

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The BLT Best-in-Value Low Profile LED Luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

**CONSTRUCTION** — BLT enclosure components are die-formed for dimensional consistency and painted after fabrication with a polyester powder paint for improved performance and protection.

The reflector is finished with a high reflective matte white powder paint for improved aesthetics and increased light diffusion.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

**OPTICS** — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complementary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with linear prisms or a smooth frosted finish.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

**Non-Configurable BLT:** Generic 0-10 volt dimming driver. Dims to 10%

**Configurable BLT:** available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

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

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board 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.

Driver disconnect provided where required to comply with US and Canadian codes.

**SENSOR — Integrated sensor (individual control):** Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

**Integrated Sensor (nLight Wired Networking):** This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

**Integrated Smart Sensor (nLight Air Wireless Platform):** The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

**INSTALLATION** — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

**LISTINGS** — CSA Certified to meet U.S. and Canadian standards. IC rated. 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

**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.

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

BLT Series LED

# 2BLT

2' x 4'  
LED



eldoLED



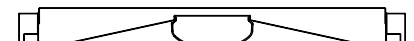
### Specifications

Length: 47-3/4 (121.2)

Width: 23-3/4 (60.3)

Depth: 2-3/8 (6.0)

Depth with Air supply/return: 2-3/4 (6.9)



All dimensions are inches (centimeters) unless otherwise specified.

## Multiple Diffuser Options



**ADP**  
Curved Ribbed



**ADSM**  
Curved Smooth



**SDP**  
Square Ribbed



**SDSM**  
Square Smooth

## 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](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# 2BLT Volumetric Recessed Lighting 2'x4'



A+ Capable options indicated by this color background.

## ORDERING INFORMATION

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

Example: 2BLT4 40L ADP EZ1 LP840

| 2BLT4  |         |                                                        |                                          |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|--------|---------|--------------------------------------------------------|------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------|---------|---------------------------------|-------|------------------------------------------|-------|-------------------|--|
| Series |         | Air function                                           |                                          | Lumens <sup>2</sup>                                |                                                    | Diffuser              |         | Voltage                         |       | Driver                                   |       | Color temperature |  |
| 2BLT4  | 2x4 BLT | (blank) Static<br>A Air supply/<br>return <sup>1</sup> | <b>Standard efficiency (&gt;100 LPW)</b> | <b>High efficiency<sup>3,4</sup> (&gt;130 LPW)</b> | ADP                                                | Curved, linear prisms | (blank) | MVOLT                           | EZ1   | eldoLED dims to 1% (0-10 volt dimming)   | LP830 | 82CRI, 3000 K     |  |
|        |         |                                                        |                                          |                                                    | ADSM                                               | Curved, smooth        | 120     | 120V                            |       |                                          | LP835 | 82CRI, 3500 K     |  |
|        |         |                                                        |                                          |                                                    | SDP                                                | Square, linear prisms | 277     | 277V                            |       |                                          | LP840 | 82CRI, 4000 K     |  |
|        |         |                                                        |                                          |                                                    | SDSM                                               | Square, smooth        | 347     | 347V <sup>5</sup>               | GZ1   | Dims to 1% (0-10V dimming) <sup>6</sup>  | LP850 | 82CRI, 5000 K     |  |
|        |         |                                                        |                                          |                                                    | <b>Includes trim rings to match sensed version</b> |                       |         |                                 | GZ10  | Dims to 10% (0-10V dimming) <sup>6</sup> | LP930 | 90CRI, 3000K      |  |
|        |         |                                                        |                                          |                                                    | ADPT                                               | Curved, linear prisms | SLD     | Step-level dimming <sup>6</sup> | LP935 | 90CRI, 3500K                             |       |                   |  |
|        |         |                                                        |                                          |                                                    | ADSMT                                              | Curved, smooth        |         |                                 | LP940 | 90CRI, 4000K                             |       |                   |  |
|        |         |                                                        |                                          |                                                    | SDPT                                               | Square, linear prisms |         |                                 | LP950 | 90CRI, 5000K                             |       |                   |  |
|        |         |                                                        |                                          |                                                    | SDSMT                                              | Square, smooth        |         |                                 |       |                                          |       |                   |  |
|        |         | 30L 3000                                               | 30LHE 3000                               |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 40L 4000                                               | 40LHE 4000                               |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 48L 4800                                               | 48LHE 4800                               |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 60L 6000                                               | 60LHE 6000                               |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 72L 7200                                               | 72LHE 7200                               |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 85L 8500                                               | 85LHE 8500                               |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 100L 10000                                             |                                          |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |
|        |         | 120L 12000                                             |                                          |                                                    |                                                    |                       |         |                                 |       |                                          |       |                   |  |

| nLight Interface                                                                                                                                                                                                                                                                                                                              | Control <sup>12</sup>                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                    | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>nLight Wired</b><br>(blank) no nLight <sup>®</sup> interface<br>N80 nLight with 80% lumen management<br>N80EMG nLight with 80% lumen management For use with generator supply EM power <sup>9</sup><br>N100 nLight without lumen management<br>N100EMG nLight without lumen management For use with generator supply EM power <sup>9</sup> | <b>nLight Wired</b><br>(blank) No sensor control<br>NES7 nLight™ nES 7 PIR integral occupancy sensor <sup>12</sup><br>NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control <sup>12</sup><br>NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>12</sup><br>NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>12</sup> | <b>Individual Control</b><br>MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell <sup>7,13</sup><br>MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell <sup>7,13</sup> | EL7L 700 lumen battery pack (non-CEC compliant) <sup>14</sup><br>EL14L 1400 lumen battery pack (non-CEC compliant) <sup>14</sup><br>EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (non-CEC compliant) <sup>14,15</sup><br>E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant <sup>14</sup><br>CP Chicago plenum <sup>16</sup><br>BGTD Bodine Generator Transfer Device <sup>17</sup><br>PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit<br>PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit<br>PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray <sup>18</sup><br>PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires <sup>18</sup><br>GLR Fast-blowing fuse <sup>19</sup><br>GMF Slow-blowing fuse <sup>19</sup><br>NPLT Narrow pallet<br>RRL_ RELOC <sup>®</sup> -ready luminaire <sup>20</sup><br>LATC Earthquake clip<br>DWAM Anti-Microbial paint<br>JP16 Job packaging<br>IP5X Gasketed diffuser compartment to meet IP5X rating <sup>21</sup> |  |
| <b>nLight Wireless</b><br>(blank) no nLight <sup>®</sup> interface<br>NLTAIR2 nLight AIR Generation 2 enabled <sup>10</sup>                                                                                                                                                                                                                   | <b>nLight Wireless</b><br>RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities <sup>13</sup><br>RES7PDT nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell <sup>13</sup><br>RIO nLight AIR radio module without sensor                                                                                                                            |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |

Accessories next page

## Notes

- Consult factory for airflow data.
- Approximate lumen output.
- All versions may not achieve 130+ LPW. Refer to photometry on [www.acuitybrands.com](http://www.acuitybrands.com).
- Air supply/return option, 90 CRI, and versions with integral sensor trim rings may not achieve 130 LPW.
- Not available with SLD, EL7L, EL14L, or E10WLCP options.
- GZ1 and GZ10 not available with any Control or Sensor options
- Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.

