LITHONIA LIGHTING®

| Catalog Number | |
|---|---|
| Notes | |
| Type | |

# FEATURES & SPECIFICATIONS

**INTENDED USE** — The ACLED 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. ACLED is rated to deliver L80 performance for 50,000 hours. 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.

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

Ballast 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

**WARRANTY** — Five-year warranty coverage of luminaries includes fixture construction, LED light engine, driver and nLight control device. Terms and conditions apply.

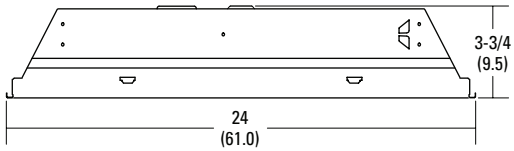
Note: Specifications subject to change without notice.

aCLED

# ACLED

**LED**
2x4

nLIGHT




*Specifications*

Length: 48 (122.0)
Width: 24 (61.0)
Depth: 3-3/4 (9.5)

All dimensions are inches (centimeters) unless otherwise indicated.

## ORDERING INFORMATION

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

**Example:** 2ACL4 48L D50 LP835 N80

| 2ACL4 | 48L | | D50 | | | |
|---|---|---|---|---|---|---|
| **Series** | **Lamp type** | **Voltage** | **Driver** | **Lamp color** | **Controls** | **Options** |
| 2ACL4 Recessed LED | 48L[1] | (blank) MVOLT (120-277V) | D50 50W[2] | LP835 82 CRI, 3500 Kelvin<br>LP840 82 CRI, 4000 Kelvin<br>LP850 82 CRI, 5000 Kelvin | N100 nLight without lumen management<br>N80 nLight with 80% (L80) lumen management<br>N100EMG nLight without lumen management for use with generator supply EM power<br>N80EMG nLight with 80% (L80) lumen management for use with generator supply EM power<br>NX Less controls | EL14L 1400 lumen battery pack |

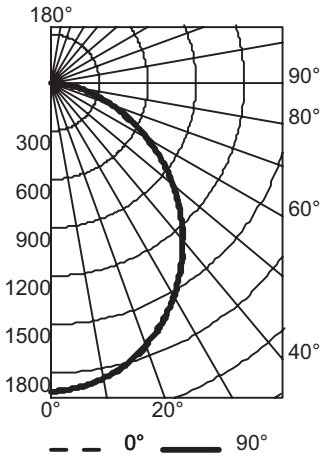
**nLight® Control Accessories:**
*Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.*

| 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', 15 pieces per bundle | CAT5 10FT |
| On/Off & Dimming | nCM PC ADC | 30', 15 pieces per bundle | CAT5 30FT |

**Notes**
1 Nominal lumens.
2 Nominal wattage.

## PHOTOMETRICS

**2ACL4 48L D50 LP835 N100**, 4,887 delivered lumens,test no. LTL21099, tested in accordance to IESNA LM-79.




**CP Summary**

| | 0° | 90 |
|---|---|---|
| 0° | 1915 | 1915 |
| 5° | 1906 | 1899 |
| 15° | 1816 | 1806 |
| 25° | 1649 | 1635 |
| 35° | 1415 | 1402 |
| 45° | 1145 | 1134 |
| 55° | 854 | 838 |
| 65° | 560 | 532 |
| 75° | 294 | 261 |
| 85° | 74 | 42 |
| 90 | 0 | 2 |

**Coefficients of Utilization**

| | pf | | | 20% | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | pc | 80% | | | 70% | | | 50% | |
| | pw | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% |
| RCR | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| | 1 | 109 | 105 | 100 | 102 | 99 | 95 | 98 | 95 | 92 |
| | 2 | 100 | 92 | 85 | 90 | 84 | 78 | 86 | 81 | 77 |
| | 3 | 91 | 81 | 73 | 79 | 72 | 66 | 76 | 70 | 65 |
| | 4 | 83 | 72 | 63 | 70 | 62 | 56 | 68 | 61 | 55 |
| | 5 | 77 | 64 | 55 | 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 | 61 | 48 | 40 | 47 | 39 | 34 | 46 | 39 | 34 |
| | 9 | 58 | 44 | 36 | 44 | 36 | 31 | 43 | 35 | 30 |
| | 10 | 54 | 41 | 33 | 40 | 33 | 28 | 39 | 32 | 28 |

