

Catalog Number
Notes
Type

## FEATURES & SPECIFICATIONS

**INTENDED USE** — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for mounting heights from 7.5' to 30'. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**CONSTRUCTION** — The housing is a standard white (black optional) thermoplastic with a compact and low-profile contemporary design. It is SVA flame rated, impact-resistant, scratch-resistant and corrosion proof. The UV-stable resin resists discoloration from natural and man-made light sources. There is a low-profile, integrated and back-lit test switch with an easily visible multi-color LED status indicator. The back-plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance. **US Patents Pending.**

The lamp heads have a unique track-and-swivel arrangement permitting full range of direction of optical aiming.

**OPTICS** — The ELM4L features two high-performance LEDs rated at 3.3 watts per lamp head and delivers a total of 640 lumens in a spot pattern (SP640L).

The ELM6L features three high-performance LEDs rated at 5.3 watts per lamp head and delivers a total of 1,100 lumens in a spot pattern (SP1100L).

The typical life of an LED is 10 years. The LED light sources typically never need to be replaced under normal conditions for normal off applications.

**ELECTRICAL** — Orderable in multiple voltages (see ordering tree for specific voltages.)

Current-limiting charger maximizes battery life and minimizes energy consumption to meet California Energy Commission Title 20 requirements for small battery charger systems and provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

**BATTERY:** Sealed, maintenance-free nickel-cadmium (ELM4L only) or Lithium Iron Phosphate battery. Optional High-Output (HO option) and Extra High Output (EHO option), LTP battery type only, provides a wide variety of remote capacities and/or extended run-times.

**SELF-DIAGNOSTICS and REMOTE TEST (SDRT option):**

Automatic 24-hour recharge after a 90-minute discharge.

Advanced electrical design provides constant light output throughout the entire discharge period.

Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Test switch and remote tester (ELA LRT accessory) provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (ELA LRT accessory).

**INSTALLATION** — Wall and ceiling mount standard. Blind-mate connector ensures easy installation and safe maintenance. 7/8" entrance provision at top of unit for standard 1/2" conduit entry. Tool-less removal of front cover from back-plate for ease of installation and maintenance.

**LISTINGS** — UL damp location listed standard and wet location listed when used with the WPVS accessory, all at 50-104°F (10-40°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC and OSHA.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



Contemporary Commercial LED Emergency Light



**ELM4L**  
640 Lumens

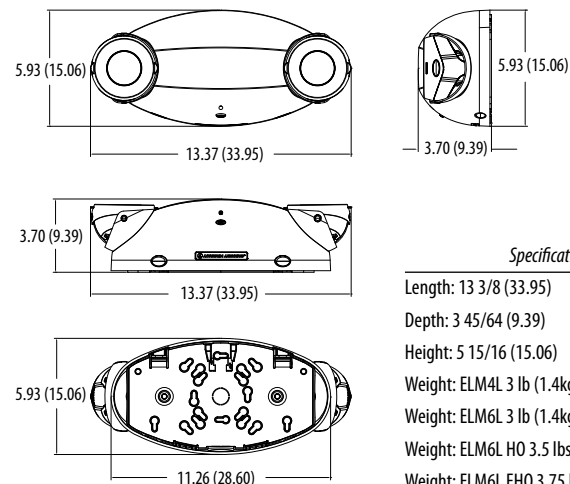
**ELM6L**  
1100 Lumens

**LITHIUM IRON PHOSPHATE  
NICKEL CADMIUM**



## MOUNTING

All dimensions are inches (centimeters) unless otherwise indicated.



# ELM4L-ELM6L Quantum® LED Contemporary Commercial Emergency Light

## NICKEL CADMIUM BATTERY MODELS

### ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

**Example:** ELM4L

Series	Lamp Type	Housing Color	Voltage	Battery Type	Automatic Testing	Options
<b>ELM4L</b> <sup>1</sup>	640 lumens, adjustable optics	<b>(blank)</b> SP640L 640 lumen, 6.6 watt, Spot Pattern, two lamp	<b>(blank)</b> 120/277 VAC/60Hz <b>120/347</b> 120/347 VAC/50-60Hz <b>SVOLT</b> 220-240 VAC/50-60Hz	<b>(blank)</b> Nicad	<b>(blank)</b> None	<b>(blank)</b> none RRL RELOC® Ready luminaire WPVS Wet protective vandal shield <sup>2</sup>

### Notes

- Does not support remote loads.
- Must be ordered when using for wet location applications.. WPVS breaks out and ships separately and color will match (ex: WPVS LRG B).