- Not available with controls, occupancy controls, or PWS options. Consult factory for Hi-Lume dimming.
- nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- Must order with RES7, RES7PDT, or RIO module. Only available with EZ1 driver. Not available with 85L, 100L, or 120L options.
- Must specify diffuser with trim rings. See sensor options on page 4.
- Requires N80, N80EMG, N100, or N100EMG.
- Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
- When using pre-wire option, use PWS1846 or PWS1846 PWSLV.

- For more information, please see the [PSSD2 specification sheet](#).
- Not available with N80, N80EMG, N100, or N100EMG.
- Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- Not available with nLight wired/wireless network or individual controls.
- Must specify voltage, 120 or 277, with GLR and GFM fusing.
- For ordering logic consult [RRL\\_2013](#).
- Not available with air supply/return or Wired Networking (NES\_) and Individual Control (MSD\_) sensors.

# 2BLT Volumetric Recessed Lighting 2'x4'

| Non-Configurable BLT |                            |                |        |         |     |                   |         |            |
|----------------------|----------------------------|----------------|--------|---------|-----|-------------------|---------|------------|
| Stock/MTO            | Catalog Description *      | UPC            | Lumens | Wattage | LPW | Color Temperature | Voltage | Pallet Qty |
| Stock                | 2BLT4 40L ADP LP835        | 00190887470789 | 4000   | 31      | 129 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 40L ADP LP840        | 00190887470765 | 4063   | 31      | 131 | 4000K/82CRI       | 120-277 | 26         |
|                      | 2BLT4 48L ADP LP835        | 00190887468656 | 4960   | 38      | 131 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 48L ADP LP840        | 00190887468649 | 5039   | 38      | 133 | 4000K/82CRI       | 120-277 | 26         |
|                      | 2BLT4 40L ADP EL 14L LP835 | 00190887470925 | 4000   | 31      | 129 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 40L ADP EL 14L LP840 | 00190887470918 | 4063   | 31      | 131 | 4000K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 48L ADP EL 14L LP835 | 00190887468670 | 4960   | 38      | 131 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 48L ADP EL 14L LP840 | 00190887468663 | 5039   | 38      | 133 | 4000K/82 CRI      | 120-277 | 26         |
| MTO                  | 2BLT4 40L ADP 347 LP835    |                | 4000   | 31      | 129 | 3500K/82 CRI      | 347     | 26         |
|                      | 2BLT4 40L ADP 347 LP840    |                | 4063   | 31      | 131 | 4000K/82CRI       | 347     | 26         |
|                      | 2BLT4 48L ADP 347 LP835    |                | 4960   | 38      | 131 | 3500K/82 CRI      | 347     | 26         |
|                      | 2BLT4 48L ADP 347 LP840    |                | 5039   | 38      | 133 | 4000K/82CRI       | 347     | 26         |

\*Generic 0-10V Dimming to 10%.

| Accessories: Order as separate catalog number. |                                               |
|------------------------------------------------|-----------------------------------------------|
| DGA24                                          | Drywall grid adapter for 2x4 recessed fixture |
| 2X4SMK                                         | Surface Mount Troffer Kit                     |

## nLight® Wired Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlight](http://www.acuitybrands.com/products/controls/nlight).

| WallPod stations     | Model number     | Occupancy sensors                            | Model number               |
|----------------------|------------------|----------------------------------------------|----------------------------|
| On/Off               | nPODM [color]    | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 RJB / nCM PDT 9 RJB  |
| On/Off & raise/lower | nPODM DX [color] | Large motion 360°, ceiling (PIR / dual tech) | nCM10 RJB / nCM PDT 10 RJB |
| Graphic touchscreen  | nPOD GFX [color] | Wall switch with raise/lower                 | nWSX PDT LV DX [color]     |
| Photocell controls   | Model number     | Cat-5 cable (plenum rated)                   | Model number               |
| Full range dimming   | nCM ADCX RJB     | 10' cable                                    | CAT5 10FT J1               |
|                      |                  | 30' cable                                    | CAT5 30FT J1               |

## nLight® AIR Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlightair](http://www.acuitybrands.com/products/controls/nlightair).

| Wall switches                    | Model number           |
|----------------------------------|------------------------|
| On/Off single pole               | rPODB [color] G2       |
| On/Off two pole                  | rPODB 2P [color] G2    |
| On/Off & raise/lower single pole | rPODB DX [color] G2    |
| On/Off & raise/lower two pole    | rPODB 2P DX [color] G2 |
| On/Off & raise/lower single pole | rPODBZ DX WH G2        |

| rCMS                                          |                                                                                |                                                         |                                                                                                     |                                    |                               | Example: RCMS PDT 10 AR G2 |  |
|-----------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|----------------------------|--|
| Series / Detection                            | Power Supply <sup>1</sup>                                                      | Occupancy Detection                                     | Lens (Required)                                                                                     | Operating Mode                     | Generation                    |                            |  |
| RCMS nLight AIR occupancy and daylight sensor | [blank] Power Supply ordered separately<br>PS 150 Standard 150 mA Power Supply | [blank] PIR Detection<br>PDT Dual Tech PIR/Microphonics | 10 Large Motion/ Extended Range 360°<br>9 Small Motion/ Extended Range 360°<br>6 High Bay 360° Lens | [BLANK] None<br>AR Auxiliary Relay | G2 Generation 2 compatibility |                            |  |

| Replacement Parts: Order as separate catalog number. |                                    |                        |
|------------------------------------------------------|------------------------------------|------------------------|
| *249P2N                                              | 2DBLT48 ADP LENS ASSEMBLY          | 4 ft. replacement lens |
| *249P2T                                              | 2DBLT48 SDP LENS ASSEMBLY          | 4 ft. replacement lens |
| *249P30                                              | 2DBLT48 ADSM LENS ASSEMBLY         | 4 ft. replacement lens |
| *249P33                                              | 2DBLT48 ADSM LENS ASSEMBLY         | 4 ft. replacement lens |
| *237LT2                                              | 2DBLT48 ADPT LENS ASSEMBLY         | 4 ft. replacement lens |
| *237LT4                                              | 2DBLT48 SDPT LENS ASSEMBLY         | 4 ft. replacement lens |
| *237LT6                                              | 2DBLT48 ADSMT LENS ASSEMBLY        | 4 ft. replacement lens |
| *237LT8                                              | 2DBLT48 SDSMT LENS ASSEMBLY        | 4 ft. replacement lens |
| *237LTA                                              | 2DBLT48 ADPT SENSOR LENS ASSEMBLY  | 4 ft. replacement lens |
| *237M52                                              | 2DBLT48 SDPT SENSOR LENS ASSEMBLY  | 4 ft. replacement lens |
| *237M5A                                              | 2DBLT48 ADSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens |
| *237M5L                                              | 2DBLT48 SDSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens |

## Notes

- RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.



