



P&C Construction
 2133 NW York St
 Portland, Oregon 97210-2108
 Phone: 503.665.0165

Submittal #26 5000-3.0 26 5000 - Lighting

Project: 18013 - 18013 - R.A.Brown Middle School
 1505 SE Cornelius Pass Road
 Hillsboro, Oregon 97123

Product Information Phase II

REVISION:	0	SUBMITTAL MANAGER:	Jared Steagall (P&C Construction)
STATUS:	Open	DATE CREATED:	06/25/2020
ISSUE DATE:	06/25/2020	SPEC SECTION:	26 5000 - Lighting
RESPONSIBLE CONTRACTOR:	Stoner Electric Group	RECEIVED FROM:	Brandon Hanson
RECEIVED DATE:	06/25/2020	SUBMIT BY:	06/25/2020
FINAL DUE DATE:	07/5/2020	LOCATION:	Brown middle school
		COST CODE:	
		TYPE:	

APPROVERS: Bob Thrapp (Soderstrom Architects)

BALL IN COURT:
 Bob Thrapp (Soderstrom Architects)

DISTRIBUTION:
 Kyle Sutherland (P&C Construction) , Jared Steagall (P&C Construction) , Rick Cunningham (Cornerstone MGI)

DESCRIPTION:
 Please review lighting product info submittal.

Updated as of 6/29/2020.

SUBMITTAL WORKFLOW

NAME	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
General Information Attachments					BMS - Division 26 Lighting Product Submittals Package #2 for Administrative Office Stamped.pdf	
Bob Thrapp	06/25/2020	07/05/2020		Pending		

BY _____ DATE _____ COPIES TO _____

R.A. Brown Middle School

26 50 00 – Lighting Product Submittals
Package #2 (Administrative Office)

By

Stoner ELECTRIC, INC.

Submission Date: June 25th, 2020

Stoner Electric Job #: 10714.1

These Submittals Are: For Your Approval

Approved By: _____

Signature: _____

Remarks

NO EXCEPTION TAKEN


CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR: DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

MFIA, INC.
CONSULTING ENGINEERS
2007 S.E. ASH STREET
PORTLAND, OR 97214

DATE: 7.10.20 BY: R CONNELL

P&C Submittal Review

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. SUBCONTRACTOR OR SUPPLIERS IS RESPONSIBLE FOR: DIMENSIONS, QUANTITIES, FIELD VERIFICATIONS AND NOTIFYING IF WORK REQUIRES COORDINATION WITH OTHER TRADES. REVIEW DOES NOT AUTHORIZE CHANGES TO CONTRACT REQUIREMENTS.

Reviewed By: 


06/25/2020 1:39:15 PM

BROWN

MIDDLE SCHOOL

ALTERNATE

#2 PACKAGE

Submitting Agency:  503-262-2640	Description: 2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor	Type: A1
---	--	---------------------------



DIGITAL NAVIGATION
[Ordering Tree](#) [nLight Platform](#) [Controls](#) [Photometrics](#) [Performance Data](#)

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 — 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. For a ribbed finish, add RIB to the end of the product description. See the ordering tree below for additional detail.

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, complementary 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 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 MSD7ADXC ((Passive infrared (PIR)) or MSDPDT7ADXC ((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 luminaires and wall switches through our mobile app, CLAIRTY, 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/support/customer-support/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.

Catalog Number
Notes
Type

BLT Series LED



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.

Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	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.

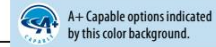
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for 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

Submitting Agency:  503-262-2640	Description: 2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 2X4 troffer, 4960 lumens, with nLight integral occupancy sensor	Type: A1
---	--	---------------------------

2BLT Volumetric Recessed Lighting 2'x4'




ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** 2BLT4 40L ADP EZ1 LP840

2BLT4 Series	Air function	Lumens ²	Diffuser	Voltage	Driver	Color temperature
2BLT4 2x4 BLT	(blank) Static A Air supply/return ¹	Standard efficiency^{3,4} (>100 LPW)	ADP Curved, ribbed	(blank) MVOLT	EZ1 eldoLED dims to 1% (0-10 volt dimming) GZ1 Dims to 1% (0-10V dimming) ⁶ GZ10 Dims to 10% (0-10V dimming) ⁶ SLD Step-level dimming ⁷	LP830 82CRI, 3000 K
		High efficiency^{3,4} (>130 LPW)	ADSM Curved, smooth	120 120V		LP835 82CRI, 3500 K
		30L 3000	SDP Square, ribbed	277 277V		LP840 82CRI, 4000 K
		40L 4000	SDSM Square, smooth	347 347V ⁵		LP850 82CRI, 5000 K
		48L 4800	Includes trim rings to match sensored version			LP930 90CRI, 3000K
		60L 6000	ADPT Curved, ribbed			LP935 90CRI, 3500K
		72L 7200	ADSMT Curved, smooth			LP940 90CRI, 4000K
		85L 8500	SDPT Square, ribbed			LP950 90CRI, 5000K
		100L 10000	SDSMT Square, smooth			
		120L 12000				

nLight Interface	Control ¹⁰
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 ⁸ N100 nLight without lumen management N100EMG nLight without lumen management For use with generator supply EM power ⁸ nLight Wireless (blank) no nLight [®] interface NLTAIR2 nLight AIR Generation 2 enabled ⁹	nLight Wired (blank) No sensor control NES7 nLight™ nES 7 PIR integral occupancy sensor ¹¹ NESPD7 nLight™ nES PDT 7 dual technology integral occupancy control ¹¹ NES7ADXC nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ¹¹ NESPD7ADXC nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ¹¹ nLight Wireless RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities 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 ²⁴ RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ²⁴ RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection ²⁴
	Individual Control MSD7ADXC PIR integral occupancy sensor with automatic dimming control photocell ¹² MSDPDT7ADXC PDT integral occupancy sensor with automatic dimming control photocell ¹²

Standby Mode	Options																											
NOC NOC Occupancy sensor disabled ¹³	<table border="0"> <tr> <td>RIB Ribbed reflector</td> <td>CP Chicago plenum¹⁶</td> <td>GLR Fast-blowing fuse¹⁹</td> </tr> <tr> <td>EL7L 700 lumen battery pack (Noncompliant with CA T20)¹⁴</td> <td>BGTD Bodine Generator Transfer Device¹⁷</td> <td>GMF Slow-blowing fuse¹⁹</td> </tr> <tr> <td>EL14L 1400 lumen battery pack (Noncompliant with CA T20)¹⁴</td> <td>PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit</td> <td>NPLT Narrow pallet</td> </tr> <tr> <td>EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20)^{14,15}</td> <td>PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit</td> <td>RRL_ RELOC[®]-ready luminaire²⁰</td> </tr> <tr> <td>E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS¹⁴</td> <td>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 gray¹⁸</td> <td>LATC Earthquake clip</td> </tr> <tr> <td></td> <td>PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires¹⁸</td> <td>DWAM Anti-Microbial paint</td> </tr> <tr> <td></td> <td></td> <td>JP14 Job packaging²¹</td> </tr> <tr> <td></td> <td></td> <td>JP18 Job packaging²²</td> </tr> <tr> <td></td> <td></td> <td>IP5X Gasketed diffuser com partment to meet IP5X rating²³</td> </tr> </table>	RIB Ribbed reflector	CP Chicago plenum¹⁶	GLR Fast-blowing fuse¹⁹	EL7L 700 lumen battery pack (Noncompliant with CA T20) ¹⁴	BGTD Bodine Generator Transfer Device ¹⁷	GMF Slow-blowing fuse ¹⁹	EL14L 1400 lumen battery pack (Noncompliant with CA T20) ¹⁴	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	NPLT Narrow pallet	EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20) ^{14,15}	PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	RRL_ RELOC [®] -ready luminaire ²⁰	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ¹⁴	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	LATC Earthquake clip		PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires ¹⁸	DWAM Anti-Microbial paint			JP14 Job packaging ²¹			JP18 Job packaging ²²			IP5X Gasketed diffuser com partment to meet IP5X rating ²³
RIB Ribbed reflector	CP Chicago plenum¹⁶	GLR Fast-blowing fuse¹⁹																										
EL7L 700 lumen battery pack (Noncompliant with CA T20) ¹⁴	BGTD Bodine Generator Transfer Device ¹⁷	GMF Slow-blowing fuse ¹⁹																										
EL14L 1400 lumen battery pack (Noncompliant with CA T20) ¹⁴	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	NPLT Narrow pallet																										
EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20) ^{14,15}	PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	RRL_ RELOC [®] -ready luminaire ²⁰																										
E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ¹⁴	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	LATC Earthquake clip																										
	PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires ¹⁸	DWAM Anti-Microbial paint																										
		JP14 Job packaging ²¹																										
		JP18 Job packaging ²²																										
		IP5X Gasketed diffuser com partment to meet IP5X rating ²³																										

