

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



## **FEATURES**

- Standard EV model has 30' spacing on a 6' path
- Optional -02L model increases spacing to 52' on a 6' path
- · High impact, flame rated and UV stable white thermoplastic housing
- Fully adjustable high output LED lamp-heads
- Environmentally friendly Nickel Metal Hydride (NiMH) battery
- · Top mount conduit entry
- Remote capacity models have a minimum run-time of 120 minutes when no remotes are installed













## SERVICE PROGRAMS

# STCCK

## **SPECIFICATIONS**

### **APPLICATION**

- The EV Series is a compact, architectural emergency lighting unit designed for fast wall or ceiling mount installation and reliable service
- The EV Series has a flame-rated, UV stable thermoplastic housing and a lightly textured white finish
- Integral LED based lamp-heads are fully adjustable
- Unit provides a full 90 minutes of emergency lighting
- Includes micro-controlled pulse charger and Nickel Metal Hydride (NiMH) battery
- The EV accepts 120/277VAC input at 60 Hz and optional 220-240VAC input at 50-60 Hz with Spectron® self-diagnostics

# CONSTRUCTION

- The EV Series housing and back-plate are made from durable injection molded thermoplastic
- Lamp-head front halves are made of die-cast aluminum for thermal dissipation
- Back half of lamp-head made of ABS thermoplastic
- · LED lenses are made of acrylic.

# INSTALLATION

- Universal mounting template molded in the back plate aids in quick installation
- Unit mounts to all single gang and standard 3 1/2" and 4" square or octagonal electrical boxes. Molded-in knockout at the top center permits surface conduit entry
- Pre-stripped AC input leads provided
- · Unit may be ceiling or wall mounted

## ILLUMINATION

- The EV Series provides bright and uniform illumination and increased spacing by using 2 high power LEDs which are mounted in a specially designed heat dissipation lamp-head
- Each lamp-head is fully adjustable and positioning is maintained by a friction fit design
- Photometrics are available for download on Dual-Lite website.

## COMPLIANCES

- Listed to UL924 Standard, NFPA 101, NFPA 70
- Damp Location Listed Optional
- RoHS
- CEC T20 Compliant

## WARRANTY

- LED Lifetime Warranty
- EV Full 3 year warranty
- EV with Spectron® Full 5 year warranty

KEY DATA				
Lamp Color	Cool White			
Total Lamp Output	1W, 125 Lumens per LED 2W (optional), 205 Lumens per LED			
System Efficacy (LPW)	125			
Rated LED Lifecycle (Hours)	> 100,000			





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Example: EV2DI-B

# ORDERING GUIDE

CATALOG #

E۱	/							_		
Mod	del	Ca	apacity	Rating		Self-Di	agnostics		Option	ıs
EV	EV Series	2	1W LED Heads <sup>2</sup>	Blank	Standard Mode	Blank	No Self-Diagnostics		В	Black Finish
		4	1W LED with remote capacity 1	D	Damp Location Listed	I	Spectron® Self-Test/ Self-Diagnostics		24K	220-240VAC 60Hz with Spectron <sup>® 3</sup>
			Сараспу		Liotod				02L	2 watt LED heads 4,5
									0	No-head option to run external remotes only <sup>6</sup>

#### Notes:

- 1 Capacity to run 2 head remote (EVR2 or EVO)
- 2 EV2 without Options available with or without damp listing. All other configurations require Rating "D" for Damp Location
- 3 -24K option only available with damp plus Spectron®
- 4 Not capable of running remote heads
- 5 Can only be run from EV4 model
- 6 -0 No-head option only available with EV4D-02L, with or without Spectron®

NOTE: Remote Capacity Option will only power the EVR2 and EVO remotes

Note: Remote Capacity models have a minimum run-time of 120 minutes when no remotes are installed

Accessories		
EVR2	2 LED Indoor Remote	•
EVR2B	2 LED Remote with Black Finish	A
_ EVO	Outdoor Remote	
☐ WGA1	Wire Guard	0
☐ VRS	Vandal Resistant Shield	A A

