**PHOENIX**®
*DURABILITY X DESIGN*™

Introducing the third generation of the proven EcoMod® Series

Expertly engineered with durable, marine grade components and various optic options

Numerous bracket options to easily retrofit to existing hole patterns

Custom designed, high temperature optics improve safety, increase efficiency and maximize operator comfort

## Key Applications

- Ship-to-Shore (STS) cranes
- Rubber Tired Gantry (RTG) cranes
- Mobile harbor cranes (MHC)
- Interior and exterior uplighting
- Facility and perimeter lighting
- Deck flood lighting
- Airport hangars
- Overhead cranes
- Bridges and parking lots
- Aft wheelhouse lighting
- Vessel perimeter lighting

## Designed to Meet

ETL/cETL Certified to:
- UL 1598 Suitable for Wet Locations
- UL 1598A Marine Outside Type (Saltwater)
- CSA C22.2 No. 250.0

CE
IP66
ABS
DLC (contact factory)
LM79 and LM80 reports available

## Specifications

| | |
|---|---|
| **Construction** | Marine grade, powder coated cast aluminum housing<br>Adjustable powder coated steel mounting harp |
| **Finish** | Black thermoset powder coat 2-step finish |
| **Hardware** | Marine grade (316) stainless steel |

## Specifications

| | |
|---|---|
| **Lens** | Clear, tempered glass |
| **Surge protection** | 20kV (20kA) |
| **Light source** | Up to 121W (LO), up to 231W (HI), up to 438W (MAX)<br>Up to 15,000 lumens (LO)<br>Up to 30,000 lumens (HI)<br>Up to 52,500 lumens (MAX)<br>Cool white 5000K (50K), neutral white 4000K (40K), warm white 2700K (27K) LED options<br>CRI > 70<br>50,000 hour rated life |
| **Power source** | 120-277V, 50-60Hz; 277-480V, 50-60Hz<br>Overload, over-voltage, over-temperature and short-circuit protection<br>0-10V dimming option (DIM) |
| **Wiring** | Stranded wires<br>17 gauge, 3 conductor cord - 72.00 inch (1829 mm) with pigtail - standard<br>Through wire optional (TW) (no cord provided)<br>Standard cord grip 0.37 inch - 0.50 inch (9.5 mm - 12.7 mm) |
| **Ambient operating temperature** | -40°C to + 60°C (LO & HI models)<br>-40°C to + 50°C (MAX model) |
| **Mounting** | Indexed aiming and lockable in 5° increments<br>Boom mount kit (sold separately) |
| **Vibration** | 6G at resonant frequency |
| **Weight** | LO - 31.0 lb (14.1 kg)<br>HI - 39.6 lb (18.0 kg)<br>MAX - 49.2 lb (22.3 kg) |
| **Safety cable** | Safety cable included |
| **Warranty** | 5 years |

*Buy American Act Compliant*

**This product complies with domestic preference requirements such as BAA or TAA.**
*For additional information, visit phoenixlighting.com or consult your representative.*

*For IES files, see website or contact factory*

# EcoMod® 3 Series

Heavy Duty LED Floodlight

## Dimensions

### LO Model



9.62 in (244 mm)
18.64 in (473 mm)



11.76 in (299 mm)

### HI Model



12.72 in (323 mm)
18.64 in (473 mm)



11.92 in (303 mm)

### MAX Model



12.72 in (323 mm)
25.53 in (648 mm)



13.22 in (336 mm)

### LO Model



16.33 in (415 mm)
5.98 in (152 mm)
2.99 in (76 mm)
4.50 in (114 mm)
20°
0.56 in (14.2 mm)    0.56 in (14.2 mm)

### HI Model



20.13 in (511 mm)
15.00 in (381 mm)
5.98 in (152 mm)
4.50 in (114 mm)
16°
0.56 in (14.2 mm)    0.56 in (14.2 mm)

