

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. Injection molded diffuser light traps add a finished look to the diffuser ends and help seal the diffuser to the housing end plates. Optional diffuser trim rings provide an attractive mounting for integral sensors as well as adding a decorative element to the luminaire aesthetics.

LED boards are accessible from below; driver is 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. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

Non-Configurable BLT: 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. Simply connect all the nLight enabled control devices and the BLT luminaires using standard Cat-5 cabling. Unique pluq-and-play convenience as devices and luminaires automatically discover each other and self-commission.

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.

 $\label{lem:connect} \mbox{ Driver disconnect provided where required to comply with US and Canadian codes.}$

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 2 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 2 for the nLight sensor options.

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.

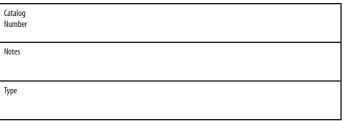
LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at 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

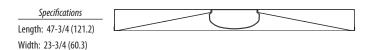
NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 $^{\circ}$ C. Specifications subject to change without notice.



BLT Series LED

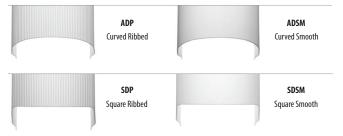




All dimensions are inches (centimeters) unless otherwise specified

Mulitple Diffuser Options

Depth: 2-3/8 (6.0)



LED 2BLT-2X4

ORDERING INFORMATION

| 2BLT4 Series | Air function | Lumens ¹ | | Diffuser | | Voltage | | Drive | r | Color te | mperature |
|---------------|----------------|---|--|--|---|----------------|---------------------------|-------|--|--|--|
| 2BLT4 2x4 BLT | (blank) Static | Standard efficiency (>100 LPW) 30L 3000 40L 4000 48L 4800 60L 6000 72L 7200 | High efficiency (>130 LPW) 48LHE 4800 60LHE 6000 72LHE 7200 85LHE 8500 | ADP ADSM SDP SDSM Diffuser ADPT ADSMT SDPT SDSMT | Curved, Linear Prisms Curved, Smooth Square, Linear Prisms Square, Smooth s w/ trim rings Curved, Linear Prisms Curved, Smooth Square, Linear Prisms Square, Smooth | (blank) 347 | MVOLT 347 ² | EZ1 | eldoLED dims to 1% (0-10 volt dimming) Step-level dimming ³ | LP830 LP835 LP840 LP850 LP930 LP935 LP940 LP950 | 82CRI, 3000 K 82CRI, 3500 K 82CRI, 4000 K 82CRI, 5000 K 90CRI, 3000K 90CRI, 3500K 90CRI, 4000K 90CRI, 5000K |

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

| Controls | Occupancy Control ⁵ | | Options | |
|--|--|--|---|--|
| (blank) No nLight® N80 nLight® with 80% lumen management N80EMG nLight® with 80% lumen management For use with generator supply EM power⁴ N100 nLight® without lumen management N100EMG nLight® without lumen management For use with generator supply EM power⁴ | (blank) No sensor control nLight Wired Networking NES7 nLight™ nES 7 PIR integral occupancy sensor⁵ NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control⁵ NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell⁵ NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell⁵ | MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell ^{3,7} MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell ^{3,7} | EL7L EL14L CP BGTD PWS1836 PWS1846 PWS1846 PWSLV PWS1856LV GLR GMF NPLT RRL_ LATC DWAM | 700 lumen battery pack ⁸ 1400 lumen battery pack ⁸ Chicago plenum Bodine Generator Transfer Device 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires Fast-blowing fuse ⁹ Slow-blowing fuse ⁹ Narrow pallet RELOC®-ready luminaire ¹⁰ Earthquake clip Anti-Microbial paint |

| Accessories: Order as separate catalog | g numt | er. |
|--|--------|-----|
|--|--------|-----|