## **ELECTRONICS**

Upon failure of normal utility power, a solid-state transfer switch automatically activates the emergency LED lamp-heads. Upon resumption of normal utility power, the battery is disconnected from the load and recharged through a microprocessor controlled pulse charger. The battery is a maintenance-free Nickel Metal Hydride (NiMH) type. The EV series accepts dual-voltage input of 120 or 277VAC at 60 Hz, or an optional 220-240VAC input at 50-60 Hz. A low voltage battery disconnect (LVD) feature protects the battery from severe damage during prolonged power failures. Manual testing is available at any time using the push-to-test button. Number of Lamps- 2 High Power LEDs at 1 watt each configured so that if 1 lamp malfunctions, the remaining lamp will continue to provide illumination. The -0 (no-head) option will power 1 double-head remote (EVR2 or EVODW) at 2 watts per lamp or it can power 2 double-head remotes at 1 watt per lamp. This option allows the battery to be located in a conditioned environment.

## STANDARD FEATURES INCLUDE

- Intelligent 2-wire input connection
- · External push-to-test switch and AC-on indicator
- Battery re-charge within 24 hours
- · AC Lock-out circuit
- · Low voltage disconnect
- · Conduit entry knock-out located at the top center
- · Microprocessor controlled pulse charger

# **OPTIONAL SPECTRON® FEATURE**

- Self-diagnostics monitors LED status, LED load transfer circuit, battery capacity and charger function and displays any fault detection by means of a flashing code
- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30 or 60 minute test once every 6 months. Multi-color LED indicator provides visible fault detection and charging status.
- User initiated 1 or 90-minute system test feature
- 15 minute re-transfer delay
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage)

### **OPERATING TEMPERATURE RANGE**

Standard: 68° to 86°F (20° to 30°C)

Damp Listed: 50° to 104°F (10° to 40°C)

# WEIGHT

2.0 lbs





ARCHITECTURAL LED EMERGENCY LIGHT

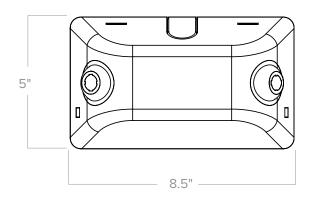
DATE:	LOCATION:
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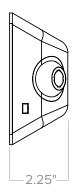
# MAXIMUM POWER CONSUMPTION

	AC Voltage	Hz.	Amps.	Watts	Power Factor
0	120	60	0.015	1.10	0.61
EV2 EV2D	240	60	0.009	1.43	0.62
— ш	277	60	0.008	1.45	0.62
	120	60	0.022	2.00	0.73
EV4D	240	60	0.015	2.51	0.65
Ш	277	60	0.014	2.75	0.63

Maintenance mode power consumption less than 0.5 watts.

# **DIMENSIONS**





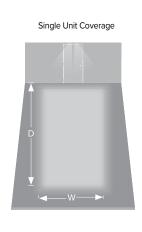
# **APPLICATION INFORMATION**





1 fc Average				1 fc Minimum	
	Using 1 Watt Heads	Using 2 Watt Heads		Using 1 Watt Heads	Using 2 Watt Heads
Path Width (PW)	Spacing (S)	Spacing (S)	Path Width (PW)	Spacing (S)	Spacing (S)
6'	30'	52'	6'	15'	18'

Notes:
Meets Life Safety Code minimum illuminance of 0.1 fc and average illuminance of 1.0 fc.
Assumes open space with no obstructions, mounting height of 7.5°, ceiling height of 9' and reflectances of 80/50/20.
Photometry files available on the Dual-Lite web site.



1 fc Average					
Using 1 W	Using 1 Watt Heads				
Depth (D)	Width (W)				
15'	10'				
Using 2 V	Vatt Heads				
Depth (D)	Width (W)				
25'	10'				
1 fc Minimum					
Using 1 W	Using 1 Watt Heads				
Depth (D)	Width (W)				
15'	10'				
Using 2 Watt Heads  Depth (D) Width (W)					