

FLOOD LIGHT(ORLMFD08)



DESCRIPTION

The ORLMFD08 luminaire is a high performance LED lighting solution designed with optical versatility and a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, watertight LED driver compartment and high performance aluminum heat sinks. Markets include parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways.



SPECIFICATION FEATURES

Construction

- Housing, electrical compartment and fitter are all made from die case aluminum that is pre-treated and powder-coated to meet the most rugged industry standards.
- Door frame features an integral accessory channel for the mounting of optional light control accessories.
- Vented housing isolates LED module from driver, maximizing product life and performance
- Door frame seals to housing with a continuous extruded silicone gasket.

Optics

- Optics(NEMA Type): 7H*6V, 4Hx4V
- Scalable Lumen Packages from 1,950 to 50,000 Lumens.
- Provides the best combination of vertical and horizontal illumination while reducing light behind the poles.
- High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

Electrical

- Universal 120-277 VAC or 347-480 VAC input voltage.
- Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours.
- Operating Temperature Range: -40°C - + 40°C (-40°F - + 104°F)

Lifespan

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

Warranty

- Five-year warranty.

Certifications

- DesignLights Consortium™ Qualified.
- UL cUL wet location listed.
- Note: DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages), refer to www.designlights.org for details.

PHOTOMETRICS

4HX4V
only suitable for 135W,
200W, 350W

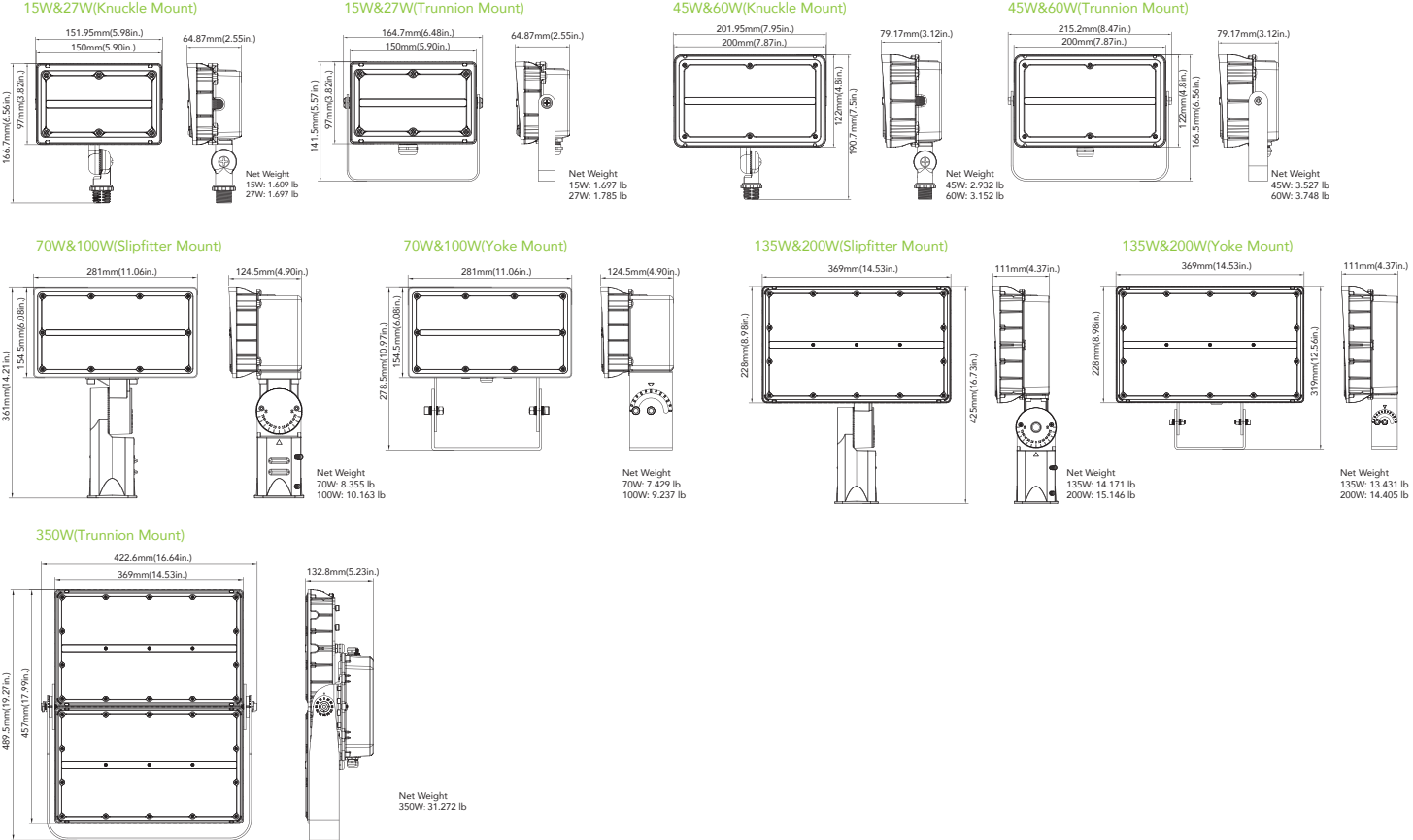
7HX6V

ACCESSORIES

Photocell
No. PC-JL-120-277V
USE: Photocell is field installed or pre-installed in factory by requesting

DIMENSIONS

unit: mm/inch






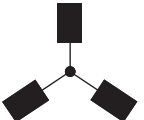
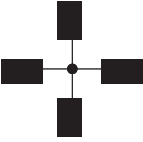


PERFORMANCE DATA

| SYSTEM WATTS | VOLTAGE | DIST. TYPE | CRI | LUMENS (3000K) | LPW (3000K) | LUMENS (4000K) | LPW (4000K) | LUMENS (5000K) | LPW (5000K) |