# 2BLT Volumetric Recessed Lighting 2'x4'

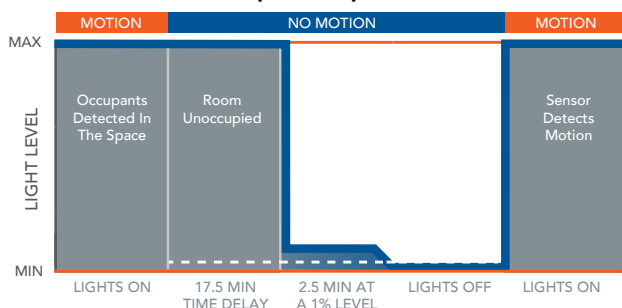
| Sensor Options |                             |                   |     |                         |
|----------------|-----------------------------|-------------------|-----|-------------------------|
| Option         | Automatic Dimming Photocell | Occupancy Sensing |     | nLight Wired Networking |
|                |                             | PIR               | PDT |                         |
| MSD7ADCX       | X                           | X                 |     |                         |
| MSDPDT7ADCX    | X                           |                   | X   |                         |
| NES7           |                             | X                 |     | X                       |
| NES7ADCX       | X                           | X                 |     | X                       |
| NESPDT7        |                             |                   | X   | X                       |
| NESPDT7ADCX    | X                           |                   | X   | X                       |
| RES7           | X                           | X                 |     | X                       |
| RESPDT7        | X                           | X                 | X   | X                       |

## Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

## Sequence of Operation

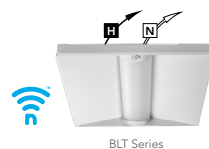
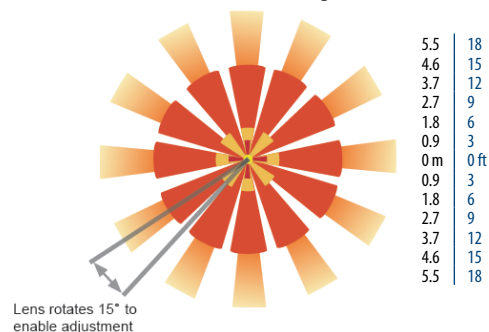


\*The presetting on the automatic dimming photocell is 5fc.

## Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

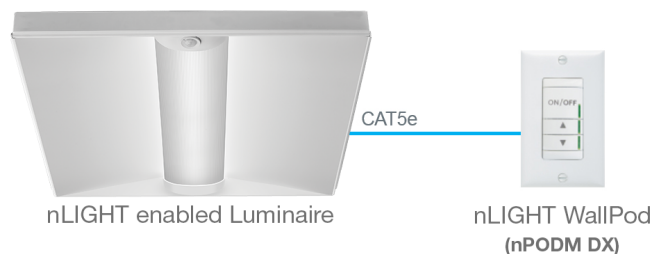
## 9 FT Mounting



## Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

## Basic nLight Zone

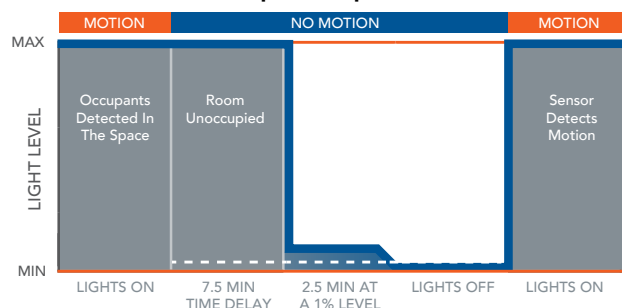


## nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

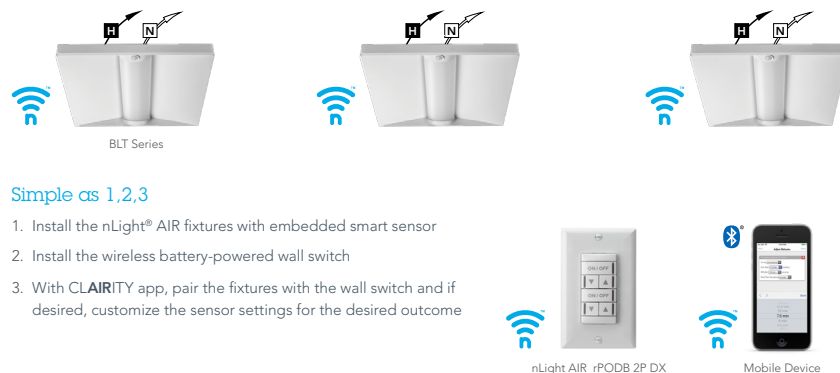
## Sequence of Operation



\*The presetting on the automatic dimming photocell is 5fc.

## nLight AIR Wireless

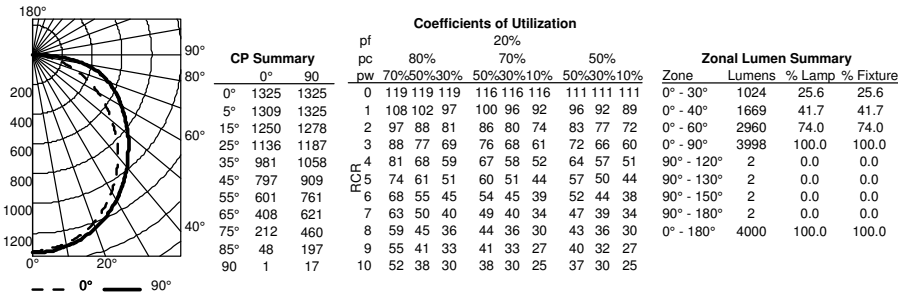
nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. Integrated RES7 or RES7PDT smart sensors are part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.



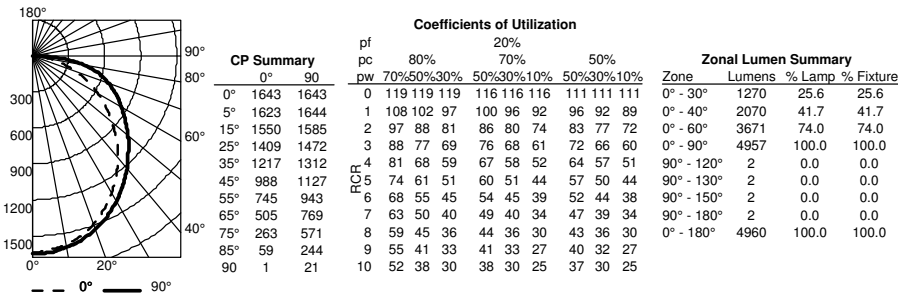
2BLT Volumetric Recessed Lighting 2'x4'

PHOTOMETRICS

2BLT4 40L ADP LP835, 4000 delivered lumens, test no. ISF36900P109, tested in accordance to IESNA LM-79

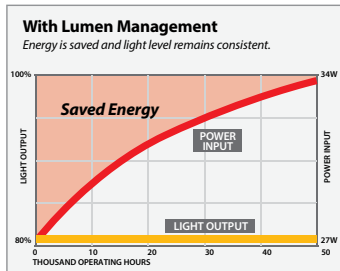
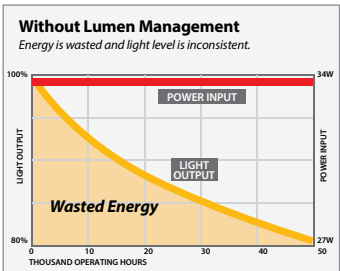


2BLT4 48L ADP LP835, 4960 delivered lumens, test no. ISF 36900P117, tested in accordance to IESNA LM-79



Constant Lumen Management

Enabled by the embedded nLight control, the BLT 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, this feature eliminates the energy waste created by the traditional practice of over-lighting.



