



Premium line of super rough service, 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
 LED technology increases efficiency, eliminates maintenance and supports
 green initiatives

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
HI	74W	64W	64W

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 64W Cool white (5000K) LEDs - up to 7600 lumens Amber LEDs - up to 5000 lumens Spot (SP), Flood (FL) and No-Glare Driving & Perimeter (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)
Mounting	304 stainless steel harp - standard
Weight	7.0 lb (3.2 kg)
Warranty	3 years

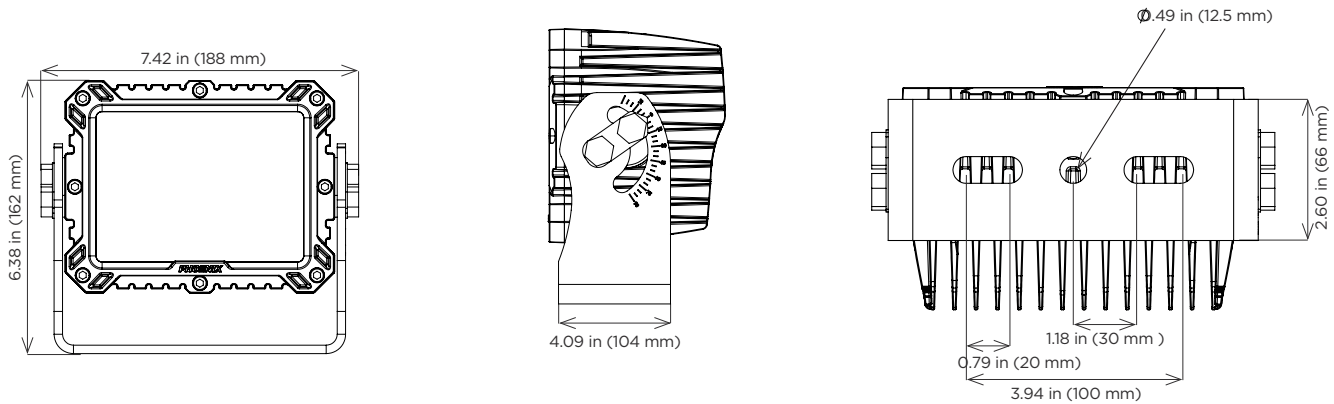
For IES files, see website or contact factory

Sturdilite® Master Series HI

Low-voltage LED Floodlight

PHOENIX®
DURABILITY X DESIGN™

Dimensions



Ordering Information

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

Fixture	Model	Lens	Optic	Voltage	Color Temperature ⁴
MST	HI	PC	SP	12-48	AM ^{2,3}
		GL ¹	FL	24-48 ²	
			NG		

Model	Lens	Optic
HI 64W	PC High temperature, impact-resistant polycarbonate	SP Spot Optic
	GL ¹ High temperature, tempered glass	FL Flood Optic
		NG No-Glare Driving & Perimeter Optic

Voltage	Color Temperature ⁴
12-48 12-48V DC	AM ^{2,3} Amber LEDs, ideal for high fog/dust/snow/debris
24-48 ² 24-48V DC	

Notes

- GL option recommended for applications where excessive dirt/debris, humidity and heat are present
- Contact factory for availability
- Only available with GL option
- Cool white (5000K) LEDs standard (leave blank)

Option (order separately)

Round Mounting Bracket

MST-HI-RND

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.

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.

Patents Pending



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
MED	58W	48W	48W

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 48W Cool white (5000K) LEDs - up to 5000 lumens Amber LEDs - up to 3650 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 - standard Round mounting bracket option (RND)
Estimated Weight	4.5 lb (2.0 kg)
Warranty	3 years

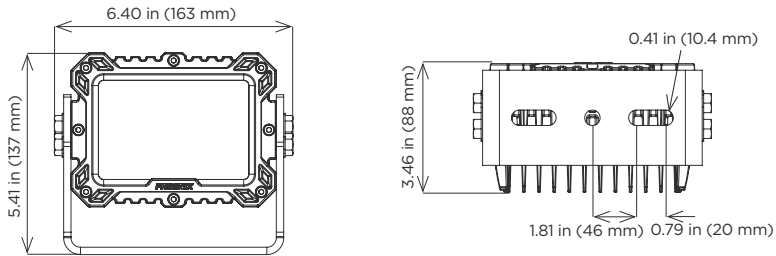
For IES files, see website or contact factory

