



# FLOOD LIGHT(FD08)

## DESCRIPTION

The FD08 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.



15W&27W



70W&100W



135W&200W



250W&350W



45W&60W



## 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

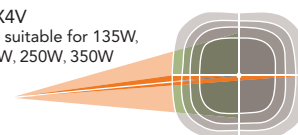
- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### Warranty

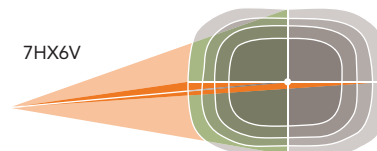
- Five-year warranty.

### PHOTOMETRICS

4HX4V  
only suitable for 135W,  
200W, 250W, 350W



7HX6V



### ACCESSORIES



#### Photocell

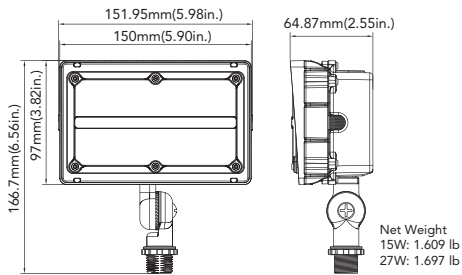
No. PC-JL-120-277V

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

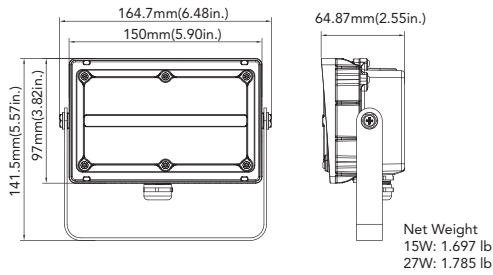
DIMENSIONS

unit: mm/inch

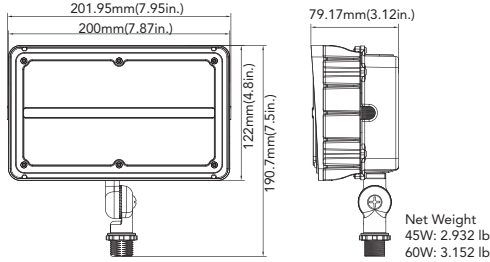
15W&27W(Knuckle Mount)



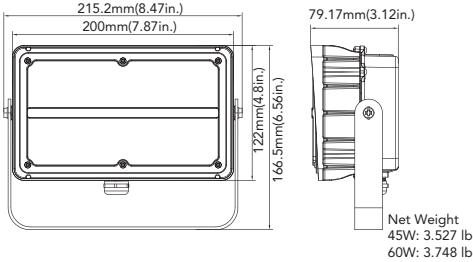
15W&27W( Trunnion Mount)



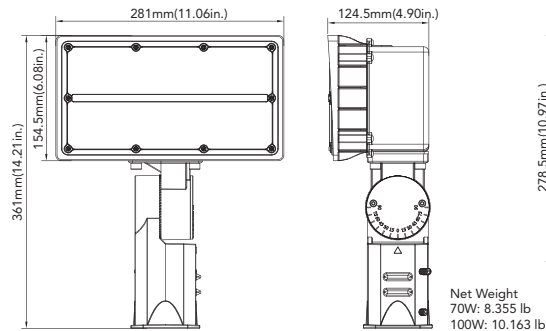
45W&60W( Knuckle Mount)



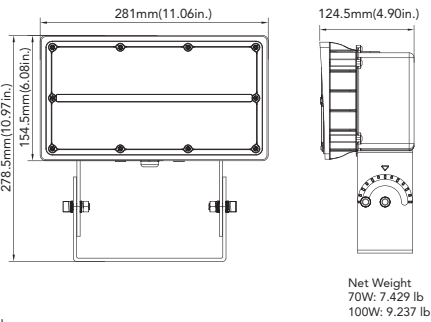
45W&60W( Trunnion Mount)



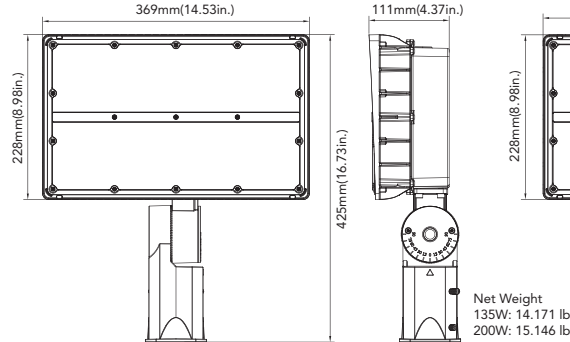
70W&100W(Slipfitter Mount)



