Manuals+ — User Manuals Simplified.

LITHONIA LIGHTING BLT4 BLT Best In Value Low Profile LED Luminaire Owner's Manual

Contents

LITHONIA LIGHTING BLT4 BLT Best In Value Low Profile LED Luminaire

Product Information

The BLT Series LED is a 1′ x 4′ LED luminaire that comes with two diffuser options – ADP and SDSM. It is designed to be embedded with nLight controls, making it future-ready and scalable. This luminaire is A+ capable, which ensures consistent color appearance and out-of-the-box control compatibility with simple commissioning. It is available in different lumen outputs, efficiency levels, color temperatures, and control options.

Product Specifications

- **Type:** BLT Series LED
- **Length:** 47-3/4 inches (121.2 cm)
- **Width:** 11-3/4 inches (29.8 cm)
- **Depth:** 2-3/4 inches (6.9 cm)
- **Static Depth with Air supply/return:** 3-5/8 inches (9.2 cm)
- ISO Class 5-9

Product Features

- User-friendly installation
- Enhanced energy savings
- Code compliance
- Space configuration

Product Usage Instructions

The BLT Series LED luminaire can be used for commercial indoor lighting applications. Follow the below instructions for product usage:

1. Select the appropriate BLT4 model based on your requirements.
2. Select the diffuser option from ADP and SDSM based on your preference.
3. Choose the appropriate voltage and driver type based on your power supply.
4. Select the desired color temperature for the luminaire.
5. Choose the nLight interface option based on your control requirements.

6. Consult with your sales representative to determine the lead time for your selected options.

7. Install the luminaire according to the manufacturer's instructions and ensure that it is embedded with nLight controls to enable future scalability and energy savings.

8. Commission the A+ capable luminaire using simple commissioning methods by following the instructions provided in the user manual.

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 BLT reflector is available in both smooth and ribbed finishes. Choose RB from the fixture style section below for a ribbed finish.

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 ribbed 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 them 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.

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 microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

Integrated Wireless Sensor (single room control): Sensor Switch VERTEX JOT or JOTVTX15 luminaire-embedded occupancy and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is entering the space. See page X for more details on the integrated wireless sensor.

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 ISO Class 5-9 positive and negative pressure clean rooms.

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

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.

Please refer to **www.acuitybrands.com/buy-american** for additional information.

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: **www.acuitybrands.com/support/warranty/terms-and-conditions**

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: 11-3/4 (29.8)
Depth: 2-3/4 (6.9)
Depth with Air supply/return: 3-5/8 (9.2)
All dimensions are inches (centimeters) unless otherwise specified.

Embed nLight controls today. Prepare for tomorrow.

Now

User-friendly install

Enhanced energy savings

Code compliance

Tomorrow

Scalability

Space configuration

Future-ready

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.

ORDERING INFORMATION

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

Example: BLT4 30L ADP EZ1 LP835

BLT4							
Series	**Fixture Style**	**Air function**	**Lumens ‡**		**Diffuser**	**Voltage**	**Driver**	**Color temperature**
BLT4 1×4 BLT	(blank) RB	Smooth Reflector Ribbed Reflector	(blank) Static A Air supply/ return ‡	**Standard efficiency (>100 LPW)** 15L 1500 20L 2000 30L 3000 40L 4000 48L 4800 60L 6000	**High efficiency ‡ (>130 LPW)** 15LHE 1500 20LHE 2000 30LHE 3000 40LHE 4000 48LHE 4800 60LHE 6000	ADP Curved, ribbed ADSM Curved, smooth SDP Square, ribbed SDSM Square, smooth **Includes trim rings to match sensored version** ADPT Curved, ribbed ADSMT Curved, smooth SDPT Square, ribbed SDSMT Square, smooth	(blank) MVOLT 120 1 120V 277 277V 347 347V ‡	EZ1 GZ1 GZ10 SLD	eldoLED dims to 1% (0-10 volt dimming) Dims to 1 % (0-10V dimming) ‡ Dims to 10 % (0-10V dimming) ‡ Step-level dimming ‡	LP830 82 CRI, 3000 K LP835 82CRI, 3500 K LP840 82CRI, 4000 K LP850 82CRI, 5000 K LP930 90CRI, 3000K LP935 90CRI, 3500K LP940 90CRI, 4000K LP950 90 CRI, 5000 K
nLight Interface		**Control ‡**					

