



**PHOENIX**<sup>®</sup>  
DURABILITY X DESIGN™

# EcoMod<sup>®</sup> 2 Series

Heavy Duty LED Floodlight

Patents Pending

Introducing the next generation of the proven EcoMod<sup>®</sup> Series  
Expertly engineered with durable, marine grade components and six optic options

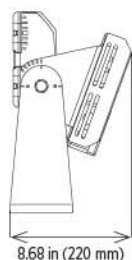
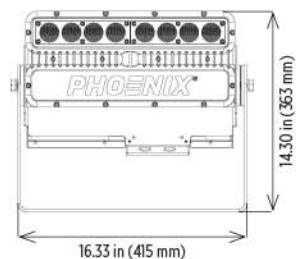
Numerous bracket options

LED technology increases efficiency, eliminates maintenance and supports green initiatives

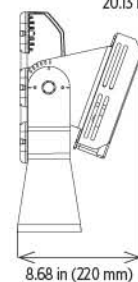
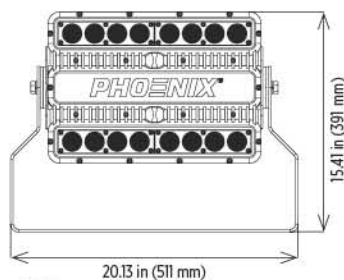


## Dimensions

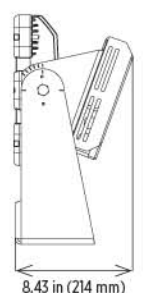
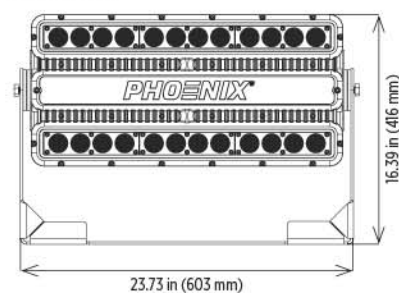
140 Model



280 Model



420 Model



### Specifications

<b>Construction</b>	Marine grade, powder coated cast aluminum housing Adjustable powder coated steel mounting harp
<b>Finish</b>	Black thermoset powder coat finish
<b>Hardware</b>	Marine grade (316) stainless steel
<b>Lens</b>	Clear, tempered glass
<b>Light source</b>	Cree XHP light emitting diodes (LED) 140, up to 15,900 lumens 280, up to 31,800 lumens 420, up to 47,700 lumens CRI > 70 Cool white (5000K) - standard; neutral white (4000K) - optional; warm white (2700K) - optional 50,000 hour rated life
<b>Power source</b>	120-277V, 50-60Hz; 277-480V, 50-60Hz; replaceable Overload, over-voltage, over-temperature and short-circuit protection 0-10V dimming option (DIM)
<b>Surge protection</b>	4kV line to line; 2kV line to earth
<b>Wiring</b>	Stranded wires 17 gauge, 3 conductor cord - 72.00 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)
<b>Ambient operating temperature</b>	-40°C to + 50°C Designed for use in areas allowing air flow
<b>Humidity range</b>	0% to 100%
<b>Mounting</b>	Harp rotation 360° Indexed aiming and lockable in 5° increments Boom mount kit (EM2-BMK)
<b>Vibration</b>	Meets requirements of ANSI C136.31-2010 Up to 6G for 100,000 cycles
<b>Weight</b>	140 Model - 23.2 lb (10.5 kg) 280 Model - 32.2 lb (14.6 kg) 420 Model - 54 lb (24.5 kg)
<b>Safety Cable</b>	Safety cable included
<b>Warranty</b>	5 years

### Compliances

ETL/cETL Certified to:

- UL 1598 Suitable for Wet Locations
- UL 1598A Marine Outside Type (Saltwater)
- CSA C22.2 No. 250.0 equivalent

