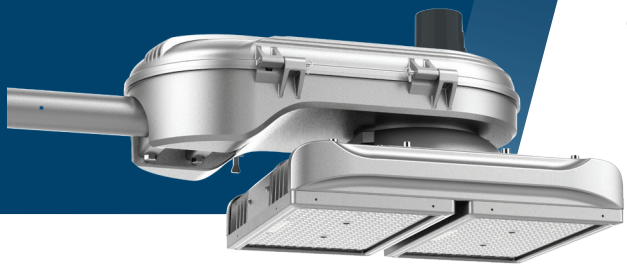
PHOENIX®
DURABILITY X DESIGN™

Soar™ Series

High Mast LED



Our next-generation high mast fixture serving the ports and aviation markets

A purposefully designed high mast downlight with performance exceeding 140K lumens and > 140 lm/w system efficacy

Fixture will typically mount to a horizontal arm and offer flexible optical patterns, field adjustable optical control, glare shielding, and high-voltage surge protection

Key Applications

Large area high mast
Roadway high mast
Shipyard high mast
Container yard high mast
Aviation ramps and aprons
Prison large areas
Military bases
Industrial facilities

Compliances

UL/cUL Certified to:
- UL 1598 Suitable for Wet Locations

CE
DLC
IP66
ROHS

Specifications

Construction	High-strength, marine grade die-cast aluminum
Finish	Weather-resistant powder coat
Hardware	Marine grade stainless steel
Light source	630W, up to 105,000 lumens 960W, up to 140,000 lumens CCT: Super cool white (5700K), cool white (5000K), neutral white (4000K), warm white (2700K)
Lens	UV-resistant, polycarbonate lens Field rotatable optics (0 - 350° rotation)
Power source	120 - 277V or 277 - 480V, 50/60 Hz, 0-10V dimming
Power factor	> 0.925 at 277V
THD	< 15%
Ambient operating temperature	-30°C to +50°C
Mounting	+/- 5° tilt, fits mast arm 1.65 - 2.375 inch (42 - 60 mm OD)
Operating lifetime	L80 > 100,000 hours per TM-21
EPA (wind load)	1.69 sq. ft (.15 m2)
Fixture weight	630W/960W model - 69 lb (31.5 kg)
Dimensions	28.7 in (730 mm) x 17.3 in (439 mm) x 11 in (283 mm)
Vibration	ANSI C136.31 3G
Salt Spray	1000 hrs per ASTM B117
Warranty	5 years

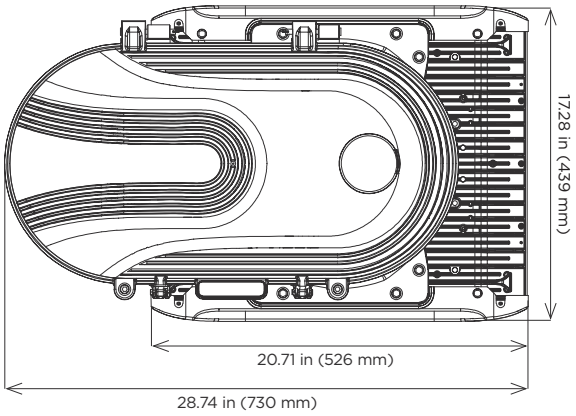
For IES files, see website or contact factory

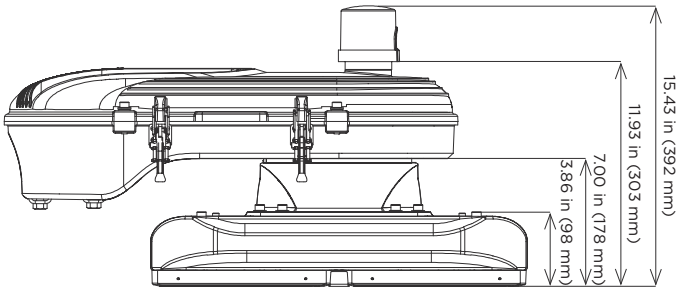
Phoenix Lighting 8711 West Port Avenue Milwaukee, WI 53224 USA
Phone: +1 414.973.3300 Toll Free: 800.438.1214 **www.phoenixlighting.com**

Soar™ Series

High Mast LED

Dimensions





Ordering Information

Example: SOA-960W-D-LX-277-480-40K

Series	Wattage	Dimming	Optic	Voltage	CCT
SOA	630W	D [2]	LV	120-277	57K
	960W		LX [1]	277-480 [1]	50K
					40K [1]
					27K [3]

Wattage

630	Up to 630W and 105,000 lumens
960	Up to 960W and 140,000 lumens

Dimming

D [2]	0-10V dimming

Optic

LV	Type IV
LX [1]	Type V

Voltage

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

CCT

57K	5700K
50K	5000K
40K [1]	4000K
27K [3]	2700K

Notes

1 Indicates standard option for fast delivery.
2 Comes standard with 7-pin twistlock receptacle and photocontroller.
3 Contact factory, alternate color temperatures 2200K, 1800K may be available.

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)

Synapse Twist-lock Lighting Controller
SYN-TL7-HVG (120-480V)

Glare Guard Kit
KIT, SOA, GLARE GUARD

Shorting Cap
CAP, SHORTING, BLK

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.

Phoenix Lighting 8711 West Port Avenue Milwaukee, WI 53224 USA
Phone: +1 414.973.3300 Toll Free: 800.438.1214 **www.phoenixlighting.com**

N5499100F
11.18.26