LITHONIA LIGHTING®

BLT Series LED

2BLT

2' x 4'
LED

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). Color Variation within 3-step MacAdam ellipse (3SDCM).

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 RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive 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 available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminairs and wall switches through our mobile app, CL*AIR*ITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

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) Premium qualified product. Not all versions of this product may be DLC Premium 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 °C.
Specifications subject to change without notice.
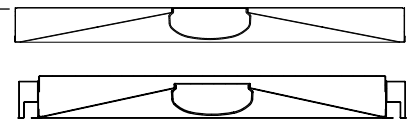
Specifications

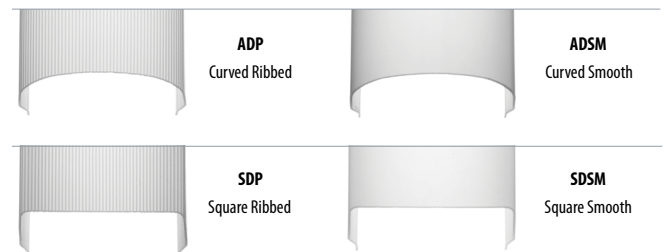|	
Length:	47-3/4 (121.2)
Width:	23-3/4 (60.3)
Depth:	2-3/8 (6.0)
Depth with Air supply/return:	2-3/4 (6.9)

All dimensions are inches (centimeters) unless otherwise specified.

C.E.C. TITLE 20 COMPLIANT · CSA+ CAPABLE · DLC QPL PREMIUM · eldoLED · nLight®

Multiple Diffuser Options

ADP
Curved Ribbed

ADSM
Curved Smooth

SDP
Square Ribbed

SDSM
Square Smooth

CSA+ 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.

*See ordering tree for details

2BLT Volumetric Recessed Lighting 2'x4'

A+ Capable options indicated by this color background.

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	**Standard efficiency (>100 LPW)**	**High efficiency[3,4] (>130 LPW)**	ADP	Curved, linear prisms	(blank) MVOLT		EZ1	eldoLED dims to 1% (0-10 volt dimming)	LP830	82CRI, 3000 K
	A Air supply/ return[1]	30L 3000	30LHE 3000	ADSM	Curved, smooth	120 120V				LP835	82CRI, 3500 K
		40L 4000	40LHE 4000	SDP	Square, linear prisms	277 277V		GZ1	Dims to 1% (0-10V dimming)[6]	LP840	82CRI, 4000 K
		48L 4800	48LHE 4800	SDSM	Square, smooth	347 347V[5]				LP850	82CRI, 5000 K
		60L 6000	60LHE 6000	**Includes trim rings to match sensored version**				GZ10	Dims to 10% (0-10V dimming)[6]	LP930	90CRI, 3000K
		72L 7200	72LHE 7200	ADPT	Curved, linear prisms					LP935	90CRI, 3500K
		85L 8500	85LHE 8500	ADSMT	Curved, smooth			SLD	Step-level dimming[6]	LP940	90CRI, 4000K
		100L 10000		SDPT	Square, linear prisms					LP950	90CRI, 5000K
		120L 12000		SDSMT	Square, smooth						

nLight Interface

nLight Wired

(blank)	no nLight ® interface
N80	nLight with 80% lumen management
N80EMG	nLight with 80% lumen management For use with generator supply EM power[9]
N100	nLight without lumen management
N100EMG	nLight without lumen management For use with generator supply EM power[9]

nLight Wireless

(blank)	no nLight ® interface
NLTAIR2	nLight AIR Generation 2 enabled[10]

Control[12]

nLight Wired

(blank)	No sensor control
NES7	nLight™ nES 7 PIR integral occupancy sensor[12]
NESPDT7	nLight™ nES PDT 7 dual technology integral occupancy control[12]
NES7ADCX	nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell[12]
NESPDT7ADCX	nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell[12]

nLight Wireless

RES7	nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities[13]
RES7PDT	nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell[13]
RIO	nLight AIR radio module without sensor

Individual Control

MSD7ADCX	PIR integral occupancy sensor with automatic dimming control photocell[7,13]
MSDPDT7ADCX	PDT integral occupancy sensor with automatic dimming control photocell[7,13]

Options

EL7L	700 lumen battery pack (non-CEC compliant)[14]
EL14L	1400 lumen battery pack (non-CEC compliant)[14]
EL14LSD	1400 lumen battery pack with self-diagnostic testing feature (non-CEC compliant)[14,15]
E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant[14]
CP	Chicago plenum[16]
BGTD	Bodine Generator Transfer Device[17]
PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
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[18]
PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires[18]
GLR	Fast-blowing fuse[19]
GMF	Slow-blowing fuse[19]
NPLT	Narrow pallet
RRL_	RELOC®-ready luminaire[20]
LATC	Earthquake clip
DWAM	Anti-Microbial paint
JP16	Job packaging
IP5X	Gasketed diffuser compartment to meet IP5X rating[21]

Notes

1 Consult factory for airflow data.
2 Approximate lumen output.
3 All versions may not achieve 130+ LPW. Refer to photometry on www.acuitybrands.com.
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, EL14L, or E10WLCP options.
6 GZ1 and GZ10 not available with any Control or Sensor options
7 Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.

