

Series VFD08 Floodlight



DESCRIPTION

The VFD 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 or 4H*4V(4H*4V only suitable for 135W, 200W, 250W,350W).
- Scalable Lumen Packages from 1,950 to 48,000 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.

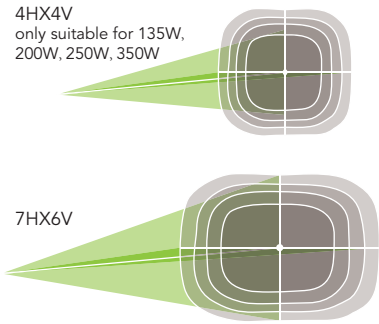
Lifespan

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

Warranty

- Five-year warranty.

PHOTOMETRICS



ACCESSORIES



Photocell

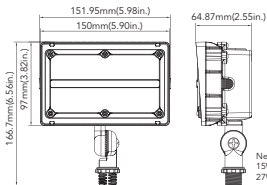
No. PC-JL-120-277V

USE: Photocell is field installed or pre-installed in factory by requesting

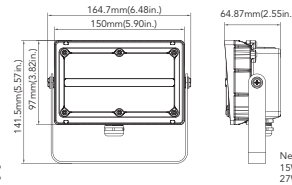
DIMENSIONS

unit: mm/inch

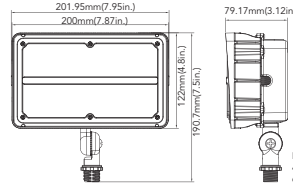
15W&27W(Knuckle Mount)



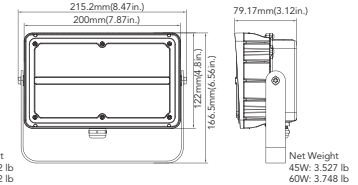
15W&27W(Trunnion Mount)



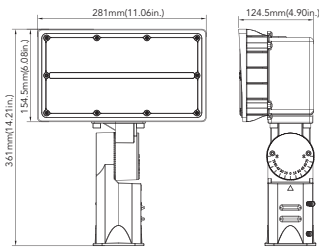
45W&60W(Knuckle Mount)



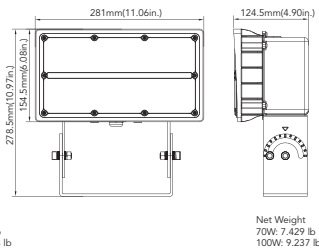
45W&60W(Trunnion Mount)



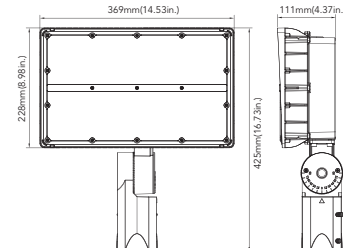
70W&100W(Slipfitter Mount)



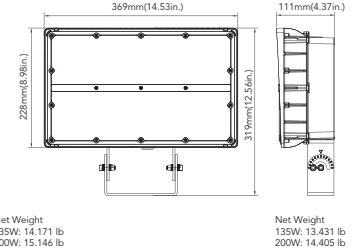
70W&100W(Yoke Mount)



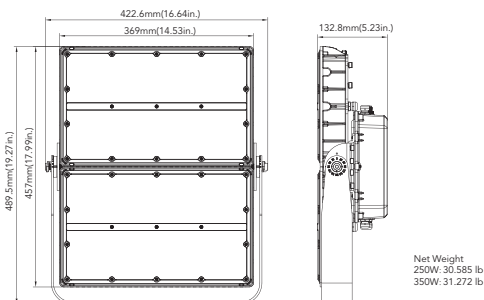
135W&200W(Slipfitter Mount)



135W&200W(Yoke Mount)



250W&350W(Trunnion Mount)