**Zonal Lumen Summary**

| Zone | Lumens | % Lamp | % Fixture |
|---|---|---|---|
| 0° - 30° | 1446 | 29.6 | 29.6 |
| 0° - 40° | 2326 | 47.6 | 47.6 |
| 0° - 60° | 3966 | 81.2 | 81.2 |
| 0° - 90° | 4887 | 100.0 | 100.0 |
| 90° - 180° | 0 | 0.0 | 0.0 |
| 0° - 180° | 4887 | 100.0 | 100.0 |

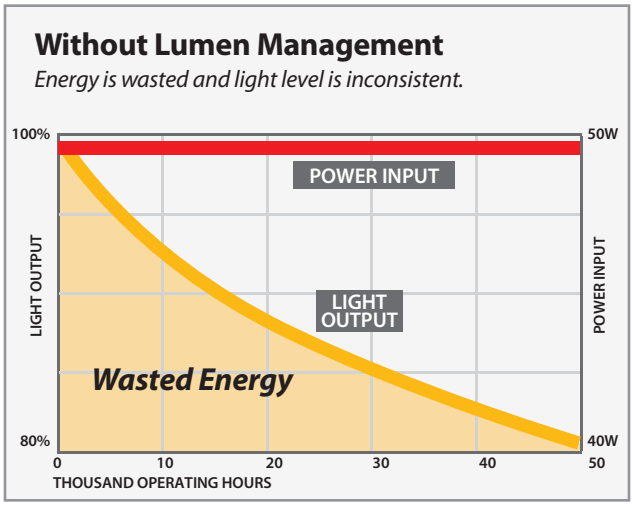
### Control Functionality

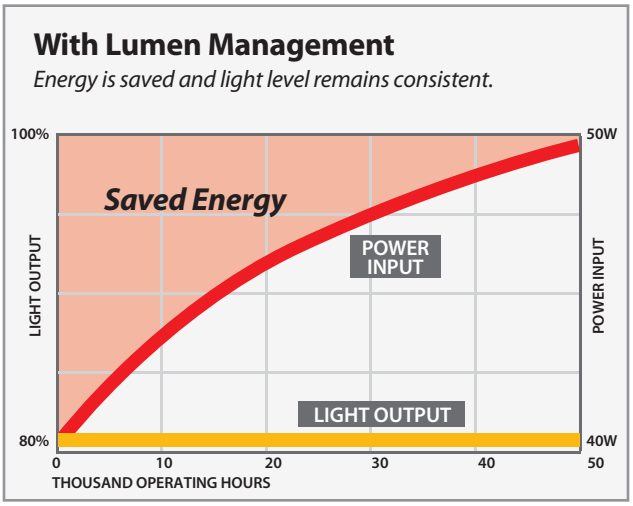
The ACLED comes standard with an embedded nLight® control device called the nIO-LED. This smart device makes each luminaire addressable – allowing it to digitally communicate with other *nLight*-enabled controls such as dimmers, switches, occupancy sensors, and photocells (see accessory table on page one). This allows for advanced operation and design flexibility ranging from stand-alone rooms to building and campus-wide networks.

Linking devices within a room is easy – simply connect all the *nLight-enabled* control devices and ACLED luminaires using standard CAT-5 cabling. System power for all control devices is provided directly from the luminaires. This feature greatly reduces the installation time and labor requirements, as there are no line voltage connections to any power/relay packs. Finally, being nLight-enabled offers true plug-and-play convenience as devices and luminaires automatically discover each other and self commission. Visit www.sensorswitch.com/nLight for more information about nLight controls.

### Constant Lumen Management

Enabled by the embedded nLight control, the ACLED 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.



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