CE

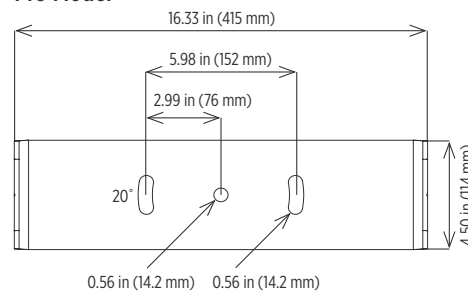
IP66

ABS

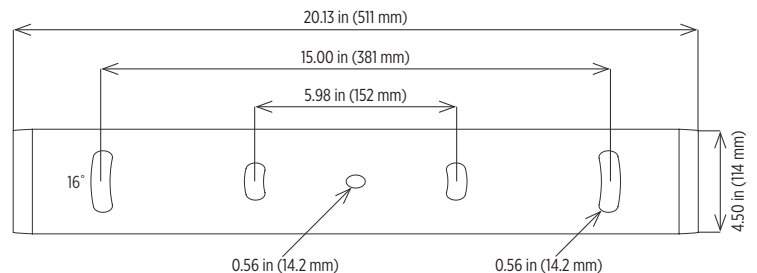
DLC (on select models) (pending)

### Standard Bracket Dimensions

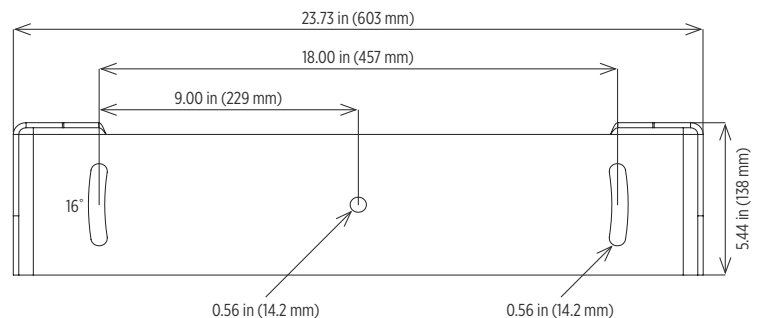
#### 140 Model



#### 280 Model



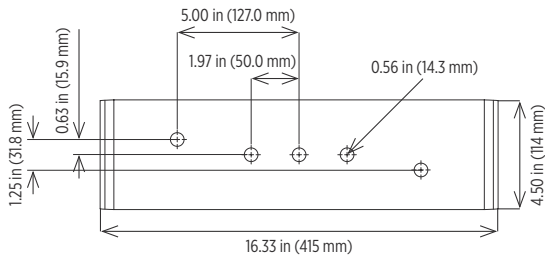
#### 420 Model



**Alternative Bracket Dimensions**

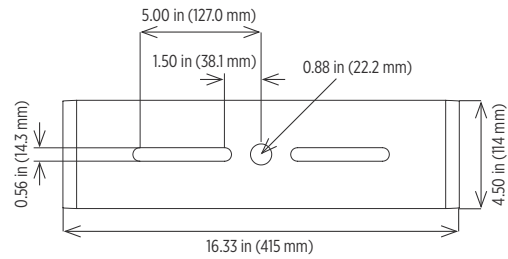
**140 Model**

Bracket A



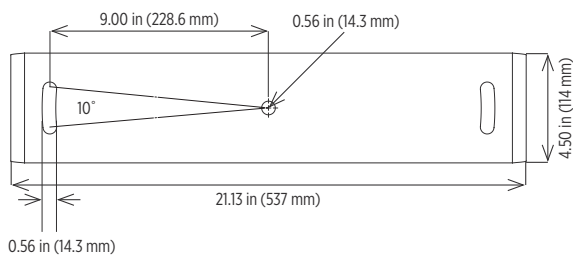
**140 Model**

Bracket B



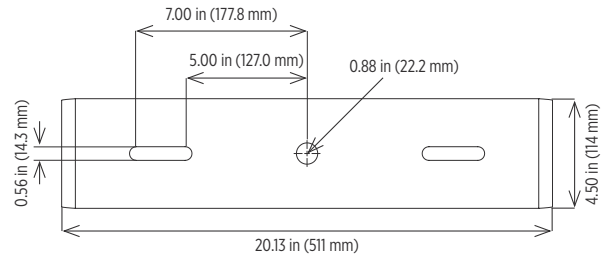
**280 Model**

Bracket A



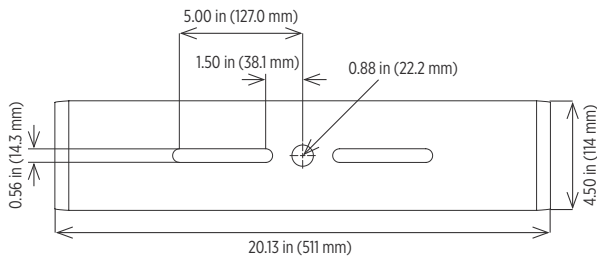
**280 Model**

Bracket B



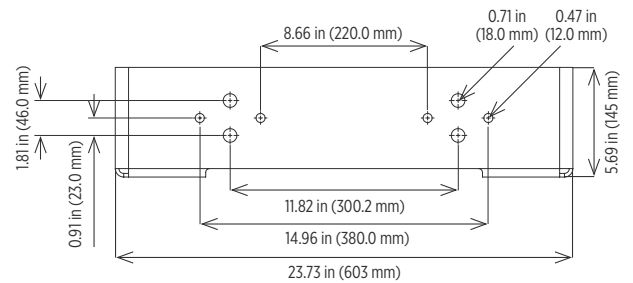
**280 Model**

Bracket C



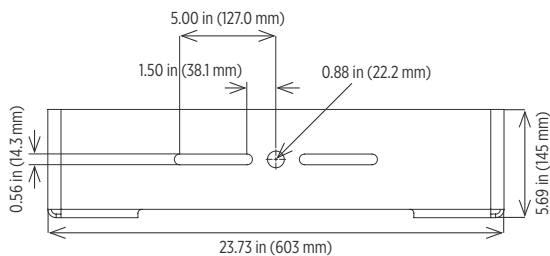
**420 Model**

Bracket A



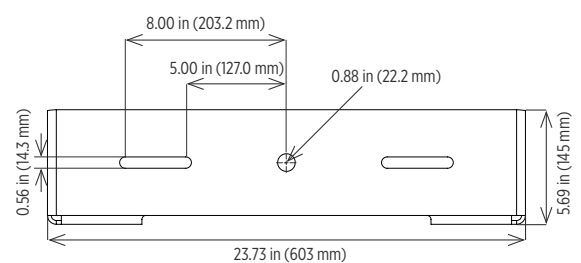
**420 Model**

Bracket B



**420 Model**

Bracket C



# EcoMod® 2 Series

Heavy Duty LED Floodlight

**PHOENIX®**  
DURABILITY X DESIGN™

## Ordering Information

Example: EM2-280-MF-120-277

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

Wattage		Optic	Voltage		Options		