|--------------|----------|------------|-----|----------------|-------------|----------------|-------------|----------------|-------------|
| 15W | 120-277V | 7Hx6V | 70 | 1950lm | 130 lm/W | 2000lm | 133 lm/W | 2000lm | 133 lm/W |
| 27W | 120-277V | 7Hx6V | 70 | 3500lm | 130 lm/W | 3600lm | 133 lm/W | 3600lm | 133 lm/W |
| 45W | 120-277V | 7Hx6V | 70 | 5550lm | 123 lm/W | 5650lm | 126 lm/W | 5650lm | 126 lm/W |
| 60W | 120-277V | 7Hx6V | 70 | 7250lm | 121 lm/W | 7450lm | 124 lm/W | 7450lm | 124 lm/W |
| 60W | 347-480V | 7Hx6V | 70 | 7500lm | 125 lm/W | 7600lm | 127 lm/W | 7600lm | 127 lm/W |
| 70W | 120-277V | 7Hx6V | 70 | 8700lm | 124 lm/W | 8900lm | 127 lm/W | 8900lm | 127 lm/W |
| 70W | 347-480V | 7Hx6V | 70 | 9100lm | 130 lm/W | 9300lm | 133 lm/W | 9300lm | 133 lm/W |
| 90W | 347-480V | 7Hx6V | 70 | 12000lm | 133 lm/W | 12400lm | 138 lm/W | 12400lm | 138 lm/W |
| 100W | 120-277V | 7Hx6V | 70 | 13100lm | 131 lm/W | 13300lm | 133 lm/W | 13300lm | 133 lm/W |
| 135W | 120-277V | 4Hx4V | 70 | 17500lm | 130 lm/W | 18000lm | 133 lm/W | 18000lm | 133 lm/W |
| 135W | 347-480V | 4Hx4V | 70 | 17500lm | 130 lm/W | 18000lm | 133 lm/W | 18000lm | 133 lm/W |
| 135W | 120-277V | 7Hx6V | 70 | 17500lm | 130 lm/W | 18000lm | 133 lm/W | 18000lm | 133 lm/W |
| 135W | 347-480V | 7Hx6V | 70 | 17500lm | 130 lm/W | 18000lm | 133 lm/W | 18000lm | 133 lm/W |
| 200W | 120-277V | 4Hx4V | 70 | 26000lm | 130 lm/W | 26500lm | 133 lm/W | 26500lm | 133 lm/W |
| 200W | 347-480V | 4Hx4V | 70 | 26000lm | 130 lm/W | 26500lm | 133 lm/W | 26500lm | 133 lm/W |
| 200W | 120-277V | 7Hx6V | 70 | 25300lm | 127 lm/W | 26200lm | 131 lm/W | 26200lm | 131 lm/W |
| 200W | 347-480V | 7Hx6V | 70 | 25300lm | 127 lm/W | 26200lm | 131 lm/W | 26200lm | 131 lm/W |
| 350W | 120-277V | 4Hx4V | 70 | 48000lm | 137 lm/W | 49500lm | 141 lm/W | 49500lm | 141 lm/W |
| 350W | 347-480V | 4Hx4V | 70 | 48000lm | 137 lm/W | 49500lm | 141 lm/W | 49500lm | 141 lm/W |
| 350W | 120-277V | 7Hx6V | 70 | 48000lm | 137 lm/W | 50000lm | 143 lm/W | 50000lm | 143 lm/W |
| 350W | 347-480V | 7Hx6V | 70 | 48000lm | 137 lm/W | 50000lm | 143 lm/W | 50000lm | 143 lm/W |