nLight Wired	nLight Wired	Individual Control
(blank) no nLight ® interface N80 nLight with 80% lumen management N80EMG nLight with 80% lumen management For use with generator supply EM power ‡ N100 nLight without lumen management N100EMG nLight without lumen management For use with generator supply EM power ‡ **nLight Wireless** (blank) no nLight ® interface NLTAIR2 nLight AIR Generation 2 enabled ‡	(blank) No sensor control NES7 nLight™ nES 7 PIR integral occupancy sensor ‡ NESPDT7 nLight AIR control with PDT dual technology integral occupancy sensor and automatic dimming photocell ‡ NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ‡ NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ‡ **nLight Wireless** RES7 nLight AIR control with PIR integral occupancy sensor and automatic dimming photocell RES7PDT nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell RIO nLight AIR radio module without sensor RES7EM nLight AIR PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ‡ RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ‡ RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection ‡	MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell ‡ MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell ‡ JOT Wireless room control with "Just One Touch" pairing ‡ JOTVTX15 Wireless occupancy sensor with "Just One Touch" pairing ‡

Standy Mode	**Options**

NOC NOC Occupancy sensor disabled ‡	**BDP Disconnect Plug** EL7L 700 lumen battery pack (Noncompliant with CA T20) ‡ EL14L 1400 lumen battery pack (Noncompliant with CA T20) ‡ EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20) ‡ E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡	CP BGTD PWS1836 PWS1846 PWS1846 PWSLV PWS1856LV	Chicago plenum ‡ Bodine Generator Transfer Device ‡ 6′ pre-wire, 3/8″ diameter, 18 gauge, 1 circuit 6′ pre-wire, 3/8″ diameter, 18 gauge, 2 circuit Two cables: one 6′ pre-wire, 3/8″ diameter, 18 gauge, 2 circuits; one 6′ pre-wire, 3/8″ diameter, 18 gauge‡ 6′ pre-wire, 3/8″ diameter, 18 gauge, 1 circuit w/low voltage wires ‡	GLR Fast-blowing fuse ‡ GMF Slow-blowing fuse ‡ NPLT Narrow pallet RRL_ RELOC®-ready luminaire ‡ LATC Earthquake clip DWAM Anti-Microbial paint IP5X Gasketed diffuser compartment to meet IP5X rating ‡ BAA Buy America(n) Act Compliant

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restictions chart on the next page. Options are sorted alphanumerically.

‡ Option Value Ordering Restrictions

| Option value	Restriction
347	Not available with SLD, EL7L, EL14L, or E10WLCP options.
A	Not available with RB fixture style, consult factory for air flow data.
BGTD	Not available with JOT, JOTVTX15 sensor options or emergency battery options. Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.
Control	Must specify diffuser with trim rings.
CP	Not available with N80, N80EMG, N100, N100EMG, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.
GZ1, GZ10	Not available with any Control or Sensor options except JOT & JOTVTX15
EL7L, EL14L, EL14 LSD, E10WLCP	When using pre-wire option, use PWS1846 or PWS1846 PWSLV. For more information on the EL14LSD, please see the **PSSD2 specification sheet**.
GLR, GMF	Must specify voltage. 120 or 277, with GLR and GMF fusing.
IP5X	Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.
JOT, JOTVTX15	Not available with SLD, nLight, NLTAIR2, NOC, or BGTD options.
Lumens	Approximate lumen output. For high Efficiency, all versions may not achieve 130+ LPW. Refer to photometry on **www.acuitybrands.com.** Air supply/return option, 90 CRI, and versions with integral sensor trim rings may not achieve 130 LPW.
MSD7ADCX, MSDPDT7ADCX	Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
NES7, NESPDT7, NES7ADCX, NESPDT7ADCX	Requires N80, N80EMG, N100, or N100EMG. Only available with EZ1 driver.
NLTAIR2	Must order with nLight Wireless option from Control section. Only available with EZ1 driver.
NOC	Can only be ordered in conjunction with EZ1, NLTAIR2, RES7/RES7PDT. Occupancy sensor disabled at factory but can be re-enabled upon commissioning.
N80EMG, N100EMG	nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
PWS1846 PWSLV, PWS1856LV	Not available with nLIGHT wired network or individual controls
RES7EM, RES7PDTEM, RIOEM	See UL924 Sequence of Operation chart on page 3.
RRL_	For ordering logic consult: **RRL_2013**.
SLD	Not available with any nLight Interface or Control options.