How to Estimate Delivered Lumens in Emergency Mode

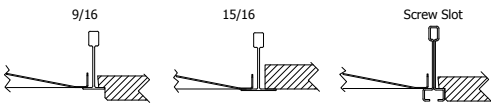
Use the formula below to estimate the delivered lumens in emergency mode

**Delivered Lumens = 1.25 x P x LPW**

P = Output 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.

| MOUNTING DATA                   |                       |
|---------------------------------|-----------------------|
| Ceiling Type                    | Appropriate Trim Type |
| Exposed grid tee (1' and 9/16") | G                     |
| Concealed grid tee              | G                     |
| Plaster or plasterboard         | G*                    |



\*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 48-3/4" (Tolerance is +1/8", -0").

# 2BLT Volumetric Recessed Lighting 2'x4'

| Performance Data                                   |        |       |       |             |          |
|----------------------------------------------------|--------|-------|-------|-------------|----------|
| Material                                           | Lumens | LPW   | Watts | DLC Listing | DLC ID   |
| 2BLT4 30L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 2962.0 | 127.3 | 23.3  | Premium     | PWJDEMHS |
| 2BLT4 30L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 2828.0 | 123.3 | 22.9  | Premium     | PX3HLIFK |
| 2BLT4 30L ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 3009.3 | 129.3 | 23.3  | Premium     | P18J5GLD |
| 2BLT4 30L ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 2969.2 | 127.6 | 23.3  | Premium     | P3HB2XSG |
| 2BLT4 40L ADP LP835                                | 4000.0 | 126.2 | 31.7  | Premium     | PV1X7BV6 |
| 2BLT4 40L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4000.0 | 126.2 | 31.7  | Premium     | PDWKYXFD |
| 2BLT4 40L ADP LP835                                | 4000.0 | 126.2 | 31.7  | Premium     | PV1X7BV6 |
| 2BLT4 40L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4000.0 | 126.2 | 31.7  | Premium     | PDWKYXFD |
| 2BLT4 40L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 3946.7 | 124.5 | 31.7  | Premium     | PS63CPK6 |
| 2BLT4 40L ADP LP840                                | 4063.9 | 128.2 | 31.7  | Premium     | P7GJNP7R |
| 2BLT4 40L ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 4063.9 | 128.2 | 31.7  | Premium     | PEYXAZWD |
| 2BLT4 40L ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 4009.7 | 126.5 | 31.7  | Premium     | PK79UR9W |
| 2BLT4 48L ADP LP835                                | 4960.0 | 130.5 | 38.0  | Premium     | PFUJ4KY  |
| 2BLT4 48L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4960.0 | 130.5 | 38.0  | Premium     | PJ9CK6C1 |
| 2BLT4 48L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4893.9 | 128.8 | 38.0  | Premium     | PPFKZU3U |
| 2BLT4 48L ADP LP840                                | 5039.2 | 132.6 | 38.0  | Premium     | P3SXAURT |
| 2BLT4 48L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4960.0 | 130.5 | 38.0  | Premium     | PJ9CK6C1 |
| 2BLT4 48L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4893.9 | 128.8 | 38.0  | Premium     | PPFKZU3U |
| 2BLT4 60L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 6016.0 | 126.4 | 47.6  | Premium     | PSJ6QERM |
| 2BLT4 60L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 5935.8 | 124.7 | 47.6  | Premium     | PHT84BW4 |
| 2BLT4 60L ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 6112.0 | 128.4 | 47.6  | Premium     | PVXQXPUV |
| 2BLT4 60L ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 6030.6 | 126.7 | 47.6  | Premium     | PXV55BC8 |

DLC information is subject to change, for the most up-to-date information please refer to [www.dlc.org](http://www.dlc.org). Above listings do not cover 347v or SLD.

| HE Performance Data                                  |        |       |       |             |          |
|------------------------------------------------------|--------|-------|-------|-------------|----------|
| Material                                             | Lumens | LPW   | Watts | DLC Listing | DLC ID   |
| 2BLT4 30LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 3107.0 | 135.2 | 23.0  | Premium     | P7KEICW5 |
| 2BLT4 30LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 3065.6 | 133.4 | 23.0  | Premium     | P7PZAJDZ |
| 2BLT4 30LHE ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 3156.6 | 137.3 | 23.0  | Premium     | PDOM06BH |
| 2BLT4 30LHE ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 3114.5 | 135.5 | 23.0  | Premium     | P2N23EBP |
| 2BLT4 40LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4085.0 | 138.6 | 29.5  | Premium     | P67P6S5Y |
| 2BLT4 40LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4030.5 | 136.7 | 29.5  | Premium     | PC15DQEC |
| 2BLT4 40LHE ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 4150.0 | 140.8 | 29.5  | Premium     | P95UQD66 |
| 2BLT4 40LHE ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 4094.9 | 138.9 | 29.5  | Premium     | PGRCSJ2T |
| 2BLT4 48LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4770.0 | 138.2 | 34.5  | Premium     | PXBJBGN8 |
| 2BLT4 48LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4706.4 | 136.3 | 34.5  | Premium     | P2NK2H33 |
| 2BLT4 48LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4770.0 | 138.2 | 34.5  | Premium     | PXBJBGN8 |
| 2BLT4 48LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4706.4 | 136.3 | 34.5  | Premium     | P2NK2H33 |
| 2BLT4 60LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 5894.0 | 135.1 | 43.6  | Premium     | PQZN176R |
| 2BLT4 60LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 5815.4 | 133.3 | 43.6  | Premium     | PZ72TAWM |
| 2BLT4 60LHE ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 5988.1 | 137.3 | 43.6  | Premium     | PG5CYJUC |
| 2BLT4 60LHE ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 5908.3 | 135.5 | 43.6  | Premium     | PRC4W72B |

DLC information is subject to change, for the most up-to-date information please refer to [www.dlc.org](http://www.dlc.org). Above listings do not cover 347v or SLD.

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The BLT Best-in-Value Low Profile LED Luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

**CONSTRUCTION** — BLT enclosure components are die-formed for dimensional consistency and painted after fabrication with a polyester powder paint for improved performance and protection.