- Notes**
- Consult factory for airflow data.
 - Approximate lumen output.
 - 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.
 - Not available with SLD, EL7L, EL14L, or E10WLCP options.
 - GZ1 and GZ10 not available with any Control or Sensor options.
 - Not available with N80, N80EMG, N100, N100EMG, NLTAIR, 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 module. Only available with EZ1 driver. Not available with 85L, 100L, or 120L options.
 - Must specify diffuser with trim rings. See sensor options on page 4.
 - Requires N80, N80EMG, N100, or N100EMG. Only available with EZ1 driver.
 - Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
 - Can only be ordered in conjunction with EZ1, NLTAIR2, RES7/RES7PDT. Occupancy sensor disabled at factory but can be re-enabled upon commissioning.
 - When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
 - For more information, please see the [PSSD2 specification sheet](#).
 - Not available with N80, N80EMG, N100, or N100EMG.
 - Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
 - Not available with nLight wired/wireless network or individual controls.
 - Must specify voltage, 120 or 277, with GLR and GFM fusing.
 - For ordering logic consult [RRL_2013](#).
 - Only available on fixtures with NES7, NESPD7, NESPD7ADXC, MSD7ADXC, MSDPDT7ADXC, RES7, RES7PDT, RIO. Not available when air supply/return function and sensor options are combined.
 - Not available with option: NES7, NESPD7, NESPD7ADXC, MSD7ADXC, MSDPDT7ADXC, RES7, RES7PDT, RIO.
 - Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.
 - See UL924 Sequence of Operation chart on page 3.
 - Not available with 72L, 72LHE, or 85LHE lumen packages.

Submitting Agency:  503-262-2640	Description: 2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor	Type: A1
---	--	---------------------------

2BLT Volumetric Recessed Lighting 2'x4'

Multiple Diffuser Options

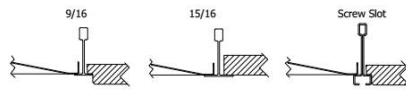


Non-Configurable BLT

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	28
	2BLT4 40L ADP LP840	00190887470765	4063	31	131	4000K/82CRI	120-277	28
	2BLT4 46L ADP LP835	00190887468656	4960	38	131	3500K/82 CRI	120-277	28
	2BLT4 46L ADP LP840	00190887468649	5039	38	133	4000K/82CRI	120-277	28
	2BLT4 40L ADP EL14L LP835	00190887470925	4000	31	129	3500K/82 CRI	120-277	28
	2BLT4 40L ADP EL14L LP840	00190887470918	4063	31	131	4000K/82 CRI	120-277	28
	2BLT4 46L ADP EL14L LP835	00190887468670	4960	38	131	3500K/82 CRI	120-277	28
	2BLT4 46L ADP EL14L LP840	00190887468663	5039	38	133	4000K/82 CRI	120-277	28
MTO	2BLT4 40L ADP 347 LP835	00193047562188	4000	31	129	3500K/82 CRI	347	28
	2BLT4 40L ADP 347 LP840	00193047059183	4063	31	131	4000K/82CRI	347	28
	2BLT4 46L ADP 347 LP835	00193047562225	4960	38	131	3500K/82 CRI	347	28
	2BLT4 46L ADP 347 LP840	00193047686426	5039	38	133	4000K/82CRI	347	28

*Generic 0-10V Dimming to 10%.

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").

UL924 Sequence of Operation
For 90 minutes following any complete AC power interruption >200 ms:
<ul style="list-style-type: none"> Digital dimming is commanded to high end trim level. Device ignores wireless lighting control commands.

