

# FLOOD LIGHT(MFD11)



## DESCRIPTION

MFD11 aims to provide customers with an economical, efficient, flexible and long-life floodlight. The low-profile and stylish exterior design can be well integrated into various architectural environments. Available in three sizes and multiple lumen packages from 15W-120W, this product also achieve up to 161lm/W efficiency. At the same time, it takes into account the functions of light control, CCT & Power adjustable, which can save energy to the greatest extent and facilitate customer stocking. Reliable IP65 structural design, MFD11 is very suitable for general flood lighting of courtyards, driveways, buildings, billboards, etc.

## SPECIFICATION FEATURES

### Construction

- Die-cast aluminum optimize the best heat dissipation management as the main part of the fixture, which effectively improves the LED efficiency.
- Durable surface coating powder spraying and fully sealed tempered glass can extend the durability of the fixture.

### Optics

- Optics(NEMA Type): 7Hx7V.
- Scalable Lumen Packages from 2,050 to 19,000 Lumens.
- The use of advanced refraction and reflection optical design concepts provides an optimal combination of vertical and horizontal illumination.
- The heat-resistant and impact-resistant toughened glass maximizes light extraction while obtaining a great night appearance.

### LED Module

- Light engines are available in color tunable version, the CCT can be changed to 3000K/4000K/5000K.

### Electrical

- Universal 120-277 VAC input voltage.
- 1-10V dimming.
- Both drivers have a power factor >90%, THD <20%.
- Operating Temperature Range: -40°C - + 40°C (-40°F - + 104°F).

### Control

- Photocell option.

### Installation

- 1/2" NPS Knuckle, Slipfitter, Trunnion and Yoke are all available.

### Certifications

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

### Lifespan

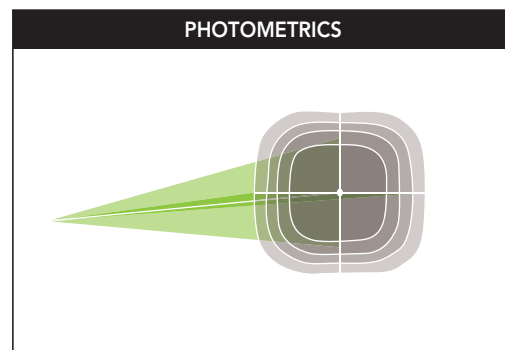
- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

### Warranty

- Five-year warranty.

### 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.



## STRUCTURAL DESIGN



### Photocell (Option)

Optional photocell allows for security and energy saving

### Optics

A high-reflective white reflector and tempered glass are used to shape the 7Hx7V light type. At the same time, the integrated visor that comes with the cover can reduce glare very well.

### Mounting

MFD11 have a powerful 1/2 NPS knuckle mount, and also available with either a slipfitter or yoke(trunnion) mount.



### Housing

One-piece die-cast aluminum housing with optimal thermal management both enhances LED efficacy and extends fixture's life.

### Power and CCT controller

The wattage and CCT can be changed by switch selection on the controller, it easy and very fast to meet the varied requirements.



## PERFORMANCE DATA

| SYSTEM WATTS | VOLTAGE  | DIST.TYPE | CRI | LUMENS (3000K) | LPW (3000K) | LUMENS (4000K) | LPW (4000K) | LUMENS (5000K) | LPW (5000K) |
|--------------|----------|-----------|-----|----------------|-------------|----------------|-------------|----------------|-------------|
| 15W          | 120-277V | 7Hx7V     | 70  | 2050lm         | 137 lm/W    | 2300lm         | 153 lm/W    | 2100lm         | 140 lm/W    |
| 27W          | 120-277V | 7Hx7V     | 70  | 3500lm         | 130 lm/W    | 3800lm         | 141 lm/W    | 3600lm         | 133 lm/W    |
| 40W          | 120-277V | 7Hx7V     | 70  | 5700lm         | 143 lm/W    | 6000lm         | 150 lm/W    | 5800lm         | 145 lm/W    |
| 65W          | 120-277V | 7Hx7V     | 70  | 9200lm         | 142 lm/W    | 9700lm         | 149 lm/W    | 9400lm         | 145 lm/W    |
| 90W          | 120-277V | 7Hx7V     | 70  | 13400lm        | 149 lm/W    | 14500lm        | 161 lm/W    | 13500lm        | 150 lm/W    |
| 120W         | 120-277V | 7Hx7V     | 70  | 17500lm        | 146 lm/W    | 19000lm        | 158 lm/W    | 18000lm        | 150 lm/W    |

## ADJUSTABLE LUMEN OUTPUT TABLE

| SETTING | 15W          |                | 27W          |                | 40W          |                | 65W          |                | 90W          |                | 120W         |                |
|---------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
|         | SYSTEM WATTS | LUMENS (5000K) | SYSTEM WATTS | LUMENS (5000K) | SYSTEM WATTS | LUMENS (5000K) | SYSTEM WATTS | LUMENS (5000K) | SYSTEM WATTS | LUMENS (5000K) | SYSTEM WATTS | LUMENS (5000K) |
| 100%    | 16.3         | 2266           | 27.23        | 3672           | 39.9         | 5846           | 65.5         | 9438           | 94.35        | 13982          | 122.9        | 18092          |
| 80%     | 12.63        | 1790           | 20.4         | 2856           | 29.5         | 4542           | 54.3         | 7824           | 67.9         | 10535          | 98.82        | 15119          |
| 60%     | 10.02        | 1455           | 15.52        | 2234           | 21.94        | 3356           | 41.2         | 5937           | 50.9         | 8144           | 71.28        | 11206          |
| 40%     | 6.15         | 943            | 11.4         | 1690           | 14.3         | 2327           | 27.5         | 3963           | 33           | 5490           | 52.8         | 8581           |

