PHOENIX®
DURABILITY X DESIGN™

EcoMod® Series
Modular LED Floodlight

150W design delivers up to 13,750 lumens and replaces 400W HID fixtures
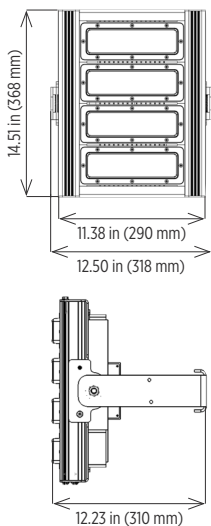
300W design delivers up to 27,500 lumens and replaces 1000W HID fixtures

450W design delivers up to 41,250 lumens and replaces 1500W HID fixtures
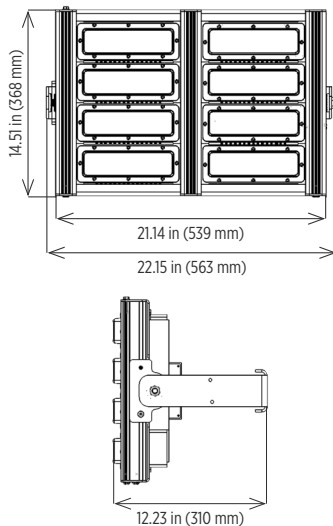
Expertly engineered with durable, marine grade components and seven optic options

LED technology increases efficiency, eliminates maintenance and supports green initiatives
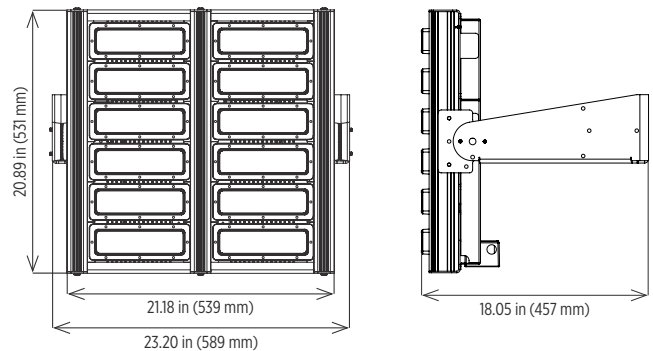
Dimensions

EM-150

14.51 in (368 mm)

11.38 in (290 mm)

12.50 in (318 mm)

12.23 in (310 mm)

EM-300

14.51 in (368 mm)

21.14 in (539 mm)

22.15 in (563 mm)

12.23 in (310 mm)

EM-450

20.89 in (531 mm)

21.18 in (539 mm)

23.20 in (589 mm)

18.05 in (457 mm)

Specifications

Construction	Marine grade extruded aluminum frame and LED modules Adjustable passivated stainless steel mounting harp (150W and 300W units) Adjustable powder coated steel mounting harp (450W units) EcoVent™ Technology allows heat, water and debris to flow through fixture
Finish	Anodized finish
Hardware	Marine grade (316) stainless steel Screws sealed with adhesive threadlocker
Lens	UV- and impact-resistant polycarbonate lens Replaceable
Light source	Lumileds Luxeon M light emitting diodes (LED) 150W - up to 13,750 lumens 300W - up to 27,500 lumens 450W - up to 41,250 lumens CRI > 70 50,000 hour rated life Cool white (5000K) - standard Neutral white (NW) - contact factory Warm white (WW) - contact factory
Power source	120-277V, 50-60Hz; 347-480V, 50-60Hz Fully potted Replaceable Overload, over-voltage, over-temperature and short-circuit protection 0-10V dimming option (DIM)
Power factor	> 0.98 at 115V
Surge protection	20kV (20kA) Dissipates 540 joules at 277V Dissipates 765 joules at 480V
Wiring	Stranded wires Through wiring option (JBOX) International cord option (INTL)
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° (450W units) or 10° increments (150W and 300W units) 2 ⅜ inch tenon mount kit (EM150-PTM & EM300-PTM) Boom mount kit (EM-BMK)
Weight	150W - 22.9 lb (10.4 kg) 300W - 40.0 lb (18.1 kg) 450W - 60.2 lb (27.3 kg)
Safety cable	Safety cable included
Junction box option	Includes junction box, cover, mounting bracket and hardware (JBOX) Required for through wiring
Warranty	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

CE
DLC
ABS
IP66 rated
LM79 and LM80 reports available

EcoMod 150 on an RTG crane

Ordering Information

Example: EM-300-MF-120-277

Fixture	Wattage	Optic	Voltage	Options
EM	150	WF	120-277 [1,2]	INTL [3]
	300	FL	347-480	JBOX [4]
	450	MF		NW [5]
		WS		WW [5]
		SP		DIM [1]
		NS		
		VS		

Wattage

150	150W (4 modules)
300	300W (8 modules)
450	450W (12 modules)

Optic

WF	Wide flood
FL	Flood
MF	Medium flood
WS	Wide spot
SP	Spot
NS	Narrow spot
VS	Very narrow spot

Voltage

120-277 [1,2]	120-277V, 50-60Hz
347-480	347-480V, 50-60Hz

Options

INTL [3]	International cord
JBOX [4]	Junction box
NW [5]	Neutral white CCT
WW [5]	Warm white CCT
DIM [1]	Dimmable (0-10V)

Notes

1 Dimming option only available on 120-277 model
2 Capable of operating at 127-431V DC but not ETL/cETL or CE listed
3 CE listed only
4 Junction box required for through wiring
5 Minimum order quantity and/or extended lead time may apply - contact factory
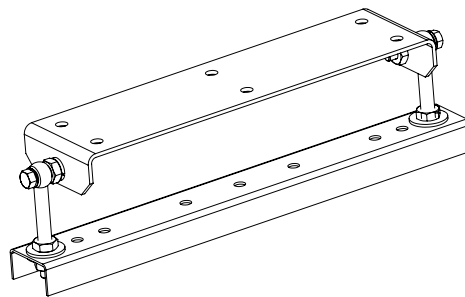
Special Projects: We may be able to accommodate your special projects, so please don't hesitate to ask about additional options. Minimum order quantities and/or extended lead times will apply. Contact your Phoenix representative with specific inquiries.