Multiple Diffuser Options

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

Non-Configurable BLT

Non-Configurable BLT								
Stock/MTO	**Catalog Description ***	**UPC**	**Lumens**	**Wattage**	**LPW**	**Color Temperature**	**Voltage**	**Pallet Qty**
Stock	BLT4 40L ADP LP835	00190887466218	4114	33.09	124.31	3500K/82 CRI	120-277	39
	BLT4 40L ADP LP840	00190887465228	4179.68	33.09	126.3	4000K/82 CRI	120-277	39
	BLT4 40L ADP EL14L LP835	00190887466621	4114	33.09	124.31	3500K/82 CRI	120-277	39
	BLT4 40L ADP EL14L LP840	00190887466614	4179.68	33.09	126.3	4000K/82 CRI	120-277	39

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
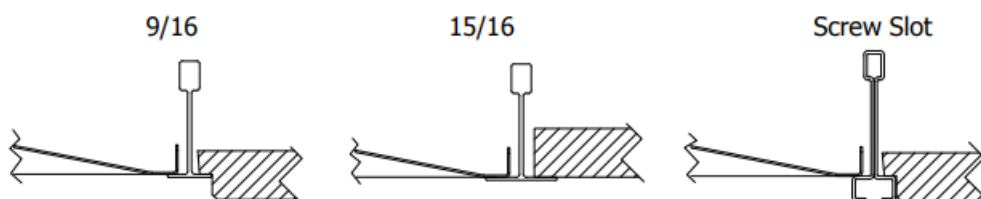
*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4″ x 24-3/4″ (Tolerance is +1/8″, -0″).

UL924 Sequence of Operation

For 90 minutes following any complete AC power interruption >200 ms:

- Digital dimming is commanded to high end trim level.
- Device ignores wireless lighting control commands.

Accessories & Replacement Parts

Accessories: *Order as separate catalog number.*	
DGA14 Drywall grid adapter for 1×4 recessed fixture 1X4SMKSHP PAF Surface Mount Troffer Kit Post Paint 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	

Replacement Parts: *Order as separate catalog number.*		
*249P36	DBLT48 ADP LENS ASSEMBLY	2 ft. replacement lens
*249P3C	DBLT48 SDP LENS ASSEMBLY	2 ft. replacement lens
*249P3H	DBLT48 ADSM LENS ASSEMBLY	2 ft. replacement lens
*249P3L	DBLT48 SDSM LENS ASSEMBLY	2 ft. replacement lens
*239UJR	DBLT48 ADPT LENS ASSEMBLY	2 ft. replacement lens
*239TXC	DBLT48 SDPT LENS ASSEMBLY	2 ft. replacement lens
*239UK6	DBLT48 ADSMT LENS ASSEMBLY	2 ft. replacement lens
*239UK6	DBLT48 SDSMT LENS ASSEMBLY	2 ft. replacement lens
*239TVV	DBLT48 ADPT SENSOR LENS ASSEMBLY	2 ft. replacement lens
*239TXM	DBLT48 SDPT SENSOR LENS ASSEMBLY	2 ft. replacement lens
*239UKG	DBLT48 ADSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens
*239U0K	DBLT48 SDSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens

Emergency Battery Pack Options – Field Installable

| Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at **productsupportemergency@acuitybrands.com** for any Emergency Battery related questions.

JOT Wireless

Sensor Switch JOT Enabled Wireless Solution

Designed with contractors in mind, the Sensor Switch JOT enabled wireless solution offers a straightforward approach to the installation and pairing of lighting fixtures and controls. Absolutely no 0-10V control wires and no mobile apps are needed with JOT enabled products, allowing for lightning speed installation right out of the box.

1. **Power:** Install JOT enabled fixtures and controls as instructed.

2. **Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.

