

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 (2-9/16") also makes it an excellent choice for renovation projects.

BLT Tunable White is perfect in classrooms and educational settings as it allows the light color temperature to be adjusted to the optimal light level for student tasks such as reading or test taking.

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. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

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

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 plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

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

Mainstream Dynamic Tunable White with nTune Technology: 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.

Integrated Sensor (nLight Wired Networking): Tunable white nTune™ is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K-5000K. Refer to the Programming User's Guide for instructions on customizing to your application with SensorView™.

INSTALLATION — The BLT's low profile design of only 2-9/16" 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.

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 °C.

Specifications subject to change without notice.

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

BLT Series LED

2BLT Tunable White

2' x 4'
LED



Specifications

Length: 47-3/4 (121.2)

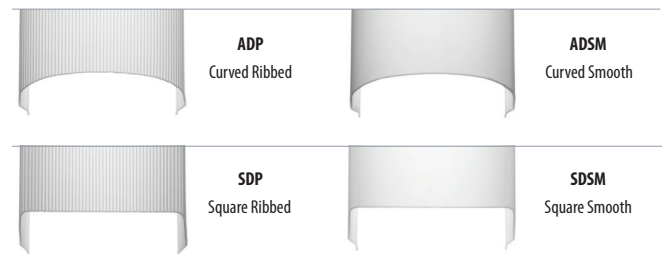
Width: 23-3/4 (60.3)

Depth: 2-9/16 (6.5)



All dimensions are inches (centimeters) unless otherwise specified.

Multiple Diffuser Options



2BLT Tunable White Volumetric Recessed Lighting 2'x4'

ORDERING INFORMATION

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

Example: 2BLT4 TUWH PROR 40L ADP NLT

| Series | Dynamic feature | Dynamic range | Lumens ¹ | Diffuser | Voltage |
|---------------|--------------------|--------------------------------------|--|--|---|
| 2BLT4 2x4 BLT | TUWH Tunable white | PROR Productivity range (3000-5000K) | 30L 3000 40L 4000 48L 4800 60L 6000 | ADP Curved, linear prisms ADSM Curved, smooth SDP Square, linear prisms SDSM Square, smooth Diffusers w/ trim rings ADPT Curved, linear prisms ADSMT Curved, smooth SDPT Square, linear prisms SDSMT Square, smooth | (blank) MVOLT 120 120 277 277 347 347 ² |

| Control interface type | Occupancy control ⁴ | Options |
|---|---|---|
| NLT nLight nTune interface ³ | (blank) No sensor control nLight Wired Networking NES7 nLight™ nES 7 PIR integral occupancy sensor NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell | EL7L 700 lumen battery pack ⁵ EL14L 1400 lumen battery pack ⁵ BGTD Bodine Generator Transfer Device ⁶ PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit GLR Fast-blowing fuse ⁷ GMF Slow-blowing fuse ⁷ NPLT Narrow pallet RRL_ RELOC®-ready luminaire ⁸ LATC Earthquake clip DWAM Anti-Microbial paint |

| Accessories: Order as separate catalog number. | |
|--|---|
| DGA24 | Drywall grid adapter for 2x4 recessed fixture |

| nLight® Control Accessories: Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight . | | | |
|--|---------------------|--|----------------------------|
| WallPod stations | Model number | Occupancy sensors | Model number |
| On/Off | nPODM | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 RJB / nCM PDT 9 RJB |
| On/Off & raise/lower | nPODM DX | Large motion 360°, ceiling (PIR / dual tech) | nCM10 RJB / nCM PDT 10 RJB |
| | | 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 |
| Power Supply | | | |
| nLight Power Supply | nPS 80 | | |

