



ARCHIPELAGO
LIGHTING GROUP

LIGHTING | REINVENTED

cityARCH

LHMF | OmniMax^{PRO+}

Product Data Sheet



COMMERCIAL-GRADE

LED High Mast Luminaire



WATTselect



TAA Compliant



Surge Protected

125W — 750W

Product Overview

INTENDED USE — The OmniMax-series is versatile for various applications like highways, airports, and sports lighting. Designed for installations above 50ft, OmniMax maximize light output at ground level. It provides energy efficiency with up to 65% energy reduction and multiple lumen packages. Designed for retrofit and new construction projects, it includes advanced control options and a multi-level voltage protection feature for power quality protection.

CONSTRUCTION — Rugged die-cast aluminum alloy housing is coated with durable paint for corrosion resistance. The finish achieves a scribe creepage rating of 10 after exposure to salt fog chamber testing.

The product features enhanced corrosion resistance with an anodized pre-finish, achieving a scribe creepage rating of 10 after exposure to salt fog. It has a four-bolt horizontal arm mount with vertical adjustment, accommodating arms from 1-1/4" to 2". The design allows easy access to LED drivers and terminal block. IP65 electrical assembly ships in one carton for easy installation, reducing carton waste at the job site.

OPTICS — Zero uplight optics reduce sky glow and meet Dark Sky requirements. Prismatic glass optics create an overlapping pattern in the application space, eliminating dark spots. They also minimize direct LED visibility and reduce glare. A rotatable optic assembly aligns asymmetrical distribution to the roadway.

ELECTRICAL — Onboard operations control center — integrated to enable manual adjustment of light output and input wattage to suit specific site needs, enabling versatile use of a single fixture in various settings. The module comes preset at 100% output.

ARCHIPELAGO luminaires and LED components has been tested by independent laboratory in accordance to IESNA LM79 and LM80. LED color temperature is warrantied to shift no more than <6 SDCM over the standard warranty period. Furthermore, the range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Applications



Highways



Interchanges



Rail Yards



Security

Main Features

- Die-Cast Aluminum Housing with Anti-UV Polyester Powder Coating Offers Over 1000 Hours of Corrosion and UV Resistance
- Black, Gray, Bronze, and Custom Housing Color Options
- IK09 Tempered Modular Glass Lens
- -165° to 180° Optical Horizontal Rotation
- Multiple Optical Distribution Options
- Unique Back Design Provides Reliable Heat Dissipation
- 8-WATTselect
- Remote Control System Compatible
- 120-277V and 277-480V Options Available
- IP65 Wet Rated
- Easy to Install and Operate
- Instant Start, NO flickering, NO humming
- Surge Protection up to 20KV
- UL, cUL, DLC-V5.1 certified

Product Warranty*



10-Year Warranty



100,000 Hrs

* Standard warranty. Extended warranty available.

Archipelago Lighting, Inc.

| **Headquarter:** 4615 State Street, Montclair, CA 91763

| **USA Production:** 7345 Sycamore Canyon Blvd, Riverside, CA 92508

Contact Us

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Highlights

Features		Description
8-WATTselect		Wattage selectable: 8-way dip-switch
TAA-Compliant		Optionally may be Made in Mexico. More market utility and broader implementations across commercial and government projects.
Storm Surge Protected		Up to 20KVa SPD in-line surge protection in addition to the 6KVa SPD built-in to the driver
High Performance		Up to 750W, replacing up to 1000W+ HID
Standard Extended Warranty		Up to 10-Year, 100,000 Hrs

Model Specifications

Model	WATTselect (W)	Lumen (lm)	Efficacy (lm/W) ¹	CCT (K)	Voltage (V)	CRI	Optics	Photocell	Finish
LHMF8W500	125W	17,875lm	143lm/W	3000K 4000K 5000K	120-277V 277-480V	>70	Type-V (Standard)	Photocell Ready	Black (Standard)
	200W	28,600lm	143lm/W				Type-II Type-III Type-IV (Optionally Available)		Gray Bronze RAL # (Optionally Available)
	250W	35,750lm	143lm/W						
	300W	42,900lm	143lm/W						
	350W	50,050lm	143lm/W						
	400W	57,200lm	143lm/W						
	450W	64,350lm	143lm/W						
	500W	71,500lm	143lm/W						
LHMF8W750	200W	28,600lm	143lm/W						
	300W	42,900lm	143lm/W						
	375W	53,625lm	143lm/W						
	450W	64,350lm	143lm/W						
	525W	75,075lm	143lm/W						
	600W	85,800lm	143lm/W						
	675W	96,525lm	143lm/W						
	750W	107,250lm	143lm/W						

1. Default settings on WATTselect is max wattage.
2. Measured at 5000K.

Project Details

Project Name:

Fixture Schedule:

Project Number:

Notes:

Key Specifications

- Chip: Seoul SMD5050
- Housing: IP65 aluminum die-cast
- Operating Temp: -40°F–176°F
- Input Voltage: 120-277Vac or 277-480Vac
- IP: UL Wet Location Listed, IP65
- PF: >0.9 Non-Flicker
- Efficacy: 142LM/W
- Dimming: 0-10V
- THD: <20%
- CRI: >70
- BUG: B5-U0-G5

Certifications



**Directional Beamspread**

Control up to 165° of directional light spread where it is needed. This allows for easier multi-fixture installations on a single pole.

Standard Masting

Easy to wire up and install onto masting arms (1.65" - 2.36"). Comes with built-in leveler to ensure proper horizontal placement

Rugged Construction

Die-cast aluminum alloy housing is coated with durable paint for corrosion resistance.

Advanced Prismatic Optics

Zero uplight optics reduce sky glow and meet Dark Sky requirements.

