

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.

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

OPTICS — Features 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.

LEDs provide nominal 70 CRI at 5000 K.

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 and AELR 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 (RTKITHLP 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 postponed for eight hours by activating manual test switch or use of remote tester (RTKITHLP accessory).

AELR option: STAR (Self-testing Automated Reporting) radio transmits monthly and annual test results and diagnostics information for automated reporting requirements. For more information visit [AcuityBrands.com/STAR](#)

INSTALLATION — Wall mount 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.

GOVERNMENT PROCUREMENT — BAA — Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA — Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to [www.acuitybrands.com/buy-american](#) for additional information.

LISTINGS — UL damp location listed standard and wet location listed when used with the CZWPVS 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. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/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.

Catalog Number
Notes
Type

Cortez™

Contemporary Commercial LED Emergency Light



CZQ2L
Aimable Optics

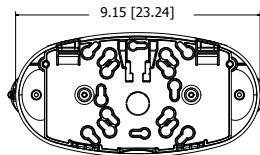
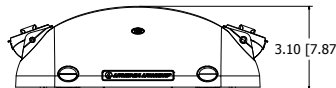
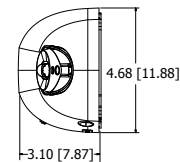
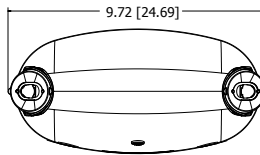
LITHIUM IRON PHOSPHATE

Nickel Cadmium



MOUNTING AND SPECIFICATIONS

All dimensions are inches (centimeters) unless otherwise indicated.



CZQ2L Specifications

Length: 9.72 (24.69)

Depth: 3.10 (7.87)

Height: 4.68 (11.88)

Weight: 1.31lbs (0.59kg)



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

CZQ2L Cortez™ Contemporary Commercial LED Emergency Light

NICKEL CADMIUM BATTERY MODELS

ORDERING INFORMATION

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

Example: CZQ2L

Series ¹	Lamp type	Housing color	Voltage	Battery type	Automatic Testing	Options
CZQ2L Aimable 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 220-240/50-60Hz UVOLT 120 - 347 VAC, 50/60hz	(blank) Nicad	(blank) None SDRT Self Diagnostics, Remote Test ²	(blank) None CZWPVS Wet protective vandal shield ³ BAA Buy America(n) Act and/or Build America Buy America Qualified

Notes

- 1 CZQ2L with Nicad battery type not available with remote capacity.
- 2 SDRT only available with UVOLT.
- 3 CZWPVS breaks out and ships separately and color will match (ex: CZWPVS SML B). Must be ordered when using for wet location applications. Decreases delivered lumens up to 20%. See spec sheet CZWPVS for more information.

LITHIUM IRON PHOSPHATE BATTERY MODELS

ORDERING INFORMATION

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

Example: CZQ2L UVOLT LTP

Series ¹	Lamp type	Housing color	Voltage	Battery type	Automatic Testing	Options
CZQ2L Aimable 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 AELR Automatic Emergency Lighting Reporting ²	(blank) None CZWPVS Wet protective vandal shield ³ BAA Buy America(n) Act and/or Build America Buy America Qualified

Notes

- 1 Extended run-time or remote capacity is standard. CZQRE and CZQRW remotes are compatible with both SDRT and non-SDRT versions (see page 3).
- 2 SDRT required. AELR transmits monthly and annual test results and diagnostics information for automated reporting requirements. Only available with LTP battery type. Not available with BAA option.
- 3 CZWPVS breaks out and ships separately and color will match (ex: CZWPVS SML B). Must be ordered when using for wet location applications. Decreases delivered lumens up to 20%. See spec sheet CZWPVS for more information.

Other Accessories: Order as separate catalog number.