| Replacement Parts: Order as separate catalog number. | | |
|--|-----------------------------------|---|
| *237LKE | DBLT48 ADP LENS ASSEMBLY | 4 ft. replacement lens (light traps included) |
| *237LKL | DBLT48 SDP LENS ASSEMBLY | 4 ft. replacement lens (light traps included) |
| *237LL2 | DBLT48 ADSM LENS ASSEMBLY | 4 ft. replacement lens (light traps included) |
| *237LLA | DBLT48 SDSM LENS ASSEMBLY | 4 ft. replacement lens (light traps included) |
| *237LT2 | DBLT48 ADPT LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237LT4 | DBLT48 SDPT LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237LT6 | DBLT48 ADSMT LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237LT8 | DBLT48 SDSMT LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237LTA | DBLT48 ADPT SENSOR LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237M52 | DBLT48 SDPT SENSOR LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237M5A | DBLT48 ADSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens (trims included) |
| *237M5L | DBLT48 SDSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens (trims included) |

Notes

- 1 Approximate lumen output.
- 2 Not available with EL7L or EL14L battery packs.
- 3 Requires power from nLight network bridge or nPS 80.
- 4 Must specify diffuser with trims rings. See sensor options in ordering information.
- 5 When using pre-wire option, use PWS1846.
- 6 Requires BSE labeling. Consult factory for options.
- 7 Must specify voltage, 120 or 277 with GLR & GMF fusing.
- 8 For ordering logic consult: RRL_2013.



2BLT Tunable White Volumetric Recessed Lighting 2'x4'

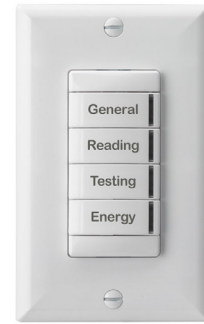
Tunable White Wall Pods



nPODM 2P DX CCT

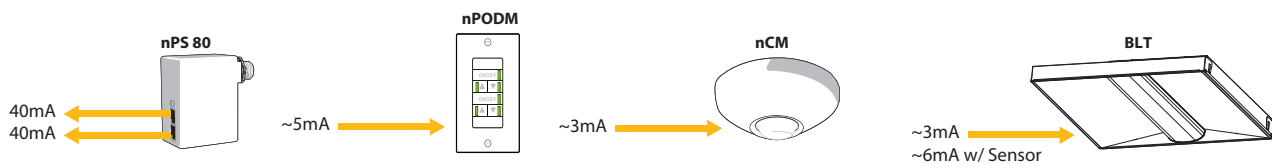
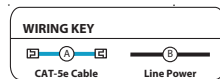
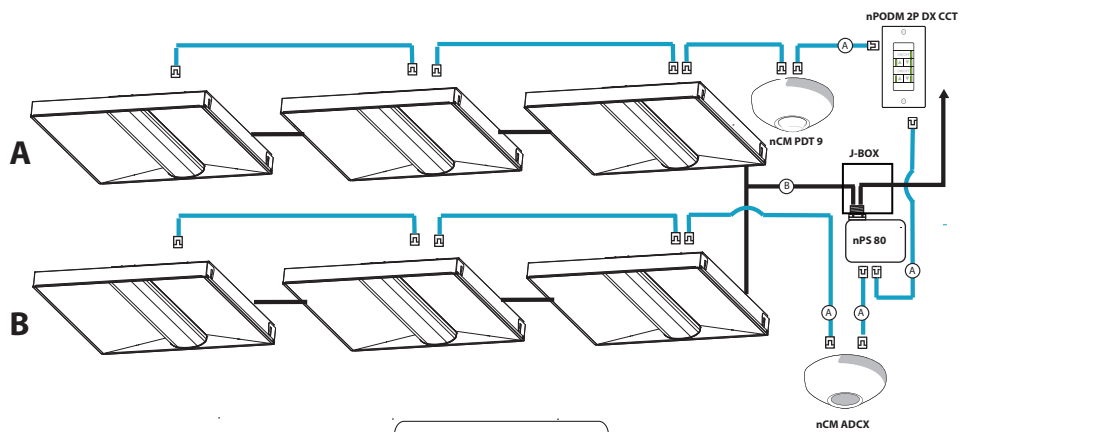


nPODM 4S DX EDUTW



nPODM 4S EDUTW

Typical nLight network layout with power supply, sensor and wallpod.



