

# **FEATURES & SPECIFICATIONS**

**INTENDED USE** — The ACL Series LED 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 lighting installation that is highly efficient and sustainable. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** <u>Click here for Acrylic-Polycarbonate Compatibility table for suitable uses</u>.

**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. 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). Standard nLight embedded controls continuously monitor system performance, allow for constant lumen management/compensation function, facilitate simple "plug-and-play" network and controls upgrading via Cat-5 cable.

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

LISTINGS — CSA certified to meet U.S. and Canadian standards. IC rated.

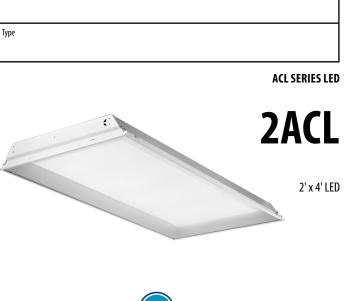
Protected by one or more of US Patent Nos. D677,817; D677,819.

**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.





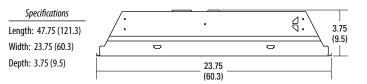
#### DIMENSIONS

Catalog

Number

Notes

All dimensions are inches (centimeters) unless otherwise noted.



# **\*\*** 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<sup>®</sup> 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 <u>www.acuitybrands.com/aplus</u>.

\*See ordering tree for details

# **2ACL** Recessed 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: 2ACL4 48L EZ1 LP835 N100

| 2ACL4                  |  |   |   |
|------------------------|--|---|---|
| Series                 | Lumens <sup>1</sup>  | Voltage   | Driver  |
| 2ACL4 Recessed LED 2x4 | 30L      3000 lumens        40L      4000 lumens        48L      4800 lumens        60L      6000 lumens        72L      7200 lumens | (blank) MVOLT (120-277V)<br>347 347V <sup>2</sup> | EZ1eldoLED dims to 1% (0-10 volt dimming)EZ8eldoLED dims to dark (0-10 volt dimming)GZ1Dims to 1% (0-10V dimming)³GZ10Dims to 10% (0-10V dimming)³EDBeldoLED DALISLDStep-level dimming⁴ |

| Color temperature  | Control  | Options  |   |
|--|--|--|---|
| LP830 3000 K<br>LP835 3500 K<br>LP840 4000 K<br>LP850 5000 K | (blank)No controlsN80nLight with 80% (L80) lumen managementN80EMGnLight with 80% (L80) lumen management for use with generator supply EM powerN100nLight without lumen managementN100EMGnLight without lumen management for use with generator supply EM power | EL7L<br>EL14L<br>E10WLCP<br>PWS1836<br>PWS1846<br>PWS1846<br>PWS1856LV<br>CP | 700 nominal lumen battery pack<br>(Noncompliant with CA T20)<br>1400 nominal lumen battery pack<br>(Noncompliant with CA T20)<br>EM Self-Diagnostic battery pack, 10W Constant<br>Power, Certified in CA Title 20 MAEDBS<br>6' pre-wire 3/8" diameter, 18 gauge, 1 circuit<br>6' pre-wire 3/8" diameter, 18 gauge, 2 circuit<br>Two cables: one 6' prewire, 3/8" diameter,<br>18 gauge, 2 circuits; one 6' pre-wire, 3/8"<br>diameter, 18 gauge<br>6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit<br>w/ low voltage wires<br>Chicago plenum <sup>4</sup> |

| Light <sup>®</sup> Control Access<br>Ider as separate catalog |                  | orswitch.com/nLight for complete listing of nLight co | ontrols.            |
|---|------------------|---|---------------------|
| WallPod stations  | Model number     | Occupancy sensors                                     | Model number        |
| 0n/0ff  | 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', 15 pieces per bundle                             | CAT5 10FT           |
| On/Off & Dimming  | nCM PC ADC       | 30', 15 pieces per bundle                             | CAT5 30FT           |

### Accessories: Order as separate catalog number.

Drywall grid adapter for 2x4 recessed fixture. DGA24

#### Notes 1

- Approximate lumen output.
- Not available with EL7L or EL14L battery packs or SLD driver.
  GZ1, GZ10 not available with any Controls options.
  Not available with N80, N80EMG, N100, N100EMG, PWS1836,
- PWS1846, PWS1846 PWSLV or PWS1856LV.

| 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 |  |  |  |

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

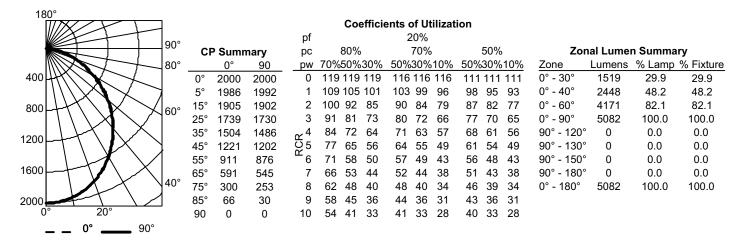
 $P=0 uput \ power \ of \ emergency \ driver. P=10W \ for \ E10WLCP \ option.$ 

 $\mathsf{LPW} = \mathsf{Lumen} \ \mathsf{per} \ \mathsf{watt} \ \mathsf{rating} \ \mathsf{of} \ \mathsf{the} \ \mathsf{luminaire}. \ \mathsf{This} \ \mathsf{information} \ \mathsf{is} \ \mathsf{available} \ \mathsf{on} \ \mathsf{the} \ \mathsf{ABL} \ \mathsf{luminaire} \ \mathsf{spec} \ \mathsf{sheet}.$ 

LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

## **PHOTOMETRICS**

2ACL4 48L EZ1 LP840, 5081.9 delivered lumens, test no. LTL26933P10, tested in accordance to IESNA LM-79.



#### **Constant Lumen Management**

Enabled by the embedded nLight control, the ACL Series LED 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.

