



Premium line of super rough surface, heavy duty LED work lights

Lightweight, compact design ideal for use on mobile equipment

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

Numerous options allow for optimal lighting in each unique and harsh application

Key Applications

Surface mining equipment

- haul trucks • front loaders • blasthole drills • dozers • hydraulic excavator shovels

Underground mining equipment

- jumbos • scoopers • dumpers

Construction equipment

- mobile cranes • excavators • rollers

Port equipment

- material handling • reach stackers

Marine vessels

- patrol boats • fishing boats

Agricultural equipment

- combine harvester • tractors • ATVs

Forestry equipment

- harvesters • forwarders • loaders

Other applications

- utility vehicles • pick-up trucks • off-road equipment • forklift trucks • maintenance of Way (MOW) railroad maintenance equipment • solar and generator powered lighting

Compliances

CE

IP68

IP69K

IK06 (glass)

IK10 (polycarbonate)

Wattage

	12V	24V	48V
LO	29W	24W	24W

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 Cool white (5000K) LEDs - up to 2500 lumens Amber LEDs - up to 1825 lumens 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, NG: silver)
Mounting	304 stainless steel harp
Estimated Weight	3.0 lb (1.4 kg)
Warranty	3 years

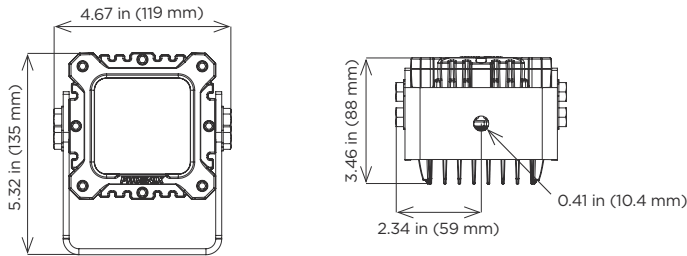
For IES files, see website or contact factory

Sturdilite® Master Series LO

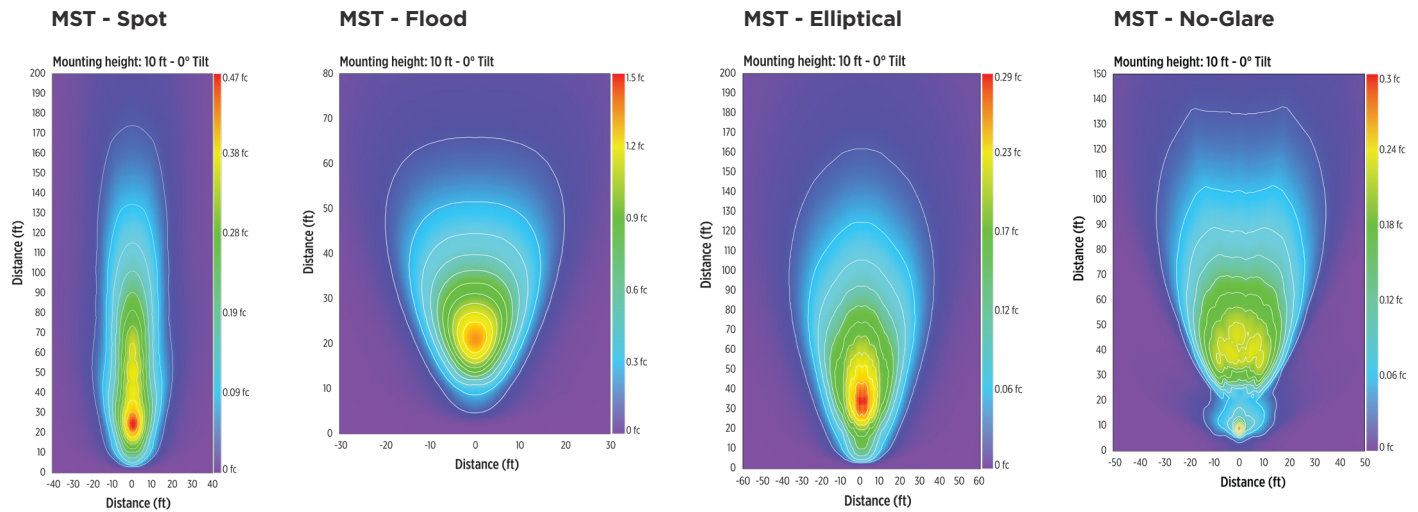
Low-voltage LED Floodlight

PHOENIX®
DURABILITY X DESIGN™

Dimensions (standard mounting harp)



Isolux Charts



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}	LPH ²
		GL ¹	FL	24-48 ²		
			EP			
			NG ³			

Model		Lens		Optic	
LO	24W	PC	High temperature, impact-resistant polycarbonate	SP	Spot Optic
		GL ¹	High temperature, tempered glass	FL	Flood Optic
				EP	Elliptical Optic
				NG ³	No-Glare Driving & Perimeter Optic
Voltage		Color Temperature ⁴		Mounting	
12-48	12-48V DC	AM ^{2,3} Amber LEDs, ideal for high fog/dust/snow/debris		LPH ²	Low profile harp for extremely compact mounting locations
24-48 ²	24-48V DC				

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 (5000K) LEDs standard (leave blank)
- 5 Harp mount standard, dimensions on page 2 (leave blank)

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.