The reflector is finished with a high reflective matte white powder paint for improved aesthetics and increased light diffusion.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

**OPTICS** — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with linear prisms or a smooth frosted finish.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

**Non-Configurable BLT:** Generic 0-10 volt dimming driver. Dims to 10%

**Configurable BLT:** available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

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

Optional integrated nLight™ controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board 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.

Driver disconnect provided where required to comply with US and Canadian codes.

**SENSOR — Integrated sensor (individual control):** Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

**Integrated Sensor (nLight Wired Networking):** This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

**Integrated Smart Sensor (nLight Air Wireless Platform):** The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

**INSTALLATION** — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

**LISTINGS** — CSA Certified to meet U.S. and Canadian standards. IC rated. 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

**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.

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

BLT Series LED

# 2BLT

2' x 4'  
LED



eldoLED



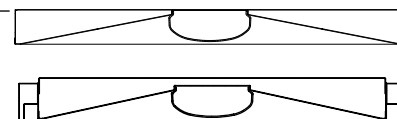
### Specifications

Length: 47-3/4 (121.2)

Width: 23-3/4 (60.3)

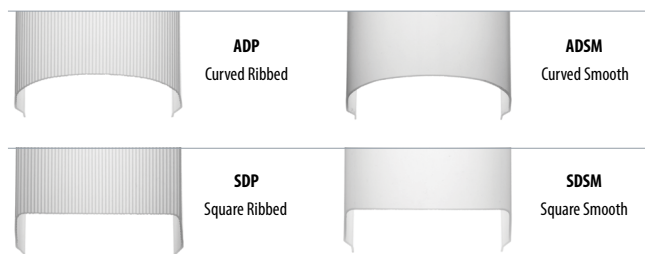
Depth: 2-3/8 (6.0)

Depth with Air supply/return: 2-3/4 (6.9)



All dimensions are inches (centimeters) unless otherwise specified.

## Multiple Diffuser Options



## 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](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# 2BLT Volumetric Recessed Lighting 2'x4'



A+ Capable options indicated by this color background.

## ORDERING INFORMATION

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

Example: 2BLT4 40L ADP EZ1 LP840

| 2BLT4  |         |                                                        |                                          |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|--------|---------|--------------------------------------------------------|------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------|---------|------------------------------------------|-------|-----------------------------------------|-------|-------------------|--|
| Series |         | Air function                                           |                                          | Lumens <sup>2</sup>                                |                                                    | Diffuser              |         | Voltage                                  |       | Driver                                  |       | Color temperature |  |
| 2BLT4  | 2x4 BLT | (blank) Static<br>A Air supply/<br>return <sup>1</sup> | <b>Standard efficiency (&gt;100 LPW)</b> | <b>High efficiency<sup>3,4</sup> (&gt;130 LPW)</b> | ADP                                                | Curved, linear prisms | (blank) | MVOLT                                    | EZ1   | eldoLED dims to 1% (0-10 volt dimming)  | LP830 | 82CRI, 3000 K     |  |
|        |         |                                                        |                                          |                                                    | ADSM                                               | Curved, smooth        | 120     | 120V                                     |       |                                         | LP835 | 82CRI, 3500 K     |  |
|        |         |                                                        |                                          |                                                    | SDP                                                | Square, linear prisms | 277     | 277V                                     |       |                                         | LP840 | 82CRI, 4000 K     |  |
|        |         |                                                        |                                          |                                                    | SDSM                                               | Square, smooth        | 347     | 347V <sup>5</sup>                        | GZ1   | Dims to 1% (0-10V dimming) <sup>6</sup> | LP850 | 82CRI, 5000 K     |  |
|        |         |                                                        |                                          |                                                    | <b>Includes trim rings to match sensed version</b> |                       | GZ10    | Dims to 10% (0-10V dimming) <sup>6</sup> | LP930 | 90CRI, 3000K                            |       |                   |  |
|        |         |                                                        |                                          |                                                    | ADPT                                               | Curved, linear prisms | SLD     | Step-level dimming <sup>6</sup>          | LP935 | 90CRI, 3500K                            |       |                   |  |
|        |         |                                                        |                                          |                                                    | ADSMT                                              | Curved, smooth        |         |                                          | LP940 | 90CRI, 4000K                            |       |                   |  |
|        |         |                                                        |                                          |                                                    | SDPT                                               | Square, linear prisms |         |                                          | LP950 | 90CRI, 5000K                            |       |                   |  |
|        |         |                                                        |                                          |                                                    | SDSMT                                              | Square, smooth        |         |                                          |       |                                         |       |                   |  |
|        |         | 30L 3000                                               | 30LHE 3000                               |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 40L 4000                                               | 40LHE 4000                               |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 48L 4800                                               | 48LHE 4800                               |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 60L 6000                                               | 60LHE 6000                               |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 72L 7200                                               | 72LHE 7200                               |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 85L 8500                                               | 85LHE 8500                               |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 100L 10000                                             |                                          |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |
|        |         | 120L 12000                                             |                                          |                                                    |                                                    |                       |         |                                          |       |                                         |       |                   |  |

| nLight Interface                                                                                                                                                                                                                                                                                                                              | Control <sup>12</sup>                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                    | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>nLight Wired</b><br>(blank) no nLight <sup>®</sup> interface<br>N80 nLight with 80% lumen management<br>N80EMG nLight with 80% lumen management For use with generator supply EM power <sup>9</sup><br>N100 nLight without lumen management<br>N100EMG nLight without lumen management For use with generator supply EM power <sup>9</sup> | <b>nLight Wired</b><br>(blank) No sensor control<br>NES7 nLight™ nES 7 PIR integral occupancy sensor <sup>12</sup><br>NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control <sup>12</sup><br>NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>12</sup><br>NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>12</sup> | <b>Individual Control</b><br>MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell <sup>7,13</sup><br>MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell <sup>7,13</sup> | EL7L 700 lumen battery pack (non-CEC compliant) <sup>14</sup><br>EL14L 1400 lumen battery pack (non-CEC compliant) <sup>14</sup><br>EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (non-CEC compliant) <sup>14,15</sup><br>E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant <sup>14</sup><br>CP Chicago plenum <sup>16</sup><br>BGTD Bodine Generator Transfer Device <sup>17</sup><br>PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit<br>PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit<br>PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray <sup>18</sup><br>PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires <sup>18</sup><br>GLR Fast-blowing fuse <sup>19</sup><br>GMF Slow-blowing fuse <sup>19</sup><br>NPLT Narrow pallet<br>RRL_ RELOC <sup>®</sup> -ready luminaire <sup>20</sup><br>LATC Earthquake clip<br>DWAM Anti-Microbial paint<br>JP16 Job packaging<br>IP5X Gasketed diffuser compartment to meet IP5X rating <sup>21</sup> |  |
| <b>nLight Wireless</b><br>(blank) no nLight <sup>®</sup> interface<br>NLTAIR2 nLight AIR Generation 2 enabled <sup>10</sup>                                                                                                                                                                                                                   | <b>nLight Wireless</b><br>RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities <sup>13</sup><br>RES7PDT nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell <sup>13</sup><br>RIO nLight AIR radio module without sensor                                                                                                                            |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |

Accessories next page

## Notes

- Consult factory for airflow data.
- Approximate lumen output.
- All versions may not achieve 130+ LPW. Refer to photometry on [www.acuitybrands.com](http://www.acuitybrands.com).
- Air supply/return option, 90 CRI, and versions with integral sensor trim rings may not achieve 130 LPW.
- Not available with SLD, EL7L, EL14L, or E10WLCP options.
- GZ1 and GZ10 not available with any Control or Sensor options
- Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.