3. **Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

BLT Series

Sensor Switch WSXA JOT

BLT Series with integrated JOT OCC Sensors

Sensor Switch SPODMRA JOT
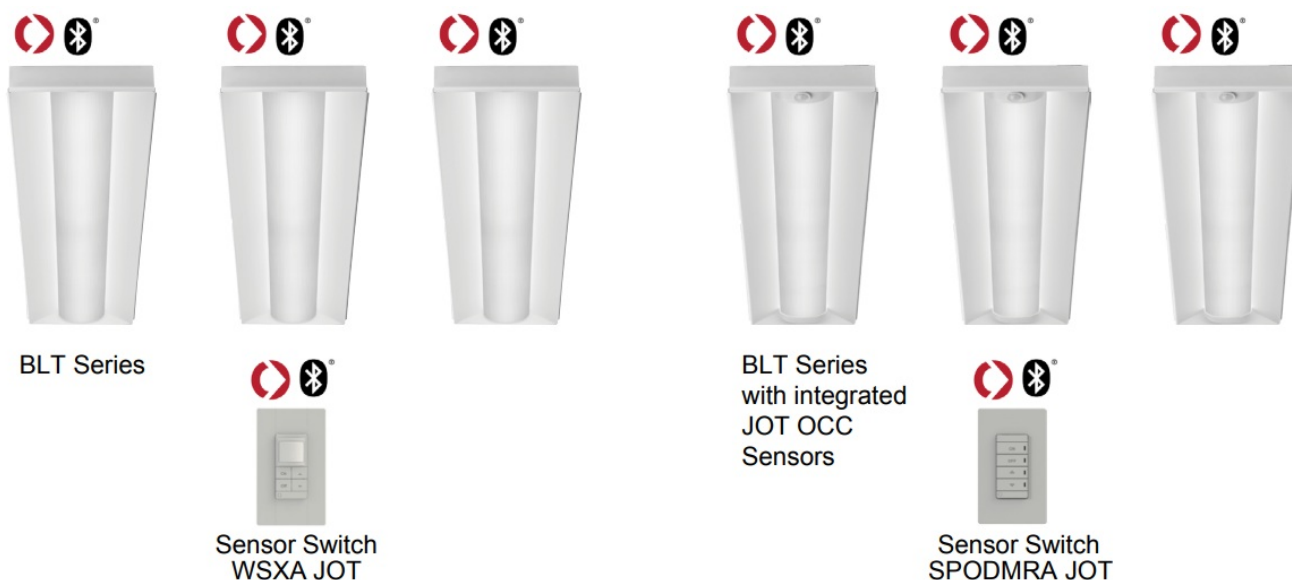
nLight Platform

nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities

nLight Air Wireless

BLT Series

Simple as 1,2,3

nLight AIR rPODBA   Mobile Device

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pa ir the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

nLight Wired Networking

BLT Series

CAT5e

nLight Wired nPODMA

Simple as 1,2,3

1. Install the nLight® Wired fixtures with embedded control
2. Install the nLight Wired wall switch
3. Connect the fixtures using standard CAT5e cables and the devices will automatically discover each other and work (plug and play)

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 (MSD7 Sensor)
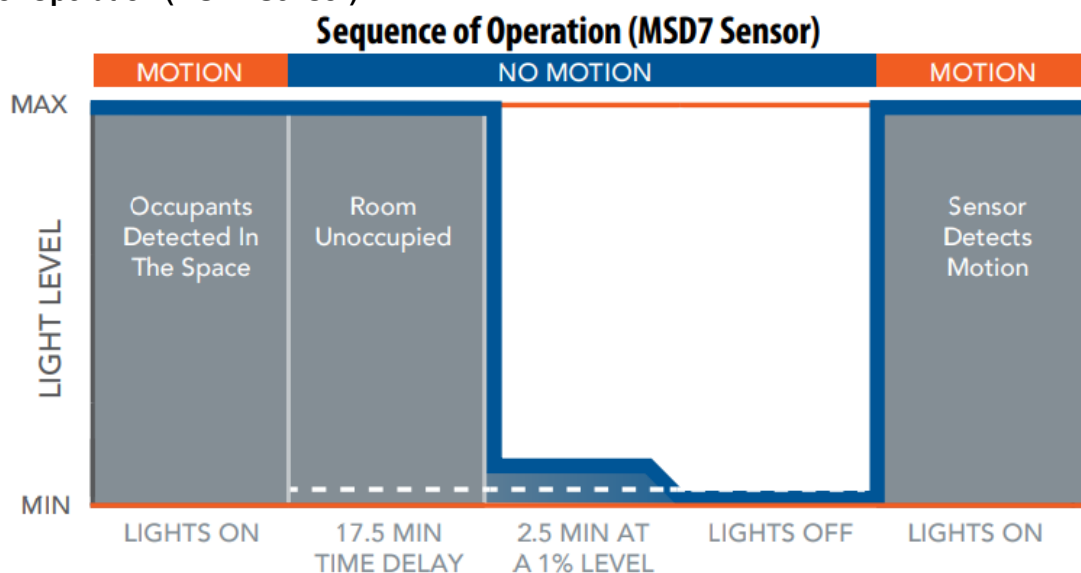
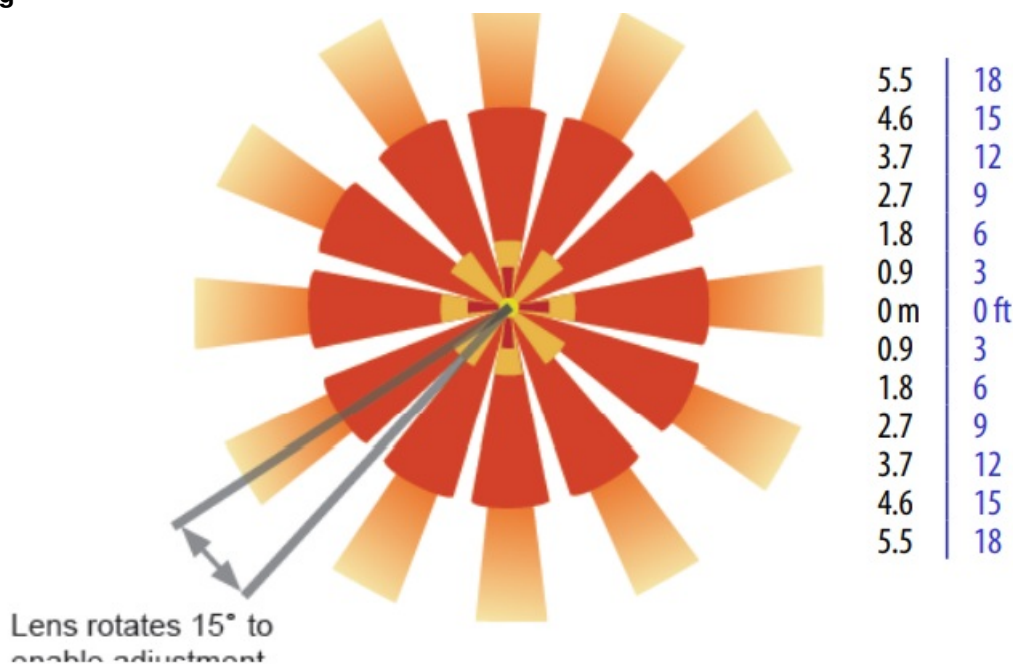*The presetting on the automatic dimming photocell is 5fc.

