

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.

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

The reflector is finished with a high reflective matte white powder paint for improved aesthetics and increased light diffusion.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability. 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 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).

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-5e cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Mainstream Dynamic Tunable White with nTune Technology: This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5e 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.

Integrated Sensor (nLight Wired Networking): 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 seclic activities or to complement colors or materials within a visual environment. nTune[™] allows color temperature settings through the Productivity Range of 3000K-5000K and the Rhythm Range of 2700K to 6500K. Refer to the Programming User's Guide for instructions on customizing to your application with SensorView.

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.

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: <u>www.acuitybrands.com/support/warranty/</u> <u>terms-and-conditions</u>

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

Туре

BLT Series LED

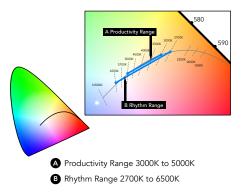
2BLT4 Tunable White





Tunable White GPHD

- Gamut: One dimensional Warm-Cool
- Path: Direct 3000K to 5000K (Productivity Range) or 2700K to 6500K (Rhythm Range)
- Handle: Two Natural Language Handles: Intensity and CCT
- Data: nLight with nTune technology for both handles of control



Standard Capable Luminaire

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

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] 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 Tunable White 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.

Example: 2BLT4 TUWH PROR 40L ADP NLT

2BLT4						
Series	Dynamic feature	Dynamic range	Lumens ²	Diffuser	Voltage	Control interface type
2BLT4 2x4 BLT	TUWH Tunable white	PROR Productivity range (3000-5000K) RHYR Rhythm range (2700-6500K) ¹	30L 3000 40L 4000 48L 4800 60L 6000	ADPCurved, linear prismsADSMCurved, smoothSDPSquare, linear prismsSDSMSquare, smoothDiffusers w/ trim ringsADPTCurved, linear prismsADSMTCurved, smoothSDPTSquare, linear prismsSDSMTSquare, smooth	(blank) MVOLT 120 120 277 277 347 347 ³	NLT nLight nTune interface ⁴ NLTEMG nLight nTune Interface. For use with generator supply EM power.
Occupancy control ⁵		Opt	tions			

Occupancy cont	rol ^s	Options	Options							
	No sensor control	BDP	Disconnect Plug	GMF	Slow-blowing fuse ⁸					
	red Networking	El7L	700 lumen battery pack (Noncompliant with CA T20) ⁶	NPLT	Narrow pallet					
NES7 NESPDT7 NES7ADCX	nLight [™] nES 7 PIR integral occupancy sensor nLight [™] nES PDT 7 dual technology integral occupancy control nLight [™] nES 7 ADCX PIR integral occupancy sensor with	EL14L E10WLCP BGTD	1400 lumen battery pack (Noncompliant with CA T20) ⁶ EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ⁶ Bodine Generator Transfer Device ⁷	RRL_ LATC DWAM	RELOC®-ready luminaire ⁹ Earthquake clip Anti-Microbial paint					
NESPDT7ADCX	automatic dimming photocell	PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	90CRI	90 CRI					
	nLight™ nES PDT 7 dual technology integral occupancy	PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	JP14	Job Packaging ¹⁰					
	sensor with automatic dimming photocell	GLR	Fast-blowing fuse ⁸	JP18	Job Packaging ¹¹					

Accessories: Order as separate catalog number.								
DGA24	Drywall grid adapter for 2x4 recessed fixture							
2X4SMKSHP PAF	Surface Mount Troffer Kit Post Paint							
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1							
RK8BDP 3P U RK8BDP 2P J10	Disconnect Plug (BDP), 3 Pole, Package of 1 Disconnect Plug (BDP), 2 Pole, Package of 10							
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40							

WallPod stations	Model number	Occupancy sensors	Model number
0n/0ff	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 RJ
		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	CAT-5e 10FT J1
		30' cable	CAT-5e 30FT J1
Power Supply			
nLight Power Supply	nPS 80		

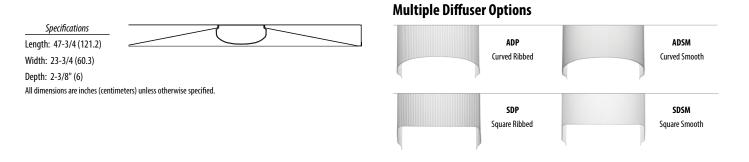
Replacemen	it Parts: Order as separate catalog number.	
*237LKE	2DBLT48 ADP LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LKL	2DBLT48 SDP LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LL2	2DBLT48 ADSM LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LLA	2DBLT48 SDSM LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LT2	2DBLT48 ADPT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LT4	2DBLT48 SDPT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LT6	2DBLT48 ADSMT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LT8	2DBLT48 SDSMT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LTA	2DBLT48 ADPT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237M52	2DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237M5A	2DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237M5L	2DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)

🜔 LITHONIA LIGHTING*

Notes

- 1 Only RHYR versions are DLC listed.
- 2 Approximate lumen output.
- 3 Not available with EL7L, EL14L, or E10WLCP battery packs.
- 4 Requires power from nLight network bridge or nPS 80.
- 5 Must specify diffuser with trims rings. See sensor options in ordering information.
- 6 When using pre-wire option, use PWS1846.
- 7 Must specify voltage. Requires BSE labeling. Consult factory for options.
- 8 Must specify voltage, 120 or 277 with GLR & GMF fusing.
- 9 For ordering logic consult: <u>RRL_2013</u>.
- 10 Only available with controls options: NES7, NESPDT7, NES7ADCX or NESPDT7ADCX.
- 11 Not available with controls options: NES7, NESPDT7, NES7ADCX or NESPDT7ADCX.





Tunable White Wall Pods



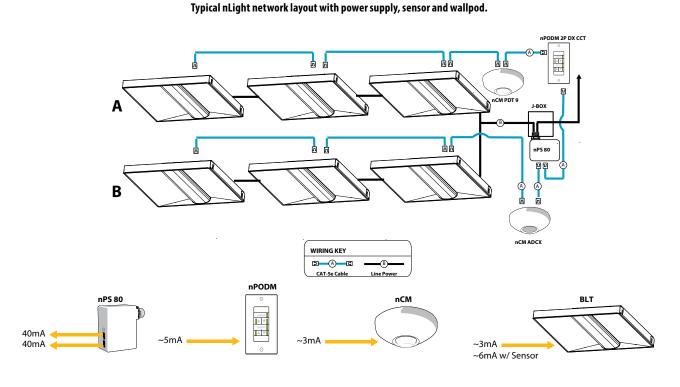
nPODM 2P DX CCT

CENL READ TEST ENROY ON A OFF V

nPODM 4S DX EDUTW



nPODM 4S EDUTW



🚺 LITHONIA LIGHTING°



© 2015-2024 Acuity Brands Lighting, Inc. All rights reserved. Rev. 02/13/24

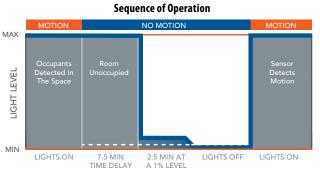
Sensor Options									
0-4-	Automatic	Occupan	cy Sensing	nLight Wired Networking					
Option	Dimming Photocell	PIR	PDT						
NES7		Х		X					
NES7ADCX	Х	Х		X					
NESPDT7			Х	X					
NESPDT7ADCX	Х		Х	Х					

* 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.

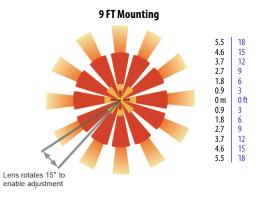
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an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



