

FEATURES & SPECIFICATIONS

INTENDED USE — The BLTR Best-Value Low Profile LED Relight Assembly is a cost effective solution for renovating existing fluorescent troffer and parabolic fixtures while providing upgraded aesthetics and outstanding performance. The BLTR's popular center basket design offers a clean, versatile style, and volumetric distribution. The wide range of lumen packages and control and driver options make the BLTR a great choice for many applications including offices, schools, hospitals, retail spaces and other general lighting applications.

CONSTRUCTION — Universal end brackets are constructed of 22-gauge powder-painted steel and are secured to the host fixture with provided TEKS™ screws. The driver and light engine assembly is integrated in the BLTR door assembly making this an extremely "simple", time saving, relight solution. The door frame and reflector assembly is made of cold-rolled steel and is painted after fabrication with a matte white powder paint for improved aesthetics and increased light diffusion. Diffuser trim rings provide an attractive mounting for integral sensors as well as adding a decorative element to the luminaire aesthetics.

LED boards and driver are accessible from below.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available – curved and square designs with linear prisms or a smooth frosted finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

Non-Configurable BLTR Relight: Generic 0-10 volt dimming driver. Dims to 10%

Configurable BLTR Relight: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. 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.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, nLight AIR RIO, RES7 occupancy sensors and photo controls. Simply connect all the nLight enabled control devices and the BLTR Relight assembly 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. Driver disconnect provided where required to comply with US and Canadian codes.

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SENSOR — Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPD7ADCX ((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.

INSTALLATION — After existing fluorescent components are removed from the host housing, universal end brackets are secured in place with TEKS™ screws. The BLTR's integrated driver and light engine door assembly can then be hinged to the universal end brackets and will hang in place for completion of assembly plug-in wiring. Rotate the doorframe assembly closed and pivot the cam latches to secure the doorframe in place. LED boards include plug-in connectors for easy replacement or servicing. Suitable for damp location installations. Damp location not available with sensor versions.

LISTINGS — UL/CUL Listed for use in fluorescent light fixtures. Installing Relight assemblies per instructions will not impact existing fixture UL listing. Tested to LM80 standards. 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.

Catalog Number
Notes
Type

2BLTR Series LED Relight

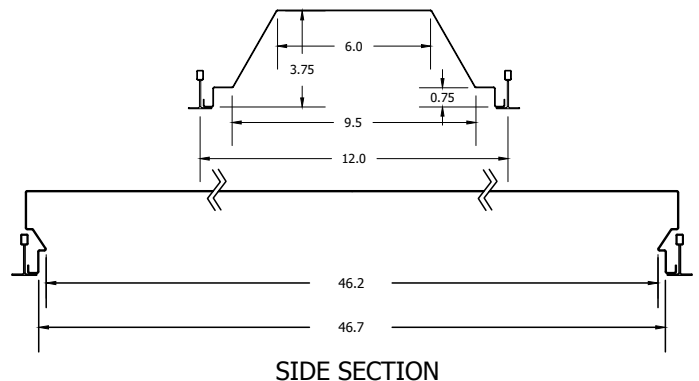
BLTR

1' x 4' Relight
LED



Fit Compatibility:

The BLTR Relight Assembly was designed to upgrade recessed 1x4 fixtures, including most parabolic and lensed troffers from all major manufacturers. Dimensional requirements are below, but Lithonia Lighting recommends a trial installation prior to purchasing project quantities.



SIDE SECTION

A+ Capable Luminaire

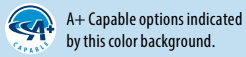
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- 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

