



# EVC Series

LED EMERGENCY LIGHT/EXIT SIGN

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG #: \_\_\_\_\_

## FEATURES

- Architectural LED based exit and emergency light for wall, ceiling or end mounting commercial applications
- High impact, flame rated and UV stable white thermoplastic housing
- SW- Available with Special Wording
- 2C- 2 circuit operation
- FAP- Fire Alarm Panel
- FM- Flasher Module
- AF- Audible Flasher
- DC- Remote DC Operation
- 24K- 220-240VAC Input
- EV Unit Indoor Emergency Light



## SPECIFICATIONS

### APPLICATION

- The EVC Series is a compact architectural LED combination exit and emergency light designed for fast installation and reliable service.

### CONSTRUCTION

- The EVC Series housing and canopy are made from durable injection molded ABS thermoplastic. Lamp-head front halves are made of die-cast aluminum for thermal dissipation
- The back half of the lamp-heads are made of ABS thermo-plastic.
- LED lens are made of acrylic
- The EVC Series has a flame-rated, UV stable thermoplastic housing with a lightly textured white or black finish. Integral LED based lamp-heads are fully adjustable

### ELECTRICAL

- Unit provides a full 90 minutes of exit and emergency lighting
- Includes micro-controller based 3 stage constant current/constant voltage charger, and a long-life lithium iron phosphate(LiFePO<sub>4</sub>) battery
- The EVC accepts 120/277VAC input at 50 or 60Hz and optional 220-240VAC input at 50 or 60 Hz with self-diagnostics option

### INSTALLATION

- EVC Series can be wall mounted by use of back-plate with molded-in template, or ceiling and end mounted with the use of supplied canopy to standard 3-1/2" or 4" square or octagonal electrical boxes
- Conduit entry through a molded-in entry point at the top center
- Pre-stripped AC input leads provided.

### ILLUMINATION

- The EVC Series provides bright and uniform illumination and increased coverage by using 2 high power LED's which are mounted in a specially designed heat dissipating lamp-head
- Exit cavity illumination by red or green LED's with 10 year lifecycle. Each lamp-head is fully adjustable to the front or rear and side to side by use of a dual axis ratcheting design. Photometrics are available for download on the Dual-Lite website..

### COMPLIANCES

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

### WARRANTY

- Fixture: 3 years full, 5 years Full with Spectron®
- Battery: 3 years full, 7 years pro-rata
- LED Lifetime Warranty on Emergency Unit

KEY DATA	
Lamp Color	Cool White
Total Lamp Output	88 Lumens per LED
System Efficacy	80lm/W
Rated Lifecycle	> 100,000hrs or 10 years
Input Current Range	
Standard:	120/277VAC, 50 or 60 Hz
Self Diagnostics Option:	220-240VAC, 50 or 60 Hz



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## ORDERING GUIDE

Example: EVCURWD4-0

CATALOG #

EVC		U									
Model	Faces	Letter Color	Finish	Application		Self-Diagnostic		Options			
EVC	Combination LED Emergency Light/Exit Sign	U Universal Face	R Red G Green	W White B Black <sup>7</sup>	Blank Standard Mode D4 2 LED Remote Capacity D Damp Listed <sup>2</sup>	Blank None I Self-Diagnostics Spectron® Self Diagnostics <sup>6</sup>	<b>O</b> No Lamp-Heads <sup>3</sup> <b>FAP</b> Fire Alarm Panel <sup>15</sup> <b>FM</b> Flasher Module <sup>15</sup> <b>AF</b> Audible Flasher <sup>15</sup> <b>24K</b> 220 - 240 VAC 50, 60 Hz with Spectron® <sup>4</sup>				

- Notes:
- 1 Can only be specified with Spectron® Self-Diagnostics and remote capacity
  - 2 Damp Location not available with EVCURW and EVCUGW base models, standard with all other models
  - 3 No-head option only available on the EVC with remote capacity
  - 4 -24K option only available with Spectron® Self-Diagnostic and remote capacity
  - 5 AF, FM and FAP options may not be specified together
  - 6 Spectron® Self-Diagnostics only available with damp option
  - 7 Black finish only available with damp option

