

## 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 integrity of acrylic.** [Click here for Acrylic Environmental 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 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** — 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) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

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

Catalog Number
Notes
Type

### AC SERIES SURFACE MOUNT



# 2ACLX4

2' x 4' LED

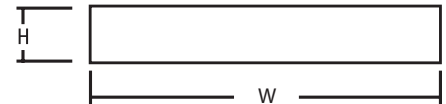


#### Specifications

Length: 48-3/4 (123.8)

Width: 24-3/4 (62.9)

Depth: 4-3/4 (12.1)



All dimensions are inches (centimeters) unless otherwise indicated.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://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:** 2ACLX4 48L EZ1 LP835 N100

2ACLX4		Lumens <sup>1</sup>		Voltage		Driver		Color temperature		Control		Options	
2ACLX4	Surface LED 2x4	30L	3000 lumens	(blank)	MVOLT (120-277)	EZ1	eldoLED dims to 1% (0-10 volt dimming)	LP830	3000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack <sup>5</sup>
		40L	4000 lumens	347	347 <sup>2</sup>	EZB	eldoLED dims to dark (0-10 volt dimming)	LP835	3500 K	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack <sup>5</sup>
		48L	4800 lumens			EDB	eldoLED DALI <sup>3</sup>	LP840	4000 K	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power		
		60L	6000 lumens			EXB	eldoLED DMX/RDM <sup>3</sup>	LP850	5000 K	N100	nLight without lumen management		
		72L	7200 lumens			EXA1	Dims to 1%, XPoint wireless enabled <sup>3,4</sup>			N100EMG	nLight without lumen management for use with generator supply EM power		
						EXAB	Dims to dark, XPoint wireless enabled <sup>3,4</sup>						
						SLD	Step-level dimming <sup>3</sup>						

nLight® Control Accessories:			
Order as separate catalog number. Visit <a href="http://www.sensorswitch.com/nLight">www.sensorswitch.com/nLight</a> 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

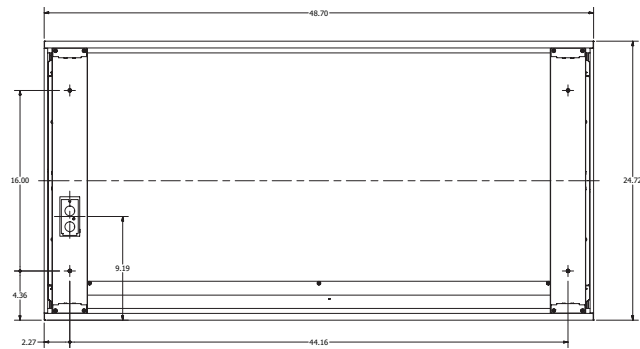
#### Notes

- 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](http://www.lightingcontrols.com/XPointWireless) for more information.
- 5 Not available with 72L option.

# 2ACLX4 Surface Mount LED Lighting

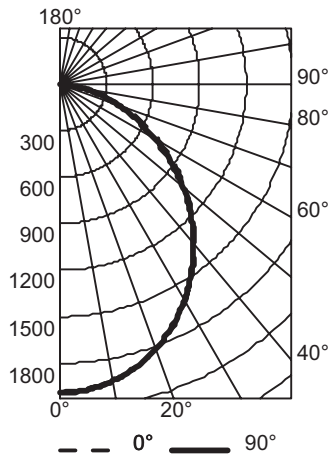
Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
30L	LP830	3,146.8	25	125.9
30L	LP835	3,214.3	25	128.6
30L	LP840	3,236.8	25	129.5
30L	LP850	3,349.3	25	134.0
40L	LP830	4,011.5	32	125.4
40L	LP835	4,098.3	32	128.1
40L	LP840	4,127.2	32	129.0
40L	LP850	4,271.9	32	133.5
48L	LP830	4,940.4	40	123.5
48L	LP835	5,046.5	40	126.2
48L	LP840	5,081.9	40	127.0
48L	LP850	5,261.9	40	131.5
60L	LP830	5,679.7	47	120.8
60L	LP835	5,801.9	47	123.4
60L	LP840	5,843.7	47	124.3
60L	LP850	6,049.4	47	128.7
72L	LP830	7,859.0	68	115.6
72L	LP835	8,026.2	68	118.0
72L	LP840	8,084.0	68	118.9
72L	LP850	8,366.9	68	123.0

## MOUNTING DATA



## PHOTOMETRICS

2ACLX4 48L EZ1 LP835, 5046.5 delivered lumens, test no. LTL26933P29, tested in accordance to IESNA LM-79.



CP Summary		Coefficients of Utilization									Zonal Lumen Summary					
	0°	90°	pf	20%						Zone			Lumens	% Lamp	% Fixture	
			pc	80%			70%			50%						
			pw	70%	50%	30%	50%	30%	10%	50%	30%	10%				
0°	1986	1986	0	119	119	119	116	116	116	111	111	111	0° - 30°	1508	29.9	29.9
5°	1972	1978	1	109	105	101	103	99	96	98	95	93	0° - 40°	2431	48.2	48.2
15°	1892	1889	2	100	92	85	90	84	79	87	82	77	0° - 60°	4142	82.1	82.1
25°	1727	1718	3	91	81	73	80	72	66	77	70	65	0° - 90°	5046	100.0	100.0
35°	1493	1476	4	84	72	64	71	63	57	68	61	56	90° - 120°	0	0.0	0.0
45°	1212	1193	5	77	65	56	64	55	49	61	54	49	90° - 130°	0	0.0	0.0
55°	904	870	6	71	58	50	57	49	43	56	48	43	90° - 150°	0	0.0	0.0
65°	587	542	7	66	53	44	52	44	38	51	43	38	90° - 180°	0	0.0	0.0
75°	298	251	8	62	48	40	48	40	34	46	39	34	0° - 180°	5046	100.0	100.0
85°	66	30	9	58	45	36	44	36	31	43	36	31				
90°	0	0	10	54	41	33	41	33	28	40	33	28				

# 2ACLX4 Surface Mount LED Lighting

## Constant Lumen Management

Enabled by the embedded nLight control, the AC Series 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.

