

SPORTS LIGHT (MSL01)



DESCRIPTION

By providing superior high output and high efficiency, sports light series is the ideal solution for outdoor sports lighting such as municipal, school and semi-professional outdoor sports lighting. Dynamic thermal management design maximizes heat dissipation and significantly improves the life of luminaires. Built-in surge suppression adds an extra layer of protection to the luminaire driver. Versatile mounting bracket for hassle-free installation.

SPECIFICATION FEATURES

Construction

- Sealed die-casting profile for outdoor applications
- Low profile, 3G vibration rated compact design minimizes wind load requirements.
- Housing is completely sealed against moisture and environmental contaminants (IP65).

Optics

- Available in NEMA 3Hx3V, 4Hx4V, 5Hx5V, 6Hx6V distributions.
- Light engines are available in standard 4000 K, 5000K and 5700 K (70/80/90 CRI) configurations.
- Scalable Lumen Packages from 49,500 to 118,000 Lumens.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

Electrical

- Universal 120-277 VAC or 347-480 VAC input voltage
- Standard with 0-10V dimming driver(s)
- Built in surge suppression with max.20KV @120-277V(Max.40KV @277-480V).
- THD: ≤20%
- Power Factor: ≥90%

Ambient Temperature

- Ambient operating temperature -40 C to 55 C (-40 F to 131 F).

Lifespan

- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Note

- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 C (±5 C) specifications subject to change without notice.

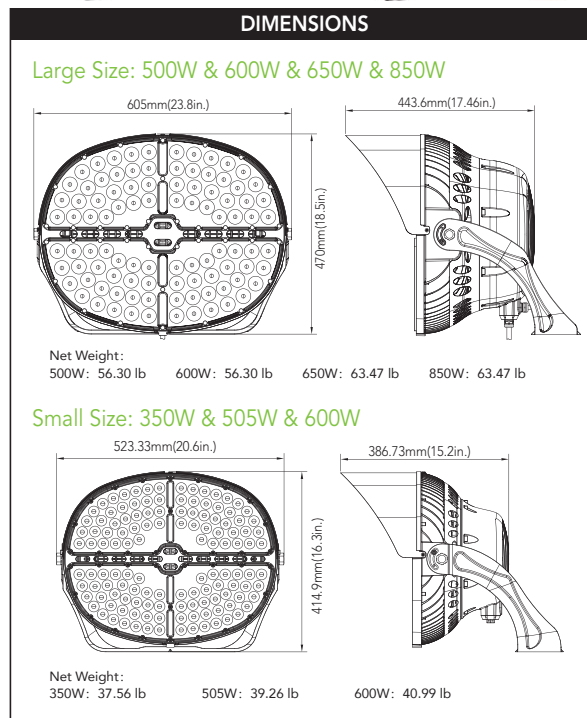
Certifications

- DesignLights Consortium™ Qualified.
- UL cUL wet location listed.

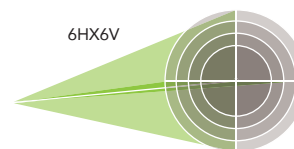
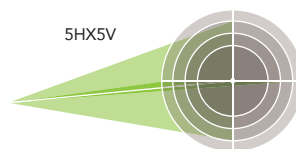
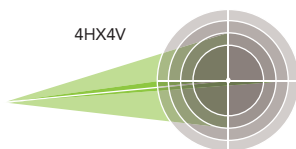
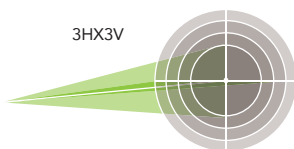
Note: DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.

