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

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.

LED driver delivers full-range dimming from 0-10V control signal.

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.** Tested to LM80 standards.

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.

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.

AL SERIES

ALL4 CTRF

1' X 4'
LED

CSA+ CAPABLE eldoLED DLC LISTED nLIGHT

Patent No.: US D680,254 S

DIMENSIONS

All dimensions are inches (centimeters) unless otherwise specified.
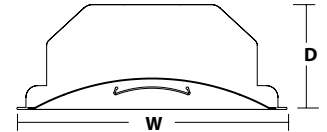
Specifications

Length: 47.75 (121.3)

Width: 11.75 (29.8)

Depth: 4-3/4 (12.1)

Approximate Weight: 16.5 lbs

Approximate Weight with EM battery: 18 lbs

CSA+ 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

ALL4 Architectural Lighting 1'x4'

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

Example: ALL4 CTRF 40L EZ1 LP835 N100

ALL4 CTRF						
Series	**Lumens [1]**	**Voltage**	**Driver**	**Color temperature**	**Controls[5]**	**Options**
ALL4 CTRF — Recessed 1x4, center fill LED	20L — 2000 lumens 30L — 3000 lumens 40L — 4000 lumens	(blank) — MVOLT (120-277) 347 — 347 [2]	EZ1 — eldoLED dims to 1% (0-10 volt dimming) EZB — eldoLED dims to dark (0-10 volt dimming) 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]	LP830 — 80CRI, 3000 K LP835 — 80CRI, 3500 K LP840 — 80CRI, 4000 K LP850 — 80CRI, 5000 K LP930 — 90CRI, 3000 K LP935 — 90CRI, 3500 K LP940 — 90CRI, 4000 K LP950 — 90CRI, 5000 K	(blank) — No controls N80 — nLight with 80% (L80) lumen management N80EMG — nLight with 80% (L80) lumen management for use with generator supply EM power N100 — nLight without lumen management N100EMG — nLight without lumen management for use with generator supply EM power	EL7L — 700 nominal lumen battery pack, Noncompliant with CA T20 EL14L — 1400 nominal lumen battery pack, Noncompliant with CA T20 E10WLCP — EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS CP — Chicago plenum PAF — Paint after fabrication BAA — Buy America(n) Act Compliant

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.

DGA14	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.
5 Cannot row mount when ordered with nLight options.

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	Decription	Includes Door?	Includes Panel Lens?	Includes Center Lens?
DLALL	ALL LED 1X4 Door/ Lens	Yes	Yes	Yes
LALL	ALL LED 1X4 Panel Lens	No	Yes	No
U036131	ALL LED 1X4 Center Lens	No	No	Yes

LITHONIA LIGHTING®

Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
20L	LP830	2019	16.6	121.7
20L	LP835	2034	16.6	122.6
20L	LP840	2064	16.6	124.4
20L	LP850	2154	16.6	129.8
30L	LP830	2898	24.5	118.4
30L	LP835	2920	24.5	119.3
30L	LP840	2962	24.5	121.1
30L	LP850	3091	24.5	126.3
40L	LP830	3875	33.8	114.5
40L	LP835	3903	33.8	115.4
40L	LP840	3961	33.8	117.1
40L	LP850	4133	33.8	122.2

Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
20L	LP930	1675	16.6	101.0
20L	LP935	1720	16.6	103.7
20L	LP940	1750	16.6	105.5
20L	LP950	1840	16.6	110.9
30L	LP930	2404	24.5	98.3
30L	LP935	2469	24.5	100.9
30L	LP940	2512	24.5	102.7
30L	LP950	2640	24.5	107.9
40L	LP930	3215	33.8	95.0
40L	LP935	3301	33.8	97.6
40L	LP940	3358	33.8	99.3
40L	LP950	3530	33.8	104.4

PHOTOMETRICS

ALL4 CTRF 40L EZ1 LP835, 4027.1 delivered lumens.
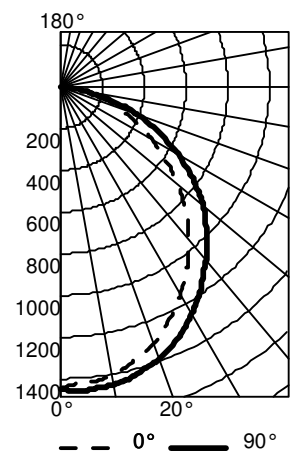
CP Summary

	0°	90
0°	1449	1449
5°	1425	1460
15°	1362	1423
25°	1232	1329
35°	1056	1173
45°	846	993
55°	615	773
65°	396	522
75°	201	232
85°	53	33
90	2	0

Coefficients of Utilization

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	94	92
2	99	91	84	89	83	77	85	80	76
3	90	80	72	78	71	65	75	69	63
4	83	71	62	69	61	55	67	60	54
5	76	63	54	62	54	47	60	53	47
6	70	57	48	56	48	41	54	47	41
7	65	52	43	51	43	37	49	42	36
8	61	47	39	46	38	33	45	38	33
9	57	43	35	43	35	29	42	34	29
10	53	40	32	39	32	27	38	31	27

(Row labels at left: RCR)

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1129	28.0	28.0
0° - 40°	1835	45.6	45.6
0° - 60°	3204	79.6	79.6
0° - 90°	4021	99.8	99.8
90° - 120°	4	0.1	0.1
90° - 130°	5	0.1	0.1
90° - 150°	6	0.1	0.1
90° - 180°	6	0.2	0.2
0° - 180°	4027	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, these 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.

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