LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

QUANTUM®

Contemporary Commercial LED Emergency Light

ELM2L
Aimable Optics

ELM2LF
Fixed Optics

LITHIUM IRON PHOSPHATE
Nickel Cadmium

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 lower mounting heights. **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 5VA 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**.

ELM2LF: Fixed lamp head arrangement for ease of installation and maximum path of egress aiming coverage with no aiming required for wall mount applications.

ELM2L: Unique track and swivel arrangement permits full range of direction for lamp head adjustment.

OPTICS — Both the ELM2L and ELM2LF feature two, high performance LEDs with acrylic lens' rated at 1.2 watts each and delivering a total of 220 lumens in a linear pattern (LP220L). 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.

CCT: 5000K.

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

Current-limiting charger maximizes battery life and minimizes energy consumption and provides low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database.

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

Regulated charge voltage maintains constant-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 or Lithium Iron Phosphate.

Lithium Iron Phosphate battery powers both on board LEDs and up to 2.4W additional LED remote lamp heads simultaneously or offers extended run-time up to 3 hours.

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 (RTKIT accessory) provide 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 post-poned for eight hours by activating manual test switch or use of remote tester (RTKIT accessory).

INSTALLATION — Wall mount and ceiling mount standard for ELM2L. Wall mount only for ELM2LF. 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 Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

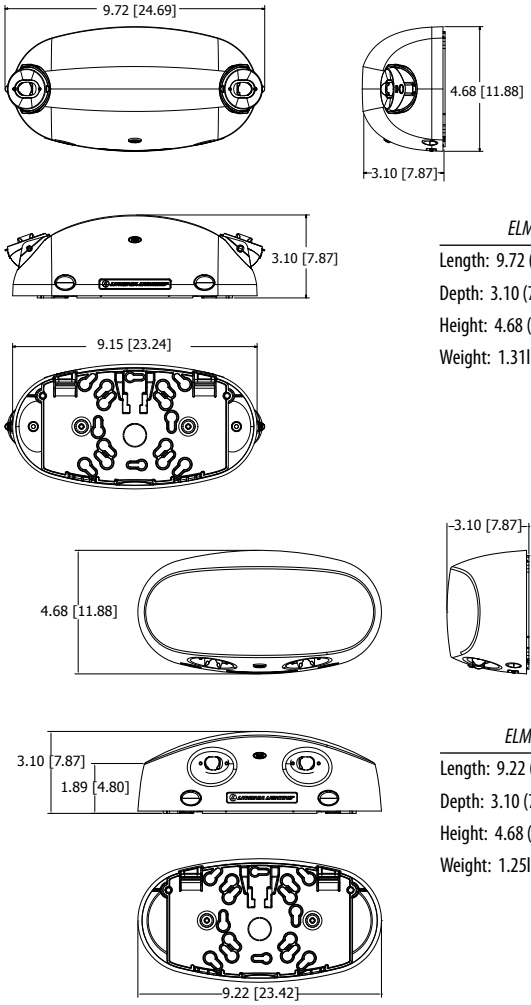
NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

LISTED LISTED

MOUNTING AND SPECIFICATIONS

All dimensions are inches (centimeters) unless otherwise indicated.



ELM2L Specifications

Length: 9.72 (24.69)
Depth: 3.10 (7.87)
Height: 4.68 (11.88)
Weight: 1.31lbs (0.59kg)

ELM2LF Specifications

Length: 9.22 (23.42)
Depth: 3.10 (7.87)
Height: 4.68 (11.88)
Weight: 1.25lbs (0.57kg)

ELM2L_ELM2LF Quantum® Contemporary Commercial LED Emergency Light

Looking for Contractor Select readily available configurations? Click here to visit Contractor Select™ spec sheet or go to www.contractorselect.com

NICKEL CADMIUM BATTERY MODELS

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

Example: ELM2LF

Series[1]	Lamp type	Housing color	Voltage	Battery type	Automatic Testing	Options
ELM2L Aimable optics **ELM2LF** Fixed optics	**(blank)** LP220L 220 lumen, 2.4 watt, linear pattern, two lamps	**(blank)** White B Black	**(blank)** 120/277 VAC/60Hz 120/347 120/347 VAC/60Hz SVOLT 220-240/50-60 Hz UVOLT 120 - 347 VAC, 50/60hz	**(blank)** Nicad	**(blank)** None SDRT Self Diagnostics, Remote Test[2]	**(blank)** None WPVS Wet protective vandal shield[3] USPOM Assembled in the US

Notes
1 ELM2L and ELM2LF with Nicad battery type not available with remote capacity.
2 SDRT only available with UVOLT.
3 WPVS breaks out and ships separately and color will match (ex: WPVS SML B). Must be ordered when using for wet location applications. Decreases delivered lumens up to 20%. See spec sheet WPVS for more information.

LITHIUM IRON PHOSPHATE BATTERY MODELS

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

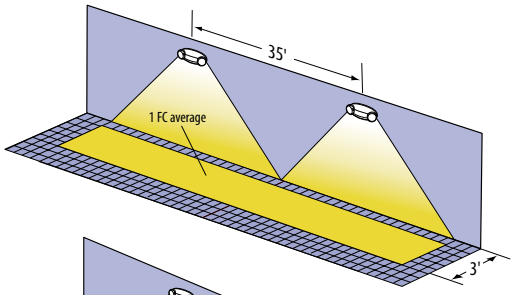
Example: ELM2LF UVOLT LTP

Series[1]	Lamp type	Housing color	Voltage	Battery type	Automatic Testing	Options
ELM2L Aimable Optics **ELM2LF** Fixed Optics	**(blank)** LP220L 220 lumen, 2.4 Watt, Linear Pattern, two lamps	**(blank)** White B Black	UVOLT 120 - 347 VAC, 50/60hz	**LTP** Lithium Iron Phosphate[1]	**(blank)** None SDRT Self-diagnostics, remote test[1,2]	**(blank)** None WPVS Wet protective vandal shield[3] USPOM Assembled in the US

