

## 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 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).

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 plug-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.

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 provides increased installation flexibility especially in restrictive plenum applications.

Suitable for damp location.

**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](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



# BLT

300x1200  
LED



eldoLED



### Specifications

Length: 1193.80 (47)

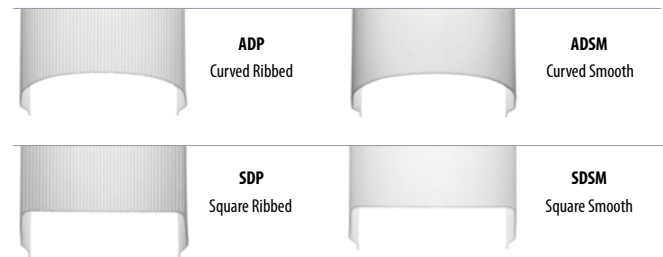
Width: 293.62 (11.56)

Depth: 69.85 (2.75)



All dimensions are millimeters (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\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# BLT Volumetric Recessed Lighting 300x1200

 A+ Capable options indicated by this color background.

## ORDERING INFORMATION

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

**Example:** BLT4 MG 30L ADP EZ1 LP835

BLT4		Trim Type		Lumens <sup>1</sup>		Diffuser		Voltage		Driver		Color temperature	
BLT4	BLT series 300x1200	MG	Metric grid	<b>Standard efficiency (&gt;100 LPW)</b>	<b>High efficiency<sup>2,3</sup> (&gt;130 LPW)</b>	ADP	Curved, linear prisms	(blank)	MVOLT	EZ1	eldoLED dims to 1% (0-10 volt dimming)	LP830	82CRI, 3000 K
				20L 2000	30LHE 3000	ADSM	Curved, smooth	120	120				LP835
				30L 3000	40LHE 4000	SDP	Square, linear prisms	277	277	SLD	Step-level dimming <sup>2</sup>	LP840	82CRI, 4000 K
				40L 4000	48LHE 4800	SDSM	Square, smooth	347	347 <sup>4</sup>				LP850
				48L 4800	60LHE 6000	<b>Includes trim rings to match sensored version</b>						LP930	90CRI, 3000K
				60L 6000		ADPT	Curved, linear prisms					LP935	90CRI, 3500K
						ADSMT	Curved, smooth					LP940	90CRI, 4000K
						SDPT	Square, linear prisms					LP950	90CRI, 5000K
						SDSMT	Square, smooth						

Controls		Occupancy control <sup>7</sup>		Options	
(blank)	No nLight <sup>®</sup>	(blank)	No sensor control	<b>Individual Control</b>	EL7L 700 lumen battery pack <sup>10</sup>
N80	nLight <sup>®</sup> with 80% lumen management	<b>nLight Wired Networking</b>		MSD7ADCX	EL14L 1400 lumen battery pack <sup>10</sup>
N80EMG	nLight <sup>®</sup> with 80% lumen management For use with generator supply EM power <sup>5</sup>	NES7	nLight™ nES 7 PIR integral occupancy sensor <sup>8</sup>		BGTD Bodine Generator Transfer Device <sup>11</sup>
N100	nLight <sup>®</sup> without lumen management	NESPDT7	nLight™ nES PDT 7 dual technology integral occupancy control <sup>8</sup>	MSDPDT7ADCX	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
N100EMG	nLight <sup>®</sup> without lumen management For use with generator supply EM power <sup>5</sup>	NES7ADCX	nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>8</sup>		PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
		NESPDT7ADCX	nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>8</sup>		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>12</sup>
					PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires <sup>12</sup>
					GLR Fast-blowing fuse <sup>13</sup>
					GMF Slow-blowing fuse <sup>13</sup>
					NPLT Narrow pallet
					RRL_ RELOC <sup>®</sup> -ready luminaire <sup>14</sup>
					LATC Earthquake clip
					DWAM Anti-Microbial paint

Accessories next page

### Notes

- Approximate lumen output.
- All versions may not achieve 130+ LPW. Refer to photometry on [www.acuitybrands.com](http://www.acuitybrands.com).
- 90 CRI and versions with integral sensor trim rings may not achieve 130 LPW.
- Not available with SLD driver, EL7L or EL14L battery packs.
- 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
- Must specify diffuser with trim 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 PWSLV.
- Must specify voltage. Requires BSE labeling. Consult factory for options.
- Not available with nLIGHT wired network or individual controls.
- Must specify voltage, 120 or 277 with GLR & GMF fusing.
- For ordering logic consult: [RRL\\_2013](http://RRL_2013).