## ELECTRICAL DATA

| Number Of Drivers | Driver Current (mA) | Nominal Power (W) | INPUT VOLTAGE (V) | CURRENT (Amps) |
|-------------------|---------------------|-------------------|-------------------|----------------|
| 1                 | 230                 | 15                | 120               | 0.13           |
|                   |                     | 15                | 208               | 0.07           |
|                   |                     | 15                | 240               | 0.06           |
|                   |                     | 15                | 277               | 0.05           |
| 1                 | 450                 | 27                | 120               | 0.23           |
|                   |                     | 27                | 208               | 0.13           |
|                   |                     | 27                | 240               | 0.11           |
|                   |                     | 27                | 277               | 0.10           |
| 1                 | 680                 | 40                | 120               | 0.33           |
|                   |                     | 40                | 208               | 0.19           |
|                   |                     | 40                | 240               | 0.17           |
|                   |                     | 40                | 277               | 0.14           |
| 1                 | 980                 | 65                | 120               | 0.54           |
|                   |                     | 65                | 208               | 0.31           |
|                   |                     | 65                | 240               | 0.27           |
|                   |                     | 65                | 277               | 0.23           |
| 1                 | 730                 | 90                | 120               | 0.75           |
|                   |                     | 90                | 208               | 0.43           |
|                   |                     | 90                | 240               | 0.38           |
|                   |                     | 90                | 277               | 0.32           |
| 1                 | 960                 | 120               | 120               | 1.00           |
|                   |                     | 120               | 208               | 0.58           |
|                   |                     | 120               | 240               | 0.50           |
|                   |                     | 120               | 277               | 0.43           |

# MOUNTING

1/2" Knuckle Mount(15W/27W/40W/65W)



Trunnion Mount(15W/27W/40W/65W)



Slipfitter Mount(90W/120W)



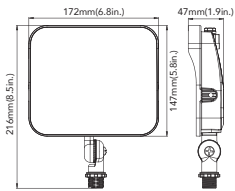
Yoke Mount(90W/120W)



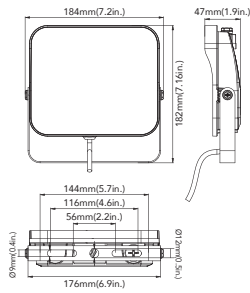
# DIMENSIONS

unit: mm/inch

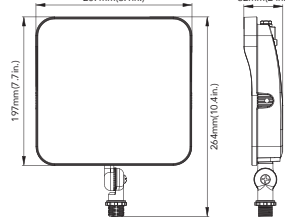
15W&27W(Knuckle Mount)



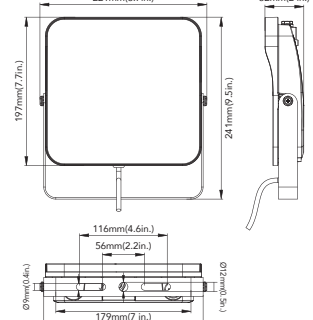
15W&27W(Trunnion Mount)



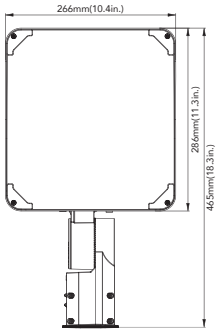
40W&65W(Knuckle Mount)



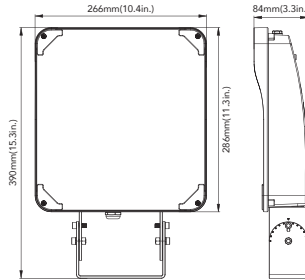
40W&65W(Trunnion Mount)



90W&120W(Slipfitter Mount)



90W&120W(Yoke Mount)



# ORDERING GUIDE

Example:MFD1140W27VDDKYYYYY

| Fixture Type                | Wattage  | Voltage      | CCT  | Finish                              | Photocell (Option)                                | Mounting  | Nema      | Internal Code         |
|-----------------------------|--|--------------|--|-------------------------------------|---|---|-----------|-----------------------|
| MFD11<br>Flood Light series | 15 15W<br>27 27W<br>40 40W<br>65 65W<br>90 90W<br>120 120W | 27V 120-277V | DDK <sup>3</sup><br>Adjustable<br>color<br>temperature | D Dark Bronze<br>B Black<br>W White | P<br>With Photocell<br>Blank<br>Without Photocell | TR <sup>1</sup> Trunnion<br>KN <sup>1</sup> Knuckle<br>YK <sup>2</sup> Yoke<br>SP <sup>2</sup> Slipfitter | B77 7Hx7V | Blank<br>Alphanumeric |

Note: 1. 15W,27W,40W,65W only suitable for knuckle and trunnion.  
2. 90W,120W only suitable for slipfitter and yoke.  
3. CCT Adjustable (3000K/4000K/5000K).