

# **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 (2-3/4") also makes it an excellent choice for renovation projects.

**CONSTRUCTION** — Prior to fabrication, BLT components are coated with a proprietary paint blend and die-formed for dimensional consistency.

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).

The BLT series is 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 them 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.

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 2-3/4" provides increased installation flexibility especially in restrictive plenum applications. Designed for use in NEMA standard Type G (1" & 15/16"), NFG (9/16"), and SS (9/16") grid ceilings. Consult factory about other ceiling types.

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

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. Tested in accordance with ISO 14644-1; suitable for use in ISO 5-9 positive and negative pressure clean rooms.

DesignLights Consortium<sup>®</sup> (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: <a href="http://www.acuitybrands.com/support/warranty/terms-and-conditions">www.acuitybrands.com/support/warranty/terms-and-conditions</a>

**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.



Length: 23-3/4 (60.3) Width: 11-3/4 (29.8) Depth: 2-3/4 (6.9)

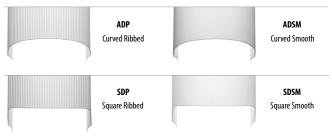
Catalog

Number

 $\searrow$ 

All dimensions are inches (centimeters) unless otherwise specified.

## **Multiple Diffuser Options**



## Standard 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<sup>®</sup> 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 <u>www.acuitybrands.com/aplus</u>.

\*See ordering tree for details

# A+ Capable options indicated by this color background.

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

Example: BLT2 20L ADP GZ10 LP835

BLT2   1X2 BLT   (blank)   Static   Standard efficiency (>100 LPW)   High Efficiency (>130 LPW)   ADP   Curved, linear prisms   (blank)   MV0LT   EZ1   eldoLED dims to 1% (0-10 volt dimming)   LP830   8     BLT2   1X2 BLT   (blank)   Static   High Efficiency (>130 LPW)   ADP   Curved, linear prisms   (blank)   MV0LT   EZ1   eldoLED dims to 1% (0-10 volt dimming)   LP830   8     DSM   SDP   Square, linear prisms   SDSM   Square, smooth   347   347 <sup>2</sup> GZ1   Dims to 1% (0-10V dimming) <sup>3</sup> LP840   8     LP830   BUT2   15L   1500   Johns to 1000   10-10V   LP840   8     LP840   SDSM   Square, smooth   Includes trim rings to match   GZ10   Dims to 10% (0-10V   LP830   8	BLT2						
30L 3000 ADPT Curved, linear prisms SLD Step-level LP935 9   40L 4000 ADSMT Curved, meath LP940 9	Series	(blank) Static (blank) Static Standard efficiency (>100 LPW) 10L 1000 15L 1500 20L 2000 30L 3000	Efficiency (>130 LPW)	ADPCurved, linear prismsADSMCurved, smoothSDPSquare, linear prismsSDSMSquare, smoothIncludes trim rings to match sensored versionADPTCurved, linear prismsADSMTCurved, smooth	(blank) MVOLT	EZ1eldoLED dims to 1% (0-10 volt dimming)GZ1Dims to 1% (0-10V dimming)3GZ10Dims to 10% (0-10V dimming(3)SLDStep-level	LP835     82CRI, 3500 K       LP840     82CRI, 4000 K       LP850     82CRI, 5000 K       LP930     90CRI, 3000K       LP935     90CRI, 3500K       LP940     90CRI, 4000K