**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

**EV Unit** 2 LED Indoor Emergency Light



**EVR2** Indoor Remote



**EVR2B** 2 LED Remote with Black Finish



**EVO** Outdoor Remote



**VRS3** Vandal Resistant Shield



**WGLXC** Wire Guard (Ceiling Mount)



**WGLXE** Wire Guard (End Mount)



Reference "Remote Heads and Fixtures" specification sheet for information on matching LED remote heads

## ELECTRONICS

Upon failure of normal utility power, a solid-state transfer switch automatically activates the emergency LED lamp-heads and exit LED's. Upon resumption of normal utility power, the battery is disconnected from the load and recharged through a micro-controller based 3 stage constant current/constant voltage charger. The battery is a maintenance-free Lithium Iron Phosphate (LiFePO4) type which operates at 6.4 VDC. The EVC series accepts dual-voltage input of 120 or 277VAC at 50 or 60 Hz, or an optional 220-240VAC input at 50 or 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.

## STANDARD FEATURES INCLUDE

- External push-to-test switch and AC-on indicator
- Battery re-charge within 24 hours
- AC Lock-out circuit
- Low voltage battery disconnect
- Conduit entry 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°F to 86°F (20° to 30°C)
- Damp Listed: 50°F to 104°F (10° to 40°C)

## WEIGHT

2.0 lbs



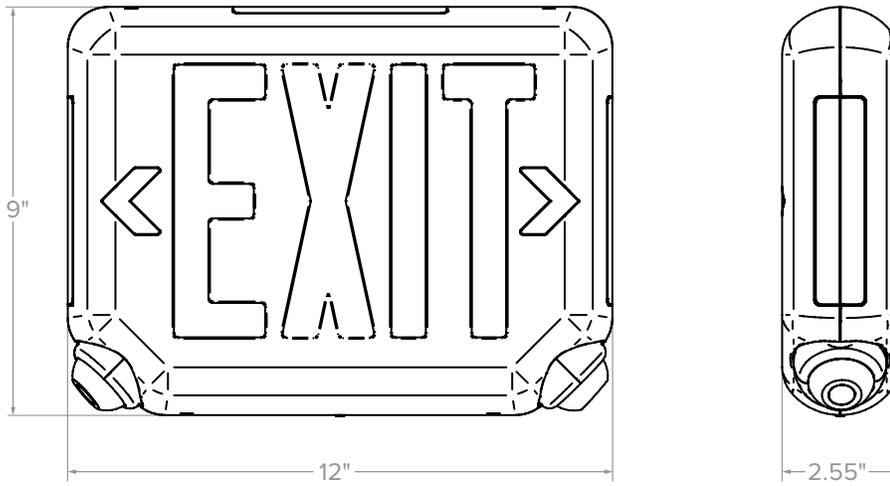
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## MAXIMUM POWER CONSUMPTION

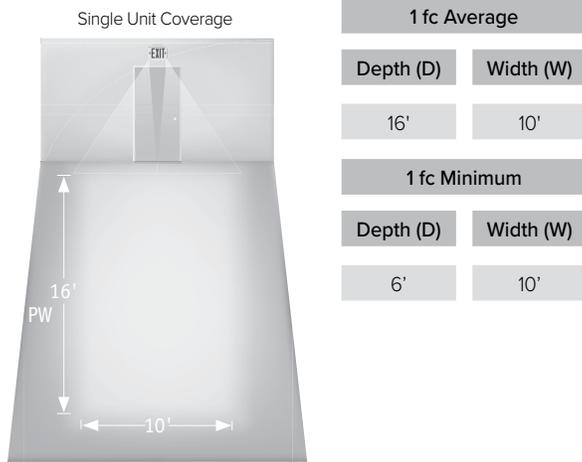
	AC Voltage	Hz.	Amps.	Watts	Power Factor
EVC	120	60	0.021	1.65	0.65
	277	60	0.017	2.42	0.52

## DIMENSIONS



Overall height with Canopy is 9.8"

## APPLICATION INFORMATION



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 ([www.dual-lite.com](http://www.dual-lite.com)).