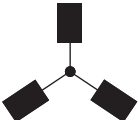
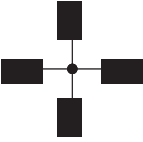
PERFORMANCE DATA

| 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/347-480V | 4Hx4V | 70 | 17500lm | 130 lm/W | 18000lm | 133 lm/W | 18000lm | 133 lm/W |
| 200W | 120-277V/347-480V | 4Hx4V | 70 | 25300lm | 127 lm/W | 26200lm | 131 lm/W | 26200lm | 131 lm/W |
| 135W | 120-277V/347-480V | 7Hx6V | 70 | 17500lm | 130 lm/W | 18000lm | 133 lm/W | 18000lm | 133 lm/W |
| 200W | 120-277V/347-480V | 7Hx6V | 70 | 25300lm | 127 lm/W | 26200lm | 131 lm/W | 26200lm | 131 lm/W |
| 250W | 120-277V/347-480V | 4Hx4V | 70 | 33700lm | 135 lm/W | 34500lm | 138lm/W | 34500lm | 138lm/W |
| 250W | 120-277V/347-480V | 7Hx6V | 70 | 33700lm | 135 lm/W | 34500lm | 138lm/W | 34500lm | 138lm/W |
| 350W | 120-277V/347-480V | 4Hx4V | 70 | 46900lm | 134 lm/W | 48000lm | 137 lm/W | 48000lm | 137 lm/W |
| 350W | 120-277V/347-480V | 7Hx6V | 70 | 46900lm | 134 lm/W | 48000lm | 137 lm/W | 48000lm | 137 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 |
| | | 27 | 277 | 0.10 |
| 1 | 770 | 45 | 120 | 0.38 |
| | | 45 | 208 | 0.22 |
| | | 45 | 240 | 0.19 |
| | | 45 | 277 | 0.16 |
| 1 | 920 | 60 | 120 | 0.50 |
| | | 60 | 208 | 0.29 |
| | | 60 | 240 | 0.25 |
| | | 60 | 277 | 0.22 |
| 1 | 1600 | 60 | 347 | 0.17 |
| | | 60 | 480 | 0.13 |
| 1 | 1750 | 70 | 120 | 0.58 |
| | | 70 | 208 | 0.34 |
| | | 70 | 240 | 0.29 |
| | | 70 | 277 | 0.25 |
| 1 | 1850 | 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 | 6500 | 250 | 120 | 2.08 |
| | | 250 | 208 | 1.20 |
| | | 250 | 240 | 1.04 |
| | | 250 | 277 | 0.90 |
| | | 250 | 347 | 0.72 |
| 1 | 5600 | 250 | 480 | 0.52 |
| | | 350 | 120 | 2.92 |
| | | 350 | 208 | 1.68 |
| | | 350 | 240 | 1.46 |
| | | 350 | 277 | 1.26 |
| | | 350 | 347 | 1.01 |
| 1 | 5600 | 350 | 480 | 0.73 |

EPA

| 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 |
| 250W/350W | 0.536 | 1.061 | 1.278 | 1.072 | 1.597 | 1.803 | 1.597 |

ORDERING GUIDE

Example: MFD0845W27V50KYYYYYY

| Fixture Type <input type="text"/> | Wattage <input type="text"/> | Voltage <input type="text"/> | CCT <input type="text"/> | Dimmable <input type="text"/> | Finish <input type="text"/> | Photocell (Option) <input type="text"/> | Nema <input type="text"/> | Mounting <input type="text"/> | Internal Code <input type="text"/> |
|--------------------------------------|---|--|--|--|--|--|--------------------------------------|---|---------------------------------------|
| VFD08 Flood Light series | 15 15W 27 27W 45 45W 60 60W 70 70W 90 90W 100 100W 135 135W 200 200W 250 250W 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 | B76 7HX6V B44 4HX4V | 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,250W,350W only suitable for dimming.
 4. Only 60W,70W,90W,135W,200W,250W,350W suitable for 347-480V input voltage.
 5. 4H*4V only suitable for 135W, 200W, 250W, 350W

MOUNTING

1/2" Knuckle Mount (15W/27W/45W/60W)



Trunnion Mount (15W/27W/45W/60W/250W/350W)



Yoke Mount (70W/100W/135W/200W)



Slipfitter Mount (70W/100W/135W/200W)

