



PHOENIX[®]
DURABILITY X DESIGN™

EcoMod[®] 2 Series

Heavy Duty LED Floodlight

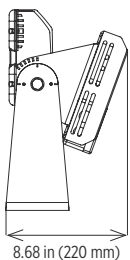
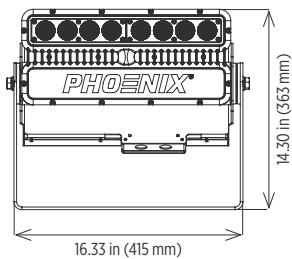
Patents Pending



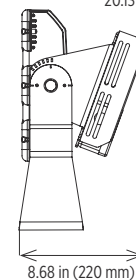
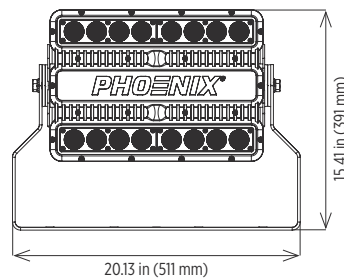
Introducing the next generation of the proven EcoMod[®] Series
Expertly engineered with durable, marine grade components and six optic options
Numerous bracket options
LED technology increases efficiency, eliminates maintenance and supports green initiatives

Dimensions

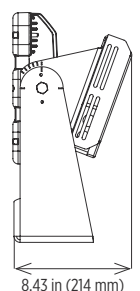
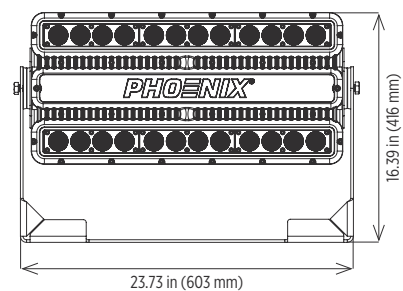
140 Model



280 Model



420 Model



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Specifications

Construction	Marine grade, powder coated cast aluminum housing Adjustable powder coated steel mounting harp
Finish	Black thermoset powder coat finish
Hardware	Marine grade (316) stainless steel
Lens	Clear, tempered glass
Light source	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
Power source	120-277V, 50-60Hz; 277-480V, 50-60Hz; replaceable Overload, over-voltage, over-temperature and short-circuit protection 0-10V dimming option (DIM)
Surge protection	4kV line to line; 2kV line to earth
Wiring	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)
Ambient operating temperature	-40°C to + 50°C Designed for use in areas allowing air flow
Humidity range	0% to 100%
Mounting	360° harp rotation Indexed aiming and lockable in 5° increments Boom mount kit (EM2-BMK)
Vibration	Meets requirements of ANSI C136.31-2010 Up to 6G for 100,000 cycles
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

For IES files, see website or contact factory

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

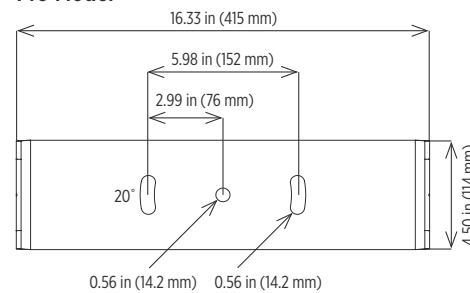
IP66

ABS

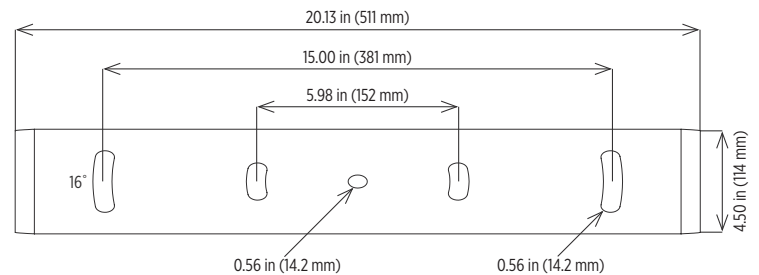
DLC (on select models)