BLT4R Volumetric Recessed Lighting 1'x4' Relight



ORDERING INFORMATION

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

Example: BLT4R 30L ADP EZ1 LP835

BLT4R	Air Function	Lumens ²	Diffuser	Voltage	Driver	Color temperature
BLT4R 1X4 BLTR	(blank) Static (white end brackets for troffers)	Standard efficiency (>100 LPW)	ADP Curved, linear prisms	(blank) MVOLT	EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP830 82CRI, 3000 K
	A Air supply/ return or to maintain black reveal (black end brackets for parabolics) ¹	20L 2000 30L 3000 40L 4000 48L 4800 60L 6000	High efficiency ³ (>130 LPW) 20LHE 2000 30LHE 3000 40LHE 4000 48LHE 4800 60LHE 6000	120 120V 277 277V 347 347V ⁴	GZ1 Dims to 1% (0-10V dimming) ⁵ GZ10 Dims to 10% (0-10V dimming) ⁵	LP835 82CRI, 3500 K LP840 82CRI, 4000 K LP850 82CRI, 5000 K LP930 90CRI, 3000K LP935 90CRI, 3500K
	F Flanged Brackets		Diffusers w/ trim rings ADPT Curved, linear prisms ADSMT Curved, smooth SDPT Square, linear prisms SDSMT Square, smooth		SLD Step-level dimming ⁶ EOHN On/Off (Non-dim)	LP940 90CRI, 4000K LP950 90CRI, 5000K

nLight Interface	Control ⁹	Options
nLight Wired (blank) no nLight [®] interface	nLight Wired (blank) No sensor control	
N80 nLight with 80% lumen management	NES7 nLight™ nES 7 PIR integral occupancy sensor ¹⁰	EL7L 700 lumen battery pack ¹²
N80EMG nLight with 80% lumen management For use with generator supply EM power ⁷	NESPD7 nLight™ nES PDT 7 dual technology integral occupancy control ¹⁰	EL14L 1400 lumen battery pack ¹³
N100 nLight without lumen management	NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ¹⁰	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS
N100EMG nLight without lumen management For use with generator supply EM power ⁷	NESPD7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ¹⁰	BGTD Bodine Generator Transfer Device ¹⁴
nLight Wireless (blank) no nLight [®] interface	nLight Wireless	GLR Fast-blowing fuse ¹⁵
NLTAIR2 nLight AIR Generation 2 enabled ⁸	RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control	GMF Slow-blowing fuse ¹⁵
	RES7PDT nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell for Zone Control	NPLT Narrow pallet
	RIO nLight AIR radio module without sensor	FAO Field adjustable output ¹⁶
		USPOM US Point of Manufacture

Accessories next page

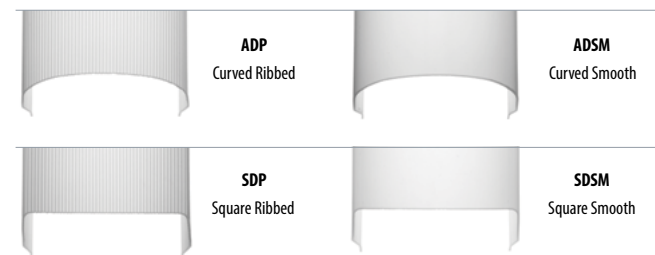
Non-Configurable BLT								
Stock	Catalog Description*	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	BLT4R 40L ADP LP835	190887551013	4072	33	123	3500K/80 CRI	120-277	30
	BLT4R 40L ADP LP840	190887551082	4076	33	123	4000K/80 CRI	120-277	30

* Dims to 10%

Notes

- Consult factory for airflow data.
- Approximate lumen output.
- All versions may not achieve 130+ LPW. Refer to photometry on www.acuitybrands.com.
- Not available with EL7L or EL14L battery packs.
- GZ1, GZ10 not available with any Control or Sensor options.
- Not available with N80, N80EMG, N100, N100EMG, NLTAIR2, or occupancy control.
- nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- Must order with RES7, RES7PDT, or RIO sensor. Only available with EZ1 driver.
- Must specify diffuser with trim rings. See sensor options on page 4.
- Requires N80, N80EMG, N100, or N100EMG.
- Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate. Not available with Controls options.
- Not available in 60L or 60LHE.
- Not available in 48L, 60L, 48LHE, or 60LHE.
- Requires BSE labeling. Consult factory for options.
- Must specify voltage, 120 or 277 with GLR & GMF fusing.
- Consult factory.

Multiple Diffuser Options



BLT4R Volumetric Recessed Lighting 1'x4' Relight

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

Application Guide

BLT4R — Typically used for lensed troffer installations. Assembly contains white end brackets and is supplied with white trim strips for use in closing gaps down fixture sides (installer's choice - not required).

**Note: This kit will fit in Lithonia's Avante non-air fixture.*



BLT4R A — Typically used for parabolic installations with black reveal. Assembly contains black end brackets to match black reveal around host housing. Does not interfere with host housing air supply/return if present (along fixture sides)..



rCMS ¹		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 PS 150 Standard 150 mA Power Supply	[blank] PIR Detection PDT ² Dual Tech PIR/Microphonics	10 Large Motion/ Extended Range 360° 9 Small Motion/ Extended Range 360° 6 High Bay 360° Lens	[BLANK] None AR Auxiliary Relay	G2 Generation 2 compatibility		

Notes

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



BLT4R Volumetric Recessed Lighting 1'x4' Relight

Replacement Parts: *Order as separate catalog number.*

DBLTR48 ADP LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 SDP LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 ADSM LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 SDSM LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 ADPT LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 SDPT LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 ADSMT LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 SDSMT LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 ADPT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
DBLTR48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
U10528A	4 ft. replacement troffer trim strip

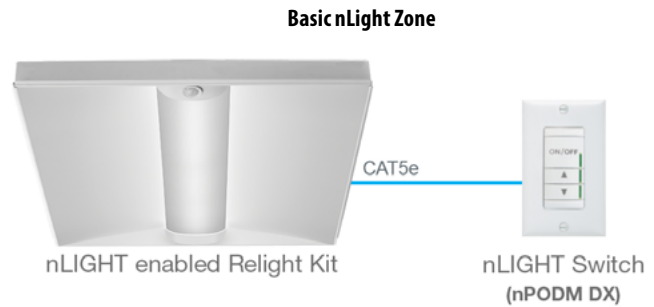
BLT4R Volumetric Recessed Lighting 1'x4' Relight

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.

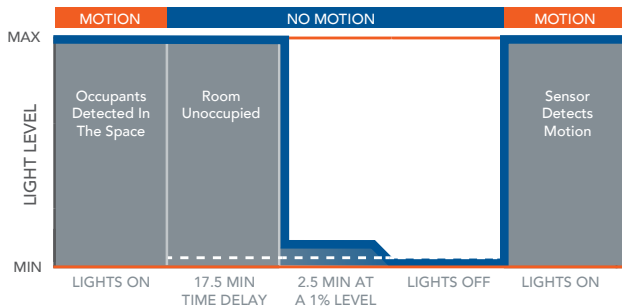


nLight Wired Networking

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

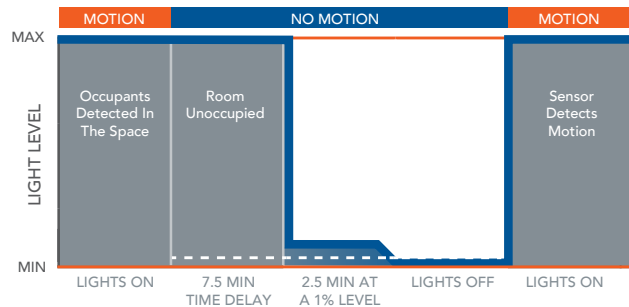
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

Sequence of Operation



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

Sequence of Operation



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

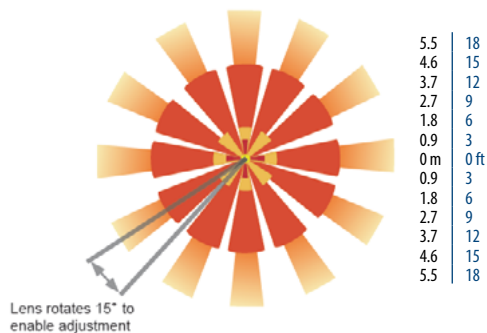
Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. nLight AIR is available with or without an integral sensor. The integrated rES 7 or RES7PDT smart sensor is part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.

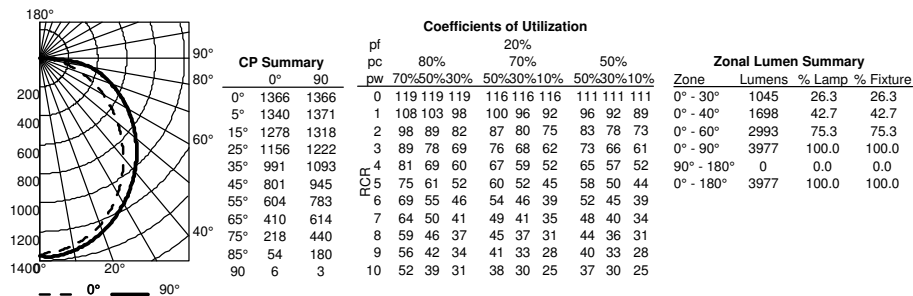
9 FT Mounting



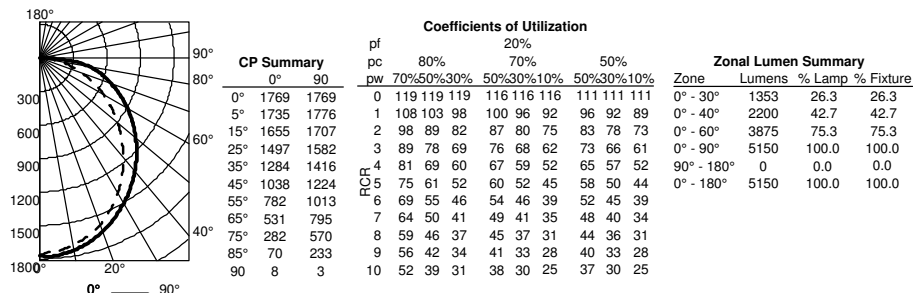
BLT4R Volumetric Recessed Lighting 1'x4' Relight

PHOTOMETRICS

BLT4R 40L ADP LP835, 3975 delivered lumens, test no. LTL28918P441, tested in accordance to IESNA LM-79



BLT4R 48L ADP LP835, 5148 delivered lumens, test no. LTL28918P445, tested in accordance to IESNA LM-79



Performance Data			
Lumen Package	Lumens	Input Watts	LPW
20L ADP LP830	1824	15	123
20L ADP LP835	1888	15	128
20L ADP LP840	1918	15	130
20L ADP LP850	1973	15	133
30L ADP LP830	2790	23	123
30L ADP LP835	2889	23	128
30L ADP LP840	2935	23	130
30L ADP LP850	3019	23	133
40L ADP LP830	3934	32	121
40L ADP LP835	4073	32	125
40L ADP LP840	4138	32	127
40L ADP LP850	4256	32	131
48L ADP LP830	4674	39	121
48L ADP LP835	4839	39	125
48L ADP LP840	4916	39	127
48L ADP LP850	5057	39	131
60L ADP LP830	5773	48	120
60L ADP LP835	5977	48	124
60L ADP LP840	6072	48	126
60L ADP LP850	6246	48	129

HE Performance Data			
Lumen Package	Lumens	Input Watts	LPW
20LHE ADP LP830	1836	15	126
20LHE ADP LP835	1901	15	131
20LHE ADP LP840	1931	15	133
20LHE ADP LP850	1986	15	137
30LHE ADP LP830	2856	21	134
30LHE ADP LP835	2957	21	139
30LHE ADP LP840	3004	21	141
30LHE ADP LP850	3090	21	145
40LHE ADP LP830	4009	30	135
40LHE ADP LP835	4151	30	140
40LHE ADP LP840	4217	30	142
40LHE ADP LP850	4338	30	146
48LHE ADP LP830	4463	34	130
48LHE ADP LP835	4620	34	135
48LHE ADP LP840	4694	34	137
48LHE ADP LP850	4828	34	141
60LHE ADP LP830	5655	44	129
60LHE ADP LP835	5855	44	133
60LHE ADP LP840	5948	44	135
60LHE ADP LP850	6118	44	139