ELECTRICAL DATA

| Number Of Drivers | Driver Current (mA) | Nominal Power (W) | INPUT VOLTAGE (V) | CURRENT (Amps) |
|-------------------|---------------------|-------------------|-------------------|----------------|
| 1 | 250 | 15 | 120 | 0.13 |
| | | 15 | 208 | 0.07 |
| | | 15 | 240 | 0.06 |
| | | 15 | 277 | 0.05 |
| 1 | 430 | 27 | 120 | 0.23 |
| | | 27 | 208 | 0.13 |
| | | 27 | 240 | 0.11 |
| 1 | 770 | 27 | 277 | 0.10 |
| | | 45 | 120 | 0.38 |
| | | 45 | 208 | 0.22 |
| 1 | 920 | 45 | 240 | 0.19 |
| | | 45 | 277 | 0.16 |
| | | 60 | 120 | 0.50 |
| 1 | 1600 | 60 | 208 | 0.29 |
| | | 60 | 240 | 0.25 |
| | | 60 | 277 | 0.22 |
| 1 | 1750 | 60 | 347 | 0.17 |
| | | 60 | 480 | 0.13 |
| 1 | 1850 | 70 | 120 | 0.58 |
| | | 70 | 208 | 0.34 |
| | | 70 | 240 | 0.29 |
| | | 70 | 277 | 0.25 |
| 1 | 2600 | 70 | 347 | 0.20 |
| | | 70 | 480 | 0.15 |
| 1 | 2600 | 100 | 120 | 0.83 |
| | | 100 | 208 | 0.48 |
| | | 100 | 240 | 0.42 |
| | | 100 | 277 | 0.36 |
| 2 | 2400 | 90 | 347 | 0.26 |
| | | 90 | 480 | 0.19 |
| 2 | 3500 | 135 | 120 | 1.13 |
| | | 135 | 208 | 0.65 |
| | | 135 | 240 | 0.56 |
| | | 135 | 277 | 0.49 |
| | | 135 | 347 | 0.39 |
| | | 135 | 480 | 0.28 |
| 2 | 5000 | 200 | 120 | 1.67 |
| | | 200 | 208 | 0.96 |
| | | 200 | 240 | 0.83 |
| | | 200 | 277 | 0.72 |
| | | 200 | 347 | 0.58 |
| | | 200 | 480 | 0.42 |
| 1 | 5600 | 350 | 120 | 2.92 |
| | | 350 | 208 | 1.68 |
| | | 350 | 240 | 1.46 |
| | | 350 | 277 | 1.26 |
| | | 350 | 347 | 1.01 |
| | | 350 | 480 | 0.73 |

