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**Key Applications** 

Maritime Applications:

Industrial Applications:

Dry Dock Lighting

Compliances

CE IP66 ABS

ETL/cETL Certified to:

DLC (contact factory)

Specifications

Construction

Finish

Power

source

Hardware

UL 1598 Suitable for Wet LocationsUL 1598A Marine Outside Type (Saltwater)

aluminum housing

replaceable

short-circuit protection 0-10V dimming option (DIM)

CSA C22.2 No. 250.0 equivalent

Port Applications:

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Rubber Tyred Gantry Cranes (RTG) • Ship-to-Shore Gantry Cranes (STS) • Mobile Harbor Cranes (MHC) • Rail Mounted Gantry Cranes (RMG) • Automated Stacking Cranes (ASC)

Perimeter Lighting • Aft Wheelhouse Lighting • Aft Deck Rails • Bulwark Lighting • Cranes • Maintenance Hangars • High Bays •

Exterior Perimeter Lighting • Gymnasiums • Workshops • Flag Lighting • Stadium Lighting • Tunnel Lighting • Bridge Lighting

2.0

18111118111 118111

# EcoMod<sup>®</sup> 2 Series

# Heavy Duty LED Floodlight



Introducing the next generation of the proven EcoMod® Series

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

Numerous bracket options

LED technology increases efficiency, eliminates maintenance and supports green initiatives

# Specifications

Lens	Clear, tempered glass					
Surge protection	4kV line to line; 2kV line to earth					
Light source	Up to 125W (140), up to 240W (280), and up to 355W (420) - V2 Up to 14,000 lumens (140), up to 28,000 lumens (280), and up to 42,000 lumens (420) Cool white LEDs - standard Neutral white LEDs (NW) and warm white LEDs (WW) - optional CRI > 70 (CW) 50,000 hour rated life					
Wiring	Stranded wires 17 gauge, 3 conductor cord - 72 inch (1829 mm) standard (CE and UL approved) Through wire optional (TW) (no cord provided) Standard cord grip 0.37 inch - 0.50 inch (9.5 mm - 12.7 mm)					
Ambient operating temperature	-40°C to + 50°C Designed for use in areas allowing air flow					
Mounting	360° harp rotation Indexed aiming and lockable in 5° increments Various mounting kits available (order separately)					
Vibration	Meets requirements of ANSI C136.31-2010 Up to 6G for 100,000 cycles					
EPA (wind load)	140 model - 2.1 sq. ft. (0.2 m <sup>2</sup> ) 280 model - 2.6 sq. ft. (0.2 m <sup>2</sup> ) 420 model - 3.3 sq. ft. (0.3 m <sup>2</sup> )					
Weight	140 model - 23.2 lb (10.5 kg) 280 model - 32.2 lb (14.6 kg) 420 model - 54 lb (24.5 kg)					
Safety cable	Safety cable included					
Warranty	5 years					



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

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

Overload, over-voltage, over-temperature and

Marine grade, anodized and powder coated cast

Adjustable powder coated steel mounting harp

Black thermoset powder coat finish

Marine grade (316) stainless steel

# Phoenix Lighting8711 West Port AvenueMilwaukee, WI 53224 USAPhone: +1 414.973.3300Toll Free: 800.438.1214www.phoenixlighting.com

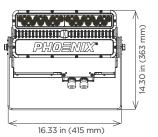
# EcoMod<sup>®</sup> 2 Series

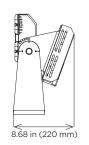
Heavy Duty LED Floodlight



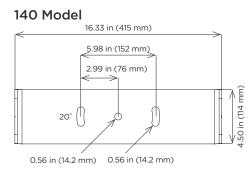
# Dimensions

### 140 Model

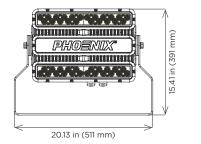


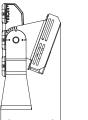


# **Standard Bracket Dimensions**



#### 280 Model

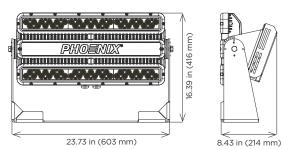




8.68 in (220 mm)

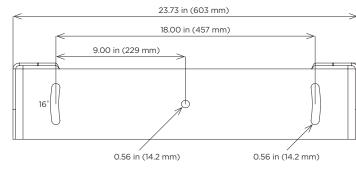
# 20.13 in (511 mm) 15.00 in (381 mm) 5.98 in (152 mm) 16° 0.56 in (14.2 mm) 0.56 in (14.2 mm)

