LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

BLT Series LED

2BLT Tunable White

2' x 2'
LED

eldoLED nLIGHT

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 (2-9/16") also makes it an excellent choice for renovation projects.

BLT Tunable White is perfect in classrooms and educational settings as it allows the light color temperature to be adjusted to the optimal light level for student tasks such as reading or test taking.

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. Injection molded diffuser light traps add a finished look to the diffuser ends and help seal the diffuser to the housing end plates. Optional diffuser trim rings provide an attractive mounting for integral sensors as well as adding a decorative element to the luminaire aesthetics.

LED boards are accessible from below; driver is 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. 70% LED lumen maintenance at 60,000 hours (L70/60,000).

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Integrated nLight®controls make each luminaire addressable — allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the BLT luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Driver disconnect provided where required to comply with US and Canadian codes.

Mainstream Dynamic Tunable White with nTune Technology: Tunable white nTune™ is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K-5000K. Refer to the Programming User's Guide for instructions on customizing to your application with SensorView™.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 2 for the nLight sensor options.

INSTALLATION — The BLT's low profile design of only 2-9/16" 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.

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: 23-3/4 (60.3)

Width: 23-3/4 (60.3)

Depth: 2-9/16 (6.5)

All dimensions are inches (centimeters) unless otherwise specified.

Mulitple Diffuser Options

ADP
Curved Ribbed

ADSM
Curved Smooth

SDP
Square Ribbed

SDSM
Square Smooth

2BLT Tunable White Volumetric Recessed Lighting 2'x2'

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

Example: 2BLT2 TUWH PROR 40L ADP NLT

2BLT2					
Series	**Dynamic feature**	**Dynamic range**	**Lumens[1]**	**Diffuser**	**Voltage**
2BLT2 2X2 BLT	TUWH Tunable white	PROR Productivity range (3000-5000K)	20L 2000 33L 3300 40L 4000	ADP Curved, linear prisms ADSM Curved, smooth SDP Square, linear prisms SDSM Square, smooth **Diffusers w/ trim rings** ADPT Curved, linear prisms ADSMT Curved, smooth SDPT Square, linear prisms SDSMT Square, smooth	(blank) MVOLT 120 120 277 277 347 347[2]

Control interface type	Occupancy control[4]	Options
NLT nLight nTune interface[3]	(blank) No sensor control **nLight Wired Networking** NES7 nLight™ nES 7 PIR integral occupancy sensor NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control 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	EL7L 700 lumen battery pack[5] EL14L 1400 lumen battery pack[5] BGTD Bodine Generator Transfer Device[6] PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit GLR Fast-blowing fuse[7] GMF Slow-blowing fuse[7] NPLT Narrow pallet RRL_ RELOC®-ready luminaire[8] LATC Earthquake clip DWAM Anti-Microbial paint

Accessories: *Order as separate catalog number.*

DGA22	Drywall grid adapter for 2x2 recessed fixture

nLight® 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	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
		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
Power Supply			
nLight Power Supply	nPS 80		

Replacement parts: *Order as separate catalog number.*

*237LJR	DBLT24 ADP LENS ASSEMBLY	2 ft. replacement lens (light traps included)
*237LKH	DBLT24 SDP LENS ASSEMBLY	2 ft. replacement lens (light traps included)
*237LKY	DBLT24 ADSM LENS ASSEMBLY	2 ft. replacement lens (light traps included)
*237LL7	DBLT24 SDSM LENS ASSEMBLY	2 ft. replacement lens (light traps included)
*237LT1	DBLT24 ADPT LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237LT3	DBLT24 SDPT LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237LT5	DBLT24 ADSMT LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237LT7	DBLT24 SDSMT LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237LT9	DBLT24 ADPT SENSOR LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237M4Y	DBLT24 SDPT SENSOR LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237M57	DBLT24 ADSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens (trims included)
*237M5H	DBLT24 SDSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens (trims included)

Notes
1. Approximate lumen output.
2. Not available with EL7L or EL14L battery packs.
3. Requires power from nLight network bridge or nPS 80.
4. Must specify diffuser with trim rings. See sensor options in ordering information.
5. When using pre-wire option, use PWS1846.
6. Requires BSE labeling. Consult factory for options.
7. Must specify voltage, 120 or 277 with GLR & GMF fusing.
8. For ordering logic consult: RRL_2013.

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

2BLT Tunable White Volumetric Recessed Lighting 2'x2'

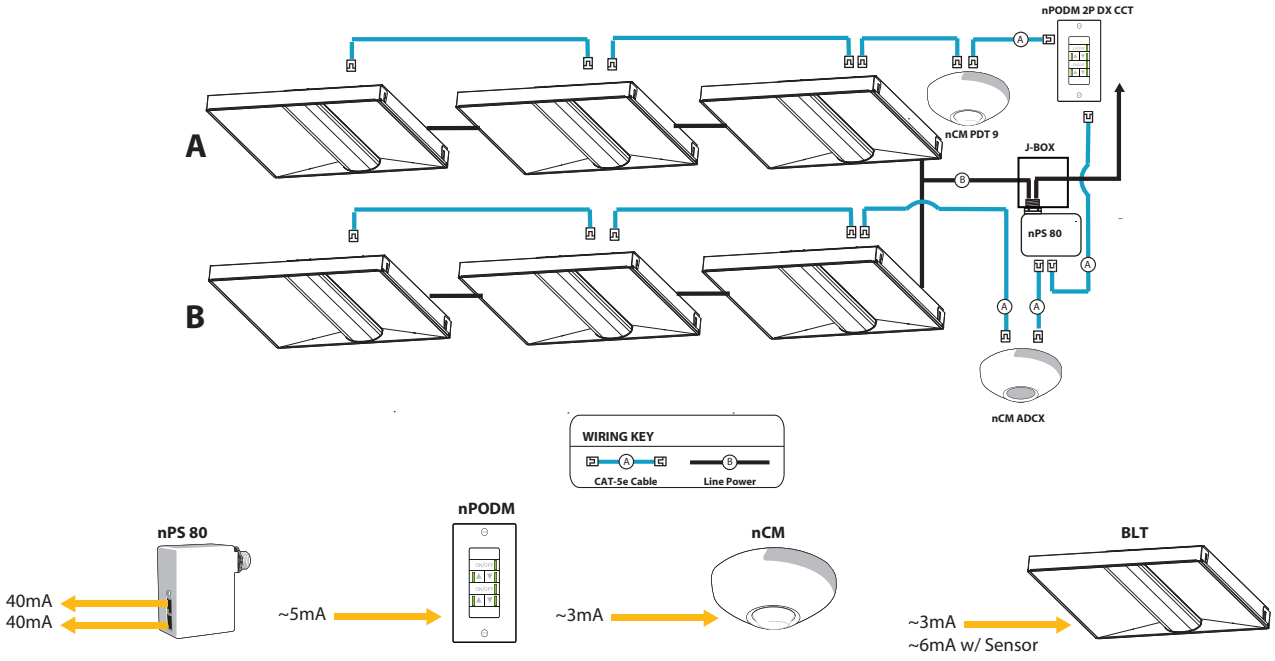
Tunable White Wall Pods

nPODM 2P DX CCT

nPODM 4S DX EDUTW

nPODM 4S EDUTW

Typical nLight network layout with power supply, sensor and wallpod.



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2BLT Tunable White Volumetric Recessed Lighting 2'x2'

Sensor Options*				
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking
		PIR	PDT	
NES7		X		X
NES7ADCX	X	X		X
NESPDT7			X	X
NESPDT7ADCX	X		X	X

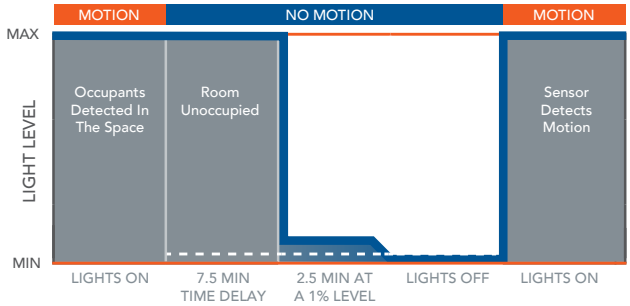
* Requires network to be present for sensors to operate

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

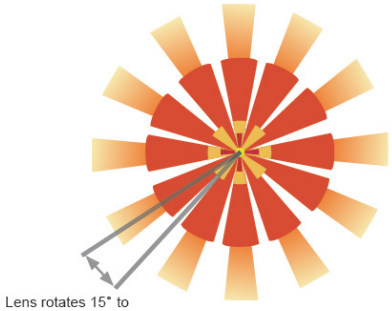


*The presetting on the automatic dimming photocell is 5fc.

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



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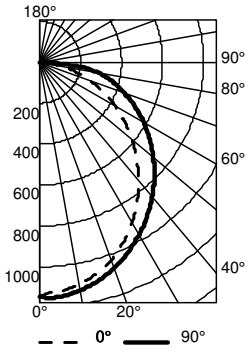
2BLT Tunable White Volumetric Recessed Lighting 2'x2'

PHOTOMETRICS

2BLT2 TUWH PROR 33L ADP LP830, 3330 delivered lumens, test no. LTL28918P243, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	1145	1145
5°	1122	1149
15°	1071	1105
25°	969	1023
35°	831	916
45°	671	792
55°	506	656
65°	344	514
75°	182	369
85°	45	151
90	5	2

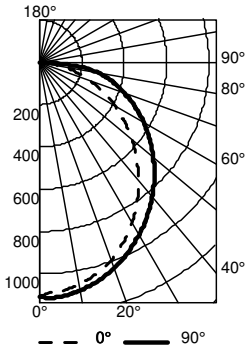
Coefficients of Utilization

	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	103	98	100	96	92	96	92	89		
	2	98	89	82	87	80	75	83	78	73		
	3	89	78	69	76	68	62	73	66	61		
	4	81	69	60	67	59	52	65	57	52		
	5	75	61	52	60	52	45	58	50	44		
	6	69	55	46	54	46	39	52	45	39		
	7	64	50	41	49	41	35	48	40	34		
	8	59	46	37	45	37	31	44	36	31		
	9	56	42	34	41	33	28	40	33	28		
	10	52	39	31	38	30	25	37	30	25		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	875	26.3	26.3
0° - 40°	1423	42.7	42.7
0° - 60°	2507	75.3	75.3
0° - 90°	3331	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3331	100.0	100.0

2BLT2 TUWH PROR 33L ADP LP840, 3223 delivered lumens, test no. LTL28918P246, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	1108	1108
5°	1086	1112
15°	1036	1069
25°	937	990
35°	804	886
45°	650	766
55°	490	634
65°	333	498
75°	176	357
85°	44	146
90	5	2

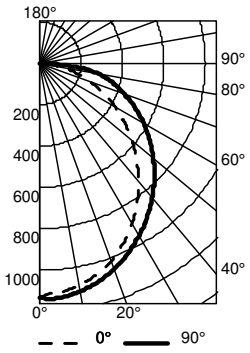
Coefficients of Utilization

	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	103	98	100	96	92	96	92	89		
	2	98	89	82	87	80	75	83	78	73		
	3	89	78	69	76	68	62	73	66	61		
	4	81	69	60	67	59	52	65	57	52		
	5	75	61	52	60	52	45	58	50	44		
	6	69	55	46	54	46	39	52	45	39		
	7	64	50	41	49	41	35	48	40	34		
	8	59	46	37	45	37	31	44	36	31		
	9	56	42	34	41	33	28	40	33	28		
	10	52	39	31	38	30	25	37	30	25		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	847	26.3	26.3
0° - 40°	1377	42.7	42.7
0° - 60°	2426	75.3	75.3
0° - 90°	3224	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3224	100.0	100.0

2BLT2 TUWH PROR 33L ADP LP850, 3292 delivered lumens, test no. LTL28918P249, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	1131	1131
5°	1109	1136
15°	1058	1092
25°	957	1012
35°	821	905
45°	664	782
55°	500	648
65°	340	508
75°	180	365
85°	45	149
90	5	2

Coefficients of Utilization

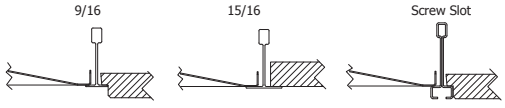
	pf			20%								
	pc	80%			70%			50%				
RCR	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%		
	0	119	119	119	116	116	116	111	111	111		
	1	108	103	98	100	96	92	96	92	89		
	2	98	89	82	87	80	75	83	78	73		
	3	89	78	69	76	68	62	73	66	61		
	4	81	69	60	67	59	52	65	57	52		
	5	75	61	52	60	52	45	58	50	44		
	6	69	55	46	54	46	39	52	45	39		
	7	64	50	41	49	41	35	48	40	34		
	8	59	46	37	45	37	31	44	36	31		
	9	56	42	34	41	33	28	40	33	28		
	10	52	39	31	38	30	25	37	30	25		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	865	26.3	26.3
0° - 40°	1407	42.7	42.7
0° - 60°	2478	75.3	75.3
0° - 90°	3293	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3293	100.0	100.0

Performance Data			
Lumen Package	**Lumens**	**Input Watts**	**LPW**
20L ADP LP830	2067	20	106
20L ADP LP840	2107	20	108
20L ADP LP850	2152	20	110
33L ADP LP830	3330	34	98
33L ADP LP840	3223	34	95
33L ADP LP850	3292	34	97
40L ADP LP830	4142	39	107
40L ADP LP840	4008	39	103
40L ADP LP850	4094	39	105

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



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

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