### MAX Model



23.73 in (603 mm)
18.00 in (457 mm)
9.00 in (229 mm)
5.44 in (138 mm)
16°
0.56 in (14.2 mm)    0.56 in (14.2 mm)
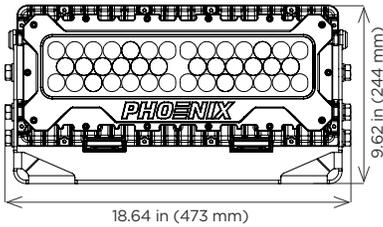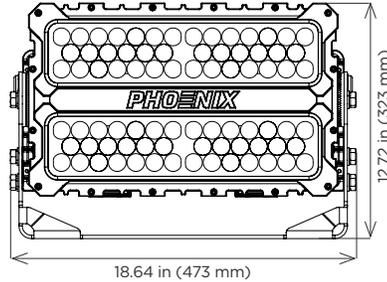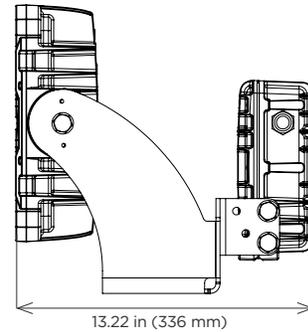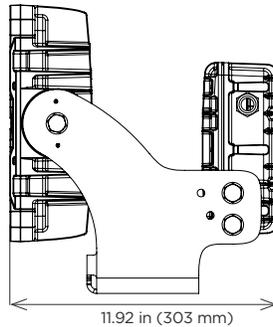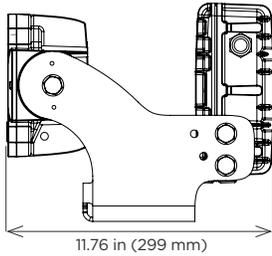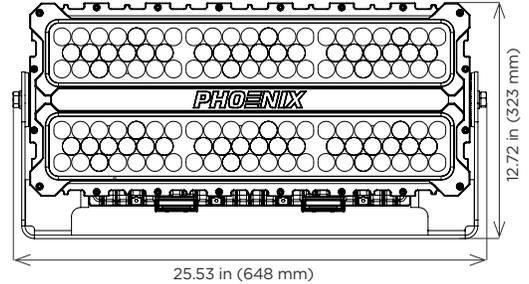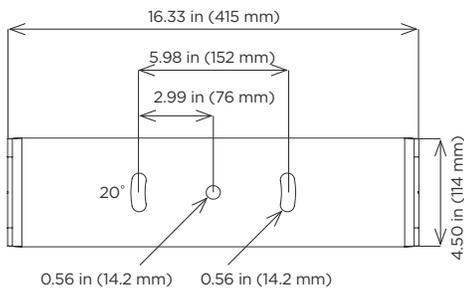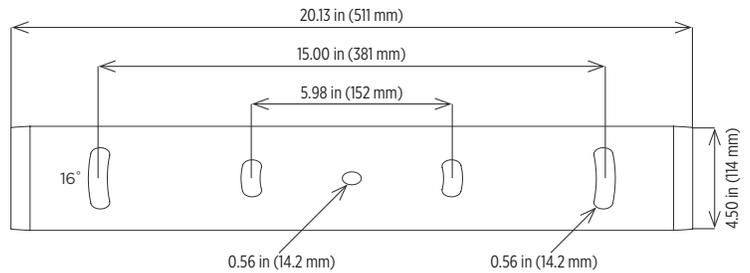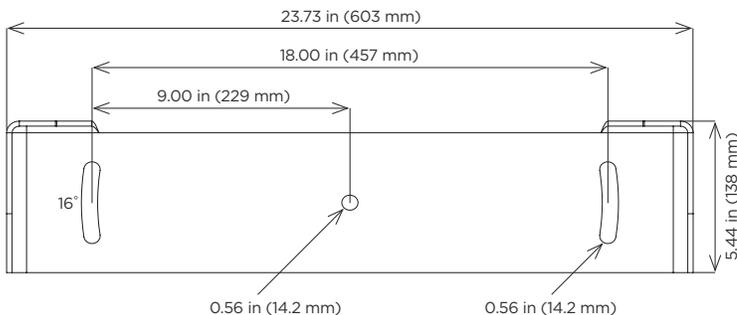
# EcoMod® 3 Series

Heavy Duty LED Floodlight

## Ordering Information

**Example:** EM3-HI-MF-120-277-50K-DIM

| Fixture | Model | Optic | Voltage | Color Temperature | Options | Alternative Brackets |
|---------|-------|-------|---------|-------------------|---------|----------------------|
| EM3 | LO | WF | 120-277 | 50K | DIM[2] | B1[1] |
|  | HI | MF | 277-480 | 40K[1] | TW[2] | B2[1] |
|  | MAX | WS |  | 27K[1] |  |  |
|  |  | SP |  |  |  |  |
|  |  | NS |  |  |  |  |
|  |  | VS |  |  |  |  |
|  |  | NG |  |  |  |  |

**Model**

| LO | up to 121W |
|----|-----------|
| HI | up to 231W |
| MAX | up to 438W |

**Optic**

| WF | Wide flood |
|----|-----------|
| MF | Medium flood |
| WS | Wide spot |
| SP | Spot |
| NS | Narrow spot |
| VS | Very narrow spot |
| NG | No-glare/ perimeter |

**Voltage**

| 120-277 | 120-277V, 50-60Hz |
|---------|-------------------|
| 277-480 | 277-480V, 50-60Hz |

**Color Temperature**

| 50K | Cool white 5000K LEDs |
|-----|-----------------------|
| 40K[1] | Neutral white 4000K LEDs |
| 27K[1] | Warm white 2700K LEDs |

**Options**

| DIM[2] | Dimmable (0-10V) |
|--------|------------------|
| TW[2] | Through wire |

**Alternative Brackets**

| B1[1] | Alternative bracket 1 |
|-------|-----------------------|
| B2[1] | Alternative bracket 2 |

**Notes**

1   Contact factory for availability/more information
2   DIM & TW are not available together

**Special Projects:** We may be able to accommodate your special projects, so please don't hesitate to ask about additional options. Minimum order quantities and/or extended lead times will apply. Contact your Phoenix representative with specific inquiries.

## Accessories (order separately)
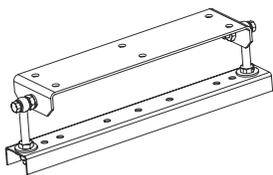


**Boom Mount Kit**

BMK-LO/HI (LO & HI models only)
BMK-MAX (MAX models only)
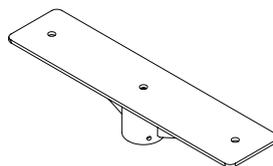


**2 ¾ inch Tenon Mount**

PTM-LO/HI (LO & HI models only)
PTM-MAX (MAX models only)

Product design and specifications are subject to change without notice. The most current version of this specification sheet can be found at www.phoenixlighting.com.