Controls		Occupancy Cont	trol <sup>6</sup>	<u>.</u>		Options	
Controls (blank) N80EMG N100 N100EMG	No nLight® nLight® with 80% lumen management nLight® with 80% lumen management For use with generator supply EM power <sup>5</sup> nLight® without lumen management nLight® without lumen management For use with generator supply EM power <sup>5</sup>	Occupancy Cont (blank) nLight Wired N NES7 NESPDT7 NES7ADCX NESPDT7ADCX	No sensor control Networking nLight™ nES 7 PIR integral occupancy sensor <sup>7</sup> nLight™ nES PDT 7 dual technology integral occupancy control <sup>7</sup> nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>7</sup> nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming	Individual Con MSD7ADCX MSDPDT7ADCX	trol PIR integral occupancy sensor with automatic dimming control photocell <sup>4,8</sup> PDT integral occupancy sensor with automatic dimming control photocell <sup>4,8</sup>	Options BDP Disconnect EL7L EL14L E10WLCP CP BGTD PWS1836 PWS1846	Plug 700 lumen battery pack (Noncompliant with CA T20) <sup>10</sup> 1400 lumen battery pack (Noncompliant with CA T20) <sup>10</sup> EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS Chicago plenum <sup>11</sup> Bodine Generator Transfer Device <sup>12</sup> 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
	photocell <sup>7</sup>			PWS1846 PWSLV PWS1856LV	Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge <sup>13</sup> 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires <sup>13</sup>		
						glr gmf NPlt	Fast-blowing fuse <sup>14</sup> Slow-blowing fuse <sup>14</sup> Narrow pallet
						RRL_ LATC DWAM	RELOC®-ready luminaire <sup>15</sup> Earthquake clip Anti-Microbial paint

#### Notes

- 1 Approximate lumen output.
- 2 Not available with SLD, EL7L or EL14L battery packs.
- 3 GZ1, GZ10 drivers not available with any Controls or sensor options.
- Not available with N80, N80EMG, N100, N100EMG or occupancy control.
- 5 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- 6 Must specify diffuser with trims rings. See sensor options on page 3.
- 7 Requires N80, N80EMG, N100, or N100EMG.
- 8 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.

- 9 When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
- 10 Not available with N80, N80EMG, N100, N100EMG, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.
- 11 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- 12 Not available with nLIGHT wired network or individual controls.
- 13 Must specify voltage, 120 or 277, with GLR and GMF fusing and BGTD.
- 14 For ordering logic consult: <u>RRL\_2013</u>.

### Accessories: Order as separate catalog number.

DGA12	Drywall grid adapter for 1x2 recessed fixture
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40

#### nLight<sup>®</sup> Control Accessories:

Urder as separate catalog	number. Visit http://ww	w.acuitybrands.com/products/controls/nlight.	
WallPod stations	Model number	Occupancy sensors	Model number
0n/0ff	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

Replacemen	<b>nt Parts:</b> Order as separate catalog number.	
*249P34	DBLT24 ADP LENS ASSEMBLY	2 ft. replacement lens
*249P3A	DBLT24 SDP LENS ASSEMBLY	2 ft. replacement lens
*249P3F	DBLT24 ADSM LENS ASSEMBLY	2 ft. replacement lens
*249P3K	DBLT24 SDSM LENS ASSEMBLY	2 ft. replacement lens
*239UMP	DBLT24 ADPT LENS ASSEMBLY	2 ft. replacement lens
*239UMV	DBLT24 SDPT LENS ASSEMBLY	2 ft. replacement lens
*239UMX	DBLT24 ADSMT LENS ASSEMBLY	2 ft. replacement lens
*239UN0	DBLT24 SDSMT LENS ASSEMBLY	2 ft. replacement lens
*239HYG	DBLT24 ADPT SENSOR LENS ASSEMBLY	2 ft. replacement lens
*239HYH	DBLT24 SDPT SENSOR LENS ASSEMBLY	2 ft. replacement lens
*239UNE	DBLT24 ADSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens
*239TY2	DBLT24 SDSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens

# BLT Volumetric Recessed Lighting 1'x2'

Sensor Options							
Ontion	Automatic	Occupan	cy Sensing	nLight Wired			
Option	Dimming Photocell	PIR	PDT	Networking			
MSD7ADCX	Х	Х					
MSDPDT7ADCX	Х		Х				
NES7		Х		X			
NES7ADCX	Х	Х		Х			
NESPDT7			X	Х			
NESPDT7ADCX	Х		Х	X			



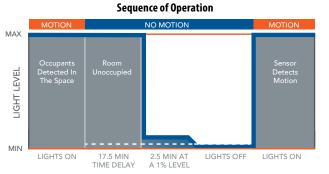
### **Basic nLight Zone**



#### **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.



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

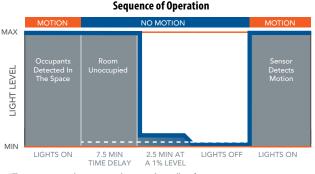
#### Sensor Coverage Pattern Mini 360° Lens

- 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

#### nLight Wired Networking

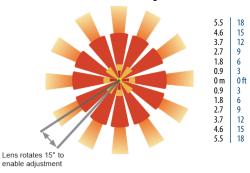
The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

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.