## LITHIUM IRON PHOSPHATE BATTERY MODELS

### ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

**Example:** ELM6L UVOLT LTP SDRT

Series	Lamp Type	Housing Color	Voltage	Battery Type	Automatic Testing	Options
<b>ELM4L</b>	640 lumens, adjustable optics	<b>(blank)</b> SP640L 640 lumen, 6.6 watt, Spot Pattern, two lamp	<b>UVOLT</b> 120-347 VAC	<b>LTP</b> Lithium Iron Phosphate	SDRT Self-diagnostics, remote test	TD Time Delay
<b>ELM6L</b>	1100 lumens, adjustable optics	<b>(blank)</b> SP1100L 1100 lumen, 10.6 watt, Spot Pattern, two lamp LLH Less lamp heads				HO High-output battery EHO Extra High-output battery RRL RELOC® Ready luminaire WPVS Wet protective vandal shield <sup>1</sup>

### Notes

- Must be ordered when using for wet location applications. WPVS breaks out and ships separately and color will match (ex: WPVS LRG B).

### The Only Compatible Remotes: Order as separate catalog number.

ELA W SGL LT24 LP03VS	Single LED indoor remote head, white
ELA W T LT24 LP03VS	Twin LED indoor remote head, white
ELA B SGL LT24 LP03VS	Single LED indoor remote head, black
ELA B T LT24 LP03VS	Twin LED indoor remote head, black
ELA W SGL LT24 LP06VS	Single LED indoor remote head, white
ELA W T LT24 LP06VS	Twin LED indoor remote head, white
ELA B SGL LT24 LP06VS	Single LED indoor remote head, black
ELA B T LT24 LP06VS	Twin LED indoor remote head, black



Single



Twin

See spec sheet [ELA LT24](#) for more information.



ELM4L-ELM6L mounted inside the WPVS

### BATTERY CAPACITY AND LOADING — LTP battery type only

Battery Option (LTP Only)	Total Capacity 90 Minutes	# of Remote LT24 LP03VS lamps 2.5-watts each	# of Remote LT24 LP06VS lamps 5.5-watts each
ELM4L	11 watts	1	NA
ELM4L HO	22 watts	6	2
ELM4L EHO	32 watts	10	4
ELM6L	11 watts	NA	NA
ELM6L HO	22 watts	4	2
ELM6L EHO	32 watts	8	3
ELM6L LLH	11 watts	4	2
ELM6L LLH HO	22 watts	8	4
ELM6L LLH EHO	32 watts	12	5

### Other Accessories: Order as separate catalog number.

WPVS LRG W	Wet protective vandal shield, white (must be used for wet location applications)
WPVS LRG B	Wet protective vandal shield, black (must be used for wet location applications)
ELA WG1	Wireguard, 15" W x 13-1/2" H x 6" D (see spec sheet <a href="#">ELA-WG</a> ).
ELA LRT	remote test (laser) for distances up to 15'

# ELM4L-ELM6L Quantum® LED Contemporary Commercial Emergency Light

## BATTERY CAPACITY FOR EXTENDED RUN-TIMES

Battery Option	Total Capacity 2 hours	Remote Capacity 2 hours*	Total Capacity 4 hours	Remote Capacity 4 hours*
ELM4L - LTP	8.25 watts	NA	NA	NA
ELM4L - HO	16.5 watts	9.9 watts	8.25 watts	NA
ELM4L EHO	24 watts	17.4 watts	12 watts	5.4 watts
ELM6L - LTP	8.25 watts**	8.25 watts**	NA	NA
ELM6L HO	16.5 watts	5.9 watts	8.25 watts**	8.25 watts**
ELM6L EHO	24 watts	13.4 watts	12 watts	12 watts**

\* Remote capacity left after using standard lamps shipped mounted on luminaire. ELM4L standard high performance LED lamp heads are rated at 3.3 watts each, delivering a total of 640 lumens. ELM6L standard high performance LED lamp heads are rated at 5.3 watts each, delivering a total of 1,100 lumens. These lamps are different in both wattage and performance from the LT24 compatible remotes. \*\* LLH option only

## SPECIFICATIONS

ELECTRICAL			
Primary Circuit			
Type	Volts	Input amps	Watts
Nicad	120	0.032	3.15
	347	0.036	3.15
Lithium Iron Phosphate (SDRT)	120	0.028	2.78
	347	0.033	2.78
Lithium Iron Phosphate (HO option)	120	0.046	4.77
	347	0.046	4.77
Lithium Iron Phosphate (EHO option)	120	0.052	5.95
	347	0.045	5.95