Sturdilite® Master Series MED

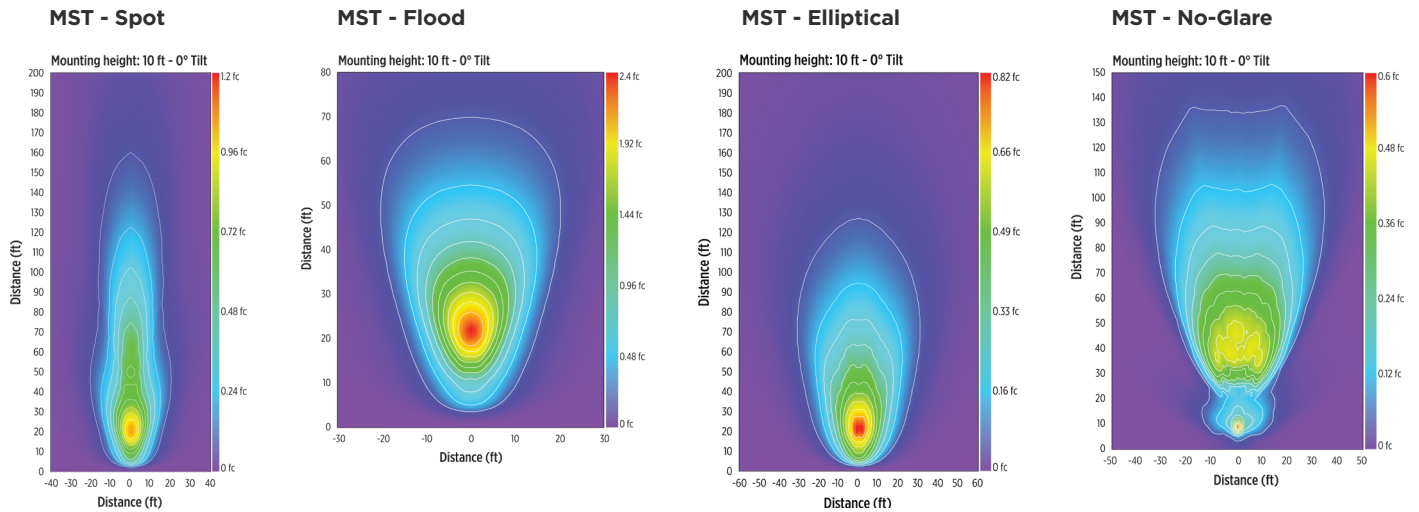
Low-voltage LED Floodlight

PHOENIX®
DURABILITY X DESIGN™

Dimensions



Isolux Charts



Ordering Information

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

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

Model	Lens	Optic
MED 48W	PC High temperature, impact-resistant polycarbonate GL ¹ High temperature, tempered glass	SP Spot Optic FL Flood Optic EP Elliptical Optic NG ³ No-Glare Driving & Perimeter Optic
Voltage	Color Temperature⁴	Mounting⁵
12-48 12-48V DC 24-48 ² 24-48V DC	AM ^{2,3} Amber LEDs, ideal for high fog/dust/snow/debris	RND Round mounting bracket for easy retrofit of Kotmatsu haul trucks (shown below) LPH ² Low profile harp for extremely compact mounting locations

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 (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.

Option (order separately)

Round Mounting Bracket

MST-MED-RND



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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

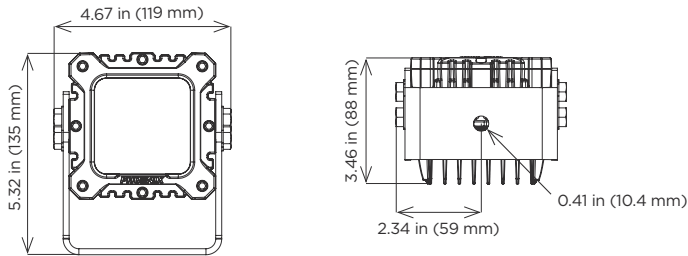
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Sturdilite® Master Series LO

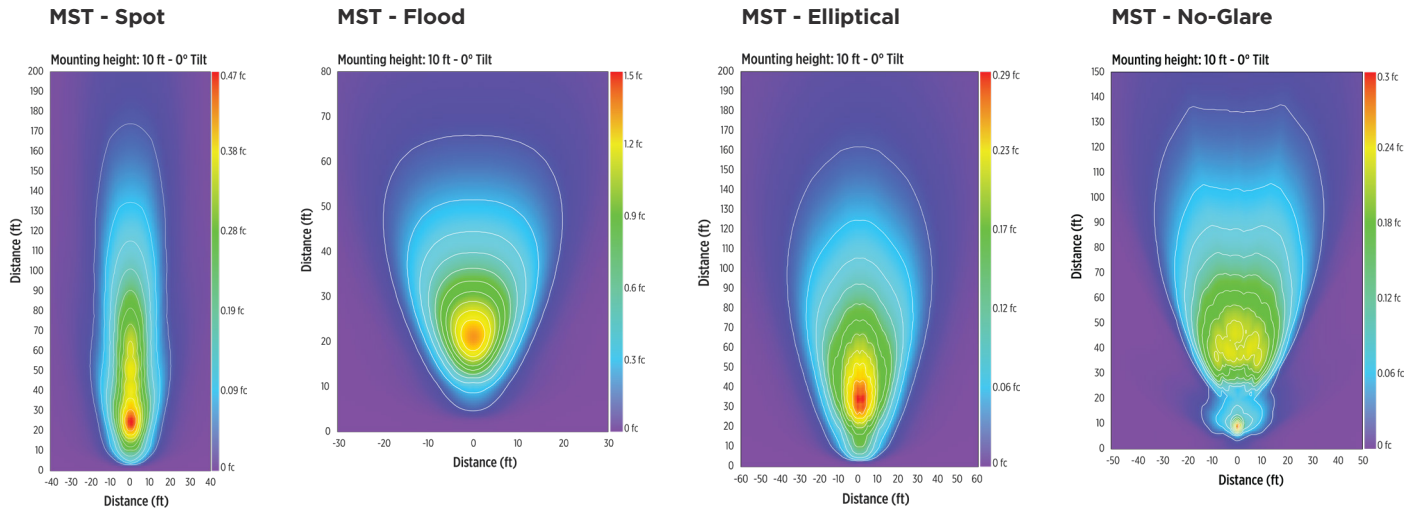
Low-voltage LED Floodlight

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

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)

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