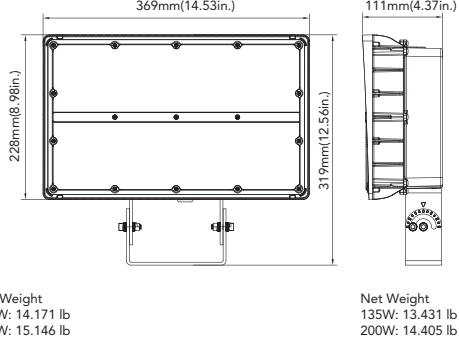
70W&100W( Yoke Mount)



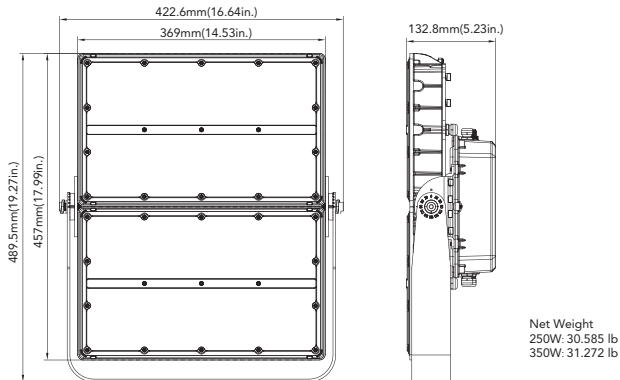
135W&200W(Slipfitter Mount)



135W&200W( Yoke Mount)



250W&350W( Trunnion Mount)



