



# MAKO-LED Series

LED GENERAL & EMERGENCY LIGHTING



PROJECT: \_\_\_\_\_  
 FIXTURE TYPE: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 CONTACT/PHONE: \_\_\_\_\_

## PRODUCT DESCRIPTION

An indoor/outdoor architecturally styled high performance LED Luminaire available with 'normally-on' operation powered by line voltage, emergency operation powered by a Nickel-Cadmium battery source or a combination of both. Low profile, die-cast aluminum housing available in four powder coat finishes: dark bronze, white, nickel and black.

## PRODUCT SPECIFICATIONS

### CONSTRUCTION

Die cast aluminum housing • Scratch resistant Polyester powder coat finish • UV stabilized polycarbonate lens with prismatic pattern designed for path of egress distribution • Molded mirror finish reflector • Snap-fit housing and mounting plate are held together by four stainless steel clips • Universal mounting pattern molded into the back plate • Threaded top access for surface conduit installation • Silicone rubber seal with hollow center, shape adaptive design protects the electrical components • Junction box neoprene seal is attached to the back plate for a weather proof installation • Dark Bronze, Black, White or Nickel textured finish.

### ELECTRICAL

Dual voltage 120/277VAC 60Hz input • Solid state charging and switching • Battery low voltage disconnect • AC power indicator and test switch at the bottom of the unit • Self Diagnostics standard on battery units.

### LAMPS

Supplied with two CREE LED lamps for redundancy • 11 Watts total • 1080 Lumens 5000K color temperature • Features a UV stable mirror-bright reflector and prismatic polycarbonate refractor for ideal light output.

### BATTERY

Maintenance-free NiCad battery will operate fixture for a minimum of 90 minutes in the event of a power outage.

### CODE COMPLIANCE

UL924 • Listed for wet location applications (0°C-50°C) • Optional "IH" cold weather package for (-20°C-50°C) • IP65 Rated • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant.

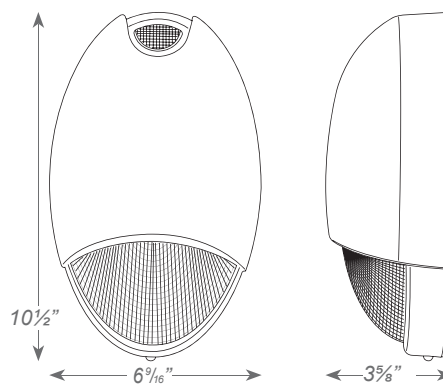
### WARRANTY

5-year warranty. Product specifications subject to change without notice.

## INSTALLATION

### MOUNTING

Suitable for indoor or outdoor wall mounting on junction box, or with surface conduit using the supplied 1/2" threaded top access • Mounting plate has molded universal mounting pattern for simple mounting over junction box.



### ACEM Model (NiCad Battery Backup)

**Integral photocell:** Unit operates as a dusk to dawn luminaire and in the event of a power failure as an emergency light.

**Remote Switched:** The integral photocell can be defeated to allow remote switching for normal operation. In the event of a power failure unit operates as an emergency light.

**Normally Off:** Both the photocell and switch options can be defeated for use as a standard emergency light that only operates in battery backup mode in the event of power loss.

### AC Model (No Battery Backup)

**Integral photocell:** Enables operation as a dusk to dawn general lighting luminaire.

**AC Only :** The integral photocell can be defeated to allow remote switching as a general lighting luminaire.



## ORDERING INFORMATION

model	operation mode	housing color	options
MAKO-LED	ACEM = General & Emergency Lighting	DB = Dark Bronze	IH = Internal Battery Heater
	AC = General Lighting Only	WH = White	USA = Assembled in USA
		BK = Black	
Ordering Example: MAKO-LED-ACEM-DB		NK = Nickel	



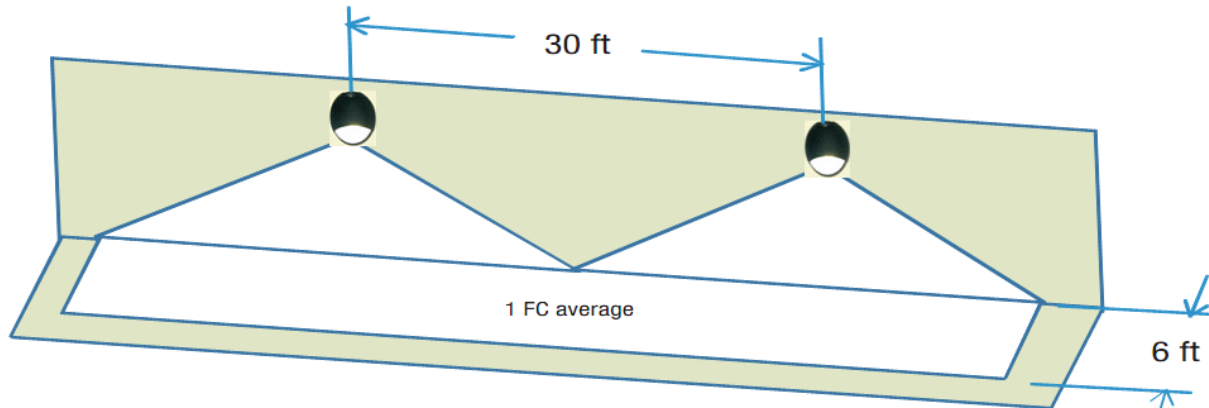
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## PHOTOMETRICS



**Note:** Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Illustration shown is a guideline for corridor center-to-center with 9 ft mounting height and Minimum 80-50-20 reflectance values.

## BATTERY DATA

- NiCad battery warranted for one full year
- Recharges in 48 hours or less

Type	Battery Voltage	Shelf Life <sup>1</sup>	Expected Life <sup>1</sup>	Ambient Temperature Range <sup>2</sup>
NiCad	4.8V	10 years	5-8 years	32°F to 122°F (0° to 50°C)
NiCad with heater (IH option)	4.8V	10 years	5-8 years	-4°F to 122°F (-20° to 50°C)

<sup>1</sup> At 77°F

### Included Self Diagnostic

<b>Diagnostic Indicator / Test Switch</b>	<span style="color: green;">●</span> Ready	<b>Manual Testing</b> Press button once - 1 minute test Press button twice - 5 minute test Press button 3 times - 30 minute test Press button 4 times - 90 minute test
	<span style="color: green;">●</span> In Test	
	<span style="color: red;">●</span> Battery Circuit Fault	
	<span style="color: red;">●</span> Battery Capacity Failure	
	<span style="color: red;">●</span> Charger Failure	
	<span style="color: red;">●</span> Transformer Fault	
	<span style="color: red;">●</span> Lamp Failure	

*Full self-test, self-diagnostic system is standard in every unit, performs a monthly, test as well as continuously monitoring all functions to ensure reliability, a manual test may be initiated at any time*