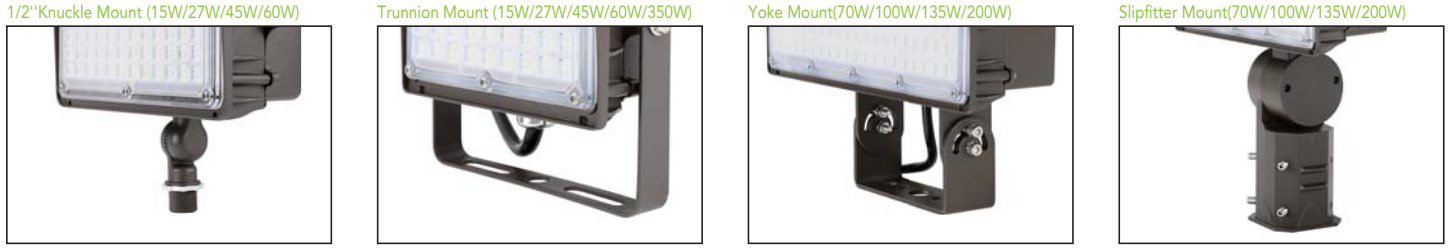
| Item |  |  |  |  |  |  |  |
|-----------|---|---|---|---|--|---|---|
| | 1 | 2 @90° | 2 @120° | 2@180° | 3 @90° | 3 @120° | 4 @90° |
| 70W/100W | 0.2885 | 0.6097 | 0.7475 | 0.577 | 0.8982 | 0.8196 | 0.8982 |
| 135W/200W | 0.3868 | 0.8125 | 0.9973 | 0.7736 | 1.1993 | 1.0874 | 1.1993 |
| 350W | 0.536 | 1.061 | 1.278 | 1.072 | 1.597 | 1.803 | 1.597 |

ORDERING GUIDE Example: MFD0845W27V50KYYYYYY

| Fixture Type | Wattage | Voltage | CCT | Dimmable | Finish | Photocell (Option) | Nema | Mounting | 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"/> | <input type="text"/> |
| MFD08 Flood Light series | 15 15W 27 27W 45 45W 60 60W 70 70W 90 90W 100 100W 135 135W 200 200W 350 350W | 27V 120-277V 48V 347-480V | 30K 3000K 40K 4000K 50K 5000K | D 1-10VDIM Blank NO DIM | D Dark Bronze B Black W White | P0 With Photocell Blank Without Photocell | B44 4Hx4V B76 7HX6V | TR Trunnion Mount KN Knuckle Mount YK Yoke SP Slipfitter Mount | Blank Alphanumeric |

Note: 1. 15W,27W,45W,60W only suitable for non dimming.
 2. 70W with dimming and non dimming options.
 3. 90W,100W,135W,200W,350W only suitable for dimming.
 4. Only 60W,70W,90W,135W,200W,350W suitable for 347-480V input valtage.
 5. Only 135W,200W,350W optional for NEMA 4Hx4V

MOUNTING



| | Power | Light Output | Efficacy | Replaces |
|-------|-------|--------------|----------|----------|
| 5000K | 15W | 2,000 lm | 133 lm/W | 50W MH |
| 5000K | 27W | 3,600 lm | 133 lm/W | 100W MH |
| 5000K | 45W | 5,650 lm | 126 lm/W | 175W MH |
| 5000K | 60W | 7,450 lm | 124 lm/W | 250W MH |
| 5000K | 70W | 8,900 lm | 127 lm/W | 250W MH |
| 5000K | 100W | 13,300 lm | 133 lm/W | 320W MH |
| 5000K | 135W | 18,000 lm | 133 lm/W | 320W MH |
| 5000K | 200W | 26,200 lm | 131 lm/W | 400W MH |
| 5000K | 350W | 50,000 lm | 143 lm/W | 1000W MH |