LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — The AL combines clean, fine lines with a unique design that complements any space. The CTRF (Center Fill) option features a center mounted LED source shielded by the secondary refractor that creates a gradient along the luminaire aperture, accentuating the concave primary lens.
Ideal for office spaces, conference rooms, and schools.

CONSTRUCTION — Rugged, pre-painted one-piece cold-rolled steel reflector assembly with embossed steel for increased structural integrity and strength. Polyester powder-paint after fabrication option available. 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

2ALL2 CTRF

2' X 2'
LED

CSA+ CAPABLE   eldoLED   DLC PREMIUM   nLight®

Patent No.: US D680,254 S

DIMENSIONS

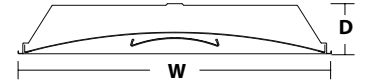All dimensions are inches (centimeters) unless otherwise specified.

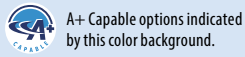| Specifications	
Length:	24 (61.0)
Width:	24 (61.0)
Depth:	3-3/4 (9.5)
Approximate Weight:	12 lbs
Approximate Weight with EM battery:	13.5 lbs

CA+ 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

A+ Capable options indicated by this color background.

2ALL2 CTRF

Series		Lumens[1]		Voltage		Driver	
2ALL2 CTRF	Recessed 2x2, center fill LED	20L	2000 lumens	(blank)	MVOLT (120-277V)	EZ1	eldoLED dims to 1% (0-10 volt dimming)
		33L	3300 lumens	347	347V[2]	EZB	eldoLED dims to dark (0-10 volt dimming)
		40L	4000 lumens			GZ1	Dims to 1% (0-10V dimming)[3]
						GZ10	Dims to 10% (0-10V dimming)[3]
						EDB	eldoLED DALI[4]
						SLD	Step-level dimming[4]

Color temperature		Control		Options	
LP830	80CRI, 3000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack, Noncompliant with CA T20
LP835	80CRI, 3500 K,	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack, Noncompliant with CA T20
LP840	80CRI, 4000 K	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
LP850	80CRI, 5000 K	N100	nLight without lumen management		
LP930	90CRI, 3000 K	N100EMG	nLight without lumen management for use with generator supply EM power	CP	Chicago plenum
LP935	90CRI, 3500 K			PAF	Paint after fabrication
LP940	90CRI, 4000 K				
LP950	90CRI, 5000 K				

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, EL14L or E10WLCP battery packs or SLD driver.
3 GZ1, GZ10 not available with any Controls options.
4 Not available with N80, N80EMG, N100, or N100EMG.

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.

Replacement Parts: *Order as separate catalog number.*

Part	Description	Includes Door?	Includes Panel Lens?	Includes Center Lens?
DL2ALL2	ALL LED 2X2 Door/ Lens	Yes	Yes	Yes
L2ALL2	ALL LED 2X2 Panel Lens	No	Yes	No
U03611	ALL LED 2X2 Center Lens	No	No	Yes

Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
20L	LP830	2024	17.3	116.8
20L	LP835	2039	17.3	117.6
20L	LP840	2069	17.3	119.4
20L	LP850	2159	17.3	124.5
33L	LP830	3415	30.8	110.8
33L	LP835	3440	30.8	111.6
33L	LP840	3491	30.8	113.2
33L	LP850	3643	30.8	118.1
40L	LP830	4018	37.4	107.5
40L	LP835	4047	37.4	108.3
40L	LP840	4107	37.4	109.9
40L	LP850	4286	37.4	114.7

Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
20L	LP930	1679	17.3	96.9
20L	LP935	1724	17.3	99.5
20L	LP940	1754	17.3	101.2
20L	LP950	1844	17.3	106.4
33L	LP930	2833	30.8	91.9
33L	LP935	2909	30.8	94.3
33L	LP940	2960	30.8	96.0
33L	LP950	3111	30.8	100.9
40L	LP930	3333	37.4	89.2
40L	LP935	3422	37.4	91.6
40L	LP940	3482	37.4	93.2
40L	LP950	3661	37.4	98.0

PHOTOMETRICS

2ALL2 CTRF 40L EZ1 LP835, 3878.7 delivered lumens.

Coefficients of Utilization
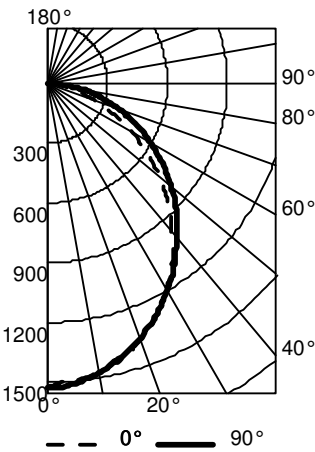
CP Summary

	0°	90
0°	1523	1523
5°	1499	1513
15°	1431	1418
25°	1290	1285
35°	1088	1106
45°	854	912
55°	605	705
65°	357	488
75°	161	280
85°	34	60
90	1	1

pf				20%					
pc		80%			70%			50%	
pw	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	95	98	95	92
2	99	91	85	89	83	78	86	81	76
3	91	80	72	79	71	65	76	69	64
RCR 4	83	71	63	70	62	56	68	61	55
5	77	64	55	63	55	48	61	53	48
6	71	58	49	57	48	42	55	48	42
7	66	52	44	52	43	38	50	43	37
8	61	48	40	47	39	34	46	39	33
9	57	44	36	44	36	30	42	35	30
10	54	41	33	40	33	28	39	32	28

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1144	29.5	29.5
0° - 40°	1833	47.3	47.3
0° - 60°	3119	80.4	80.4
0° - 90°	3878	100.0	100.0
90° - 120°	1	0.0	0.0
90° - 130°	1	0.0	0.0
90° - 150°	1	0.0	0.0
90° - 180°	1	0.0	0.0
0° - 180°	3879	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.

With Lumen Management
Energy is saved and light level remains consistent.

LITHONIA LIGHTING®