| 240W  | 40,800LM | 170LM/W(Ra70) |
|       | 38,400LM | 160LM/W(Ra80) |
| 300W  | 54,000LM | 180LM/W(Ra70) |
|       | 51,000LM | 170LM/W(Ra80) |
| 400W  | 72,000LM | 180LM/W(Ra70) |
|       | 68,000LM | 170LM/W(Ra80) |
| 480W  | 81,600LM | 170LM/W(Ra70) |
|       | 76,800LM | 160LM/W(Ra80) |

### STANDARD VERSION

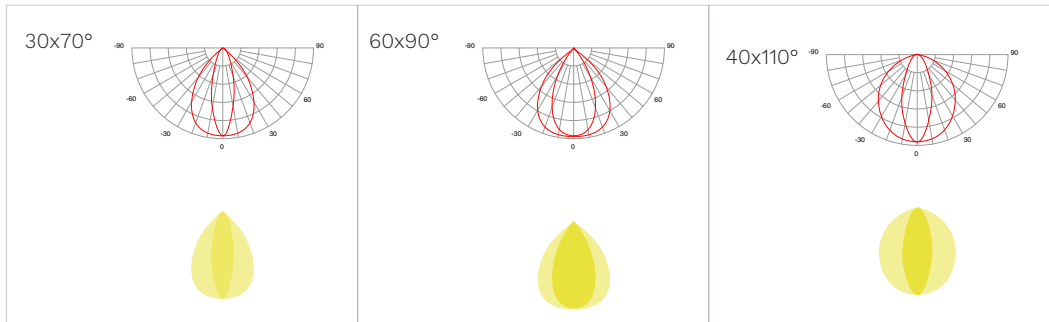
| POWER | LUMENS   | EFFICACY      |
|-------|----------|---------------|
| 100W  | 16,000LM | 160LM/W(Ra70) |
|       | 15,000LM | 150LM/W(Ra80) |
| 120W  | 18,000LM | 150LM/W(Ra70) |
|       | 16,800LM | 140LM/W(Ra80) |
| 200W  | 32,000LM | 160LM/W(Ra70) |
|       | 30,000LM | 150LM/W(Ra80) |
| 240W  | 36,000LM | 150LM/W(Ra70) |
|       | 33,600LM | 140LM/W(Ra80) |
| 300W  | 48,000LM | 160LM/W(Ra70) |
|       | 45,000LM | 150LM/W(Ra80) |
| 400W  | 64,000LM | 160LM/W(Ra70) |
|       | 60,000LM | 150LM/W(Ra80) |
| 480W  | 72,000LM | 150LM/W(Ra70) |
|       | 67,200LM | 140LM/W(Ra80) |

※The Performance Data is tested base on 230VAC, 60x90° and 4000K for all versions.  
 ※Power Consumption Tolerance ±5% (Apply to all versions)  
 ※Lumen Efficiency Tolerance ±5% (Apply to all versions)  
 ※When using a 30x70° configuration, the light efficiency decreases by 10%  
 ※When using 40x110° configuration, the light efficiency decreases by 5%

### PACKAGING

| POWER | PACKAGE SIZE      | QTY/CTN  | SINGLE PIECE VOLUME  | NET WEIGHT | GROSS WEIGHT |
|-------|-------------------|----------|----------------------|------------|--------------|
| 100W  | L585*W205*H175mm  | 1PCS/CTN | 0.021m <sup>3</sup>  | 3.0kg      | 3.2kg        |
| 120W  | L585*W205*H175mm  | 1PCS/CTN | 0.021m <sup>3</sup>  | 3.0kg      | 3.2kg        |
| 200W  | L945*W205*H175mm  | 1PCS/CTN | 0.0339m <sup>3</sup> | 5.8kg      | 6.3kg        |
| 240W  | L945*W205*H175mm  | 1PCS/CTN | 0.0339m <sup>3</sup> | 5.8kg      | 6.3kg        |
| 300W  | L1300*W205*H175mm | 1PCS/CTN | 0.0466m <sup>3</sup> | 8.7kg      | 9.5kg        |
| 400W  | L955*W360*H175mm  | 1PCS/CTN | 0.0602m <sup>3</sup> | 11.5kg     | 14.2kg       |
| 480W  | L955*W360*H175mm  | 1PCS/CTN | 0.0602m <sup>3</sup> | 11.5kg     | 14.2kg       |

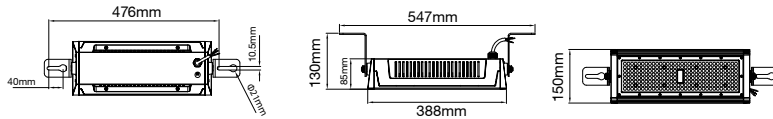
### LIGHT DISTRIBUTIONS



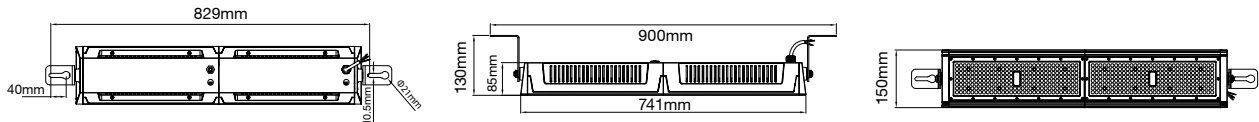
### OPTIONAL ACCESSORIES



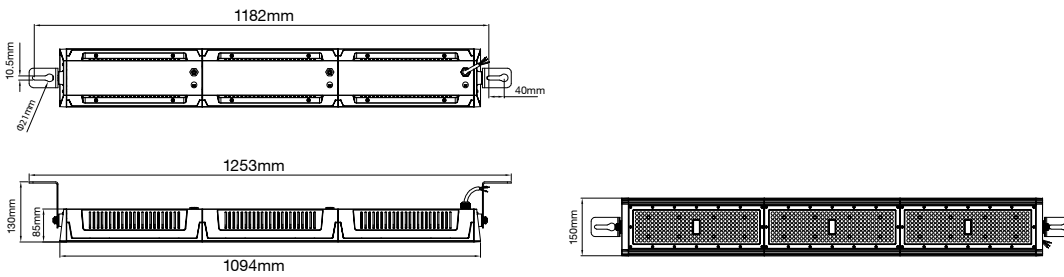
100W/120W



200W/240W



300W



400W/480W