# BLT Volumetric Recessed Lighting 300x1200

## nLight® 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

## Replacement Parts: Order as separate catalog number.

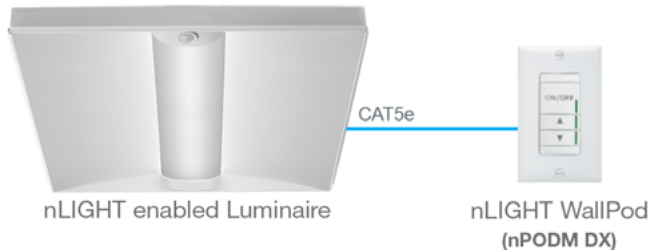
*249P4W	DBLT48 ADP LENS ASSEMBLY	4 ft. replacement lens
*249P52	DBLT48 SDP LENS ASSEMBLY	4 ft. replacement lens
*249P4Y	DBLT48 ADSM LENS ASSEMBLY	4 ft. replacement lens
*249P54	DBLT48 SDSM LENS ASSEMBLY	4 ft. replacement lens

# BLT Volumetric Recessed Lighting 300x1200

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



## Basic nLight Zone



## 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.

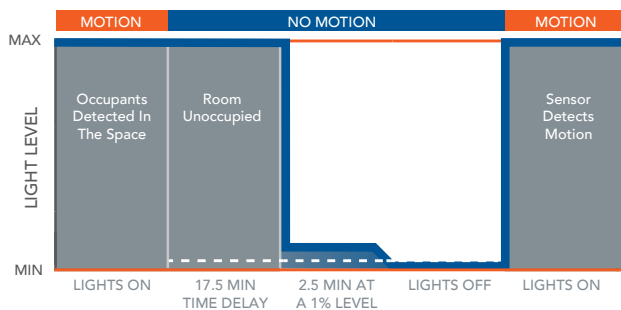
The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

## 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.

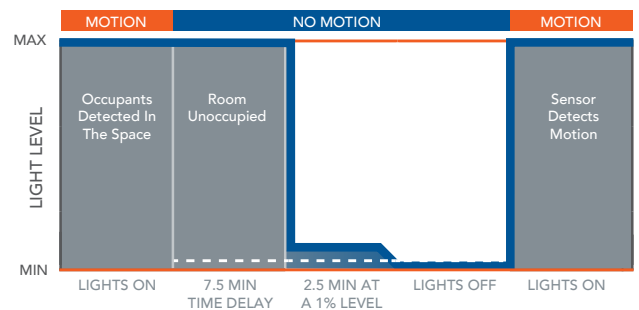
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an 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.

## Sequence of Operation

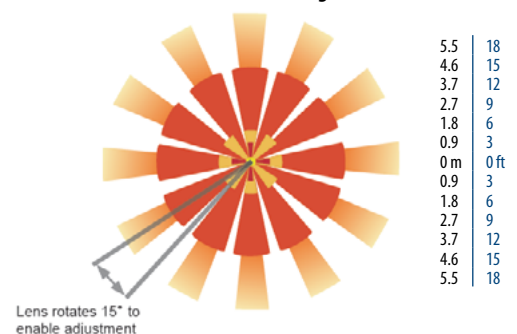


\*The presetting on the automatic dimming photocell is 5fc.