Accessories (order separately)
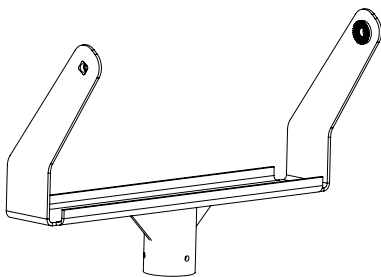
2 ⅜ inch Tenon Mount Kit
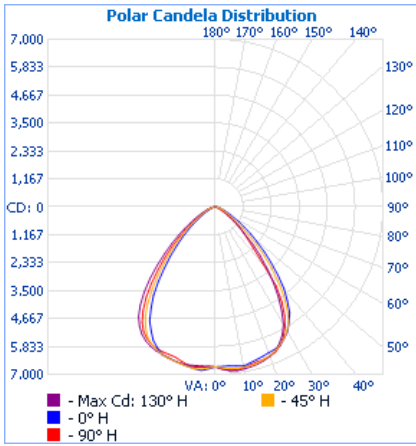
EM150-PTM (150W units)
EM300-PTM (300W units)

Boom Mount Kit
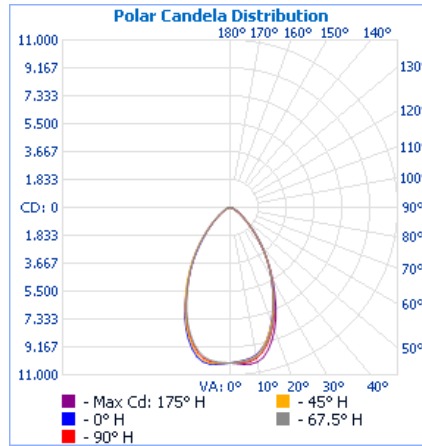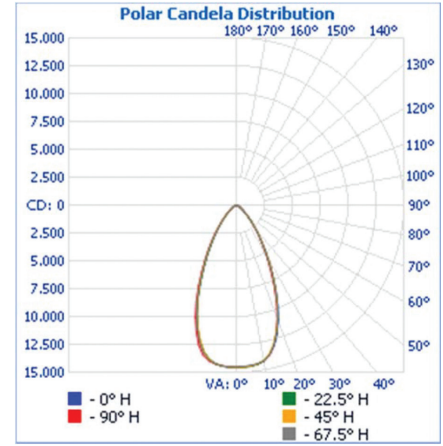
EM-BMK (150W, 300W, 450W units)

EcoMod® Series

Modular LED Floodlight

Photometrics

EM150 – Wide Flood

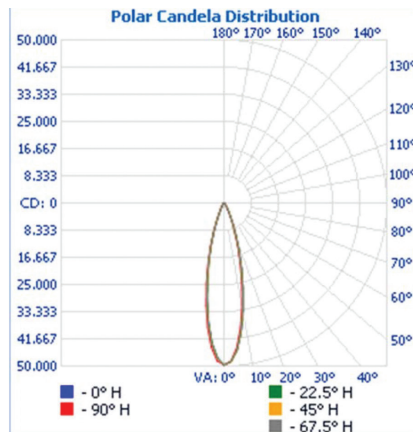### EM150 – Flood

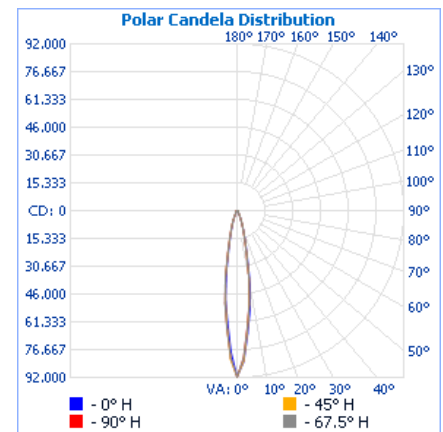### EM150 – Medium Flood
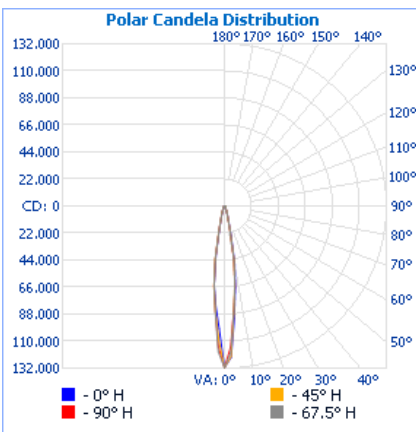

EM150 – Wide Spot
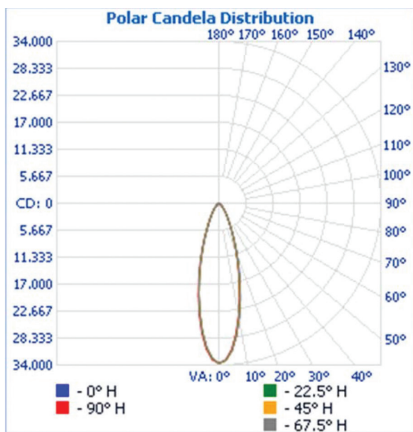
EM150 – Spot

EM150 – Narrow Spot

EM150 – Very Narrow Spot

Cover photo: EcoMod 150s on an RTG 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.