LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — The AC Series LED surface mount combines digital LED lighting and control technologies with a high performance optical system to deliver general ambient lighting for many applications such as schools, offices, and hospitals. High efficacy light engine delivers long life and excellent color, ensuring a superior quality light installation that is highly efficient and sustainable. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Housing formed from cold-rolled steel. Housing is painted after fabrication for superior finish.

Smooth hemmed sides and smooth inward formed end flanges for easy handling.

Standard deep regressed door frame with step baffles provides unique architectural appearance. Door frame is painted after fabrication standard. Powder painted rotary cam latches provide easy secure door closure. Integral T-bar clips standard. Acrylic shielding material 100% UV stabilized.

OPTICS — Frosted acrylic tile provides superior efficiency and a clean quite appearance in the ceiling.

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 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 — Surface mount. Drivers and internal components accessible from floor. LED boards include plug in connectors for easy replacement or servicing. Suitable for damp location.

LISTINGS — CSA certified to meet US and Canadian standards. 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.

Protected by one or more of US Patent Nos. D677,817; D677,819.

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.

Catalog Number

Notes

Type

GET A QUOTE ❯

AC SERIES SURFACE MOUNT

2ACLX2

2' x 2' LED

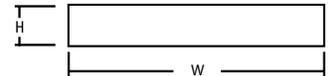[A+ CAPABLE] eldoLED [DLC QPL PREMIUM] [nLight®]

Specifications

Length: 24-3/4 (62.9)

Width: 24-3/4 (62.9)

Depth: 4-3/4 (12.1)

All dimensions are inches (centimeters) unless otherwise indicated.

[Diagram showing H and W dimensions]

⌁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

2ACLX2 Surface Mount LED Lighting

A+ Capable options indicated by this color background.

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

Example: 2ACLX2 33L EZ1 LP835 N100

2ACLX2

Series	Lumens[1]	Voltage	Driver	Color temperature	Control	Options
2ACLX2 Surface LED 2x2	20L 2000 lumens 33L 3300 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) EDB eldoLED DALI[3] EXB eldoLED DMX/RDM[3] EXA1 Dims to 1%, XPoint wireless enabled[3,4] EXAB Dims to dark, XPoint wireless enabled[3,4] SLD Step-level dimming[3]	LP830 3000 K LP835 3500 K LP840 4000 K LP850 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 EL14L 1400 nominal lumen battery pack

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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**	**CAT5 cable bundles (plenum rated)**	**Model number**
Continuous dimming	nCM ADC	10', 15 pieces per bundle	CAT5 10FT
On/Off & Dimming	nCM PC ADC	30', 15 pieces per bundle	CAT5 30FT

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.

Performance Data				
Lumen	**Package**	**Lumens**	**Input Watts**	**LPW**
20L	LP830	2,013.3	18	111.8
20L	LP835	2,056.5	18	114.2
20L	LP840	2,070.8	18	115.0
20L	LP850	2,142.8	18	119.0
33L	LP830	3,222.5	29	111.1
33L	LP835	3,292.4	29	113.5
33L	LP840	3,315.0	29	114.3
33L	LP850	3,430.2	29	118.3
40L	LP830	3,814.7	35	109.0
40L	LP835	3,897.0	35	111.3
40L	LP840	3,925.8	35	112.2
40L	LP850	4,061.5	35	116.0

MOUNTING DATA
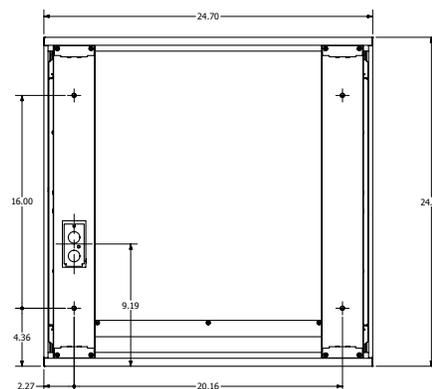
PHOTOMETRICS

2ACLX2 33L EZ1 LP835, 3292.4 delivered lumens, test no. LTL26920P17, tested in accordance to IESNA LM-79.

CP Summary

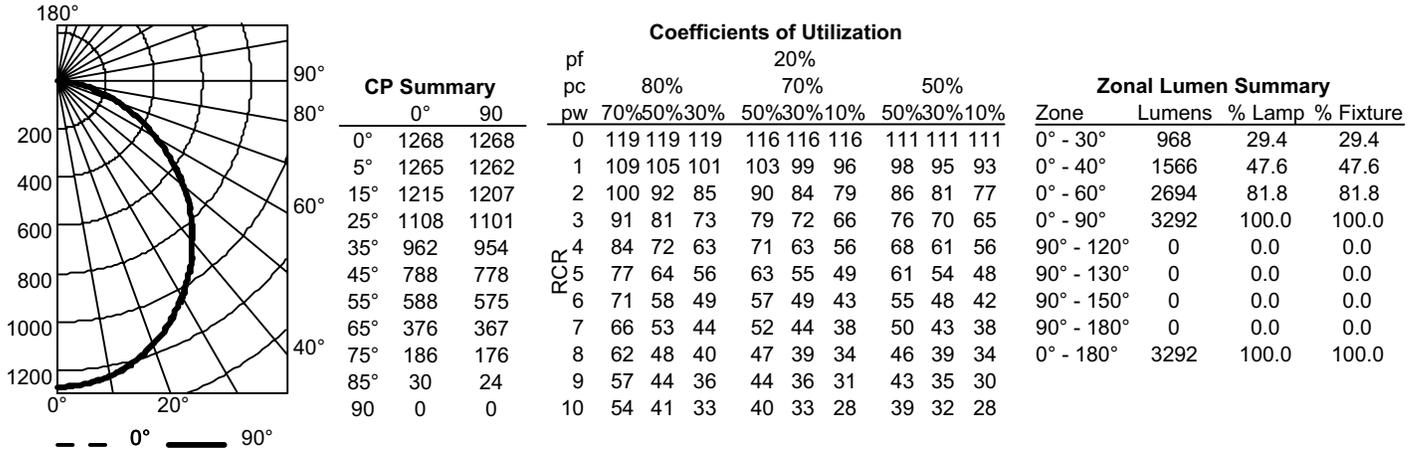|	0°	90
0°	1268	1268
5°	1265	1262
15°	1215	1207
25°	1108	1101
35°	962	954
45°	788	778
55°	588	575
65°	376	367
75°	186	176
85°	30	24
90	0	0

Coefficients of Utilization

pf									
pc		80%			70%			50%	
RCR / pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	105	101	103	99	96	98	95	93
2	100	92	85	90	84	79	86	81	77
3	91	81	73	79	72	66	76	70	65
4	84	72	63	71	63	56	68	61	56
5	77	64	56	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	62	48	40	47	39	34	46	39	34
9	57	44	36	44	36	31	43	35	30
10	54	41	33	40	33	28	39	32	28

Note: pc value 20% appears above 70% column.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	968	29.4	29.4
0° - 40°	1566	47.6	47.6
0° - 60°	2694	81.8	81.8
0° - 90°	3292	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°	3292	100.0	100.0

Constant Lumen Management

Enabled by the embedded nLight control, the AC Series LED surface mount actively tracks its run-time and manages its light source such that constant lumen output is maintained over system life. Referred to as lumen management, this 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.

2ACLX2-2X2

LITHONIA LIGHTING ®

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