LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — The AL combines clean, fine lines with a unique design that complements any space. The completely luminous optical system provides a concave visual appearance while providing high fixture performance and even illumination. AL is also available with a number of control options thus providing the ability to dim or control the lighting providing the ability to save energy and operate with multiple control systems including daylight or occupancy sensors.

CONSTRUCTION — Housing formed from cold-rolled steel. Housing is painted after fabrication for superior finish. Hinged doorframe assembly retains optical assembly and easy access to electrical components. End plates include integral T-bar clips.

OPTICS — Luminous optical system consists of a unique blend of high performance transmittance diffuser coupled with a concave, clear, ribbed refractor for and unique multi-step appearance. To improve fixture performance and eliminate pixilation the diffuser uses a unique blend of high molecular weight polymer beads with unrelated refractive index.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

nLight® embedded controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the AL luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

INSTALLATION — Lightweight and easy to install in any standard T-Bar system.

Maintenance: LED boards include plug-in connectors for easy replacement or servicing.

Suitable for damp locations.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Tested to LM80 standards.

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

Note: Specifications subject to change without notice.

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.

AL SERIES

2ALL

2' X 2'
LED

eldoLED

Patent No.: US D680,254 S

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*

- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

2ALL2 Architectural Lighting 2'x2'

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** 2ALL2 33L EZ1 LP835 N100

2ALL2

Series	Lumens [1]	Voltage	Driver	
2ALL2 Recessed LED 2x2	20L 2000 lumens 33L 3300 lumens 40L 4000 lumens	(blank) MVOLT (120-277V) 347 347V [2]	EZ1	eldoLED dims to 1% (0-10 volt dimming)
			EZB	eldoLED dims to 0.1% (0-10 volt dimming)
			GZ1	Dims to 1% (0-10V dimming) [3]
			GZ10	Dims to 10% (0-10V dimming) [3]
			EDB	eldoLED DALI [4]
			EXB	eldoLED DMX/RDM [4]
			EXA1	Dims to 1%, XPoint wireless enabled [4,5]
			EXAB	Dims to dark, XPoint wireless enabled [4,5]
			SLD	Step-level dimming [4]

Color temperature	Control		Options	
LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack (Noncompliant with CA T20)
	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack (Noncompliant with CA T20)
	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power	E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS
	N100	nLight without lumen management		
	N100EMG	nLight without lumen management for use with generator supply EM power	CP	Chicago plenum [4]

nLight® Control Accessories:
Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Standard range 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Extended range 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Photocell controls	**Model number**	**Cat-5 cable bundles (plenum rated)**	**Model number**
Continuous dimming	nCM ADC	10', CAT5 10FT	CAT5 10FT J1
On/Off & Dimming	nCM PC ADC	15', CAT5 15FT	CAT5 15FT J1

Accessories: *Order as separate catalog number.*

DGA22	Drywall ceiling adaptor , unit installation

Notes
1 Approximate lumen output.
2 Not available with EL7L or EL14L battery packs or SLD driver.
3 GZ1, GZ10 not available with any Controls options
4 Not available with N80, N80EMG, N100, or N100EMG.
5 Gateway not included. Requires on-site commissioning.
    Visit www.lightingcontrols.com/XPointWireless for more information.

Performance Data

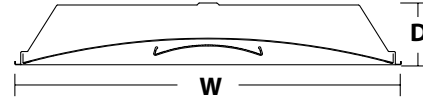| Lumen	Package	Lumens	Input Watts	LPW
20L	LP830	2,007.3	18	111.5
20L	LP835	2,050.4	18	113.9
20L	LP840	2,064.7	18	114.7
20L	LP850	2,136.5	18	118.7
33L	LP830	3,233.4	29	111.5
33L	LP835	3,303.2	29	113.9
33L	LP840	3,327.8	29	114.8
33L	LP850	3,442.6	29	118.7
40L	LP830	3,809.6	35	108.8
40L	LP835	3,891.6	35	111.2
40L	LP840	3,920.3	35	112.0
40L	LP850	4,057.7	35	115.9

DIMENSIONS

All dimensions are inches (centimeters) unless otherwise specified.

Specifications

Length: 24 (61.0)

Width: 24 (61.0)

Depth: 3-3/4 (9.5)

How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode
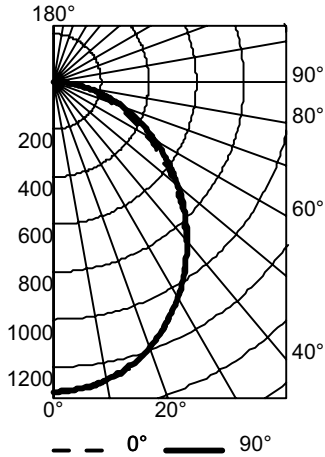
Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

PHOTOMETRICS

2ALL2 33L EZ1 LP840, 3327.8 delivered lumens, test no. LTL26921P6, tested in accordance to IESNA LM-79.

CP Summary

	0°	90
0°	1303	1303
5°	1298	1295
15°	1245	1237
25°	1125	1120
35°	958	962
45°	763	779
55°	555	588
65°	352	399
75°	175	219
85°	41	52
90	0	0

Coefficients of Utilization

pf				20%					
pc		80%			70%			50%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR 0	119	119	119	116	116	116	111	111	111
1	109	104	100	102	98	95	98	95	92
2	99	91	85	90	83	78	86	81	76
3	91	81	73	79	72	66	76	70	65
4	83	72	63	70	62	56	68	61	55
5	77	64	55	63	55	49	61	54	48
6	71	58	49	57	49	43	55	48	42
7	66	53	44	52	44	38	50	43	38
8	61	48	40	47	39	34	46	39	34
9	58	44	36	44	36	31	43	35	30
10	54	41	33	40	33	28	39	32	28

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	987	29.6	29.6
0° - 40°	1586	47.7	47.7
0° - 60°	2692	80.9	80.9
0° - 90°	3328	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	3328	100.0	100.0

- - - 0° —— 90°

Constant Lumen Management

Enabled by the embedded nLight control, the ALL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, theis feature eliminates the energy waste created by the traditional practice of over-lighting.

Without Lumen Management

Energy is wasted and light level is inconsistent.

POWER INPUT

LIGHT OUTPUT

Wasted Energy

With Lumen Management

Energy is saved and light level remains consistent.

Saved Energy

POWER INPUT

LIGHT OUTPUT