DGA24 Drywall grid adapter for 2x4 recessed fixture

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] | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 / nCM PDT 9 |
| On/Off & Raise/Lower | nPODM DX [color] | Large motion 360°, ceiling (PIR / dual tech) | nCM 10 / nCM PDT 10 |
| Graphic Touchscreen | nPOD GFX | Wall switch with raise/lower | nWSXPDTLVDX |
| Photocell controls | Model number | Cat-5 cable bundles (plenum rated) | Model number |
| On/Off & Dimming | nCM ADCX | 10', 15 pieces per bundle | CAT5 10FT |
| | | 30', 15 pieces per bundle | CAT5 30FT |
| | | | |

| Non-Configu | Non-Configurable BLT Configurations | | | | | | | |
|-------------------------------------|-------------------------------------|----------------|---------|-------|-------------------|--------------|------------|----|
| Stock/MTO Catalog Description * UPC | | Lumens | Wattage | LPW | Color Temperature | Voltage | Pallet Qty | |
| Stock | 2BLT4 40L ADP LP835 | 00889804471953 | 3945 | 34 | 116 | 3500K/82 CRI | 120-277 | 26 |
| | 2BLT4 40L ADP LP840 | 00889804488265 | 4032 | 34 | 118 | 4000K/82CRI | 120-277 | 26 |
| | 2BLT4 46L ADP LP835 | 00889804541403 | 4520 | 38.34 | 118 | 3500K/82 CRI | 120-277 | 26 |
| | 2BLT4 46L ADP LP840 | 00889804541533 | 4620 | 38.34 | 120 | 4000K/82CRI | 120-277 | 26 |
| MTO | 2BLT4 40L ADP 347 LP835 | 00889804569452 | 3945 | 34 | 116 | 3500K/82 CRI | 347 | 26 |
| | 2BLT4 40L ADP 347 LP840 | 00889804569469 | 4032 | 34 | 118 | 4000K/82CRI | 347 | 26 |
| | 2BLT4 46L ADP 347 LP835 | 00889804569476 | 4520 | 38.34 | 118 | 3500K/82 CRI | 347 | 26 |
| | 2BLT4 46L ADP 347 LP840 | 00889804569490 | 4620 | 38.34 | 120 | 4000K/82CRI | 347 | 26 |

^{*0-10}V Dimming to 10%.

Notes

- Approximate lumen output.
- Not available with SLD,EL7L or EL14L battery packs.

Example: 2BTL4 40L ADP SLD LP840

- Not available with N80, N80EMG, N100, N100EMG or occupancy control.
- nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture
- $\label{eq:must_specify} \mbox{Must specify diffuser with trims rings. See sensor options}$ on page 3.
- 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
- Must specify voltage, 120 or 277.
- 10 For ordering logic consult: RRL 2013.

LITHONIA LIGHTING®

2BLT-2X4

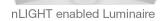
2BLT Volumetric Recessed Lighting 2'x4'

| Sensor Options | | | | | | | |
|----------------|-------------------|----------|--------------|------------|--|--|--|
| Option | Automatic | Occupano | nLight Wired | | | | |
| Орсіон | Dimming Photocell | PIR | PDT | Networking | | | |
| MSD7ADCX | Х | Χ | | | | | |
| MSDPDT7ADCX | Х | | Х | | | | |
| NES7 | | Χ | | Х | | | |
| NES7ADCX | Х | Χ | | Х | | | |
| NESPDT7 | | | Х | Х | | | |
| NESPDT7ADCX | Х | | Х | Х | | | |





CAT5e



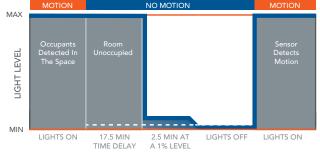
nLIGHT WallPod (nPODM DX)

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

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



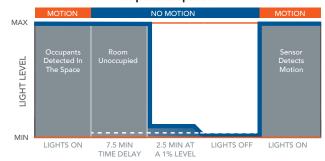
^{*}The presetting on the automatic dimming photocell is 5fc.

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.

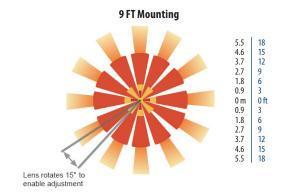
Sequence of Operation



^{*}The presetting on the automatic dimming photocell is 5fc.