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

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. The 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.

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 (nES7 and rES7 and Sensor)

MOTION	NO MOTION	MOTION

MAX

LIGHT LEVEL

Occupants Detected In The Space

Room Unoccupied

Sensor Detects Motion

MIN

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 (NES7) and 10fc (RES7).
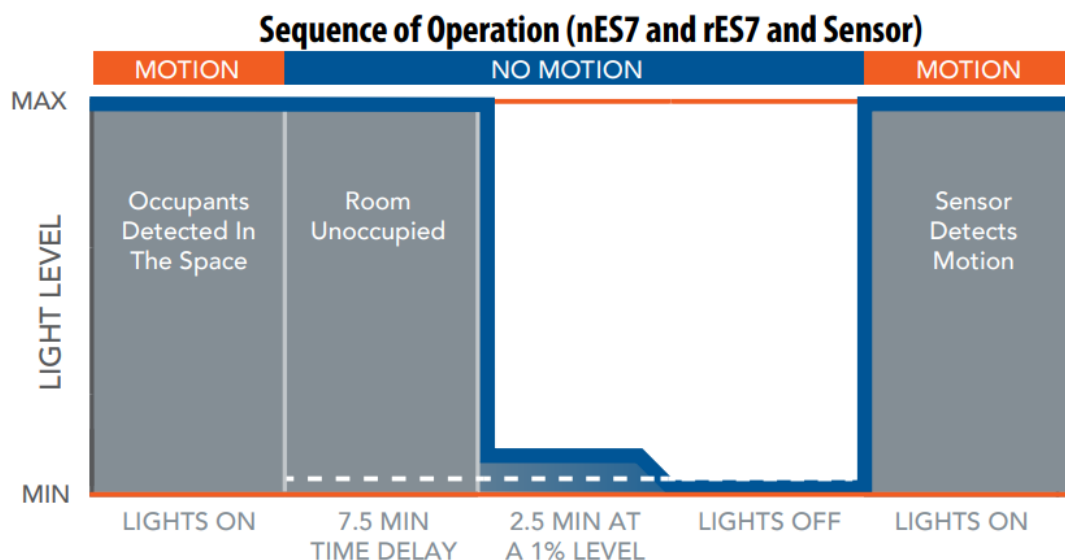
Controls Accessories

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	nPODMA [Color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODMA DX [Color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD TOUCH [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

BLT fixtures with integrated rIO devices complement any small office space. Pair them with an rCMS occupancy sensor and the space now has wireless occupancy sensing and dimming capability. For additional configuration options please consult with Tech Support.