8 Not available with controls, occupancy controls, or PWS options. Consult factory for Hi-Lume dimming.
9 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
10 Must order with RES7, RES7PDT, or RIO module. Only available with EZ1 driver. Not available with 85L, 100L, or 120L options.
11 Must specify diffuser with trim rings. See sensor options on page 4.
12 Requires N80, N80EMG, N100, or N100EMG.
13 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
14 When using pre-wire option, use PWS1846 or PWS1846 PWSLV.

15 For more information, please see the PSSD2 specification sheet.
16 Not available with N80, N80EMG, N100, or N100EMG.
17 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
18 Not available with nLight wired/wireless network or individual controls.
19 Must specify voltage, 120 or 277, with GLR and GMF fusing.
20 For ordering logic consult RRL_ 2013.
21 Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.

2BLT Volumetric Recessed Lighting 2'x4'

Non-Configurable BLT

Stock/MTO	Catalog Description *	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	2BLT4 40L ADP LP835	00190887470789	4000	31	129	3500K/82 CRI	120-277	26
	2BLT4 40L ADP LP840	00190887470765	4063	31	131	4000K/82CRI	120-277	26
	2BLT4 48L ADP LP835	00190887468656	4960	38	131	3500K/82 CRI	120-277	26
	2BLT4 48L ADP LP840	00190887468649	5039	38	133	4000K/82CRI	120-277	26
	2BLT4 40L ADP EL14L LP835	00190887470925	4000	31	129	3500K/82 CRI	120-277	26
	2BLT4 40L ADP EL14L LP840	00190887470918	4063	31	131	4000K/82 CRI	120-277	26
	2BLT4 48L ADP EL14L LP835	00190887468670	4960	38	131	3500K/82 CRI	120-277	26
	2BLT4 48L ADP EL14L LP840	00190887468663	5039	38	133	4000K/82CRI	120-277	26
MTO	2BLT4 40L ADP 347 LP835		4000	31	129	3500K/82 CRI	347	26
	2BLT4 40L ADP 347 LP840		4063	31	131	4000K/82CRI	347	26
	2BLT4 48L ADP 347 LP835		4960	38	131	3500K/82 CRI	347	26
	2BLT4 48L ADP 347 LP840		5039	38	133	4000K/82CRI	347	26

*Generic 0-10V Dimming to 10%.

Accessories: *Order as separate catalog number.*

DGA24	Drywall grid adapter for 2x4 recessed fixture
2X4SMK	Surface Mount Troffer Kit

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	CAT5 10FT J1
		30' cable	CAT5 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] G2
On/Off two pole	rPODB 2P [color] G2
On/Off & raise/lower single pole	rPODB DX [color] G2
On/Off & raise/lower two pole	rPODB 2P DX [color] G2
On/Off & raise/lower single pole	rPODBZ DX WH G2

rCMS

Example: RCMS PDT 10 AR G2

Series / Detection		Power Supply[1]		Occupancy Detection		Lens (Required)		Operating Mode		Generation	
RCMS	nLight AIR occupancy and daylight sensor	[blank]	Power Supply ordered separately	[blank]	PIR Detection	10	Large Motion/ Extended Range 360°	[BLANK]	None	G2	Generation 2 compatibility
		PS 150	Standard 150 mA Power Supply	PDT	Dual Tech PIR/ Microphonics	9	Small Motion/ Extended Range 360°	AR	Auxiliary Relay		
						6	High Bay 360° Lens				

Notes
1   RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.

RCMS

Replacement 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

LITHONIA LIGHTING

Sensor Options					
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking
		PIR	PDT		
MSD7ADCX	X	X			
MSDPDT7ADCX	X		X		
NES7		X		X	
NES7ADCX	X	X		X	
NESPDT7			X	X	
NESPDT7ADCX	X		X	X	
RES7	X	X			X
RESPDT7	X	X	X		X

Basic nLight Zone

CAT5e

nLIGHT enabled Luminaire

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 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

MOTION	NO MOTION			MOTION

LIGHT LEVEL — MAX / MIN

Occupants Detected In The Space

Room Unoccupied

Sensor Detects Motion

| LIGHTS ON | 17.5 MIN TIME DELAY | 2.5 MIN AT A 1% LEVEL | LIGHTS OFF | LIGHTS ON |

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

Sequence of Operation

MOTION	NO MOTION			MOTION

LIGHT LEVEL — MAX / MIN

Occupants Detected In The Space

Room Unoccupied

Sensor Detects Motion

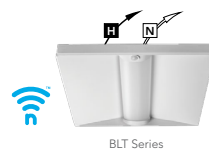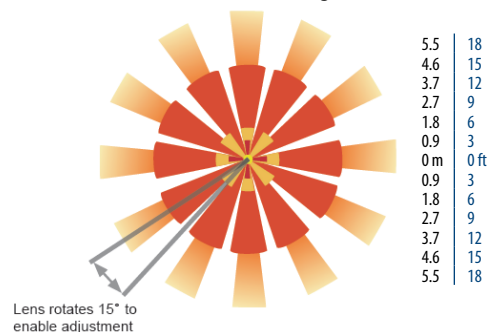| LIGHTS ON | 7.5 MIN TIME DELAY | 2.5 MIN AT A 1% LEVEL | LIGHTS OFF | LIGHTS ON |