#### 420 Model



420 Model

280 Model

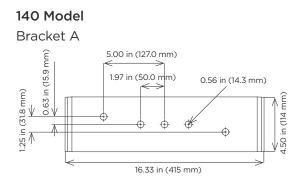


5.44 in (138 mm)



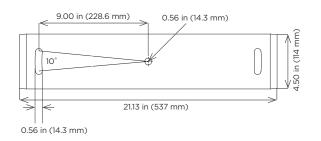
Heavy Duty LED Floodlight

# **Alternative Bracket Dimensions**



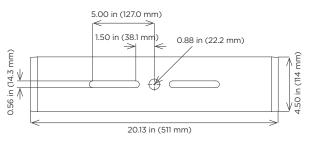
#### 280 Model

Bracket A



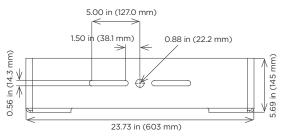
# 280 Model

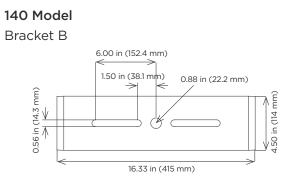
#### Bracket C



#### 420 Model

#### Bracket B





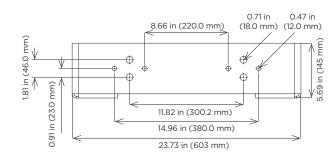
### 280 Model

Bracket B

# 8.00 in (203.2 mm) 5.00 in (127.0 mm) 5.00 in (127.0 mm) 950 20.13 in (511 mm)

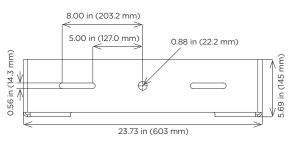
### 420 Model

Bracket A



#### 420 Model

Bracket C



# EcoMod<sup>®</sup> 2 Series

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# **Ordering Information**

Example: EM2-280-MF-120-277-V2

Fixture	Model	Optic	Voltage	Options	Alternative Brackets	Generation
EM2	140	WF	120-277	DIM <sup>2</sup>	BRKA	V2
	280	MF	277-480	WW <sup>1,3</sup>	BRKB <sup>4</sup>	
	420	WS		NW <sup>3</sup>	BRKC	
		SP		TW <sup>2</sup>		
		NS		DLC <sup>1</sup>		
		VS				

Model	Optic	Voltage		Options		Alternat		Generation
<ul> <li>140 up to 125W</li> <li>280 up to 240W</li> <li>420 up to 355W</li> </ul>	WF Wide flo MF Medium WS Wide sp SP Spot NS Narrow VS Very nar spot	flood ot 277-480 spot	120-277V, 50-60Hz 277-480V, 50-60Hz	DIM <sup>2</sup> WW <sup>1, 3</sup> NW <sup>3</sup> TW <sup>2</sup> DLC <sup>1</sup>	Dimmable (0-10V) Warm white Neutral white Through wire DLC certified	Brackets BRKA BRKB <sup>4</sup> BRKC	s Mounting bracket A Mounting bracket B Mounting bracket C	V2 Version 2

#### Notes

Contact factory for availability 1

2 DIM & TW are not available together

3 Cool white LEDs - standard

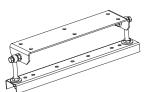
Must order BRKB bracket on EM2-140 and EM2-280 when using with 2<sup>3</sup>/<sub>4</sub> inch Tenon Mount (PTM-MC2) 4

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.

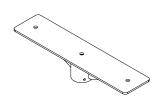
#### **Inrush Current**

Model	Voltage	Inrush (i)	Duration
140	120-277	55A	0.9ms
140	277-480	50A	0.5ms
280	120-277	70A	1.2ms
280	277-480	50A	0.92ms
420	120-277	75A	0.7ms
420	277-480	50A	0.5ms

#### Accessories (order separately)



**Boom Mount Kit** BMK-LO/HI/MAX,MC2/ MC3/EM2/EM3 (for use with standard mounting bracket)



2 <sup>3</sup>⁄<sub>4</sub> inch Tenon Mount

PTM-MC2 (140 & 280 fixtures)1

PTM-MAX420 (420 fixture)

## Notes

1 Compatible with EM2-140-BRKB and EM2-280-BRKB 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.