*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

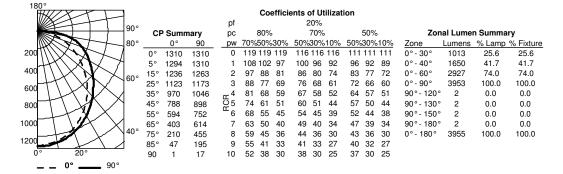




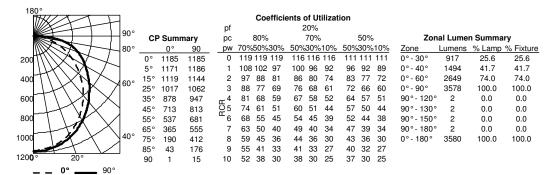


PHOTOMETRICS

2BLT4 TUWH RHYR 40L ADP @2700K, 82CRI,



2BLT4 TUWH RHYR 40L ADP @4500K, 82CRI,



2BLT4 TUWH RHYR 40L ADP @6500K, 82CRI,

18 <u>0°</u>		_						~											
		-						COE	effici	ents o	of Ut	ilizat	ion						
	111	90°				pf				2	0%								
		190	CF	Sumr	nary	рс		80%			70%			50%		Zon	al Lumei	n Summa	ry
		_ 80°		0°	90	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	Zone	Lumens	% Lamp	% Fixture
200			0°	1275	1275	0	119	119	119	116	116	116	111	111	111	0°-30°	986	25.6	25.6
ЦНY	VN/	1	5°	1259	1275	1	108	102	97	100	96	92	96	92	89	0°-40°	1606	41.7	41.7
400	$\times W \searrow$	60°	15°	1203	1230	2	97	88	81	86	80	74	83	77	72	0°-60°	2848	74.0	74.0
cont t		100	25°	1093	1142	3	88	77	69	76	68	61	72	66	60	0°-90°	3847	100.0	100.0
600	$\times \mathbf{N} \wedge$		35°	944	1018	m 4	81	68	59	67	58	52	64	57	51	90°-120°	2	0.0	0.0
800	$\langle \langle \mathcal{A} \rangle \rangle$	4	45°	767	874	<u>ت</u> 25	74	61	51	60	51	44	57	50	44	90°-130°	2	0.0	0.0
000	X X X		55°	578	732	⁶	68	55	45	54	45	39	52	44	38	90°-150°	2	0.0	0.0
1000	VIX V	1	65°	392	597	7	63	50	40	49	40	34	47	39	34	90°-180°	2	0.0	0.0
		40°	75°	204	443	8	59	45	36	44	36	30	43	36	30	0°-180°	3849	100.0	100.0
1200			85°	46	190	9	55	41	33	41	33	27	40	32	27				
0°	20°		90	1	16	10	52	38	30	38	30	25	37	30	25				
	0° <u>90°</u>																		





LUMEN OUTPUT

Fixture	Lumen		[RHYR] LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT								
size	package	2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K		
	2000	1985	1914	1821	1759	1709	1728	1779	1913		
	3000	2998	2893	2755	2664	2694	2618	2695	2893		
2BLT4	4000	3955	3835	3678	3574	3580	3525	3617	3849		
	4800	4671	4561	4417	4322	4144	4280	4370	4592		
	6000	5667	5627	5576	5546	5618	5544	5591	5693		

DLC information is subject to change, for the most up-to-date information please refer to <u>www.designlights.org</u>. Above listings do not cover 347v.

POWER OUTPUT

Fixture	Lumen		[RHYR	POWER OUTPUT PER SCALING PROCEDURE, PER CCT							
size	package	2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K		
	2000	16.50	15.77	14.77	14.04	13.58	13.40	13.61	14.50		
	3000	24.40	23.20	21.57	20.41	19.72	19.50	19.99	21.68		
2BLT4	4000	32.89	31.21	28.95	27.35	26.43	26.17	26.94	29.42		
	4800	39.90	37.87	35.13	33.20	32.09	31.78	32.71	35.72		
	6000	50.74	48.15	44.67	42.22	40.80	40.42	41.63	45.49		

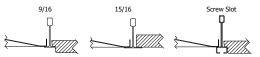
DLC information is subject to change, for the most up-to-date information please refer to www.designlights.org. Above listings do not cover 347v.

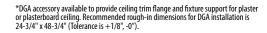
LUMENS PER WATT (LPW)

Fixture	Lumen		(RHY] LPW OUTPUT PER SCALING PROCEDURE, PER CCT							
size	package	2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K		
	2000	120	121	123	125	126	129	131	132		
	3000	123	125	128	131	137	134	135	133		
2BLT4	4000	120	123	127	131	135	135	134	131		
	4800	117	120	126	130	129	135	134	129		
	6000	112	117	125	131	138	137	134	125		

DLC information is subject to change, for the most up-to-date information please refer to <u>www.designlights.org</u>. Above listings do not cover 347v.

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





How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine 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.