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

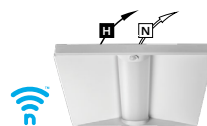### Sensor Coverage Pattern
Mini 360° Lens

- 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 AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. Integrated RES7 or RES7PDT smart sensors are 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.

9 FT Mounting

5.5	18
4.6	15
3.7	12
2.7	9
1.8	6
0.9	3
0 m	0 ft
0.9	3
1.8	6
2.7	9
3.7	12
4.6	15
5.5	18

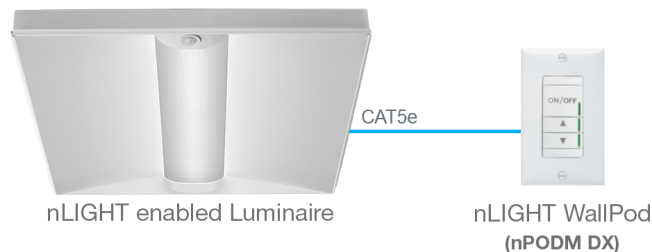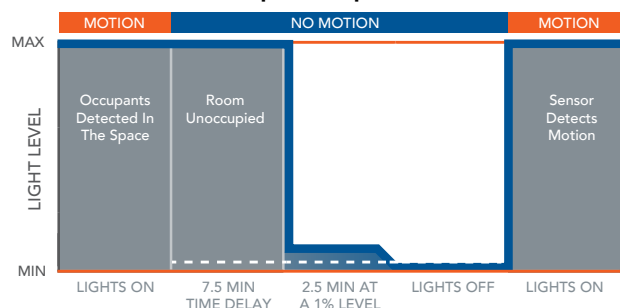Lens rotates 15° to enable adjustment

BLT Series

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

Mobile Device

PHOTOMETRICS

2BLT4 40L ADP LP835, 4000 delivered lumens, test no. ISF36900P109, tested in accordance to IESNA LM-79

CP Summary

	0°	90
0°	1325	1325
5°	1309	1325
15°	1250	1278
25°	1136	1187
35°	981	1058
45°	797	909
55°	601	761
65°	408	621
75°	212	460
85°	48	197
90	1	17

Coefficients of Utilization

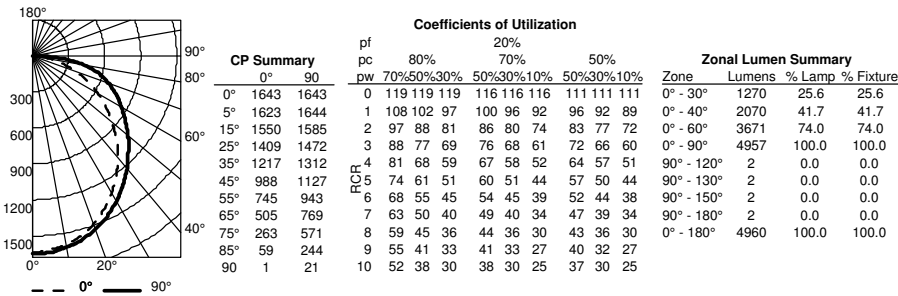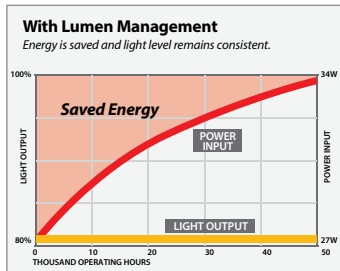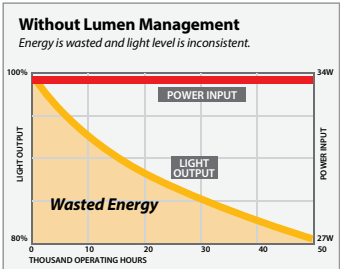|	pf 20%								
pc	80%			70%			50%		
RCR pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	102	97	100	96	92	96	92	89
2	97	88	81	86	80	74	83	77	72
3	88	77	69	76	68	61	72	66	60
4	81	68	59	67	58	52	64	57	51
5	74	61	51	60	51	44	57	50	44
6	68	55	45	54	45	39	52	44	38
7	63	50	40	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1024	25.6	25.6
0° - 40°	1669	41.7	41.7
0° - 60°	2960	74.0	74.0
0° - 90°	3998	100.0	100.0
90° - 120°	2	0.0	0.0
90° - 130°	2	0.0	0.0
90° - 150°	2	0.0	0.0
90° - 180°	2	0.0	0.0
0° - 180°	4000	100.0	100.0

