

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).

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 or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission, while nLight AIR is commissioned easily through an intutitive 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 both a digital PIR occupancy sensor/automatic dimming photocell. It pairs to other luminairs and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated

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.

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.

WARRANTY — 5-year limited warranty.

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.

BLT Series LED



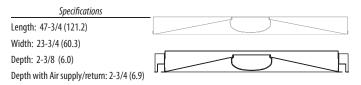






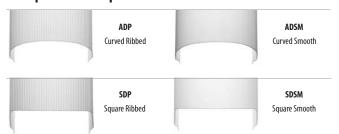






All dimensions are inches (centimeters) unless otherwise specified

Multiple Diffuser Options

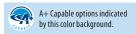


** Capable Luminaire

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*

LED 2BLT-2X4



ORDERING INFORMATION

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

2BLT4 Series	Air function	Lumens ²	Diffuser	Voltage	Driver	Color temperature
2BLT4 2x4 BLT	(blank) Static A Air supply/ return ¹	Standard efficiency (>100 LPW) High efficiency ^{3,4} (>130 LPW) 30L 3000 40LHE 4000 40L 4000 48LHE 4800 48L 4800 60LHE 6000 60L 6000 72LHE 7200 72L 7200 85LHE 8500	ADP Curved, linear prisms ADSM Curved, smooth SDP Square, linear prisms SDSM Square, smooth Includes trim rings to match sensored version ADPT Curved, linear prisms ADSMT Curved, smooth SDPT Square, linear prisms SDSMT Square, smooth	(blank) MVOLT 120 120V 277 277V 347 347V ⁵	EZ1 eldoLED dims to 1% (0-10 volt dimming) SLD Step-level dimming ⁶ LE1 Lutron Ecosystem driver dims to 1% ^{6,7}	LP830 82CRI, 3000 K LP835 82CRI, 3500 K LP840 82CRI, 4000 K LP850 82CRI, 5000 K LP930 90CRI, 3000K LP935 90CRI, 3500K LP940 90CRI, 4000K LP950 90CRI, 5000K

Controls	Occupancy contr	rol ¹⁰			Options	
(blank) No nLight® N80 nLight® with 80% lumen management N80EMG nLight® with 80% lumen management For use with generator supply EM power® N100 nLight® without lumen management N100EMG nLight® without lumen management For use with generator supply EM power® NLTAIR nLight AIR enabled®	(blank) NEST NESPDT7 NESPDT7 NESPDT7ADCX NESPDT7ADCX NESPDT7ADCX NESPDT7ADCX NESPDT7ADCX n t t s d nLight Wireless RESTN n a	No sensor control letworking nLight™ nES 7 PIR integral occupancy sensor¹¹ nLight™ nES PDT 7 dual technology integral occupancy control¹¹ nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell¹¹ nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell¹¹	Individual Co MSD7ADCX MSDPDT7ADCX nLight Wirele RES7Z	PIR integral occupancy sensor with automatic dimming control photocell ^{6,12} PDT integral occupancy sensor with automatic dimming control photocell ^{6,12}	EL7L EL14L EL14LSD CP BGTD PWS1836 PWS1846 PWS1846 PWSLV PWS1856LV GLR GMF NPLT RRL_ LATC DWAM JP16 IP5X	700 lumen battery pack 13 1400 lumen battery pack 13 1400 lumen battery pack with self-diagnostic testing feature 13,14 Chicago plenum 15 Bodine Generator Transfer Device 16 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, purple and gray 17 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires 17 Fast-blowing fuse 18 Slow-blowing fuse 18 Narrow pallet RELOC®-ready luminaire 19 Earthquake clip Anti-Microbial paint Job packaging Gasketed diffuser compartment to meet IP5X rating 20

Accessories next page

Example: 2BLT4 40L ADP EZ1 LP840

Notes

- 1 Air supply/return option only available with ADPT, ADSMT, SDPT, and SDSMT diffuser options.
- Approximate lumen output.
- 3 All versions may not achieve 130+ LPW.
- 4 Air supply/return option, 90 CRI, and versions with integral sensor trim rings may not achieve 130 LPW.
- 5 Not available with SLD EL7L, or EL14L options.
- 6 Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.
- 7 Not available with controls, occupancy controls, or PWS options. Consult factory for Hi-Lume dimming.
- 8 nLight EMG option requires a connection to existing nLight network.
 Power is provided from a separate N80 or N100 enabled fixture.
- 9 Must order with RES7N or RES7Z sensor. Only available with EZ1 driver. Not available with 72L, 72LHE, or 85LHE options.
- 10 Must specify diffuser with trim rings. See sensor options on page 4.
- 11 Requires N80, N80EMG, N100, or N100EMG.
- 12 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
- 13 When using pre-wire option, use PWS1846 or PWS1846 PWSLV.

- 14 Not available with N80, N80EMG, N100, or N100EMG.
- 15 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- 16 Not available with nLight wired/wireless network or individual controls.
- 17 Must specify voltage, 120 or 277, with GLR and GFM fusing.
- 18 Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.



2BLT-2X4

Non-Configu	Non-Configurable BLT							
Stock/MT0	Catalog Description *	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	2BLT4 40L ADP LP835	00190887470789	3945	34	116	3500K/82 CRI	120-277	26
	2BLT4 40L ADP LP840	00190887470765	4032	34	118	4000K/82CRI	120-277	26
	2BLT4 46L ADP LP835	00190887468656	4520	38.34	118	3500K/82 CRI	120-277	26
	2BLT4 46L ADP LP840	00190887468649	4620	38.34	120	4000K/82CRI	120-277	26
	2BLT4 40L ADP EL14L LP835	00190887470925	3945	34	116	3500K/82 CRI	120-277	26
	2BLT4 40L ADP EL14L LP840	00190887470918	4032	34	118	4000K/82 CRI	120-277	26
	2BLT4 46L ADP EL14L LP835	00190887468670	4520	38.34	118	3500K/82 CRI	120-277	26
	2BLT4 46L ADP EL14L LP840	00190887468663	4620	38.34	120	4000K/82 CRI	120-277	26
MT0	2BLT4 40L ADP 347 LP835		3945	34	116	3500K/82 CRI	347	26
	2BLT4 40L ADP 347 LP840		4032	34	118	4000K/82CRI	347	26
	2BLT4 46L ADP 347 LP835		4520	38.34	118	3500K/82 CRI	347	26
	2BLT4 46L ADP 347 LP840		4620	38.34	120	4000K/82CRI	347	26

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

Accessorie	es: Order as separate catalog number.
DGA24	Drywall grid adapter for 2x4 recessed fixture

nLight® Wired 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 [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	CATS 10FT J1				
		30' cable	CATS 30FT J1				

nLight® AIR Control Accessories: Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.						
Wall switches	Model number					
On/Off single pole	rPODB [color]					
On/Off two pole	rPODB 2P [color]					
On/Off & raise/lower single pole	rPODB DX [color]					
On/Off & raise/lower two pole	rPODB 2P DX [color]					
On/Off & raise/lower single pole	rPODBZ DX WH ¹					

Notes

1 Can only be ordered with the RES7Z zone control sensor version.

Replacemen	nt 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 SDSM 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



LED:

2BLT-2X4

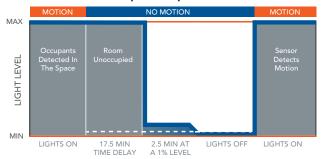
	Sensor Options						
0	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired	nLight AIR	nLight	
Option		PIR	PDT	Networking	Networking	AIR Zone	
MSD7ADCX	Х	Х					
MSDPDT7ADCX	Х		Х				
NES7		Χ		Χ			
NES7ADCX	Х	Χ		Х			
NESPDT7			Х	Х			
NESPDT7ADCX	Х		Χ	Χ			
RES7N	Х	Х			Х		
RES7Z	Х	Х				Χ	

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

Basic nLight Zone

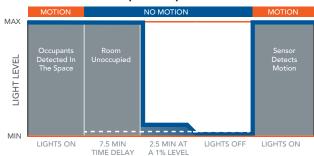


nLight Wired Networking

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 NESTADCX 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.

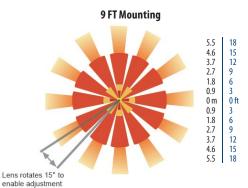
Sequence of Operation



^{*}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 costly. The integrated rES 7 smart sensor is 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.









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





nLight AIR rPODB 2P DX

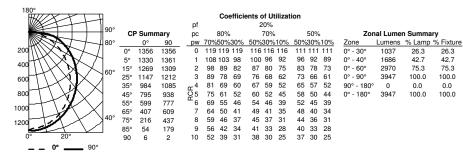
2BLT-2X4



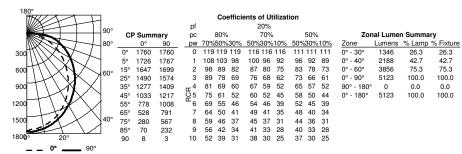
LED: © 2016 Acuity Brands Lighting, Inc. All rights reserved. Rev. 01/19/17

PHOTOMETRICS

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

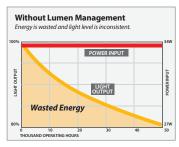


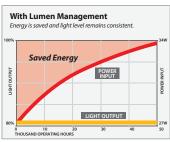
2BLT4 48L ADP LP835, 5121 delivered lumens, test no. LTL28918P41, tested in accordance to IESNA LM-79



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.



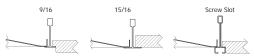


LED:

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			
AIR 30L ADP LP830	3075	30	103			
AIR 30L ADP LP835	3138	30	105			
AIR 30L ADP LP840	3223	30	108			
AIR 30L ADP LP850	3250	30	108			
AIR 40L ADP LP830	3599	34	105			
AIR 40L ADP LP835	3673	34	108			
AIR 40L ADP LP840	3772	34	110			
AIR 40L ADP LP850	3804	34	111			
AIR 48L ADP LP830	4672	45	104			
AIR 48L ADP LP835	4897	45	109			
AIR 48L ADP LP840	4897	45	109			
AIR 48L ADP LP850	4939	45	110			
AIR 60L ADP LP830	5628	53	106			
AIR 60L ADP LP835	5743	53	108			
AIR 60L ADP LP840	5899	53	111			
AIR 60L ADP LP850	5949	53	112			
AIR 72L ADP LP830	6914	67	103			
AIR 72L ADP LP835	7055	67	105			
AIR 72L ADP LP840	7247	67	108			
AIR 72L ADP LP850	7309	67	109			

HE Performance Data							
Lumen Package	Lumens	Input Watts	LPW				
48LHE ADP LP830	4655	36	127				
48LHE ADP LP835	4775	36	130				
48LHE ADP LP840	4880	36	133				
48LHE ADP LP850	5121	36	139				
60LHE ADP LP830	5473	42	129				
60LHE ADP LP835	5614	42	132				
60LHE ADP LP840	5738	42	135				
60LHE ADP LP850	6020	42	142				
72LHE ADP LP830	6805	52	130				
72LHE ADP LP835	6981	52	133				
72LHE ADP LP840	7135	52	136				
72LHE ADP LP850	7486	52	143				
85LHE ADP LP830	8189	64	127.				
85LHE ADP LP835	8400	64	131				
85LHE ADP LP840	8585	64	134				
85LHE ADP LP850	9008	64	140				

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").