140	151W	WF	Wide flood	120-277	120-277V, 50-60Hz	DIM	Dimmable (0-10V)
280	303W	MF	Medium flood	277-480	277-480V, 50-60Hz	WW	Warm white (2700K)
420	450W	WS	Wide spot			NW	Neutral white (4000K)
		SP	Spot			TW	Through wire
		NS	Narrow spot			DLC <sup>1</sup>	DLC certified
		VS	Very narrow spot				

### Alternative Brackets

BRKA	Mounting bracket A
BRKB	Mounting bracket B
BRKC	Mounting bracket C

### Notes

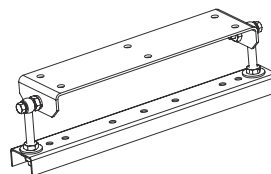
1 Contact factory for availability

**Special Projects:** We may be able to accommodate your special projects, 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.

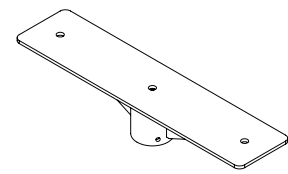
## Inrush Current

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**  
EM2-BMK (for all fixtures)



**2 3/4 inch Tenon Mount**  
PTM-MC2 (140 & 280 fixtures)  
MCPTM (420 fixture)

Cover photo: EcoMod 2 on an STS crane

Product design and specifications are subject to change without notice. The most current version of this specification sheet can be found on our website: [www.phoenixlighting.com](http://www.phoenixlighting.com).