

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 — Rugged, one-piece cold-rolled steel reflector assembly with embossed steel for increased structural integrity and strength. Polyester powder-paint after fabrication. 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) qualified product. Not all versions of this product may be DLC qualified.

Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Catalog Number
Notes
Type

AL SERIES

2ALL



2' X 4'
LED

eldoLED

Patent No.: US D680,254 S

Tested to LM80 standards.

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

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2ALL4 48L EZ1 LP835 N100

2ALL4		Lumens ¹		Voltage		Driver	
Series	2ALL4 Recessed LED 2x4	30L	3000 lumens	(blank)	MVOLT (120-277V)	EZ1	eldoLED dims to 1% (0-10 volt dimming)
		40L	4000 lumens	347	347V ²	EZB	eldoLED dims to dark (0-10 volt dimming)
		48L	4800 lumens			EDB	eldoLED DALI ³
		60L	6000 lumens			EXB	eldoLED DMX/RDM ³
		72L	7200 lumens			EXA1	Dims to 1%, XPoint wireless enabled ^{3,4}
						EXAB	Dims to dark, XPoint wireless enabled ^{3,4}
						SLD	Step-level dimming ³

Color temperature		Control		Options	
LP830	3000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack
LP835	3500 K	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack
LP840	4000 K	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power	CP	Chicago plenum
LP850	5000 K	N100	nLight without lumen management		
		N100EMG	nLight without lumen management for use with generator supply EM power		

nLight® Control Accessories:			
<i>Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.</i>			
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.	
DGA24	Drywall ceiling adaptor, unit installation

Notes

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

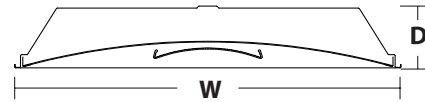
2ALL4 Architectural Lighting 2'x4'

Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
30L	LP830	3,010.3	25	120.4
30L	LP835	3,074.8	25	123.0
30L	LP840	3,096.4	25	123.9
30L	LP850	3,204.0	25	128.2
40L	LP830	3,828.2	32	119.6
40L	LP835	3,911.2	32	122.2
40L	LP840	3,938.9	32	123.1
40L	LP850	4,077.2	32	127.4
48L	LP830	4,722.9	40	118.1
48L	LP835	4,824.4	40	120.6
48L	LP840	4,858.2	40	121.5
48L	LP850	5,027.3	40	125.7
60L	LP830	5,427.1	47	115.5
60L	LP835	5,543.9	47	118.0
60L	LP840	5,583.9	47	118.8
60L	LP850	5,780.7	47	123.0
72L	LP830	7,490.3	68	110.2
72L	LP835	7,653.2	68	112.5
72L	LP840	7,705.5	68	113.3
72L	LP850	7,976.1	68	117.3

DIMENSIONS

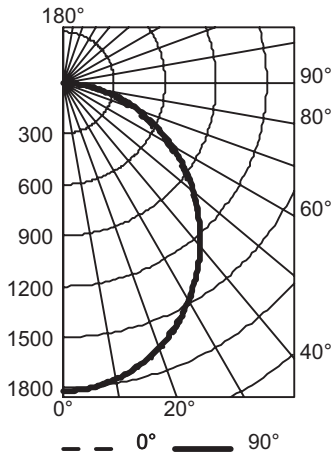
All dimensions are inches (centimeters) unless otherwise specified.

Specifications
 Length: 48 (121.9)
 Width: 24 (61.0)
 Depth: 3-3/4 (9.5)



PHOTOMETRICS

2ALL4 48L EZ1 LP840, 4858.2 delivered lumens, test no. LTL26939P10, tested in accordance to IESNA LM-79.



CP Summary		
	0°	90°
0°	1815	1815
5°	1808	1808
15°	1733	1725
25°	1588	1575
35°	1375	1371
45°	1123	1131
55°	844	871
65°	550	600
75°	281	337
85°	71	82
90°	0	0

RCP	Coefficients of Utilization								
	80%			70%			50%		
	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	104	100	102	98	94	98	94	91
2	99	91	84	89	83	77	85	80	76
3	90	80	72	78	71	65	75	69	64
4	83	71	62	70	61	55	67	60	54
5	76	63	54	62	54	48	60	53	47
6	70	57	48	56	48	42	54	47	41
7	65	52	43	51	43	37	50	42	37
8	61	47	39	47	39	33	45	38	33
9	57	44	35	43	35	30	42	35	30
10	53	40	32	40	32	27	39	32	27

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0° - 30°	1383	28.5	28.5
0° - 40°	2238	46.1	46.1
0° - 60°	3868	79.6	79.6
0° - 90°	4858	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°	4858	100.0	100.0

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, this feature eliminates the energy waste created by the traditional practice of over-lighting.