## 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

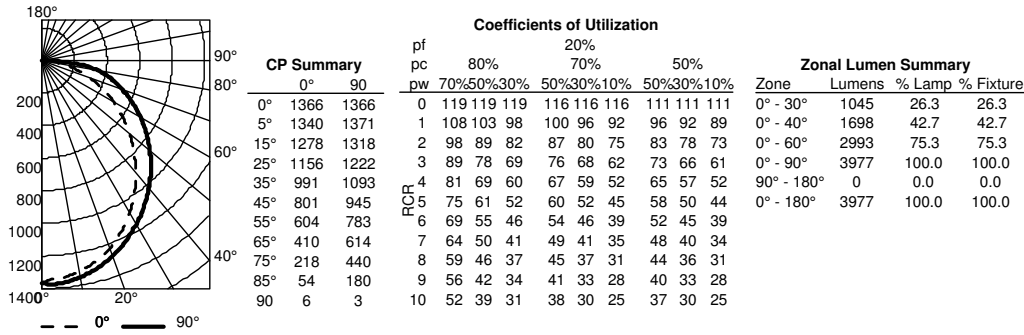
## 9 FT Mounting



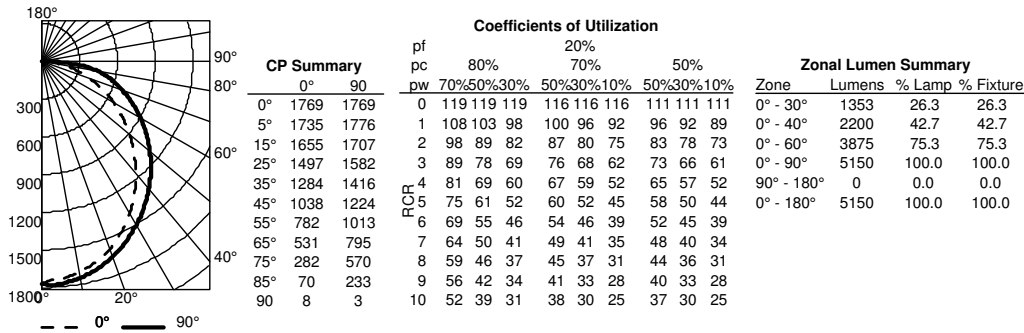
# BLT Volumetric Recessed Lighting 300x1200

## PHOTOMETRICS

**BLT4 MG 40L ADP LP835**, 3975 delivered lumens, test no. LTL28918P200, tested in accordance to IESNA LM-79

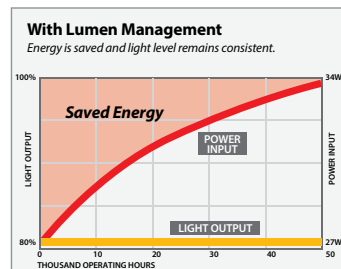
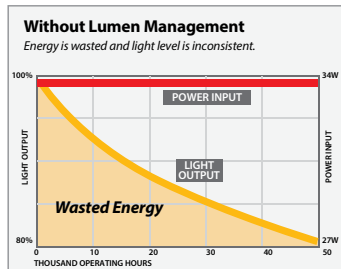


**BLT4 MG 48L ADP LP835**, 5148 delivered lumens, test no. LTL28918P204, tested in accordance to IESNA LM-79



## 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.



Performance Data			
Lumen Package	Lumens	Input Watts	LPW
20L ADP LP830	2231	19	120
20L ADP LP835	2289	19	123
20L ADP LP840	2339	19	126
20L ADP LP850	2454	19	132
30L ADP LP830	3311	29	113
30L ADP LP835	3397	29	116
30L ADP LP840	3471	29	119
30L ADP LP850	3642	29	124
40L ADP LP830	3875	34	113
40L ADP LP835	3975	34	116
40L ADP LP840	4062	34	119
40L ADP LP850	4262	34	125
48L ADP LP830	5018	46	110
48L ADP LP835	5148	46	112
48L ADP LP840	5261	46	115
48L ADP LP850	5520	46	121
60L ADP LP830	5969	53	112
60L ADP LP835	6124	53	115
60L ADP LP840	6258	53	117
60L ADP LP850	6566	53	123

HE Performance Data			
Lumen Package	Lumens	Input Watts	LPW
48LHE ADP LP830	4701	36	129
48LHE ADP LP835	4822	36	132
48LHE ADP LP840	4929	36	135
48LHE ADP LP850	5171	36	142
60LHE ADP LP830	5400	42	128
60LHE ADP LP835	5540	42	132
60LHE ADP LP840	5662	42	134
60LHE ADP LP850	5941	42	141

MOUNTING DATA	
Ceiling Type	Appropriate Trim Type
Exposed grid tee (1' and 9/16")	MG
Concealed grid tee	MG