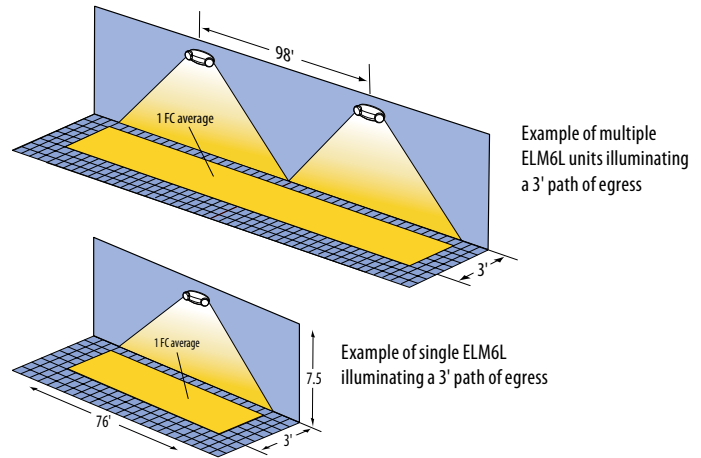
BATTERY			
Nicad			
Typical Shelf life <sup>1</sup>	Typical life <sup>1</sup>	Maintenance <sup>2</sup>	Optimum temperature <sup>3,4</sup>
3 years	7-9 years	none	50-104°F (10-40°C)
Lithium Iron Phosphate (standard and HO option)			
Typical Shelf life <sup>1</sup>	Typical life <sup>1</sup>	Maintenance <sup>2</sup>	Optimum temperature <sup>3,4</sup>
1 year	7-9 years	none	50-104°F (10-40°C)
Lithium Iron Phosphate (EHO option)			
Typical Shelf life <sup>1</sup>	Typical life <sup>1</sup>	Maintenance <sup>2</sup>	Optimum temperature <sup>3,4</sup>
1 year	7-9 years	none	50-104°F (10-40°C)

### Notes

- At 77°F ambient temperature, charge/discharge cycles and prolonged full discharge may reduce useful life.
- All life safety equipment, including emergency lighting for path of egress must be tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required testing could jeopardize the safety of occupants and will void all warranties.
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.
- Battery life is negatively impacted by many variables including temperature, charging rates, number of cycles and deep discharges due to long periods of time without AC power.

## SPACING GUIDELINES

\*Note: To see complete photometric report or download the .ies file for this product, visit Lithonia Lighting ELM4L and ELM6L home page.



### Maximum Spacing Guidelines — ELM4L

Mounting Height	Illumination Level	Single Luminaire		Multiple Luminaire		Application Notes
		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg <sup>1</sup>	62'	58'	67'	60'	100' Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg <sup>1</sup>	60'	58'	67'	60'	
7.5'	1FC Avg <sup>1</sup>	52'	40'	66'	58'	Retail open area: 200' X 15' X 30' with 80/50/20 reflectances
10'	1FC Avg <sup>1</sup>	52'	48'	51'	52'	
12'	1FC Avg <sup>1</sup>	52'	48'	51'	52'	
16'	1FC Avg <sup>1</sup>	52'	44'	54'	48'	
20'	1FC Avg <sup>1</sup>	44'	42'	49'	58'	
24'	1FC Avg <sup>1</sup>	34'	34'	42'	58'	

### Notes:

- Also meets the additional illumination requirements of NFPA 101: .1FC minimum and max/min ration of 40:1.

### Maximum Spacing Guidelines — ELM6L

Mounting Height	Illumination Level	Single Luminaire		Multiple Luminaire		Application Notes
		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg <sup>1</sup>	76'	74'	98'	90'	100' Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg <sup>1</sup>	76'	74'	98'	88'	
7.5'	1FC Avg <sup>1</sup>	60'	48'	77'	68'	Retail open area: 200' X 15' X 30' with 80/50/20 reflectances
10'	1FC Avg <sup>1</sup>	78'	56'	85'	82'	
12'	1FC Avg <sup>1</sup>	64'	66'	72'	74'	
16'	1FC Avg <sup>1</sup>	72'	68'	72'	74'	
20'	1FC Avg <sup>1</sup>	66'	64'	70'	68'	
24'	1FC Avg <sup>1</sup>	66'	56'	65'	62'	

### Notes:

- Also meets the additional illumination requirements of NFPA 101: .1FC minimum and max/min ration of 40:1.