PERFORMANCE DATA

| SYSTEM WATTS | VOLTAGE           | DIST.TYPE | CRI | LUMENS<br>(3000K) | LPW<br>(3000K) | LUMENS<br>(4000K) | LPW<br>(4000K) | LUMENS<br>(5000K) | LPW<br>(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<br>Of Drivers | Driver Current<br>(mA) | Nominal Power<br>(W) | INPUT VOLTAGE<br>(V) | CURRENT<br>(Amps) |
|----------------------|------------------------|----------------------|----------------------|-------------------|
| 1                    | 0 5 2                  | 5 1                  | 0 2 1                | 3 1 . 0           |
|                      |                        | 5 1                  | 8 0 2                | 7 0 . 0           |
|                      |                        | 5 1                  | 0 4 2                | 6 0 . 0           |
|                      |                        | 5 1                  | 7 7 2                | 5 0 . 0           |
| 1                    | 0 3 4                  | 7 2                  | 0 2 1                | 3 2 . 0           |
|                      |                        | 7 2                  | 8 0 2                | 3 1 . 0           |
|                      |                        | 7 2                  | 0 4 2                | 1 1 . 0           |
|                      |                        | 7 2                  | 7 7 2                | 0 1 . 0           |
| 1                    | 0 7 7                  | 5 4                  | 0 2 1                | 8 3 . 0           |
|                      |                        | 5 4                  | 8 0 2                | 2 2 . 0           |
|                      |                        | 5 4                  | 0 4 2                | 9 1 . 0           |
|                      |                        | 5 4                  | 7 7 2                | 6 1 . 0           |
| 1                    | 0 2 9                  | 0 6                  | 0 2 1                | 0 5 . 0           |
|                      |                        | 0 6                  | 8 0 2                | 9 2 . 0           |
|                      |                        | 0 6                  | 0 4 2                | 5 2 . 0           |
|                      |                        | 0 6                  | 7 7 2                | 2 2 . 0           |
| 1                    | 1600                   | 0 6                  | 7 4 3                | 7 1 . 0           |
|                      |                        | 0 6                  | 0 8 4                | 3 1 . 0           |
| 1                    | 0 5 7 1                | 0 7                  | 0 2 1                | 8 5 . 0           |
|                      |                        | 0 7                  | 8 0 2                | 4 3 . 0           |
|                      |                        | 0 7                  | 0 4 2                | 9 2 . 0           |
|                      |                        | 0 7                  | 7 7 2                | 5 2 . 0           |
| 1                    | 1850                   | 0 7                  | 7 4 3                | 0 2 . 0           |
|                      |                        | 0 7                  | 0 8 4                | 5 1 . 0           |
| 1                    | 0 0 6 2                | 0 0 1                | 0 2 1                | 3 8 . 0           |
|                      |                        | 0 0 1                | 8 0 2                | 8 4 . 0           |
|                      |                        | 0 0 1                | 0 4 2                | 2 4 . 0           |
|                      |                        | 0 0 1                | 7 7 2                | 6 3 . 0           |
| 2                    | 0 0 4 2                | 0 9                  | 7 4 3                | 6 2 . 0           |
|                      |                        | 0 9                  | 0 8 4                | 9 1 . 0           |
| 2                    | 0 0 5 3                | 5 3 1                | 0 2 1                | 3 1 . 1           |
|                      |                        | 5 3 1                | 8 0 2                | 5 6 . 0           |
|                      |                        | 5 3 1                | 0 4 2                | 6 5 . 0           |
|                      |                        | 5 3 1                | 7 7 2                | 9 4 . 0           |
|                      |                        | 5 3 1                | 7 4 3                | 9 3 . 0           |
| 2                    | 0 0 0 5                | 5 3 1                | 0 8 4                | 8 2 . 0           |
|                      |                        | 0 0 2                | 0 2 1                | 7 6 . 1           |
|                      |                        | 0 0 2                | 8 0 2                | 6 9 . 0           |
|                      |                        | 0 0 2                | 0 4 2                | 3 8 . 0           |
|                      |                        | 0 0 2                | 7 7 2                | 2 7 . 0           |
| 1                    | 0 0 5 6                | 0 0 2                | 7 4 3                | 8 5 . 0           |
|                      |                        | 0 0 2                | 4 0 8                | 2 4 . 0           |
|                      |                        | 0 5 2                | 0 2 1                | 8 0 . 2           |
|                      |                        | 0 5 2                | 8 0 2                | 0 2 . 1           |
|                      |                        | 0 5 2                | 0 4 2                | 4 0 . 1           |
| 1                    | 0 0 6 5                | 0 5 2                | 7 7 2                | 0 9 . 0           |
|                      |                        | 0 5 2                | 7 4 3                | 2 7 . 0           |
|                      |                        | 0 5 2                | 0 8 4                | 2 5 . 0           |
|                      |                        | 0 5 3                | 0 2 1                | 2 9 . 2           |
|                      |                        | 0 5 3                | 8 0 2                | 8 6 . 1           |
| 1                    | 0 0 6 5                | 0 5 3                | 0 4 2                | 6 4 . 1           |
|                      |                        | 0 5 3                | 7 7 2                | 6 2 . 1           |
|                      |                        | 0 5 3                | 7 4 3                | 1 0 . 1           |
|                      |                        | 0 5 3                | 0 8 4                | 3 7 . 0           |

| 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: AO-FD08-15-LV-XXK-Y-Y-Y-Y-Y

| Fixture Type                      | Wattage                                                                                                                                                                                           | Voltage                                  | CCT                                                      | Dimmable                                 | Finish                                                   | Photocell (Option)                                         | Nema                                 | Mounting                                                                                            | Internal Code                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------|------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------|
| AO- <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"/>                |
| <b>FD08</b><br>Flood Light Series | <b>15</b> 15W<br><b>27</b> 27W<br><b>45</b> 45W<br><b>60</b> 60W<br><b>70</b> 70W<br><b>90</b> 90W<br><b>100</b> 100W<br><b>135</b> 135W<br><b>200</b> 200W<br><b>250</b> 250W<br><b>350</b> 350W | <b>LV</b> 120-277V<br><b>HV</b> 347-480V | <b>30K</b> 3000K<br><b>40K</b> 4000K<br><b>50K</b> 5000K | <b>D</b> 1-10VDIM<br><b>Blank</b> NO DIM | <b>D</b> Dark Bronze<br><b>B</b> Black<br><b>W</b> White | <b>P0</b> With Photocell<br><b>Blank</b> Without Photocell | <b>B76</b> 7HX6V<br><b>B44</b> 4Hx4V | <b>TR</b> Trunnion Mount<br><b>KN</b> Knuckle Mount<br><b>YK</b> Yoke<br><b>SP</b> Slipfitter Mount | <b>Blank</b><br><b>Alphanumeric</b> |

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)