Glare Shield (Optional)

Reduce unwanted glare by pairing the OmniMax with an optional glare shield

Ordering Guide¹

Model Series	WATTselect (W)	CCT (K)	Voltage	Series	Finish ²	Distribution ³	Photocell Ready
LHMF LED High Mast Luminaire	8W500 500W Max 8W750 750W Max	- 40 4000K 50 5000K	U 120-277V H 277-480V	OM OmniMax	B Black D Dark Bronze W White # Custom RAL#	2 Type-II 2 Type-III 4 Type-IV 5 Type-V	RB3 3-Pin Receptacle Base w/ Shortening Cap
CATALOG #:							
LHMF		- 3		H1	-	5	/ RB3

Finish Options

Dark Bronze	Black (Default)	Silver	White
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Options Guide²

Photocell	Surge Protection ³
<input type="checkbox"/> UM3 3-Pin / 120-277V <input type="checkbox"/> HM3 3-Pin / 277-480V	<input type="checkbox"/> SP10U 10KV _a / 277V <input type="checkbox"/> SP10H 10KV _a / 480V <input type="checkbox"/> SP20U 20KV _a / 277V <input type="checkbox"/> SP20H 20KV _a / 480V
OPTIONAL ACCESSORIES #:	
	/

NOTE:

- Only one selection may be applicable within the same category.
- Standard finish is Dark Bronze. Service fees applicable for different finishing.
- Multiple selections may be applicable within the same option category. See Compatible Accessories below for details.
- Standard driver on-board SPD = 10KV_a

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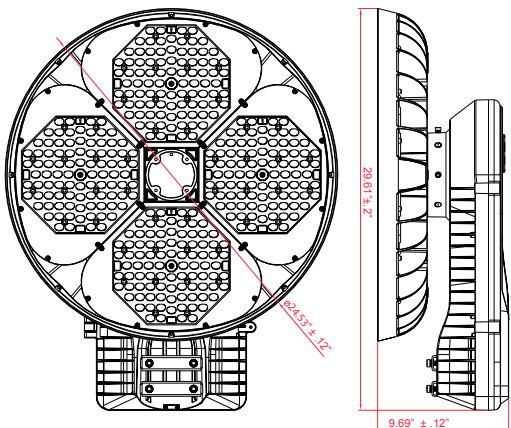


DLC Model Guide

Product ID	Model No.*	Controls	Watt	Lumen	Efficacy	CCT	THD	PF
S-L8KWJ2	LHMF8W500-40U0M/a/5	No	521	74,279	143m/w	4000K	<15%	>0.9
S-KFWYQW	LHMF8W500-50U0M/a/5	No	520	74,438	143m/w	5000K	<15%	>0.9
S-KFWYQW	LHMF8W750-40U0M/a/5	No	766	106,370	143m/w	4000K	<15%	>0.9
S-G534GG	LHMF8W750-50U0M/a/5	No	765	106,548	143lm/w	5000K	<15%	>0.9
* DLC Premium								

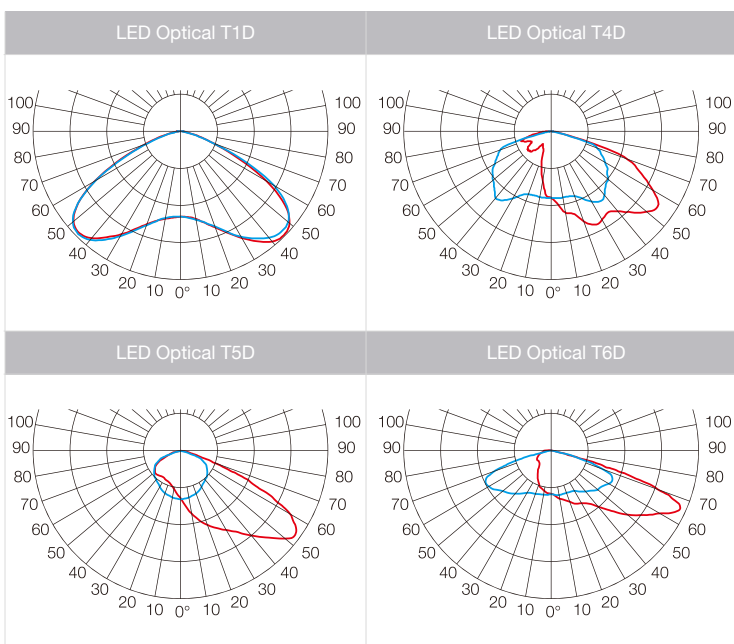
Sizing & Measurements

Series	Height (in)	Width (in)	Depth (in)
LHMF-OmniMax	29.61" ± .2"	ø 24.53" ± .12"	9.69" ± .12"





Technical drawing of the LHMF-OmniMax fixture. The top view shows a circular fixture with a central square cutout and four octagonal LED modules. The side view shows the fixture's profile with a height of 29.61" ± .2". The detail view shows the mounting bracket with a width of 9.69" ± .12" and a depth of 2.19" ± .02".

Photometrics



Compatible Accessories

Category	Ordering Code	Model No.	Description	Sub-Assembly & Compatible Controllers		
				Ordering Code	Model No.	Description
Photocell	 UM3 HM3	LSBX-L1/PCS/UM3 LSBX-L1/PCS/HM3	3-Pin / 120-277V 3-Pin / 277-480V			
Surge Protection	 SP10U SP10H SP20U SP20H	10SP/277 10SP/480 20SP/277 20SP/480	In-Line SPD 10KVa 277V In-Line SPD 10KVa 480V In-Line SPD 20KVa 277V In-Line SPD 20KVa 480V			