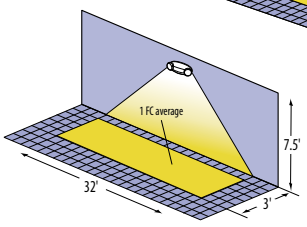
Notes
1 Extended run-time or remote capacity is standard. New ELMRE style remotes are compatible with both SDRT and non-SDRT versions (see page 3).
2 SDRT not compatible to run previous generation ELA LED or current ERE style remotes (see page 3).
3 WPVS breaks out and ships separately and color will match (ex: WPVS SML B). Must be ordered when using for wet location applications. Decreases delivered lumens up to 20%. See spec sheet WPVS for more information.

SPACING GUIDELINES

*Note: To see complete photometric report or download the .ies file for this product, visit Lithonia Lighting ELM2L or ELM2LF home page.



Example of multiple ELM2L luminaires illuminating a 3' path of egress.



Example of single ELM2L illuminating a 3' path of egress.
* Application image examples are using LP220L lamp.

Maximum Spacing Guidelines — ELM2LF

Mounting Height	Illumination Level	Single Luminaire Coverage		Multiple Luminaire Spacing		Application Notes
		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg[1]	32'	20'	35'	28'	100' Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg[1]	20'	NA	27'	24'	

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

Maximum Spacing Guidelines — ELM2L

Mounting Height	Illumination Level	Single Luminaire Coverage		Multiple Luminaire Spacing		Application Notes
		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg[1]	32'	24'	35'	28'	100' Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg[1]	20'	14'	27'	23'	

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

Other Accessories: *Order as separate catalog number.*

WPVS SML W	Wet protective vandal shield (must be used for wet location applications)
WPVS SML 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 ELA-WG)
RTKIT	Remote test kit, up to 40' away (includes goggles, laser and battery)


ELM2L mounted inside the WPVS (white)


ELM2LF mounted inside WPVS (white)

EMERGENCY: One Lithonia Way, Conyers, GA 30012 Phone:800-705-SERV (7378) techsupport-emergency@acuitybrands.com www.lithonia.com

INDOOR/ DAMP LOCATION REMOTES

ELMRE Compatible Remotes [1,2,3]

LTP Compatible Remote Accessories: *Order as separate catalog number.*	
ELMRE LP220L SGL	Single LED Indoor remote head, white.
ELMRE LP220L T	Twin LED Indoor remote heads, white.
ELMRE LP220L FXO	Twin LED Indoor remote heads, fixed lamps, white.

Notes
1 Compatible with SDRT and non-SDRT versions.
2 Order the WPVS accessory for wet location listing and vandal protection.
3 See spec sheet ELMRE

BATTERY CAPACITY AND LOADNG - ELMRE REMOTES		
Battery Option	**Total Capacity**	**Maximum # of Remote Lamp heads**
LTP	4.8W	2- ELMRE LP220L SGL M12
		1 - ELMRE LP220L T M12
		1 - ELMRE LP220L FXO

* In addition to the lamp heads on the product.


ELMRE LP220L SGL


ELMRE LP220L T


ELMRE LP220L FXO

OUTDOOR / WET LOCATION REMOTES

Compatible Remotes (Non-SDRT versions only)

LTP Compatible Remote Accessories: *Order as separate catalog number.*	
ELA QWP L0309	Single LED weather-proof remote head, gray. See spec sheet ELA-Q-LED.[1]
ERE GY SGL WP SQ M12	Single, weather-proof remote head, square, gray, 1W, 3.6V-12V voltage sensing. See spec sheet ERE.[1]
ERE GY T WP SQ M12	Single, weather-proof remote head, square, gray, 2W, 3.6V-12V voltage sensing. See spec sheet ERE.[1]

1. Not compatible with SDRT option on ELM2LF or ELM2L.

BATTERY CAPACITY AND LOADING		
Battery Option	**Total Capacity**	**Maximum# Remote lamp heads***
LTP	4.8W	2 - ERE GY SGL WP SQ M12
		1 - ELA QWP L0309
		1 - ERE GY T WP SQ M12

* These are in addition to the lamp heads on the product.


ELA QWP


ERE SQ (Single WP)


ERE SQ (Twin WP)


ELMRE LP220L with WPVS SML W
(-30-40°C @ 7-30VDC input)
(order WPVS separately)

SPECIFICATIONS

ELECTRICAL			
Primary Circuit			
Type	**Volts**	**Input amps**	**Watts**
Nicad	120	0.018	1.09
	347	0.012	1.34
Lithium Iron Phosphate	120	0.022	1.35
	347	0.014	1.64

LTP EXTENDED RUN-TIMES	
Products	**Total Run-time with no remotes**
ELM2L LTP	3 hours
ELM2LF LTP	3 hours

BATTERY			
Nicad (6V)			
Typical Shelf life[1]	**Typical life[1]**	**Maintenance[2]**	**Temperature Range[3,4]**
3 years	7-9 years	none	50°-104°F (10-40°C)
Lithium Iron Phosphate (9.6V)			
Typical Shelf life[1]	**Typical life[1]**	**Maintenance[2]**	**Temperature Range[3,4]**
1 years	7-9 years	none	50°-104°F (10-40°C)

Notes
1 At 77°F (25°C) ambient temperature, charge/discharge cycles and prolonged full discharge may reduce useful life.
2 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.
3 Ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.
4 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.

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