2BLT4 48L ADP LP835, 4960 delivered lumens, test no. ISF 36900P117, tested in accordance to IESNA LM-79

CP Summary

	0°	90
0°	1643	1643
5°	1623	1644
15°	1550	1585
25°	1409	1472
35°	1217	1312
45°	988	1127
55°	745	943
65°	505	769
75°	263	571
85°	59	244
90	1	21

Coefficients of Utilization

	pf 20%								
pc	80%			70%			50%		
RCR pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	102	97	100	96	92	96	92	89
2	97	88	81	86	80	74	83	77	72
3	88	77	69	76	68	61	72	66	60
4	81	68	59	67	58	52	64	57	51
5	74	61	51	60	51	44	57	50	44
6	68	55	45	54	45	39	52	44	38
7	63	50	40	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1270	25.6	25.6
0° - 40°	2070	41.7	41.7
0° - 60°	3671	74.0	74.0
0° - 90°	4957	100.0	100.0
90° - 120°	2	0.0	0.0
90° - 130°	2	0.0	0.0
90° - 150°	2	0.0	0.0
90° - 180°	2	0.0	0.0
0° - 180°	4960	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.

MOUNTING DATA

Ceiling Type	Appropriate Trim Type
Exposed grid tee (1' and 9/16")	G
Concealed grid tee	G
Plaster or plasterboard	G*

9/16   15/16   Screw Slot

*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").

Without Lumen Management
Energy is wasted and light level is inconsistent.

With Lumen Management
Energy is saved and light level remains consistent.

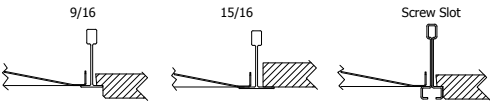**How to Estimate Delivered Lumens in Emergency Mode**
Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

Performance Data					
Material	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	2962.0	127.3	23.3	Premium	PWJDEMHS
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	2828.0	123.3	22.9	Premium	PX3HLIFK
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3009.3	129.3	23.3	Premium	P18J5GLD
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	2969.2	127.6	23.3	Premium	P3HB2XSG
2BLT4 40L ADP LP835	4000.0	126.2	31.7	Premium	PV1X7BV6
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4000.0	126.2	31.7	Premium	PDWKYXFD
2BLT4 40L ADP LP835	4000.0	126.2	31.7	Premium	PV1X7BV6
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4000.0	126.2	31.7	Premium	PDWKYXFD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3946.7	124.5	31.7	Premium	PS63CPK6
2BLT4 40L ADP LP840	4063.9	128.2	31.7	Premium	P7GJNP7R
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4063.9	128.2	31.7	Premium	PEYXAZWD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4009.7	126.5	31.7	Premium	PK79UR9W
2BLT4 48L ADP LP835	4960.0	130.5	38.0	Premium	PFRUJ4KY
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4960.0	130.5	38.0	Premium	PJ9CK6C1
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4893.9	128.8	38.0	Premium	PPFKZU3U
2BLT4 48L ADP LP840	5039.2	132.6	38.0	Premium	P3SXAWRT
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4960.0	130.5	38.0	Premium	PJ9CK6C1
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4893.9	128.8	38.0	Premium	PPFKZU3U
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	6016.0	126.4	47.6	Premium	PSJ6QERM
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5935.8	124.7	47.6	Premium	PHT84BW4
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	6112.0	128.4	47.6	Premium	PVXQXPUV
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	6030.6	126.7	47.6	Premium	PXV55BC8

DLC information is subject to change, for the most up-to-date information please refer to www.dlc.org. Above listings do not cover 347v or SLD.

HE Performance Data					
Material	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3107.0	135.2	23.0	Premium	P7KEICW5
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3065.6	133.4	23.0	Premium	P7PZAJDZ
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3156.6	137.3	23.0	Premium	PD0M06BH
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3114.5	135.5	23.0	Premium	P2N23EBP
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4085.0	138.6	29.5	Premium	P67P6S5Y
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4030.5	136.7	29.5	Premium	PC15DQEC
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4150.0	140.8	29.5	Premium	P95UQD66
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4094.9	138.9	29.5	Premium	PGRCSJ2T
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4770.0	138.2	34.5	Premium	PXBJBGN8
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4706.4	136.3	34.5	Premium	P2NK2H33
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4770.0	138.2	34.5	Premium	PXBJBGN8
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4706.4	136.3	34.5	Premium	P2NK2H33
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5894.0	135.1	43.6	Premium	PQZN176R
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5815.4	133.3	43.6	Premium	PZ72TAWM
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	5988.1	137.3	43.6	Premium	PG5CYJUC
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	5908.3	135.5	43.6	Premium	PRC4W72B

DLC information is subject to change, for the most up-to-date information please refer to www.dlc.org. Above listings do not cover 347v or SLD.

BLT Series LED

2BLT

2' x 4'
LED

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). Color Variation within 3-step MacAdam ellipse (3SDCM).

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 RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive 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 available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminairs and wall switches through our mobile app, CL*AIR*ITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

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) Premium qualified product. Not all versions of this product may be DLC Premium 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 °C.
Specifications subject to change without notice.

C.E.C. TITLE 20 COMPLIANT · CSA+ CAPABLE · DLC QPL PREMIUM · eldoLED · nLIGHT
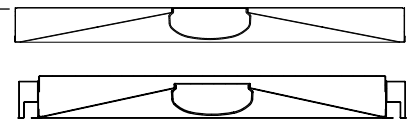
Specifications

Length: 47-3/4 (121.2)
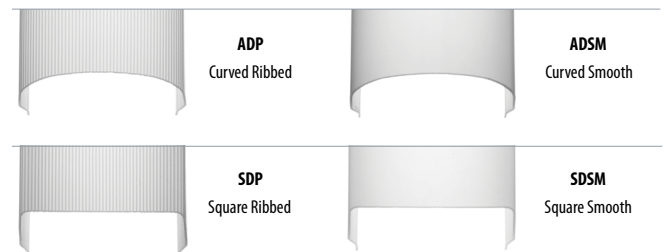Width: 23-3/4 (60.3)
Depth: 2-3/8 (6.0)
Depth with Air supply/return: 2-3/4 (6.9)

All dimensions are inches (centimeters) unless otherwise specified.

Multiple Diffuser Options

ADP Curved Ribbed	**ADSM** Curved Smooth
SDP Square Ribbed	**SDSM** Square Smooth

ℭⅣ+ 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.

*See ordering tree for details

2BLT Volumetric Recessed Lighting 2'x4'

A+ Capable options indicated by this color background.

Example: 2BLT4 40L ADP EZ1 LP840

2BLT4

Series		Air function		Lumens[2]				Diffuser		Voltage		Driver		Color temperature	
2BLT4	2x4 BLT	(blank)	Static	**Standard efficiency (>100 LPW)**		**High efficiency[3,4] (>130 LPW)**		ADP	Curved, linear prisms	(blank)	MVOLT	EZ1	eldoLED dims to 1% (0-10 volt dimming)	LP830	82CRI, 3000 K
		A	Air supply/ return[1]	30L	3000	30LHE	3000	ADSM	Curved, smooth	120	120V			LP835	82CRI, 3500 K
				40L	4000	40LHE	4000	SDP	Square, linear prisms	277	277V	GZ1	Dims to 1% (0-10V dimming)[6]	LP840	82CRI, 4000 K
				48L	4800	48LHE	4800	SDSM	Square, smooth	347	347V[5]			LP850	82CRI, 5000 K
				60L	6000	60LHE	6000	**Includes trim rings to match sensored version**				GZ10	Dims to 10% (0-10V dimming)[6]	LP930	90CRI, 3000K
				72L	7200	72LHE	7200	ADPT	Curved, linear prisms					LP935	90CRI, 3500K
				85L	8500	85LHE	8500	ADSMT	Curved, smooth			SLD	Step-level dimming[6]	LP940	90CRI, 4000K
				100L	10000			SDPT	Square, linear prisms					LP950	90CRI, 5000K
				120L	12000			SDSMT	Square, smooth						

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nLight Interface

nLight Wired

(blank)	no nLight ® interface
N80	nLight with 80% lumen management
N80EMG	nLight with 80% lumen management For use with generator supply EM power[9]
N100	nLight without lumen management
N100EMG	nLight without lumen management For use with generator supply EM power[9]

nLight Wireless

(blank)	no nLight ® interface
NLTAIR2	nLight AIR Generation 2 enabled[10]

Control[12]

nLight Wired

(blank)	No sensor control
NES7	nLight™ nES 7 PIR integral occupancy sensor[12]
NESPDT7	nLight™ nES PDT 7 dual technology integral occupancy control[12]
NES7ADCX	nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell[12]
NESPDT7ADCX	nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell[12]

nLight Wireless

RES7	nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities[13]
RES7PDT	nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell[13]
RIO	nLight AIR radio module without sensor

Individual Control

MSD7ADCX	PIR integral occupancy sensor with automatic dimming control photocell[7,13]
MSDPDT7ADCX	PDT integral occupancy sensor with automatic dimming control photocell[7,13]

Options

EL7L	700 lumen battery pack (non-CEC compliant)[14]
EL14L	1400 lumen battery pack (non-CEC compliant)[14]
EL14LSD	1400 lumen battery pack with self-diagnostic testing feature (non-CEC compliant)[14,15]
E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant[14]
CP	Chicago plenum[16]
BGTD	Bodine Generator Transfer Device[17]
PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
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[18]
PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires[18]
GLR	Fast-blowing fuse[19]
GMF	Slow-blowing fuse[19]
NPLT	Narrow pallet
RRL_	RELOC®-ready luminaire[20]
LATC	Earthquake clip
DWAM	Anti-Microbial paint
JP16	Job packaging
IP5X	Gasketed diffuser compartment to meet IP5X rating[21]

Notes
1. Consult factory for airflow data.
2. Approximate lumen output.
3. All versions may not achieve 130+ LPW. Refer to photometry on www.acuitybrands.com.
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, EL14L, or E10WLCP options.
6. GZ1 and GZ10 not available with any Control or Sensor options
7. Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.
8. Not available with controls, occupancy controls, or PWS options. Consult factory for Hi-Lume dimming.
9. nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
10. Must order with RES7, RES7PDT, or RIO module. Only available with EZ1 driver. Not available with 85L, 100L, or 120L options.
11. Must specify diffuser with trim rings. See sensor options on page 4.
12. Requires N80, N80EMG, N100, or N100EMG.
13. Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
14. When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
15. For more information, please see the PSSD2 specification sheet.
16. Not available with N80, N80EMG, N100, or N100EMG.
17. Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
18. Not available with nLight wired/wireless network or individual controls.
19. Must specify voltage, 120 or 277, with GLR and GMF fusing.
20. For ordering logic consult RRL_2013.
21. Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.

Non-Configurable BLT

Stock/MTO	Catalog Description *	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	2BLT4 40L ADP LP835	00190887470789	4000	31	129	3500K/82 CRI	120-277	26
	2BLT4 40L ADP LP840	00190887470765	4063	31	131	4000K/82CRI	120-277	26
	2BLT4 48L ADP LP835	00190887468656	4960	38	131	3500K/82 CRI	120-277	26
	2BLT4 48L ADP LP840	00190887468649	5039	38	133	4000K/82CRI	120-277	26
	2BLT4 40L ADP EL14L LP835	00190887470925	4000	31	129	3500K/82 CRI	120-277	26
	2BLT4 40L ADP EL14L LP840	00190887470918	4063	31	131	4000K/82 CRI	120-277	26
	2BLT4 48L ADP EL14L LP835	00190887468670	4960	38	131	3500K/82 CRI	120-277	26
	2BLT4 48L ADP EL14L LP840	00190887468663	5039	38	133	4000K/82CRI	120-277	26
MTO	2BLT4 40L ADP 347 LP835		4000	31	129	3500K/82 CRI	347	26
	2BLT4 40L ADP 347 LP840		4063	31	131	4000K/82CRI	347	26
	2BLT4 48L ADP 347 LP835		4960	38	131	3500K/82 CRI	347	26
	2BLT4 48L ADP 347 LP840		5039	38	133	4000K/82CRI	347	26

*Generic 0-10V Dimming to 10%.

Accessories: *Order as separate catalog number.*

DGA24	Drywall grid adapter for 2x4 recessed fixture
2X4SMK	Surface Mount Troffer Kit

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	CAT5 10FT J1
		30' cable	CAT5 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] G2
On/Off two pole	rPODB 2P [color] G2
On/Off & raise/lower single pole	rPODB DX [color] G2
On/Off & raise/lower two pole	rPODB 2P DX [color] G2
On/Off & raise/lower single pole	rPODBZ DX WH G2

rCMS   Example: RCMS PDT 10 AR G2

Series / Detection		Power Supply[1]		Occupancy Detection		Lens (Required)		Operating Mode		Generation	
RCMS	nLight AIR occupancy and daylight sensor	[blank]	Power Supply ordered separately	[blank]	PIR Detection	10	Large Motion/ Extended Range 360°	[BLANK]	None	G2	Generation 2 compatibility
		PS 150	Standard 150 mA Power Supply	PDT	Dual Tech PIR/ Microphonics	9	Small Motion/ Extended Range 360°	AR	Auxiliary Relay		
						6	High Bay 360° Lens				

Notes
1   RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.

RCMS

Replacement 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

LITHONIA LIGHTING

Sensor Options

Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking
		PIR	PDT		
MSD7ADCX	X	X			
MSDPDT7ADCX	X		X		
NES7		X		X	
NES7ADCX	X	X		X	
NESPDT7			X	X	
NESPDT7ADCX	X		X	X	
RES7	X	X			X
RESPDT7	X	X	X		X

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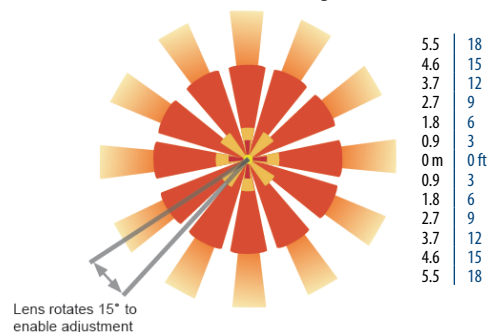
Sequence of Operation
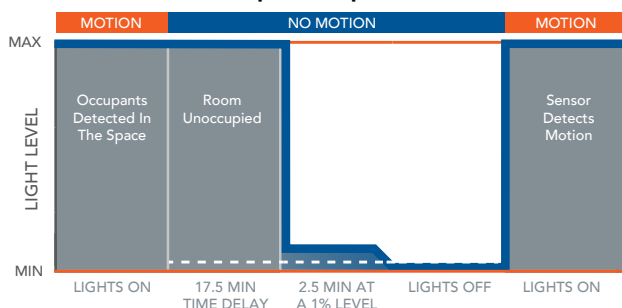
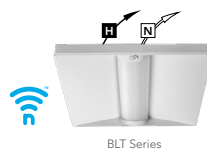*The presetting on the automatic dimming photocell is 5fc.

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
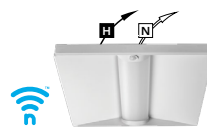
9 FT Mounting

5.5	18
4.6	15
3.7	12
2.7	9
1.8	6
0.9	3
0 m	0 ft
0.9	3
1.8	6
2.7	9
3.7	12
4.6	15
5.5	18

Lens rotates 15° to enable adjustment

Basic nLight Zone

nLIGHT enabled Luminaire

CAT5e

nLIGHT WallPod
(nPODM DX)

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.

nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. Integrated RES7 or RES7PDT smart sensors are 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.

BLT Series

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 CL**AIR**ITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome
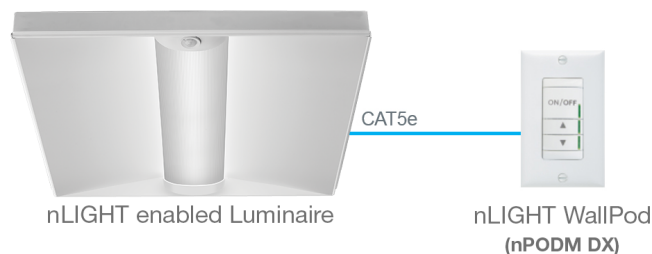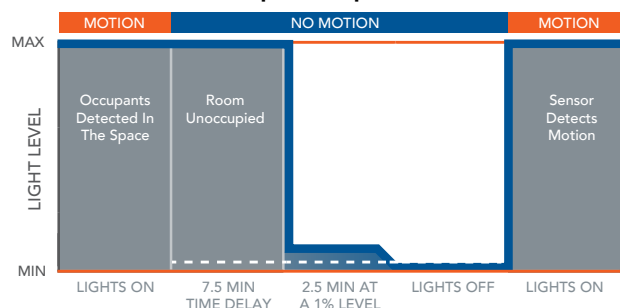

nLight AIR rPODB 2P DX

Mobile Device

PHOTOMETRICS

2BLT4 40L ADP LP835, 4000 delivered lumens, test no. ISF36900P109, tested in accordance to IESNA LM-79

CP Summary

	0°	90
0°	1325	1325
5°	1309	1325
15°	1250	1278
25°	1136	1187
35°	981	1058
45°	797	909
55°	601	761
65°	408	621
75°	212	460
85°	48	197
90	1	17

Coefficients of Utilization

pf		20%							
pc	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR 0	119	119	119	116	116	116	111	111	111
1	108	102	97	100	96	92	96	92	89
2	97	88	81	86	80	74	83	77	72
3	88	77	69	76	68	61	72	66	60
4	81	68	59	67	58	52	64	57	51
5	74	61	51	60	51	44	57	50	44
6	68	55	45	54	45	39	52	44	38
7	63	50	40	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary

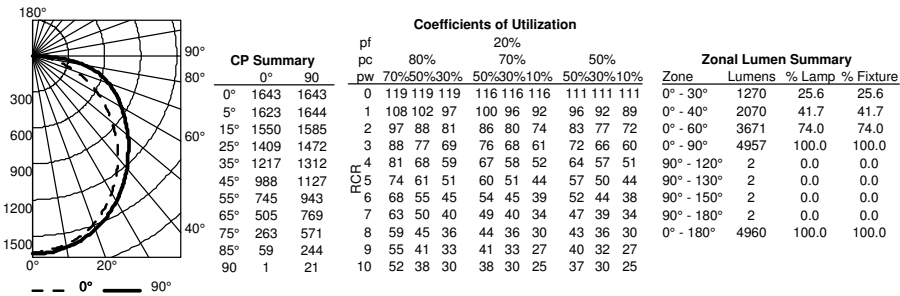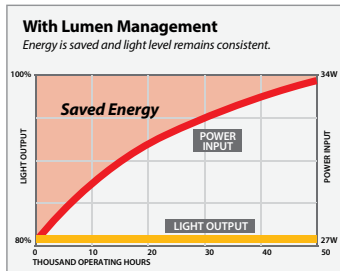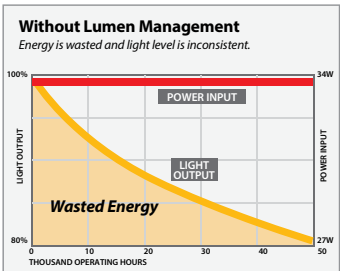| Zone	Lumens	% Lamp	% Fixture
0° - 30°	1024	25.6	25.6
0° - 40°	1669	41.7	41.7
0° - 60°	2960	74.0	74.0
0° - 90°	3998	100.0	100.0
90° - 120°	2	0.0	0.0
90° - 130°	2	0.0	0.0
90° - 150°	2	0.0	0.0
90° - 180°	2	0.0	0.0
0° - 180°	4000	100.0	100.0

2BLT4 48L ADP LP835, 4960 delivered lumens, test no. ISF 36900P117, tested in accordance to IESNA LM-79

CP Summary

	0°	90
0°	1643	1643
5°	1623	1644
15°	1550	1585
25°	1409	1472
35°	1217	1312
45°	988	1127
55°	745	943
65°	505	769
75°	263	571
85°	59	244
90	1	21

Coefficients of Utilization

pf		20%							
pc	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR 0	119	119	119	116	116	116	111	111	111
1	108	102	97	100	96	92	96	92	89
2	97	88	81	86	80	74	83	77	72
3	88	77	69	76	68	61	72	66	60
4	81	68	59	67	58	52	64	57	51
5	74	61	51	60	51	44	57	50	44
6	68	55	45	54	45	39	52	44	38
7	63	50	40	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1270	25.6	25.6
0° - 40°	2070	41.7	41.7
0° - 60°	3671	74.0	74.0
0° - 90°	4957	100.0	100.0
90° - 120°	2	0.0	0.0
90° - 130°	2	0.0	0.0
90° - 150°	2	0.0	0.0
90° - 180°	2	0.0	0.0
0° - 180°	4960	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.

Without Lumen Management
Energy is wasted and light level is inconsistent.

POWER INPUT
LIGHT OUTPUT
Wasted Energy

With Lumen Management
Energy is saved and light level remains consistent.

Saved Energy
POWER INPUT
LIGHT OUTPUT

MOUNTING DATA

Ceiling Type	Appropriate Trim Type
Exposed grid tee (1' and 9/16")	G
Concealed grid tee	G
Plaster or plasterboard	G*

9/16   15/16   Screw Slot

*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").
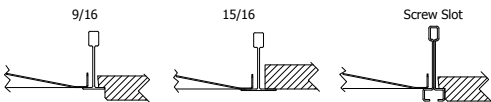
How to Estimate Delivered Lumens in Emergency Mode
Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

LITHONIA LIGHTING

Performance Data					
Material	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	2962.0	127.3	23.3	Premium	PWJDEMHS
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	2828.0	123.3	22.9	Premium	PX3HLIFK
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3009.3	129.3	23.3	Premium	P18J5GLD
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	2969.2	127.6	23.3	Premium	P3HB2XSG
2BLT4 40L ADP LP835	4000.0	126.2	31.7	Premium	PV1X7BV6
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4000.0	126.2	31.7	Premium	PDWKYXFD
2BLT4 40L ADP LP835	4000.0	126.2	31.7	Premium	PV1X7BV6
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4000.0	126.2	31.7	Premium	PDWKYXFD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3946.7	124.5	31.7	Premium	PS63CPK6
2BLT4 40L ADP LP840	4063.9	128.2	31.7	Premium	P7GJNP7R
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4063.9	128.2	31.7	Premium	PEYXAZWD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4009.7	126.5	31.7	Premium	PK79UR9W
2BLT4 48L ADP LP835	4960.0	130.5	38.0	Premium	PFRUJ4KY
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4960.0	130.5	38.0	Premium	PJ9CK6C1
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4893.9	128.8	38.0	Premium	PPFKZU3U
2BLT4 48L ADP LP840	5039.2	132.6	38.0	Premium	P3SXAWRT
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4960.0	130.5	38.0	Premium	PJ9CK6C1
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4893.9	128.8	38.0	Premium	PPFKZU3U
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	6016.0	126.4	47.6	Premium	PSJ6QERM
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5935.8	124.7	47.6	Premium	PHT84BW4
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	6112.0	128.4	47.6	Premium	PVXQXPUV
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	6030.6	126.7	47.6	Premium	PXV55BC8

DLC information is subject to change, for the most up-to-date information please refer to www.dlc.org. Above listings do not cover 347v or SLD.

HE Performance Data					
Material	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3107.0	135.2	23.0	Premium	P7KEICW5
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3065.6	133.4	23.0	Premium	P7PZAJDZ
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3156.6	137.3	23.0	Premium	PD0M06BH
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3114.5	135.5	23.0	Premium	P2N23EBP
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4085.0	138.6	29.5	Premium	P67P6S5Y
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4030.5	136.7	29.5	Premium	PC15DQEC
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4150.0	140.8	29.5	Premium	P95UQD66
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4094.9	138.9	29.5	Premium	PGRCSJ2T
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4770.0	138.2	34.5	Premium	PXBJBGN8
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4706.4	136.3	34.5	Premium	P2NK2H33
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4770.0	138.2	34.5	Premium	PXBJBGN8
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4706.4	136.3	34.5	Premium	P2NK2H33
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5894.0	135.1	43.6	Premium	PQZN176R
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5815.4	133.3	43.6	Premium	PZ72TAWM
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	5988.1	137.3	43.6	Premium	PG5CYJUC
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	5908.3	135.5	43.6	Premium	PRC4W72B

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