Accessories & Replacement Parts

Accessories: Order as separate catalog number.	
DGA24	Drywall grid adapter for 2x4 recessed fixture
2X4SMKSH PAF	Surface Mount Troffer Kit Post Paint

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
*237MS2	2DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MSA	2DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MSL	2DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens

2BLT Volumetric Recessed Lighting 2'x4'

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



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 Wired Networking



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)



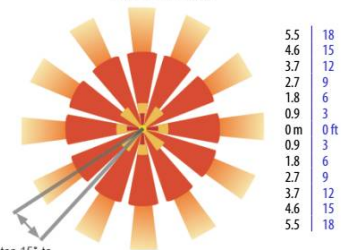
2BLT Volumetric Recessed Lighting 2'x4'

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

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



Lens rotates 15° to enable adjustment

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 MSPDT7ADCX 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 AIR Wireless

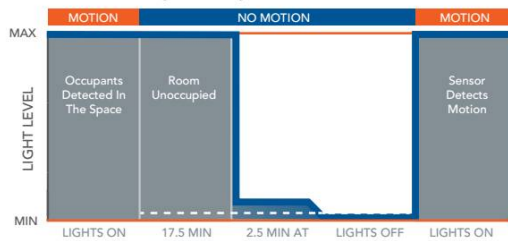
nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. The integrated rES7 or rES7PDT smart sensors are part of each luminaire in the nLight AIR network, which can be 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 nES7 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.

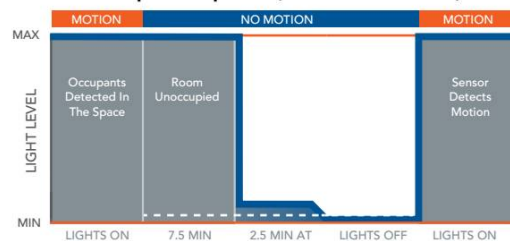
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the nESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

Sequence of Operation (MSD7 Sensor)



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

Sequence of Operation (nES7 and rES7 and Sensor)



*The presetting on the automatic dimming photocell is 5fc (NES7) and 10fc (RES7).

2BLT Volumetric Recessed Lighting 2'x4'

Controls Accessories

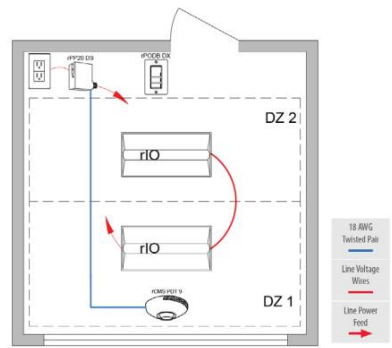
nLight® Wired Control Accessories:
 Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

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

nLight® AIR Control Accessories:
 Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

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

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.



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 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

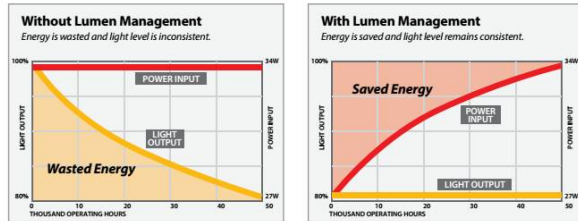
Notes
 1 RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.



2BLT Volumetric Recessed Lighting 2'x4'

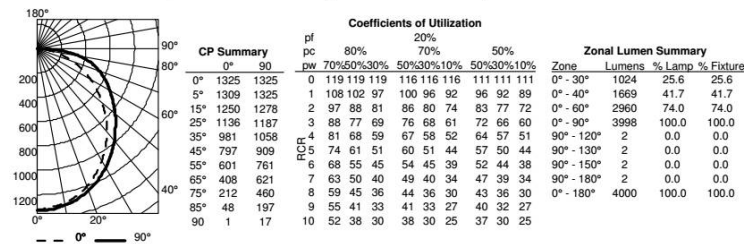
Constant Lumen Management

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.

