PHOENIX
DURABILITY X DESIGN™

ModCom® 3 Series
Heavy Duty LED Floodlight

Third generation floodlight designed to withstand the world's harshest and most demanding environments

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

Optional Amber LEDs increase visibility and productivity in high fog, dust, and snowy conditions

Robust construction ideal for high vibration, high temperature and hazardous applications

Key Applications

- Draglines
- Electric rope shovels
- High bay lighting
- Waterline perimeter lighting
- General deck flood lighting
- Portal crane lighting
- Vessel perimeter lighting
- Aft wheelhouse lighting
- Deck flood lighting
- Bulk handling
- Chemical processing & storage
- Wastewater treatment plants
- Maintenance hangars
- Hazardous locations

Compliances

ETL/cETL Certified to:
  • UL 1598 Suitable for Wet Locations
  • UL 1598A Marine Outside Type (Saltwater)
  • UL 844 Hazardous Location (-40°C to + 50°C)
  • Class I, Division 2 Groups A, B, C, D
      • Class I, Zone 2 Groups IIC
      • T4, 135°C maximum surface temperature
  • CSA C22.2 No. 250.0
  • CSA C22.2 No. 137
CE
ABS
IP66
IP67
IP69K
DLC (contact factory)
LM79 and LM80 reports available
FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions.

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

Specifications

Construction	Marine grade cast aluminum housing Adjustable powder coated steel mounting harp
Finish	Black thermoset powder coat 2-step finish
Hardware	Marine grade (316) stainless steel
Lens	Clear, tempered glass
Surge Protection	20kV (20kA)
Light source	Up to: 121W (LO), 231W (HI), 438W (MAX) Up to: 15,000 lumens (LO), 30,000 lumens (HI), 52,500 lumens (MAX) Cool white (50K), neutral white (40K) or Amber (AM) LEDs CRI > 70 - standard Other CCT options available - contact factory 50,000 hour rated life
Power source	120-277V, 50-60Hz; 277-480V, 50-60Hz 0-10V dimming option (DIM) Overload, over-voltage, over-temperature and short-circuit protection
Wiring	72.00 inch (1829 mm) cord with pigtail Stranded wires Ability to continuous row mount
Ambient operating temperature	-40°C to + 60°C (LO & HI models) -40°C to + 50°C (MAX model)
Mounting	Indexed aiming and lockable in 5° increments Alternative brackets to match legacy hole patterns (B1)
Vibration	6G at resonant frequency
Weight	LO - 31.0 lb (14.1 kg) HI - 39.6 lb (18.0 kg) MAX - 49.2 lb (22.3 kg)
Warranty	5 years

For IES files, see website or contact factory

ModCom® 3 Series

Heavy Duty LED Floodlight

Dimensions (Standard)

LO Model

10.65 in (271 mm)

18.64 in (473 mm)

HI Model

12.72 in (323 mm)

18.64 in (473 mm)

MAX Model

12.72 in (323 mm)

25.53 in (648 mm)

12.23 in (311 mm)

12.27 in (312 mm)

13.87 in (352 mm)

LO & HI Model

17.72 in (450 mm)

12.00 in (305 mm)

5.98 in (152 mm)

0.56 in (14 mm)

0.63 in (16 mm)

20°   24°

4.93 in (125 mm)

10.50 in (267 mm)

3.94 in (100 mm)

10.00 in (254 mm)

15.00 in (381 mm)

MAX Model

18.00 in (457 mm)

14.96 in (380 mm)

11.80 in (300 mm)

8.66 in (220 mm)

7.09 in (180 mm)

0.91 in (23 mm)

5.68 in (144 mm)

11.68 in (297 mm)

0.375 in (10 mm)   0.56 in (14 mm)

17.74 in (451 mm)