- Not available with controls, occupancy controls, or PWS options. Consult factory for Hi-Lume dimming.
- nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- Must order with RES7, RES7PDT, or RIO module. Only available with EZ1 driver. Not available with 85L, 100L, or 120L options.
- Must specify diffuser with trim rings. See sensor options on page 4.
- Requires N80, N80EMG, N100, or N100EMG.
- Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
- When using pre-wire option, use PWS1846 or PWS1846 PWSLV.

- For more information, please see the [PSSD2 specification sheet](#).
- Not available with N80, N80EMG, N100, or N100EMG.
- Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- Not available with nLight wired/wireless network or individual controls.
- Must specify voltage, 120 or 277, with GLR and GFM fusing.
- For ordering logic consult [RRL 2013](#).
- Not available with air supply/return or Wired Networking (NES\_) and Individual Control (MSD\_) sensors.

## 2BLT Volumetric Recessed Lighting 2'x4'

| Non-Configurable BLT |                            |                |        |         |     |                   |         |            |
|----------------------|----------------------------|----------------|--------|---------|-----|-------------------|---------|------------|
| Stock/MTO            | Catalog Description *      | UPC            | Lumens | Wattage | LPW | Color Temperature | Voltage | Pallet Qty |
| Stock                | 2BLT4 40L ADP LP835        | 00190887470789 | 4000   | 31      | 129 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 40L ADP LP840        | 00190887470765 | 4063   | 31      | 131 | 4000K/82CRI       | 120-277 | 26         |
|                      | 2BLT4 48L ADP LP835        | 00190887468656 | 4960   | 38      | 131 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 48L ADP LP840        | 00190887468649 | 5039   | 38      | 133 | 4000K/82CRI       | 120-277 | 26         |
|                      | 2BLT4 40L ADP EL 14L LP835 | 00190887470925 | 4000   | 31      | 129 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 40L ADP EL 14L LP840 | 00190887470918 | 4063   | 31      | 131 | 4000K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 48L ADP EL 14L LP835 | 00190887468670 | 4960   | 38      | 131 | 3500K/82 CRI      | 120-277 | 26         |
|                      | 2BLT4 48L ADP EL 14L LP840 | 00190887468663 | 5039   | 38      | 133 | 4000K/82 CRI      | 120-277 | 26         |
| MTO                  | 2BLT4 40L ADP 347 LP835    |                | 4000   | 31      | 129 | 3500K/82 CRI      | 347     | 26         |
|                      | 2BLT4 40L ADP 347 LP840    |                | 4063   | 31      | 131 | 4000K/82CRI       | 347     | 26         |
|                      | 2BLT4 48L ADP 347 LP835    |                | 4960   | 38      | 131 | 3500K/82 CRI      | 347     | 26         |
|                      | 2BLT4 48L ADP 347 LP840    |                | 5039   | 38      | 133 | 4000K/82CRI       | 347     | 26         |

\*Generic 0-10V Dimming to 10%.

| Accessories: Order as separate catalog number. |                                               |
|------------------------------------------------|-----------------------------------------------|
| DGA24                                          | Drywall grid adapter for 2x4 recessed fixture |
| 2X4SMK                                         | Surface Mount Troffer Kit                     |

### nLight® Wired Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlight](http://www.acuitybrands.com/products/controls/nlight).

| WallPod stations     | Model number     | Occupancy sensors                            | Model number               |
|----------------------|------------------|----------------------------------------------|----------------------------|
| On/Off               | nPODM [color]    | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 RJB / nCM PDT 9 RJB  |
| On/Off & raise/lower | nPODM DX [color] | Large motion 360°, ceiling (PIR / dual tech) | nCM10 RJB / nCM PDT 10 RJB |
| Graphic touchscreen  | nPOD GFX [color] | Wall switch with raise/lower                 | nWSX PDT LV DX [color]     |
| Photocell controls   | Model number     | Cat-5 cable (plenum rated)                   | Model number               |
| Full range dimming   | nCM ADCX RJB     | 10' cable                                    | CAT5 10FT J1               |
|                      |                  | 30' cable                                    | CAT5 30FT J1               |

### nLight® AIR Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlightair](http://www.acuitybrands.com/products/controls/nlightair).

| Wall switches                    | Model number           |
|----------------------------------|------------------------|
| On/Off single pole               | rPODB [color] G2       |
| On/Off two pole                  | rPODB 2P [color] G2    |
| On/Off & raise/lower single pole | rPODB DX [color] G2    |
| On/Off & raise/lower two pole    | rPODB 2P DX [color] G2 |
| On/Off & raise/lower single pole | rPODBZ DX WH G2        |

| rCMS                                          |                                                                                |                                                          |                                                                                                     |                                    |                               | Example: RCMS PDT 10 AR G2 |  |
|-----------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|----------------------------|--|
| Series / Detection                            | Power Supply <sup>1</sup>                                                      | Occupancy Detection                                      | Lens (Required)                                                                                     | Operating Mode                     | Generation                    |                            |  |
| RCMS nLight AIR occupancy and daylight sensor | [blank] Power Supply ordered separately<br>PS 150 Standard 150 mA Power Supply | [blank] PIR Detection<br>PDT Dual Tech PIR/ Microphonics | 10 Large Motion/ Extended Range 360°<br>9 Small Motion/ Extended Range 360°<br>6 High Bay 360° Lens | [BLANK] None<br>AR Auxiliary Relay | G2 Generation 2 compatibility |                            |  |

| Replacement Parts: Order as separate catalog number. |                                    |                        |
|------------------------------------------------------|------------------------------------|------------------------|
| *249P2N                                              | 2DBLT48 ADP LENS ASSEMBLY          | 4 ft. replacement lens |
| *249P2T                                              | 2DBLT48 SDP LENS ASSEMBLY          | 4 ft. replacement lens |
| *249P30                                              | 2DBLT48 ADSM LENS ASSEMBLY         | 4 ft. replacement lens |
| *249P33                                              | 2DBLT48 ADSM LENS ASSEMBLY         | 4 ft. replacement lens |
| *237LT2                                              | 2DBLT48 ADPT LENS ASSEMBLY         | 4 ft. replacement lens |
| *237LT4                                              | 2DBLT48 SDPT LENS ASSEMBLY         | 4 ft. replacement lens |
| *237LT6                                              | 2DBLT48 ADSMT LENS ASSEMBLY        | 4 ft. replacement lens |
| *237LT8                                              | 2DBLT48 SDSMT LENS ASSEMBLY        | 4 ft. replacement lens |
| *237LTA                                              | 2DBLT48 ADPT SENSOR LENS ASSEMBLY  | 4 ft. replacement lens |
| *237M52                                              | 2DBLT48 SDPT SENSOR LENS ASSEMBLY  | 4 ft. replacement lens |
| *237M5A                                              | 2DBLT48 ADSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens |
| *237M5L                                              | 2DBLT48 SDSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens |

### Notes

- RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.



# 2BLT Volumetric Recessed Lighting 2'x4'

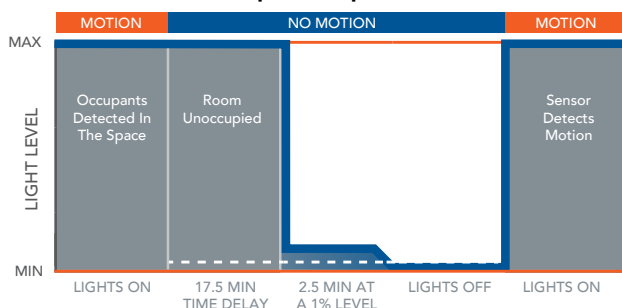
| Sensor Options |                             |                   |     |                         |
|----------------|-----------------------------|-------------------|-----|-------------------------|
| Option         | Automatic Dimming Photocell | Occupancy Sensing |     | nLight Wired Networking |
|                |                             | PIR               | PDT |                         |
| MSD7ADCX       | X                           | X                 |     |                         |
| MSDPDT7ADCX    | X                           |                   | X   |                         |
| NES7           |                             | X                 |     | X                       |
| NES7ADCX       | X                           | X                 |     | X                       |
| NESPDT7        |                             |                   | X   | X                       |
| NESPDT7ADCX    | X                           |                   | X   | X                       |
| RES7           | X                           | X                 |     | X                       |
| RESPDT7        | X                           | X                 | X   | X                       |

## Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

## Sequence of Operation

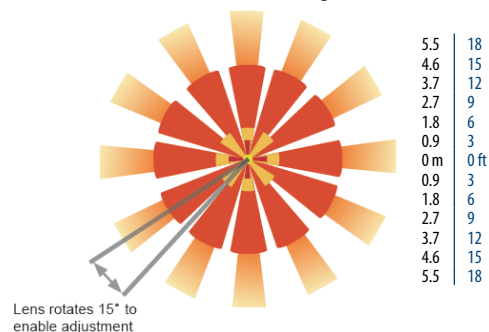


\*The presetting on the automatic dimming photocell is 5fc.

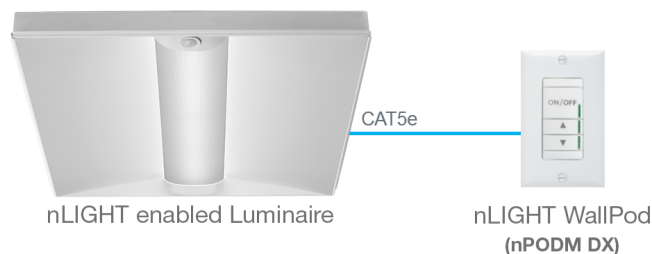
## Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

## 9 FT Mounting



## Basic nLight Zone

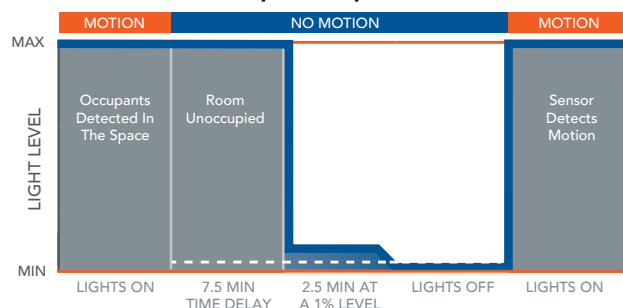


## nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

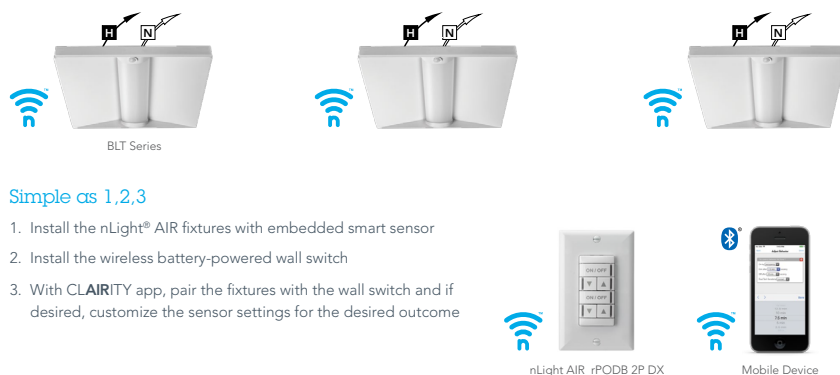
## Sequence of Operation



\*The presetting on the automatic dimming photocell is 5fc.

## nLight AIR Wireless

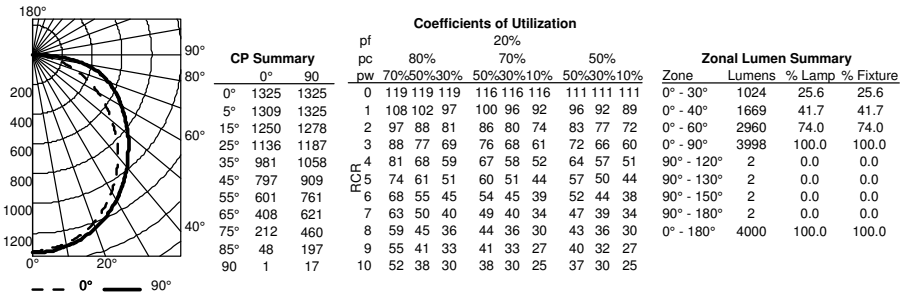
nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. Integrated RES7 or RES7PDT smart sensors are part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.



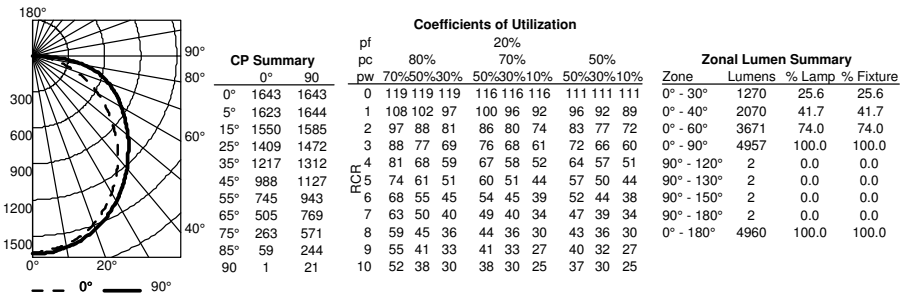
2BLT Volumetric Recessed Lighting 2'x4'

PHOTOMETRICS

2BLT4 40L ADP LP835, 4000 delivered lumens, test no. ISF36900P109, tested in accordance to IESNA LM-79

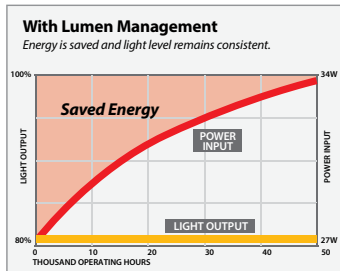
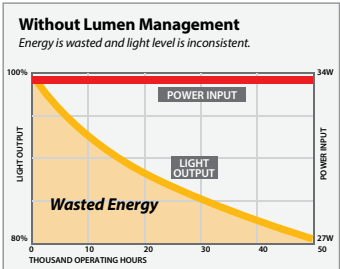


2BLT4 48L ADP LP835, 4960 delivered lumens, test no. ISF 36900P117, tested in accordance to IESNA LM-79



Constant Lumen Management

Enabled by the embedded nLight control, the BLT 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, this feature eliminates the energy waste created by the traditional practice of over-lighting.



How to Estimate Delivered Lumens in Emergency Mode

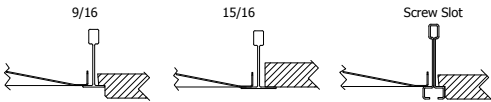
Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Output 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.

| MOUNTING DATA                   |                       |
|---------------------------------|-----------------------|
| Ceiling Type                    | Appropriate Trim Type |
| Exposed grid tee (1' and 9/16") | G                     |
| Concealed grid tee              | G                     |
| Plaster or plasterboard         | G*                    |



\*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 48-3/4" (Tolerance is +1/8", -0").

# 2BLT Volumetric Recessed Lighting 2'x4'

| Performance Data                                   |        |       |       |             |          |
|----------------------------------------------------|--------|-------|-------|-------------|----------|
| Material                                           | Lumens | LPW   | Watts | DLC Listing | DLC ID   |
| 2BLT4 30L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 2962.0 | 127.3 | 23.3  | Premium     | PWJDEMHS |
| 2BLT4 30L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 2828.0 | 123.3 | 22.9  | Premium     | PX3HLIFK |
| 2BLT4 30L ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 3009.3 | 129.3 | 23.3  | Premium     | P18J5GLD |
| 2BLT4 30L ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 2969.2 | 127.6 | 23.3  | Premium     | P3HB2XSG |
| 2BLT4 40L ADP LP835                                | 4000.0 | 126.2 | 31.7  | Premium     | PV1X7BV6 |
| 2BLT4 40L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4000.0 | 126.2 | 31.7  | Premium     | PDWKYXFD |
| 2BLT4 40L ADP LP835                                | 4000.0 | 126.2 | 31.7  | Premium     | PV1X7BV6 |
| 2BLT4 40L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4000.0 | 126.2 | 31.7  | Premium     | PDWKYXFD |
| 2BLT4 40L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 3946.7 | 124.5 | 31.7  | Premium     | PS63CPK6 |
| 2BLT4 40L ADP LP840                                | 4063.9 | 128.2 | 31.7  | Premium     | P7GJNP7R |
| 2BLT4 40L ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 4063.9 | 128.2 | 31.7  | Premium     | PEYXAZWD |
| 2BLT4 40L ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 4009.7 | 126.5 | 31.7  | Premium     | PK79UR9W |
| 2BLT4 48L ADP LP835                                | 4960.0 | 130.5 | 38.0  | Premium     | PFUJ4KY  |
| 2BLT4 48L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4960.0 | 130.5 | 38.0  | Premium     | PJ9CK6C1 |
| 2BLT4 48L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4893.9 | 128.8 | 38.0  | Premium     | PPFKZU3U |
| 2BLT4 48L ADP LP840                                | 5039.2 | 132.6 | 38.0  | Premium     | P3SXAURT |
| 2BLT4 48L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4960.0 | 130.5 | 38.0  | Premium     | PJ9CK6C1 |
| 2BLT4 48L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4893.9 | 128.8 | 38.0  | Premium     | PPFKZU3U |
| 2BLT4 60L ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 6016.0 | 126.4 | 47.6  | Premium     | PSJ6QERM |
| 2BLT4 60L ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 5935.8 | 124.7 | 47.6  | Premium     | PHT84BW4 |
| 2BLT4 60L ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 6112.0 | 128.4 | 47.6  | Premium     | PVXQXPUV |
| 2BLT4 60L ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 6030.6 | 126.7 | 47.6  | Premium     | PXV55BC8 |

DLC information is subject to change, for the most up-to-date information please refer to [www.dlc.org](http://www.dlc.org). Above listings do not cover 347v or SLD.

| HE Performance Data                                  |        |       |       |             |          |
|------------------------------------------------------|--------|-------|-------|-------------|----------|
| Material                                             | Lumens | LPW   | Watts | DLC Listing | DLC ID   |
| 2BLT4 30LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 3107.0 | 135.2 | 23.0  | Premium     | P7KEICW5 |
| 2BLT4 30LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 3065.6 | 133.4 | 23.0  | Premium     | P7PZAJDZ |
| 2BLT4 30LHE ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 3156.6 | 137.3 | 23.0  | Premium     | PDOM06BH |
| 2BLT4 30LHE ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 3114.5 | 135.5 | 23.0  | Premium     | P2N23EBP |
| 2BLT4 40LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4085.0 | 138.6 | 29.5  | Premium     | P67P6S5Y |
| 2BLT4 40LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4030.5 | 136.7 | 29.5  | Premium     | PC15DQEC |
| 2BLT4 40LHE ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 4150.0 | 140.8 | 29.5  | Premium     | P95UQD66 |
| 2BLT4 40LHE ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 4094.9 | 138.9 | 29.5  | Premium     | PGRCSJ2T |
| 2BLT4 48LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4770.0 | 138.2 | 34.5  | Premium     | PXBJBGN8 |
| 2BLT4 48LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4706.4 | 136.3 | 34.5  | Premium     | P2NK2H33 |
| 2BLT4 48LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 4770.0 | 138.2 | 34.5  | Premium     | PXBJBGN8 |
| 2BLT4 48LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 4706.4 | 136.3 | 34.5  | Premium     | P2NK2H33 |
| 2BLT4 60LHE ADP E21 (GZ1, GZ10) LP835 (ALL OPTIONS)  | 5894.0 | 135.1 | 43.6  | Premium     | PQZN176R |
| 2BLT4 60LHE ADPT E21 (GZ1, GZ10) LP835 (ALL OPTIONS) | 5815.4 | 133.3 | 43.6  | Premium     | PZ72TAWM |
| 2BLT4 60LHE ADP E21 (GZ1, GZ10) LP840 (ALL OPTIONS)  | 5988.1 | 137.3 | 43.6  | Premium     | PG5CYJUC |
| 2BLT4 60LHE ADPT E21 (GZ1, GZ10) LP840 (ALL OPTIONS) | 5908.3 | 135.5 | 43.6  | Premium     | PRC4W72B |

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