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



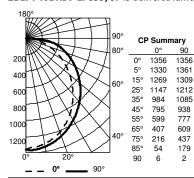


2BLT-2X4

www.lithonia.com

PHOTOMETRICS

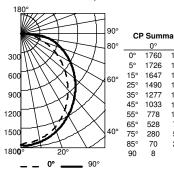
2BLT4 40L ADP LP835, 3945 delivered lumens, test no. LTL28918P37, tested in accordance to IESNA LM-79



Coefficients of Utilization 20% 80% 70% рс pw 70%50%30% 50%30%10% 50%30%10% 111 111 111 96 92 89 119 119 119 116 116 116 108 103 98 100 96 92 98 89 82 87 80 83 78 81 69 60 67 59 52 60 52 45 54 46 39 75 61 52 69 55 46 58 50 52 45 44 39 49 41 35 48 40 59 46 37 45 37 56 42 34 41 33 28 40 33 28 10 52 39 31 38 30 25 37

| Zonal Lumen Summary | | | | | | | | |
|---------------------|--------|--------|-----------|--|--|--|--|--|
| Zone | Lumens | % Lamp | % Fixture | | | | | |
| 0° - 30° | 1037 | 26.3 | 26.3 | | | | | |
| 0° - 40° | 1686 | 42.7 | 42.7 | | | | | |
| 0° - 60° | 2970 | 75.3 | 75.3 | | | | | |
| 0° - 90° | 3947 | 100.0 | 100.0 | | | | | |
| 90° - 180° | 0 | 0.0 | 0.0 | | | | | |
| 0° - 180° | 3947 | 100.0 | 100.0 | | | | | |
| | | | | | | | | |

2BLT4 48L ADP L835, 5121 delivered lumens, test no. LTL28918P41, tested in accordance to IESNA LM-79

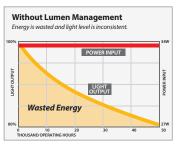


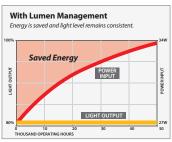
| | | | C | effici. | ents c | £ 1 14 | :::==+ | ian | | |
|------|----------------|-----|-----|---------|--------|--------|--------|-----|-----|-----|
| | pf | | COE | HICK | | 0% | ııızaı | ion | | |
| ary | pc | | 80% | | | 70% | , | | 50% | , |
| 90 | pw | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% |
| 1760 | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1767 | 1 | 108 | 103 | 98 | 100 | 96 | 92 | 96 | 92 | 89 |
| 1699 | 2 | 98 | 89 | 82 | 87 | 80 | 75 | 83 | 78 | 73 |
| 1574 | 3 | 89 | 78 | 69 | 76 | 68 | 62 | 73 | 66 | 61 |
| 1409 | <u>æ</u> 4 | 81 | 69 | 60 | 67 | 59 | 52 | 65 | 57 | 52 |
| 1217 | 25 | 75 | 61 | 52 | 60 | 52 | 45 | 58 | 50 | 44 |
| 1008 | щ ₆ | 69 | 55 | 46 | 54 | 46 | 39 | 52 | 45 | 39 |
| 791 | 7 | 64 | 50 | 41 | 49 | 41 | 35 | 48 | 40 | 34 |
| 567 | 8 | 59 | 46 | 37 | 45 | 37 | 31 | 44 | 36 | 31 |
| 232 | 9 | 56 | 42 | 34 | 41 | 33 | 28 | 40 | 33 | 28 |
| 3 | 10 | 52 | 39 | 31 | 38 | 30 | 25 | 37 | 30 | 25 |
| | | | | | | | | | | |

| Zonal Lumen Summary | | | | | | | |
|---------------------|--------|--------|-----------|--|--|--|--|
| Zone | Lumens | % Lamp | % Fixture | | | | |
| 0° - 30° | 1346 | 26.3 | 26.3 | | | | |
| 0° - 40° | 2188 | 42.7 | 42.7 | | | | |
| 0° - 60° | 3856 | 75.3 | 75.3 | | | | |
| 0° - 90° | 5123 | 100.0 | 100.0 | | | | |
| 90° - 180° | 0 | 0.0 | 0.0 | | | | |
| 0° - 180° | 5123 | 100.0 | 100.0 | | | | |
| | | | | | | | |

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.