24.61 in (625 mm)
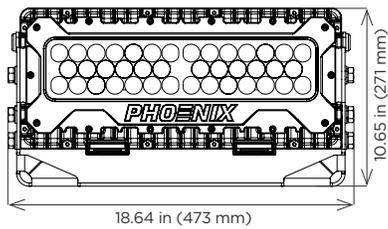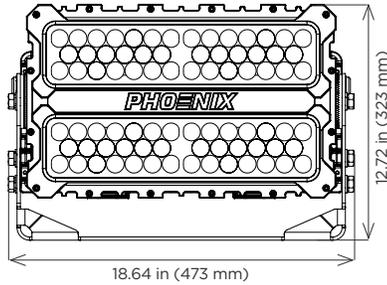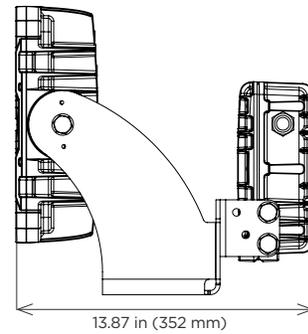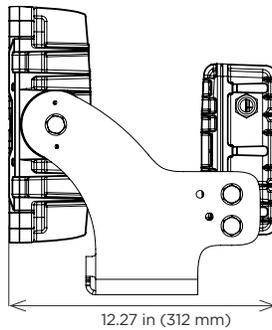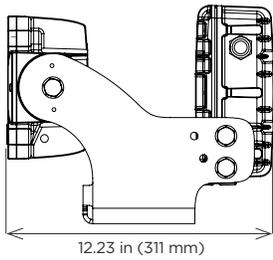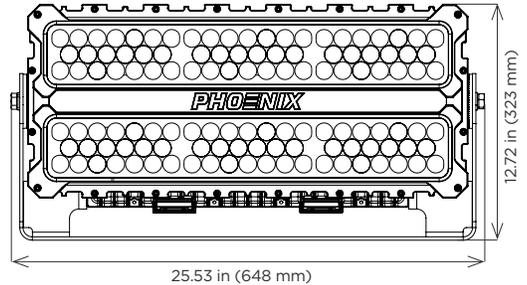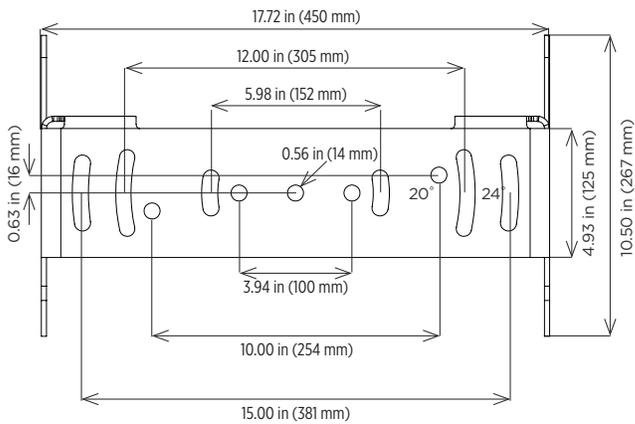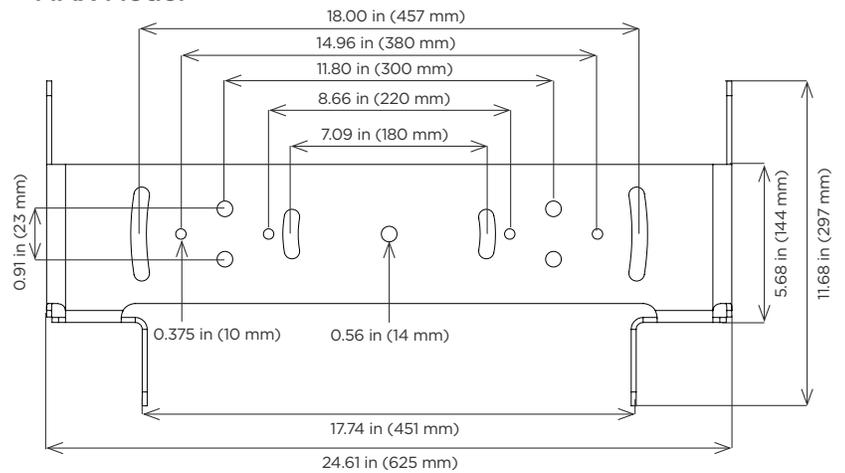
Dimensions (Alternative Bracket 1, B1)

LO Model (B1)

10.65 in (270 mm)
20.72 in (526 mm)
12.23 in (311 mm)

20.72 in (526 mm)
17.72 in (450 mm)
7.09 in (180 mm)
0.41 in (10 mm)
2.75in (70 mm)
4.93 in (125 mm)
10.50 in (267 mm)
0.56 in (14 mm)
2.75 in (70 mm)
18.00 in (457 mm)

HI Model (B1)

12.71 in (323 mm)
20.72 in (526 mm)
12.27 in (312 mm)