Small Size: 350W & 505W
600W

Large Size: 500W & 600W
650W & 850W



PHOTOMETRICS



PERFORMANCE DATA

| SIZE | SYSTEM WATTS | VOLTAGE | NEMA | EPA | CRI | LUMENS (4000K) | LPW (4000K) | LUMENS (5000K) | LPW (5000K) | LUMENS (5700K) | LPW (5700K) |
|------------|--------------|-------------------|-------|--------|-----|----------------|-------------|----------------|-------------|----------------|-------------|
| Small Size | 350W | 120-277V/347-480V | 4Hx4V | 1.8911 | 70 | 51000lm | 146 lm/W | 51000lm | 146 lm/W | 49500lm | 141 lm/W |
| Small Size | 505W | 120-277V/347-480V | 4Hx4V | 1.8911 | 70 | 70000lm | 139 lm/W | 70000lm | 139 lm/W | 68000lm | 135 lm/W |
| Small Size | 600W | 120-277V/347-480V | 4Hx4V | 1.8911 | 70 | 82000lm | 137 lm/W | 82000lm | 137 lm/W | 80000lm | 133 lm/W |
| Large Size | 500W | 120-277V/347-480V | 4Hx4V | 2.5471 | 70 | 71000lm | 142 lm/W | 71000lm | 142 lm/W | 69000lm | 138 lm/W |
| | | | 3Hx3V | 2.5471 | 70 | 68160lm | 136 lm/W | 68160lm | 136 lm/W | 66240lm | 132 lm/W |
| Large Size | 600W | 120-277V/347-480V | 4Hx4V | 2.5471 | 70 | 84000lm | 140 lm/W | 84000lm | 140 lm/W | 82000lm | 137 lm/W |
| | | | 3Hx3V | 2.5471 | 70 | 80640lm | 134 lm/W | 80640lm | 134 lm/W | 78720lm | 131 lm/W |
| Large Size | 650W | 277-480V | 4Hx4V | 2.5471 | 70 | 91000lm | 140 lm/W | 91000lm | 140 lm/W | 88000lm | 135 lm/W |
| | | | 3Hx3V | 2.5471 | 70 | 87360lm | 134 lm/W | 87360lm | 134 lm/W | 84480lm | 130 lm/W |
| Large Size | 850W | 120-277V/347-480V | 4Hx4V | 2.5471 | 70 | 118000lm | 139 lm/W | 118000lm | 139 lm/W | 112000lm | 132 lm/W |
| | | | 3Hx3V | 2.5471 | 70 | 113280lm | 133 lm/W | 113280lm | 133 lm/W | 107520lm | 126 lm/W |

ELECTRICAL DATA

| Number Of Drivers | Driver Current (mA) | Nominal Power (W) | INPUT VOLTAGE (V) | CURRENT (Amps) |
|-------------------|---------------------|-------------------|-------------------|----------------|
| 1 | 2400 | 350 | 120 | 2.92 |
| | | 350 | 208 | 1.68 |
| | | 350 | 240 | 1.46 |
| | | 350 | 277 | 1.26 |
| | | 350 | 347 | 1.01 |
| | | 350 | 480 | 0.73 |
| 1 | 4800 | 500 | 120 | 4.17 |
| | | 500 | 208 | 2.40 |
| | | 500 | 240 | 2.08 |
| | | 500 | 277 | 1.81 |
| | | 500 | 347 | 1.44 |
| | | 500 | 480 | 1.04 |
| 1 | 2350 | 505 | 120 | 4.21 |
| | | 505 | 208 | 2.43 |
| | | 505 | 240 | 2.10 |
| | 2500 | 505 | 277 | 1.82 |
| | | 505 | 347 | 1.46 |
| | | 505 | 480 | 1.05 |
| 1 | 5600 | 600 | 120 | 5.00 |
| | | 600 | 208 | 2.88 |
| | | 600 | 240 | 2.50 |
| | | 600 | 277 | 2.17 |
| | 5200 | 600 | 347 | 1.73 |
| | | 600 | 480 | 1.25 |
| 1 | 5200 | 650 | 277 | 2.35 |
| | | 650 | 347 | 1.87 |
| | | 650 | 480 | 1.35 |
| 1 | 5500 | 850 | 120 | 7.08 |
| | | 850 | 208 | 4.09 |
| | | 850 | 240 | 3.54 |
| | | 850 | 277 | 3.07 |
| | | 850 | 347 | 2.45 |
| | | 850 | 480 | 1.77 |

ORDERING GUIDE

Example:MSL01500W27VXXKYYYYY

| Fixture Type | Wattage | Voltage | CCT | Finish | Nema | Mounting(Optional) | Integrated Control | Internal Code |
|------------------------------|--|---|--|----------------------|---|----------------------|---|-------------------------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| MSL01 Sports light | 350 350W 500 500W 505 505W 600 600W 650 650W 850 850W | 27V 120-277V 48V 347-480V 48V 277-480V | 40K 4000K 50K 5000K 57K 5700K | B Black | B33 3Hx3V ¹ B44 4Hx4V B55 5Hx5V ² B66 6Hx6V ² | TR Trunnion | C With Integrated Control Blank Without Integrated Control | Blank Alphanumeric |

Note: 1. 3H3V is only suit for large size, and small size will be coming soon
3. 650W only suitable for 277-480V input.

2. 5H5V,6H6V will be coming soon.

Example:MSL01E600W27VXXKYYYYY

| Fixture Type | Wattage | Voltage | CCT | Finish | Nema | Mounting(Optional) | Integrated Control | Internal Code |
|-------------------------------|----------------------|--|--|----------------------|---|----------------------|---|-------------------------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| MSL01E Sports light | 600 600W | 27V 120-277V 48V 347-480V | 40K 4000K 50K 5000K 57K 5700K | B Black | B33 3Hx3V ¹ B44 4Hx4V B55 5Hx5V ¹ B66 6Hx6V ¹ | TR Trunnion | C With Integrated Control Blank Without Integrated Control | Blank Alphanumeric |

Note: 3H3V, 5H5V,6H6V will be coming soon.