Standard Bracket Dimensions

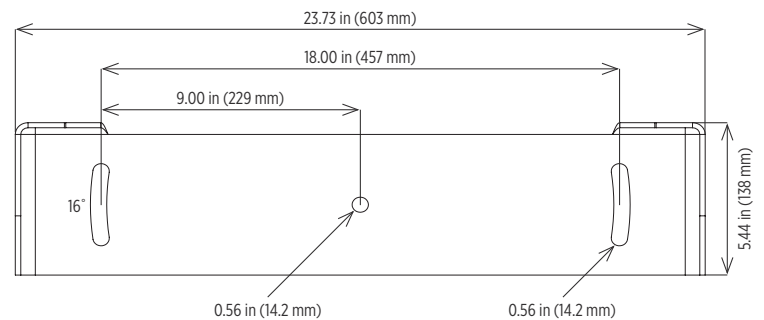
140 Model



280 Model



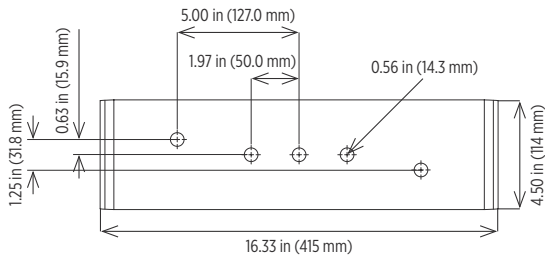
420 Model



Alternative Bracket Dimensions

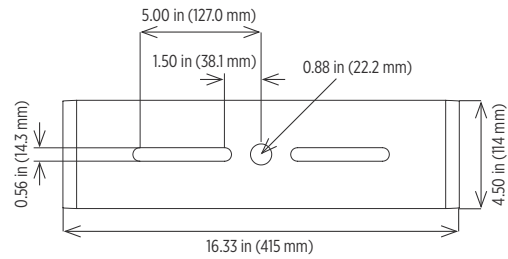
140 Model

Bracket A



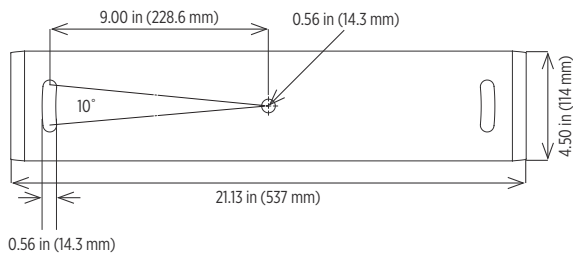
140 Model

Bracket B



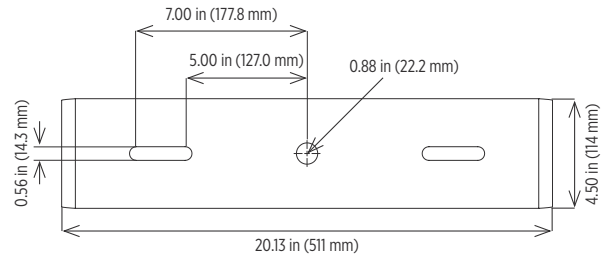
280 Model

Bracket A



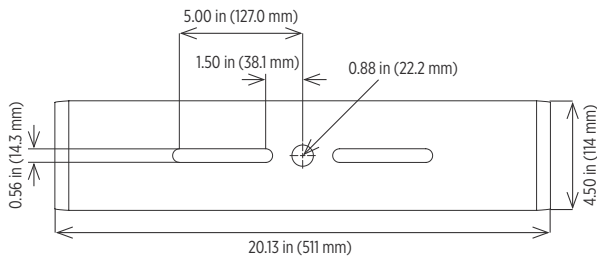
280 Model

Bracket B



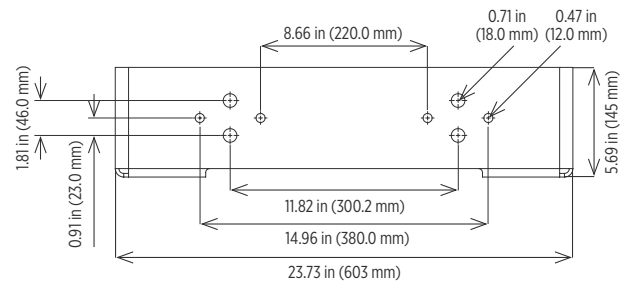
280 Model

Bracket C



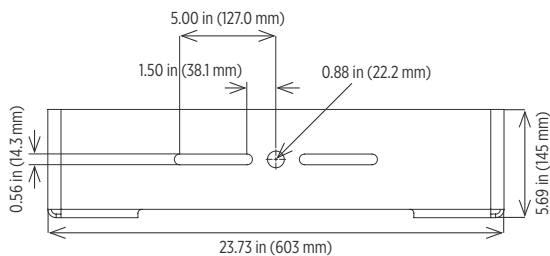
420 Model

Bracket A



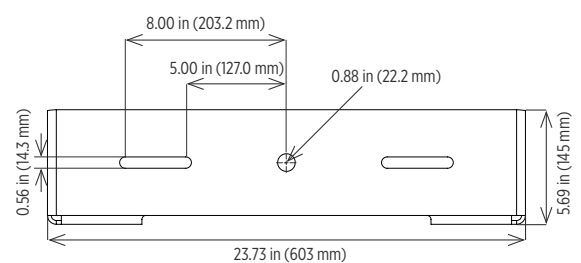
420 Model

Bracket B



420 Model

Bracket C



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Ordering Information

Example: EM2-280-MF-120-277

Fixture	Model	Optic	Voltage	Options	Alternative Brackets
EM2	140	WF	120-277	DIM ²	BRKA
	280	MF	277-480	WW	BRKB
	420	WS		NW	BRKC
		SP		TW ²	
		NS		DLC ¹	
		VS			

Wattage	Optic	Voltage	Options
140 151W	WF Wide flood	120-277 120-277V, 50-60Hz	DIM ² 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 ² Through wire
	NS Narrow spot		DLC ¹ DLC certified
	VS Very narrow spot		

Alternative Brackets

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

Notes

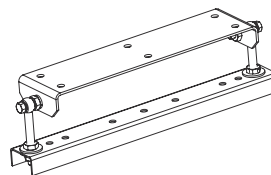
- 1 Contact factory for availability
- 2 DIM & TW are not available together

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.

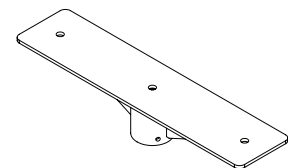
Inrush Current

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.