20.72 in (526 mm)
17.72 in (450 mm)
7.09 in (180 mm)
0.41 in (10 mm)
2.75in (70 mm)
4.93 in (125 mm)
10.50 in (267 mm)
0.56 in (14 mm)
2.75 in (70 mm)
18.00 in (457 mm)
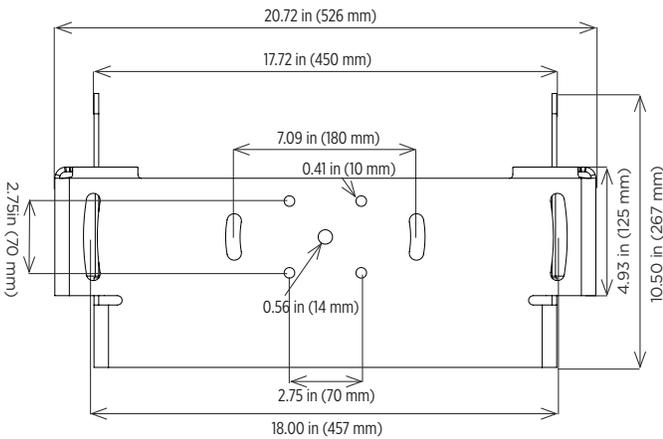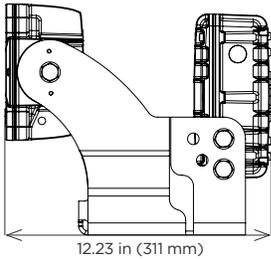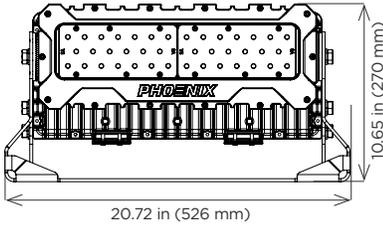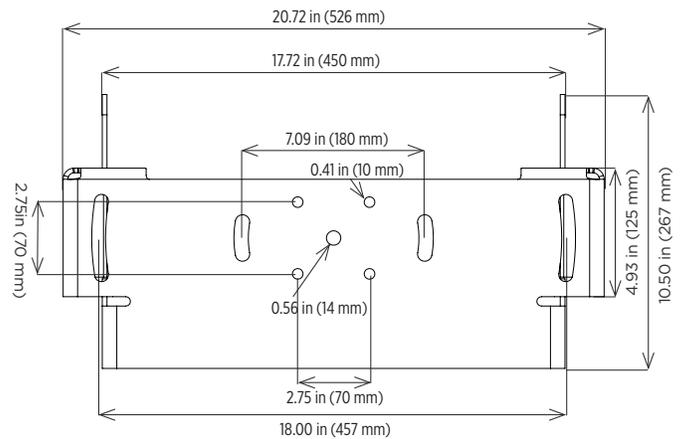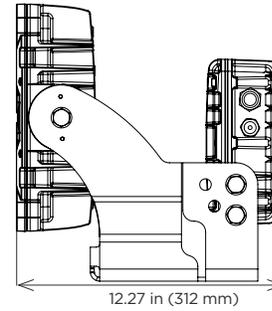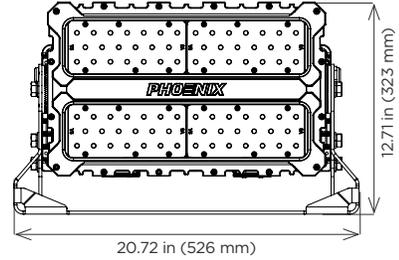
ModCom® 3 Series

Heavy Duty LED Floodlight

Ordering Information

Example: MC3-LO-MF-120-277-50K

Fixture	Model	Optic	Voltage	Color Temperature	Options	Alternate Bracket [2]
MC3	LO	WF	120-277	40K	DIM	B1 [3]
	HI	MF	277-480	50K		
	MAX	WS		AM [1]		
		SP				
		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
VS   Very narrow spot
NG   No-glare/perimeter

Voltage

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

Color Temperature

40K   Neutral white (4000K) LEDs
50K   Cool white (5000K) LEDs
AM[1]   Amber LEDs

Options

DIM   Dimmable (0-10V)

Alternate Bracket[2]

B1[3]   Alternate bracket B1

Notes

1. Lower light output than standard cool white models
2. Leave blank for standard mounting bracket
3. Accommodates original ModCom®/MRSE®/MRS mounting pattern (LO & HI only). Replaces the mounting adapter bracket (AMB-MC2) used on ModCom 2®.

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.

Optics Chart

| Optic	Description	Nema	Field Spread	HWHM
WF	Wide Flood	7H X 6V	113.6°V x 138.6°H	33°
MF	Medium Flood	5H X 5V	84.9°V X 88.5°H	2˚
WS	Wide Spot	5H X 5V	67.0°V x 68.4°H	15°
SP	Spot	4H X 4V	54.2°Vx 55.5°H	12°
VS	Very Narrow Spot	2H X 2V	24.3°V X 24.8°H	7°
NG	No Glare Perimeter	5H X 4V	59.7°V X 74.6°H	32°

Accessories (order separately)
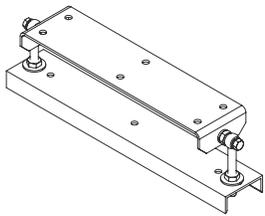
Boom Mount Kit
BMK-LO/HI/MAX

Safety Cable Kit
SFCB-EM/MC
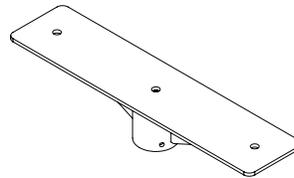
2 ¾ inch Tenon Mount
PTM-LO/HI
(LO & HI models only)
PTM-MAX
(MAX models only)

Isolux Charts

MC3-HI - Wide Flood
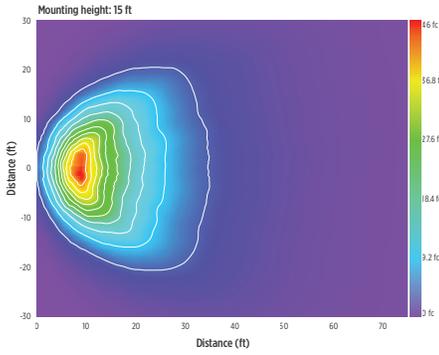
MC3-HI - Medium Flood
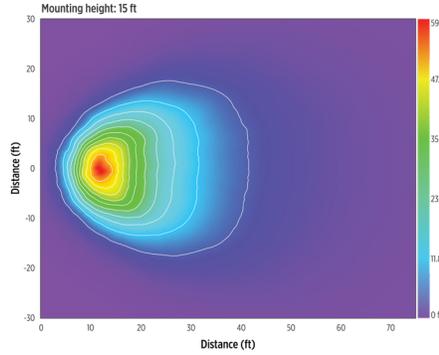
MC3-HI - Wide Spot
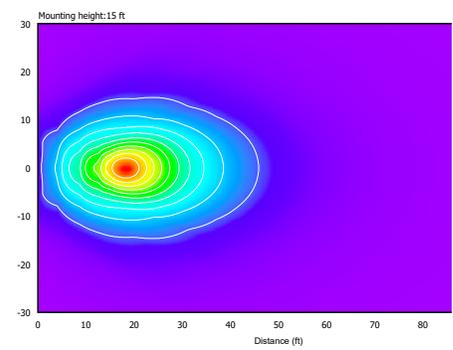
MC3-HI- Spot
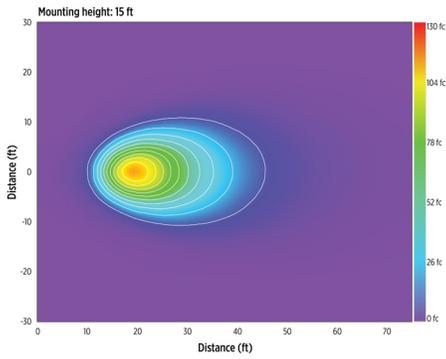
MC3-HI - Very Narrow Spot
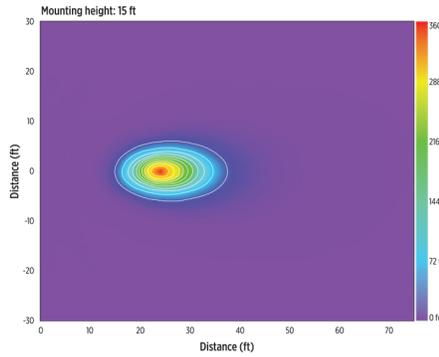
MC3-HI - No-Glare
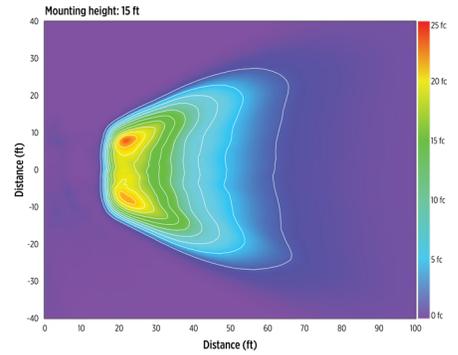
Product design and specifications are subject to change without notice. The most current version of this specification sheet can be found at www.phoenixlighting.com.

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