2BLT Tunable White Volumetric Recessed Lighting 2'x4'

| Sensor Options | | | | |
|----------------|-----------------------------|-------------------|-----|-------------------------|
| Option | Automatic Dimming Photocell | Occupancy Sensing | | nLight Wired Networking |
| | | PIR | PDT | |
| NES7 | | X | | X |
| NES7ADCX | X | X | | X |
| NESPD7 | | | X | X |
| NESPD7ADCX | X | | X | X |

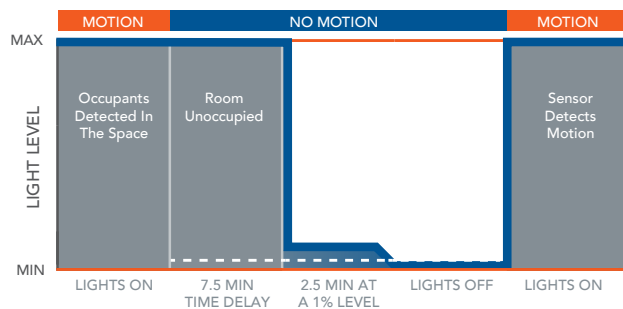
* Requires network to be present for sensors to operate

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 NESPD7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

Sequence of Operation

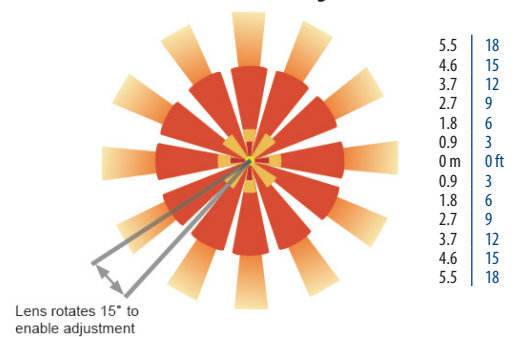


*The presetting on the automatic dimming photocell is 5fc.