Wall switches	Model number
On/Off single pole	rPODBA [color] G2
On/Off two pole	rPODB A2P [color] G2
On/Off & raise/lower single pole	rPODBA DX [color] G2
On/Off & raise/lower two pole	rPODBA 2P DX [color] G2

rCMS1							Example: RCMS PDT 10 AR G2	
Series / Detection		Power Supply1		Occupancy Detection		Lens (Required)	Operating Mode	Generation
RCMS	nLight AIR occupancy and daylight sensor	[blank] PS150	Power Supply ordered separately Standard 150 mA Power Supply	[blank] PDT	PIR Detection Dual Tech PIR/ Microphonics	10 Large Motion/ Extended Range 360° 9 Small Motion/ Extended Range 360° 6 High Bay 360° Lens	[BLANK] AR None Auxiliary Relay	G2 Generation 2 compatibility

Sensor Switch WSX   nLight WIRED NPOD UNITOUCH   nLight WIRED nPODMA DX   nLight AIR rPODBA   BLT with rIO   rPODBA   RCMS

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

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.
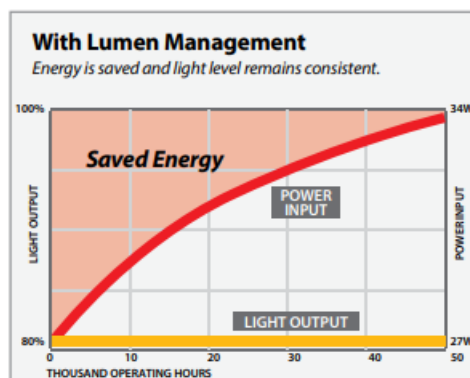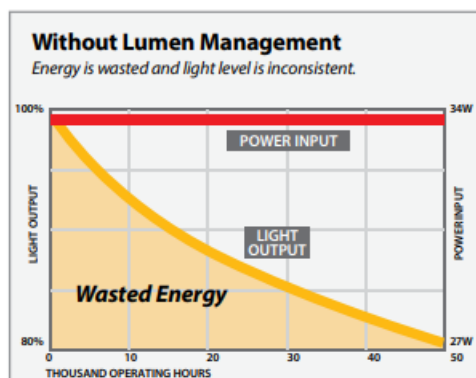
PHOTOMETRICS

BLT4 40L ADP LP835, 4114 delivered lumens, test no. ISF35685P49, tested in accordance to IESNA LM-79

(Top fixture)

Coefficients of Utilization

CP Summary			pf pc pw	80%	70%	50%	Zonal Lumen Summary		
	0°	90		70% 50% 30%	50% 30% 10%	50% 30% 10%	Zone	Lumens	% Lamp	% Fixture

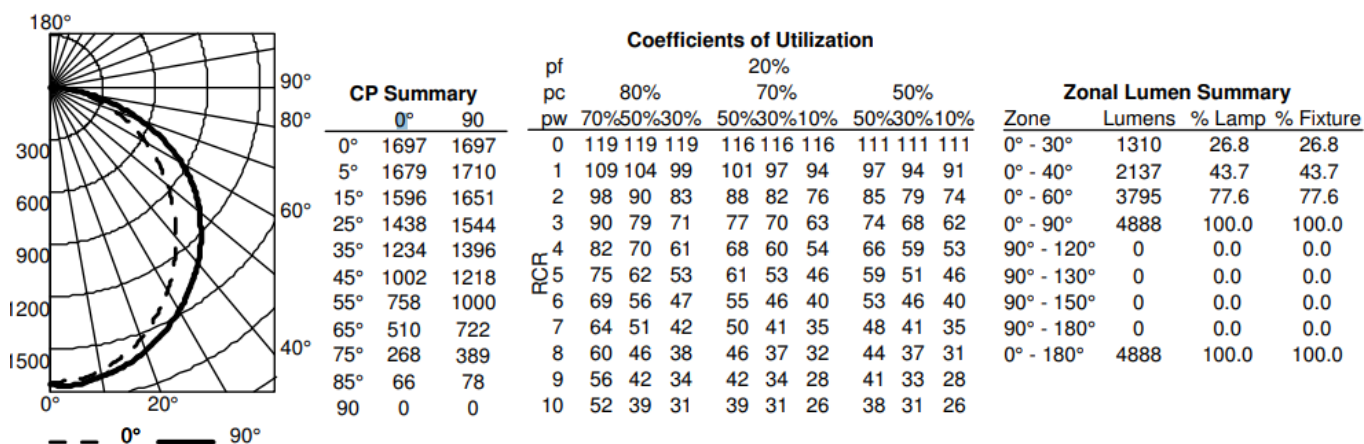|	0°	90	RCR	80% 70%/50%/30%	70% 50%/30%/10%	50% 50%/30%/10%	Zone	Lumens	% Lamp	% Fixture
0°	1429	1429	0	119 119 119	116 116 116	111 111 111	0° - 30°	1103	26.8	26.8
5°	1413	1439	1	109 104 99	101 97 94	97 94 91	0° - 40°	1799	43.7	43.7
15°	1343	1390	2	98 90 83	88 82 76	85 79 74	0° - 60°	3194	77.6	77.6
25°	1211	1300	3	90 79 71	77 70 63	74 68 62	0° - 90°	4114	100.0	100.0
35°	1039	1175	4	82 70 61	68 60 54	66 59 53	90° - 120°	0	0.0	0.0
45°	843	1025	5	75 62 53	61 53 46	59 51 46	90° - 130°	0	0.0	0.0
55°	638	841	6	69 56 47	55 46 40	53 46 40	90° - 150°	0	0.0	0.0
65°	429	608	7	64 51 42	50 41 35	48 41 35	90° - 180°	0	0.0	0.0
75°	226	328	8	60 46 38	46 37 32	44 37 31	0° - 180°	4114	100.0	100.0
85°	55	66	9	56 42 34	42 34 28	41 33 28				
90	0	0	10	52 39 31	39 31 26	38 31 26				

BLT4 48L ADP LP835, 4888 delivered lumens, test no. ISF35685P114, tested in accordance with IESNA LM-79

Coefficients of Utilization

	0°	90	RCR	80% 70%/50%/30%	70% 50%/30%/10%	50% 50%/30%/10%	Zone	Lumens	% Lamp	% Fixture
0°	1697	1697	0	119 119 119	116 116 116	111 111 111	0° - 30°	1310	26.8	26.8
5°	1679	1710	1	109 104 99	101 97 94	97 94 91	0° - 40°	2137	43.7	43.7
15°	1596	1651	2	98 90 83	88 82 76	85 79 74	0° - 60°	3795	77.6	77.6
25°	1438	1544	3	90 79 71	77 70 63	74 68 62	0° - 90°	4888	100.0	100.0
35°	1234	1396	4	82 70 61	68 60 54	66 59 53	90° - 120°	0	0.0	0.0
45°	1002	1218	5	75 62 53	61 53 46	59 51 46	90° - 130°	0	0.0	0.0
55°	758	1000	6	69 56 47	55 46 40	53 46 40	90° - 150°	0	0.0	0.0
65°	510	722	7	64 51 42	50 41 35	48 41 35	90° - 180°	0	0.0	0.0
75°	268	389	8	60 46 38	46 37 32	44 37 31	0° - 180°	4888	100.0	100.0
85°	66	78	9	56 42 34	42 34 28	41 33 28				
90	0	0	10	52 39 31	39 31 26	38 31 26				

Performance Data

Model Number	Lumens	LPW	Watts	DLC Listing	DLC ID
BLT4 15L ADP EZ1 (GZ1, GZ10) LP840[All Options]	1450.79	123.83	11.71	Premium	PITJ7LZR
BLT4 15L ADPT EZ1 (GZ1, GZ10) LP840[All Options]	1429.13	121.98	11.71	standard	PGT9ZM85
BLT4 20L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	1907	124.24	15.34	Premium	P6TRMV97
BLT4 20L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	1937.44	126.22	15.34	Premium	PYGYBGA4
BLT4 20L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	1908.51	124.34	15.34	Premium	P62XJ7B5
BLT4 20L ADPT EZ1 (GZ10) LP835 [All Options]	1878.52	126.92	14.8	Premium	PSDPC339
BLT4 20L ADPT GZ1 LP835 [All Options]	1878.52	122.38	15.34	standard	PCPS6AYF
BLT4 30L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	2918	125.97	23.16	Premium	PFTQCVDN
BLT4 30L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	2964.58	127.98	23.16	Premium	PXYBVAFH

Model	Lumens	LPW	Watts	DLC Listing	DLC ID
BLT4 30L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	2874.42	124.08	23.16	Premium	PQB9V6BJ
BLT4 30L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	2920.31	126.07	23.16	Premium	P8UXM7NX
BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	4114	124.31	33.09	Premium	PMYRQ49V
BLT4 40L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	4179.68	126.3	33.09	Premium	PGGU8V31
BLT4 40L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	4117.26	124.41	33.09	Premium	PUEDT9VY
BLT4 40L ADPT EZ1 (GZ10) LP835 [All Options]	4052.56	124.84	32.46	Premium	P42QKXVC
BLT4 40L ADPT GZ1 LP835 [All Options]	4052.56	122.46	33.09	standard	PI8CCBNK
BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	4888	124.02	39.41	Premium	PYZ4KMD4
BLT4 48L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	4966.03	126	39.41	Premium	PQX799PT
BLT4 48L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	4891.88	124.12	39.41	Premium	PNTGHKEN
BLT4 48L ADPT EZ1 (GZ10) LP835 [All Options]	4815	124.32	38.73	Premium	P22X8T1X
BLT4 48L ADPT GZ1 LP835 [All Options]	4815	122.17	39.41	standard	PJR9QMWQ
BLT4 60L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	6133.38	124.58	49.23	Premium	P2DSW9MV
BLT4 60L ADP EZ1 (GZ10) LP835 [All Options]	6037	124.98	48.3	Premium	PWMC3RXH
BLT4 60L ADP GZ1 LP835 [All Options]	6037	122.62	49.23	standard	PIBQTI45
BLT4 60L ADPT EZ1 (GZ10) LP835 [All Options]	5946.85	123.12	48.3	standard	P7JXFEX8
BLT4 60L ADPT EZ1 (GZ10) LP840 [All Options]	6041.79	125.08	48.3	Premium	PJZS4XAG
BLT4 60L ADPT GZ1 LP835 [All Options]	5946.85	120.79	49.23	standard	P43IPTQT
BLT4 60L ADPT GZ1 LP840 [All Options]	6041.79	122.72	49.23	standard	PBR3M7AA

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					
Model Number	Lumens	LPW	Watts	DLC Listing	DLC ID

BLT4 15LHE ADP EZ1 (GZ1, GZ10) LP835[All Options]	1486	127.29	11.67	Premium	PTAG2QWR
BLT4 15LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	1509.72	129.32	11.67	Premium	PW6HZMN4
BLT4 15LHE ADPT EZ1 (GZ1, GZ10) LP835[All Options]	1463.8	125.39	11.67	Premium	PM80L4KU
BLT4 15LHE ADPT EZ1 (GZ1, GZ10) LP840[All Options]	1487.17	127.39	11.67	Premium	P3SW8CVO
BLT4 20LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	1920	126.59	15.16	Premium	PPE50BKI
BLT4 20LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	1950.65	128.61	15.16	Premium	PNVCY7R2
BLT4 20LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	1891.32	124.7	15.16	Premium	PH4BQPK3
BLT4 20LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	1921.52	126.69	15.16	Premium	PX3ZLUGW
BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	2987	136.62	21.86	Premium	PVOLKMTV
BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	3034.68	138.8	21.86	Premium	PQSG0MWX
BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	2942.39	134.58	21.86	Premium	P0YU2QG4
BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	2989.37	136.73	21.86	Premium	P7IA04ZL
BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	4193	137.85	30.41	Premium	PTFZPNFT
BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	4259.94	140.05	30.41	Premium	PU2IGL4P
BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	4130.38	135.79	30.41	Premium	PHHEA92E
BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	4196.32	137.96	30.41	Premium	PPVT5JFT
BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	4667	133.48	34.96	Premium	PJT47YU5
BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	4741.5	135.61	34.96	Premium	PX9KVBY3
BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	4597.3	131.49	34.96	Premium	PBQR558K
BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP840[All Options]	4670.7	133.59	34.96	Premium	PRTND692
BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	5914	130.91	45.17	Premium	PD35F85D

BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	6008.41	133	45.17	Premium	PYKY93GZ
BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	5825.68	128.95	45.17	Premium	PM297Q4P
BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	5918.69	131.01	45.17	Premium	PSB3FUK4

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COMMERCIAL INDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378)
www.lithonia.com

Documents / Resources

LITHONIA LIGHTING BLT4 BLT Best In Value Low Profile LED Luminaire [pdf] Owner's Manual
BLT4 BLT Best In Value Low Profile LED Luminaire, BLT4, BLT Best In Value Low Profile LED Luminaire, Low Profile LED Luminaire, LED Luminaire, Luminaire

References

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