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

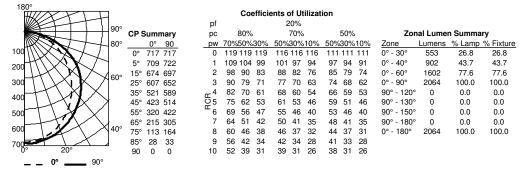
9 FT Mounting



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## PHOTOMETRICS

BLT2 20L ADP LP835, 2064 delivered lumens, test no. ISF35685P19, tested in accordance to IESNA LM-79



#### BLT2 30L ADP L835, 3095 delivered lumens, test no. ISF35685P27, tested in accordance to IESNA LM-79

CP Summa

0°

1075

1063

1011

911

782

634

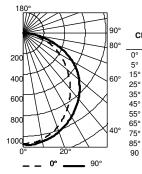
480

323

170

42

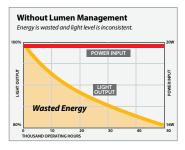
0

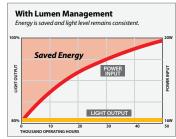


Coefficients of Utilization														
	pf				2	:0%								
ary	рс		80%			70%			50%		Zon	al Lume	n Summa	ry
90	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	Zone	Lumens	% Lamp	% Fixture
1075	0	119	119	119	116	116	116	111	111	111	0° - 30°	829	26.8	26.8
1083	1	109	104	99	101	97	94	97	94	91	0° - 40°	1353	43.7	43.7
1046	2	98	90	83	88	82	76	85	79	74	0° - 60°	2403	77.6	77.6
978	3	90	79	71	77	70	63	74	68	62	0° - 90°	3095	100.0	100.0
884	4 د	82	70	61	68	60	54	66	59	53	90° - 120°	0	0.0	0.0
771	<u>교</u> 2	75	62	53	61	53	46	59	51	46	90° - 130°	0	0.0	0.0
633	6 ۳	69	56	47	55	46	40	53	46	40	90° - 150°	0	0.0	0.0
457	7	64	51	42	50	41	35	48	41	35	90° - 180°	0	0.0	0.0
246	8	60	46	38	46	37	32	44	37	31	0° - 180°	3095	100.0	100.0
50	9	56	42	34	42	34	28	41	33	28				
0	10	52	39	31	39	31	26	38	31	26				

### **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.



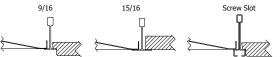


Performance Data								
Lumen Package	Lumens	Input Watts	LPW					
10L ADP LP830	985	8	123					
10L ADP LP835	1020	8	128					
10L ADP LP840	1036	8	130					
10L ADP LP850	1066	8	133					
15L ADP LP830	1393	12	116					
15L ADP LP835	1442	12	120					
15L ADP LP840	1465	12	122					
15L ADP LP850	1506	12	126					
20L ADP LP830	1994	18	111					
20L ADP LP835	2064	18	115					
20L ADP LP840	2097	18	117					
20L ADP LP850	2157	18	120					
30L ADP LP830	2989	27	111					
30L ADP LP835	3095	27	115					
30L ADP LP840	3144	27	116					
30L ADP LP850	3234	27	120					
40L ADP LP830	3881	36	108					
40L ADP LP835	4018	36	112					
40L ADP LP840	4082	36	113					
40L ADP LP850	4199	36	117					

HE Performance Data								
Lumen Package	Lumens	Input Watts	LPW					
40LHE ADP LP830	4039	32	126					
40LHE ADP LP835	4182	32	131					
40LHE ADP LP840	4249	32	133					
40LHE ADP LP850	4370	32	137					

#### 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 12-3/4" x 24-3/4" (Tolerance is +1/8", -0").

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BLT-1X2