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

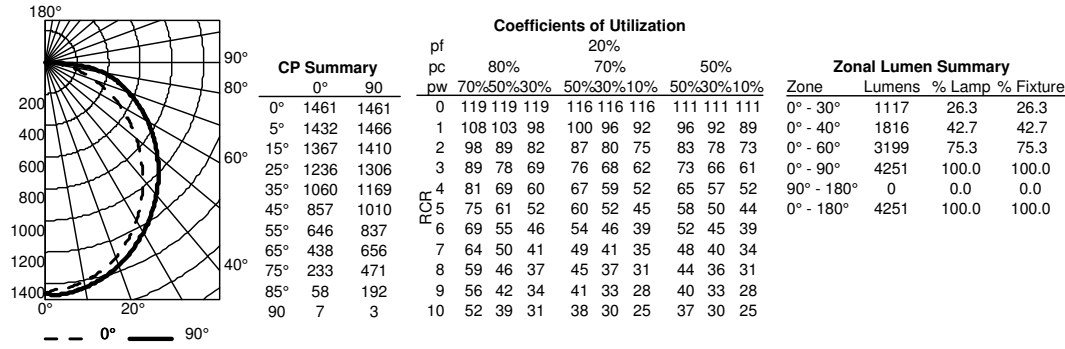
9 FT Mounting



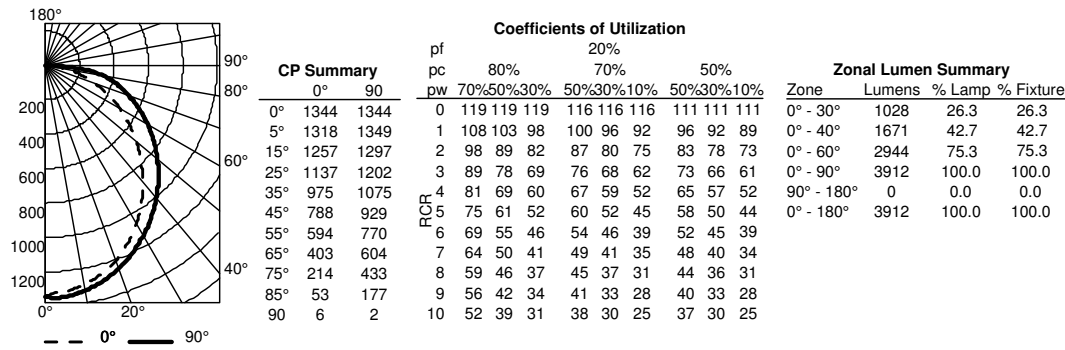
2BLT Tunable White Volumetric Recessed Lighting 2'x4'

PHOTOMETRICS

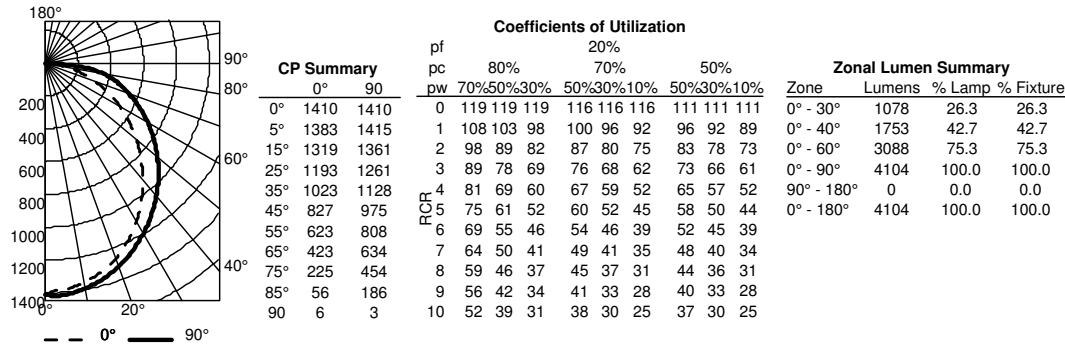
2BLT4 TUWH PROR 40L ADP LP830, 4250 delivered lumens, test no. LTL28918P231, tested in accordance to IESNA LM-79



2BLT4 TUWH PROR 40L ADP LP840, 3910 delivered lumens, test no. LTL28918P235, tested in accordance to IESNA LM-79

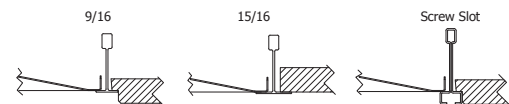


2BLT4 TUWH PROR 40L ADP LP850, 4102 delivered lumens, test no. LTL28918P239, tested in accordance to IESNA LM-79



| Performance Data | | | |
|------------------|--------|-------------|-----|
| Lumen Package | Lumens | Input Watts | LPW |
| 30L ADP LP830 | 3286 | 30 | 110 |
| 30L ADP LP840 | 3026 | 30 | 101 |
| 30L ADP LP850 | 3172 | 30 | 106 |
| 40L ADP LP830 | 4250 | 39 | 108 |
| 40L ADP LP840 | 3910 | 39 | 100 |
| 40L ADP LP850 | 4102 | 39 | 105 |
| 48L ADP LP830 | 4993 | 45 | 111 |
| 48L ADP LP840 | 4594 | 45 | 102 |
| 48L ADP LP850 | 4819 | 45 | 107 |
| 60L ADP LP830 | 6014 | 53 | 114 |
| 60L ADP LP840 | 5534 | 53 | 105 |
| 60L ADP LP850 | 5805 | 53 | 110 |

| 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").