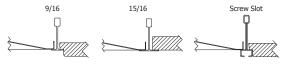




| Performance Data | | | | | | | |
|------------------|--------|-------------|-----|--|--|--|--|
| Lumen Package | Lumens | Input Watts | LPW | | | | |
| 30L ADP LP830 | 3286 | 30 | 110 | | | | |
| 30L ADP LP835 | 3371 | 30 | 113 | | | | |
| 30L ADP LP840 | 3445 | 30 | 115 | | | | |
| 30L ADP LP850 | 3614 | 30 | 121 | | | | |
| 40L ADP LP830 | 3846 | 34 | 113 | | | | |
| 40L ADP LP835 | 3945 | 34 | 116 | | | | |
| 40L ADP LP840 | 4032 | 34 | 118 | | | | |
| 40L ADP LP850 | 4230 | 34 | 124 | | | | |
| 48L ADP LP830 | 4993 | 45 | 111 | | | | |
| 48L ADP LP835 | 5121 | 45 | 114 | | | | |
| 48L ADP LP840 | 5234 | 45 | 116 | | | | |
| 48L ADP LP850 | 5492 | 45 | 122 | | | | |
| 60L ADP LP830 | 6014 | 53 | 114 | | | | |
| 60L ADP LP835 | 6169 | 53 | 117 | | | | |
| 60L ADP LP840 | 6305 | 53 | 119 | | | | |
| 60L ADP LP850 | 6615 | 53 | 125 | | | | |
| 72L ADP LP830 | 7388 | 67 | 110 | | | | |
| 72L ADP LP835 | 7579 | 67 | 113 | | | | |
| 72L ADP LP840 | 7746 | 67 | 115 | | | | |
| 72L ADP LP850 | 8127 | 67 | 121 | | | | |

| | | | HE Performance Data | | | | | |
|--|-----|-----------------|---------------------|-------------|---|--|--|--|
| | LPW | Lumen Package | Lumens | Input Watts | Γ | | | |
| | 110 | 48LHE ADP LP830 | 4655 | 36 | Γ | | | |
| | 113 | 48LHE ADP LP835 | 4775 | 36 | | | | |
| | 115 | 48LHE ADP LP840 | 4880 | 36 | Γ | | | |
| | 121 | 48LHE ADP LP850 | 5121 | 36 | Γ | | | |
| | 113 | 60LHE ADP LP830 | 5473 | 42 | Γ | | | |
| | 116 | 60LHE ADP LP835 | 5614 | 42 | Γ | | | |
| | 118 | 60LHE ADP LP840 | 5738 | 42 | Γ | | | |
| | 124 | 60LHE ADP LP850 | 6020 | 42 | Γ | | | |
| | 111 | 72LHE ADP LP830 | 6805 | 52 | Γ | | | |
| | 114 | 72LHE ADP LP835 | 6981 | 52 | Γ | | | |
| | 116 | 72LHE ADP LP840 | 7135 | 52 | Γ | | | |
| | 122 | 72LHE ADP LP850 | 7486 | 52 | | | | |
| | 114 | 85LHE ADP LP830 | 8189 | 64 | Γ | | | |
| | 117 | 85LHE ADP LP835 | 8400 | 64 | Γ | | | |
| | 119 | 85LHE ADP LP840 | 8585. | 64 | | | | |
| | 125 | 85LHE ADP LP850 | 9008 | 64 | Γ | | | |
| | 110 | • | | · | | | | |
| | 113 | | | | | | | |
| | 115 | | | | | | | |

| 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-2X4

LPW

127

130

133 139

129 132

136 143

127. 131

134

140

LED: