



PHOENIX®
DURABILITY X DESIGN™

Sturdilite® Master Series

Low-voltage LED Floodlight

Patents Pending

Durable, premium line of LED fixtures

Lightweight, compact design ideal for use on mobile equipment

Customized optics designed to minimize glare, provide precise optical control
and increase equipment efficiency

LED technology increases efficiency, eliminates maintenance and supports green initiatives

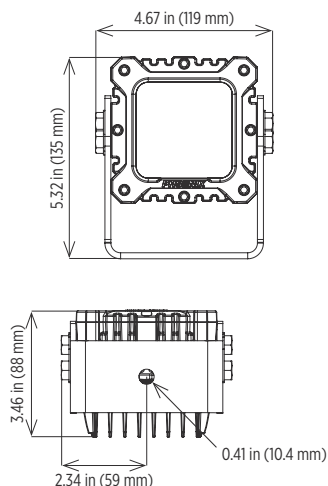


MST-LO

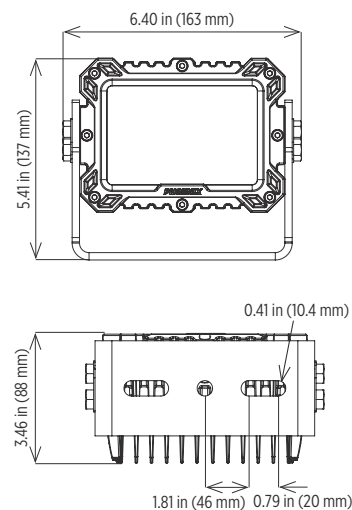
MST-MED

Dimensions

MST-LO



MST-MED



Sturdilite® Master Series

Low-voltage LED Floodlight



Specifications

Construction	Die cast aluminum housing
Finish	Gray powder coat
Hardware	304 stainless steel external hardware
Lens	High temperature, impact-resistant polycarbonate (PC) or tempered glass (GL) Non-stick coating
Light source	Conformal coated LED circuit board 24W (LO) or 48W (MED) Cool white LEDs - effective lumens up to 2500 lumens (LO), up to 5000 lumens (MED) Amber LEDs - effective lumens up to 1825 lumens (LO), up to 3650 lumens (MED) Spot (SP), Flood (FL), Elliptical (EP), and No-Glare (NG) optical patterns
Power source	12-48V DC; 24-48V DC Over-voltage, over-temperature and reverse polarity protection
Wiring	Stranded wires 10.00 inch cord with molded Deutsch connector
Ambient operating temperature	-40°C to +65°C Light output regulation in high ambient temperature environments protects the life of the LEDs
Shock	65G along 3 axes
Vibration	5 Grms, 100-2200Hz along 3 axes
Salt spray	Tested to ASTM B117 for 1000 hours
Aiming	120° aiming capability, 5° markings on mounting harp Colored aiming indicator designates fixture beam pattern (SP: red, FL: blue, EP: black, NG: silver)
Mounting	304 stainless steel harp - standard Round mounting bracket option for MST-MED (RND)
Estimated Weight	MST-LO fixture: 3.0 lb (1.4 kg) MST-MED fixture: 4.5 lb (2.0 kg)
Warranty	3 years

Compliances

CE
IP68
IP69K
IK06 (glass)
IK10 (polycarbonate)

Wattage

	12V	24V	48V
LO	29W	24W	24W
MED	58W	48W	48W

For IES files, see website or contact factory



Ordering Information

Example: MST-LO-PC-SP-12-48

Fixture	Model	Lens	Optic	Voltage	Color Temperature ⁴	Mounting ⁵
MST	LO	PC	SP	12-48	AM ^{2,3}	RND ⁶
	MED	GL ¹	FL	24-48		
			EP			
			NG			

Model		Lens		Optic		Voltage	
LO	24W	PC	High temperature, impact-resistant polycarbonate	SP	Spot	12-48	12-48V DC
MED	48W	GL ¹	High temperature, tempered glass	FL	Flood	24-48	24-48V DC
				EP	Elliptical		
				NG	No-Glare (Driving)		

Color Temperature ⁴

AM ^{2,3} Amber LEDs, ideal for high fog/dust/snow/ debris

Mounting ⁵

RND ⁶ Round mounting bracket for easy retrofit of Komatsu haul trucks (shown below)

Notes

- 1 GL option recommended for applications where excessive dirt/debris, humidity and heat are present
- 2 Contact factory for availability
- 3 Only available with GL option
- 4 Cool white LEDs standard (leave blank)
- 5 Harp mount standard (leave blank)
- 6 Only available on MST-MED fixtures

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.

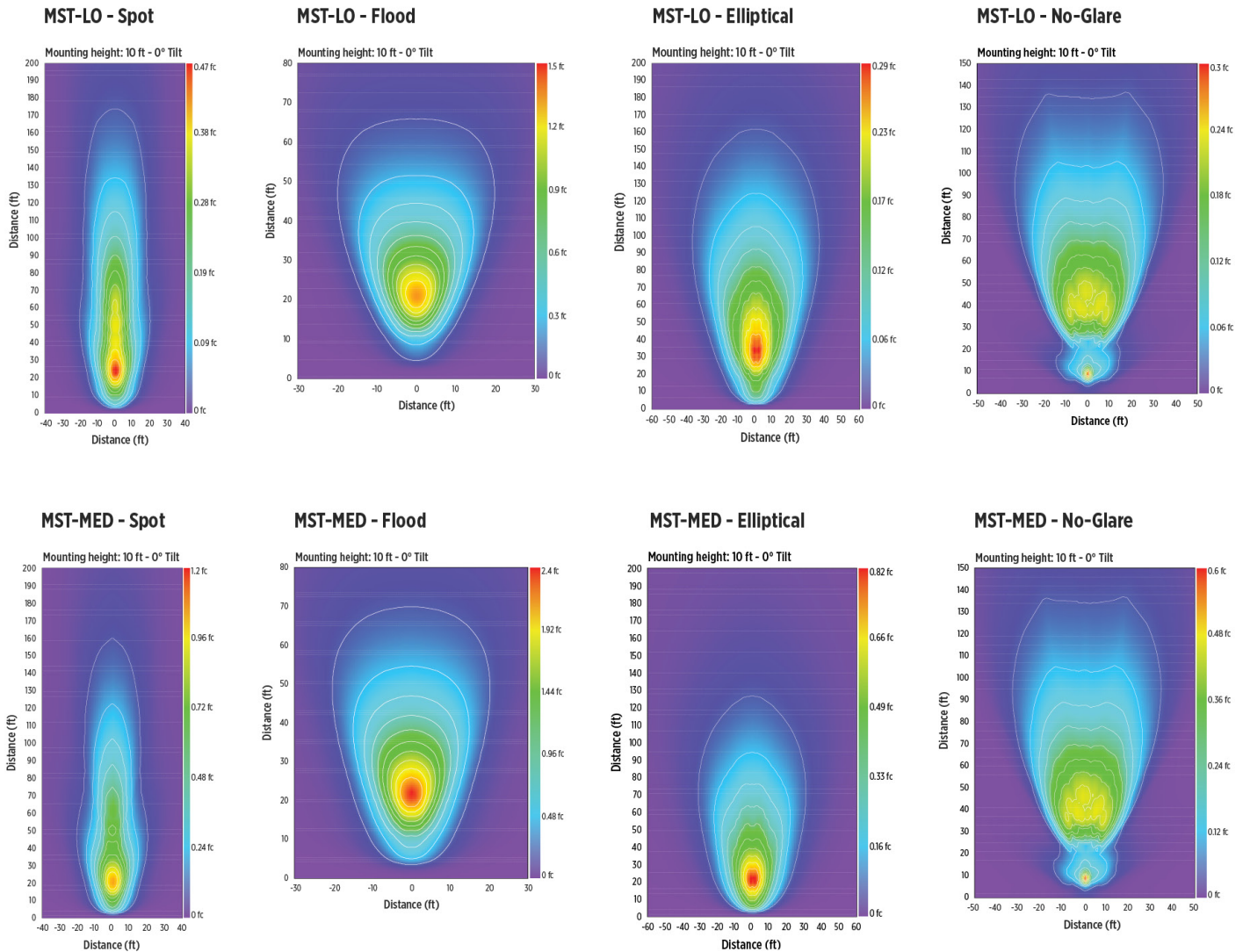
Round Mounting Option (RND)



MST-MED-RND



Isolux Charts



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.