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






CZQ2L mounted inside the CZWPVS (white)

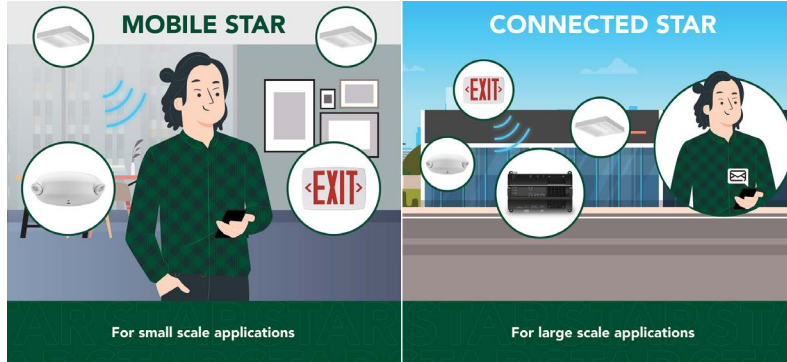
CZQ2L Cortez™ Contemporary Commercial LED Emergency Light

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CIAIRity™+ app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

-  Testing for 30 seconds every 30 days
-  Testing for 90 minutes once a year
-  Record keeping and to report to the authority having local jurisdiction



INDOOR/ DAMP LOCATION REMOTES

CZQRE Compatible Remotes ^{1,2,3}

LTP Compatible Remote Accessories: Order as separate catalog number.	
CZQRE LP220L SGL	Single LED Indoor remote head, white.
CZQRE LP220L T	Twin LED Indoor remote heads, white.

Notes

- 1 Compatible with SDRT and non-SDRT versions.
- 2 Order the CZWPVS accessory for wet location listing and vandal protection.
- 3 See spec sheet CZQRE. Also available in black.

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

* In addition to the lamp heads on the product.



OUTDOOR / WET LOCATION REMOTES

Compatible Remotes ^{1,2,3}

LTP Compatible Remote Accessories: Order as separate catalog number.	
CZQRW LP220L DWHGXD SGL	Single LED wet location remote head, white, 110 lumens
CZQRW LP220L DWHGXD T	Twin LED wet location remote head, white, 220 lumens

Notes

- 1 Compatible with SDRT and non-SDRT versions.
- 2 Order the CZWPVS accessory for wet location listing and vandal protection.
- 3 See spec sheet CZQRW. See spec sheet for other color options.

BATTERY CAPACITY AND LOADING - CZQRW REMOTES		
Battery Option	Total Capacity	Maximum# Remote lamp heads*
LTP	4.8W	2- CZQRW LP220L SGL
		1 - CZQRW LP220L T

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



CZQ2L Cortez™ Contemporary Commercial LED Emergency Light

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
CZQ2L LTP	3 hours

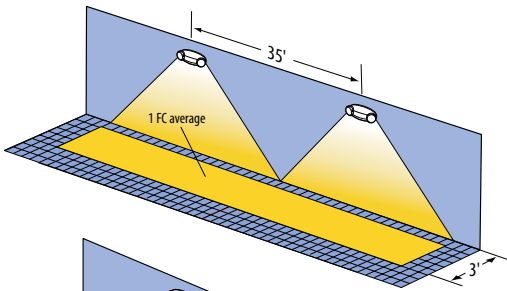
BATTERY			
UVOLT Nicad (6V), All Other Nicad (3.6V)			
Typical Shelf life ¹	Typical life ¹	Maintenance ²	Temperature Range ^{3,4}
3 years	6-8 years	none	50°-104°F (10-40°C)
Lithium Iron Phosphate (9.6V)			
Typical Shelf life ¹	Typical life ¹	Maintenance ²	Temperature Range ^{3,4}
1 years	6-8 years	none	50°-104°F (10-40°C)

Notes

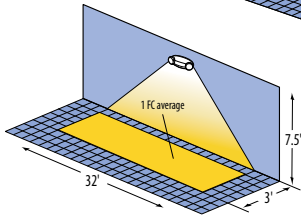
- At 77°F (25°C) ambient temperature, charge/discharge cycles and prolonged full discharge may reduce useful life.
- All life safety equipment, including emergency lighting for path of egress must be tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required testing could jeopardize the safety of occupants and will void all warranties.
- 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 Holophane CZQ2L home page.



Example of multiple CZQ2L luminaires illuminating a 3' path of egress.



Example of single CZQ2L illuminating a 3' path of egress.

* Application image examples are using LP220L lamp.

Maximum Spacing Guidelines — CZQ2L						
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:

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