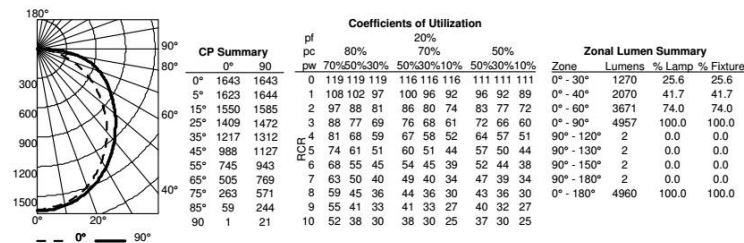


PHOTOMETRICS

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



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



Submitting Agency:
 503-262-2640

Description: **2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7**
 Project: **HSD Brown Middle School 20-52906-3**
 Notes: **2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor**

Type: **A1**

2BLT Volumetric Recessed Lighting 2'x4'

Performance Data					
Model Number	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30L ADP EZ1 (G21, GZ10) LP835 [All Options]	2962	127.31	23.26	Premium	PWJDEMHS
2BLT4 30L ADP EZ1 (G21, GZ10) LP840 [All Options]	3009.28	129.34	23.26	Premium	P18J5GLD
2BLT4 30L ADPT EZ1 (G21, GZ10) LP840 [All Options]	2969.16	127.62	23.26	Premium	P3HB2XSG
2BLT4 40L ADP EZ1 (G21, GZ10) LP835 [All Options]	4000	126.22	31.69	Premium	PDWKYXFD
2BLT4 40L ADP EZ1 (G21, GZ10) LP840 [All Options]	4063.86	128.23	31.69	Premium	PEYXAZWD
2BLT4 40L ADPT EZ1 (G21, GZ10) LP835 [All Options]	3946.66	124.53	31.69	Premium	P563CPK6
2BLT4 40L ADPT EZ1 (G21, GZ10) LP840 [All Options]	4009.67	126.52	31.69	Premium	PK79UR9W
2BLT4 48L ADP EZ1 (G21, GZ10) LP835 [All Options]	4960	130.5	38	Premium	PJ9CK6C1
2BLT4 48L ADP EZ1 (G21, GZ10) LP840 [All Options]	5039.18	132.58	38	Premium	P9W2R5AK
2BLT4 48L ADPT EZ1 (G21, GZ10) LP835 [All Options]	4893.86	128.76	38	Premium	PPFKZU3U
2BLT4 48L ADPT EZ1 (G21, GZ10) LP840 [All Options]	4971.99	130.82	38	Premium	PC8HMC9
2BLT4 60L ADP EZ1 (G21, GZ10) LP835 [All Options]	6016	126.39	47.59	Premium	PSJ6QERM
2BLT4 60L ADP EZ1 (G21, GZ10) LP840 [All Options]	6112.04	128.4	47.59	Premium	PVXQXPUV
2BLT4 60L ADPT EZ1 (G21, GZ10) LP835 [All Options]	5935.78	124.7	47.59	Premium	PHT84BW4
2BLT4 60L ADPT EZ1 (G21, GZ10) LP840 [All Options]	6030.55	126.69	47.59	Premium	PXV55BC8
2BLT4 72L ADP EZ1 (G210) LP840 [All Options]	7360.66	125.3	58.74	Premium	P5C222CB
2BLT4 72L ADP GZ1 LP835 [All Options]	7245	119.07	60.84	standard	PISHTCTS
2BLT4 72L ADP GZ1 LP840 [All Options]	7360.66	120.97	60.84	standard	PBERALG7
2BLT4 72L ADPT EZ1 (G21, GZ10) LP835 [All Options]	7148.4	117.48	60.84	standard	PDQ53CYK
2BLT4 72L ADPT EZ1 (G210) LP840 [All Options]	7262.52	123.63	58.74	Premium	P2KKMMVN
2BLT4 72L ADPT GZ1 LP840 [All Options]	7262.52	119.36	60.84	standard	P10DUPCO
2BLT4 85L ADP EZ1 (G21, GZ10) LP835 [All Options]	8567	116.43	73.58	standard	PYD2G06V
2BLT4 85L ADP EZ1 (G21, GZ10) LP840 [All Options]	8703.77	118.28	73.58	standard	P8Z4IV4X
2BLT4 85L ADPT EZ1 (G21, GZ10) LP835 [All Options]	8452.72	114.87	73.58	standard	PTZEW3QM
2BLT4 85L ADPT EZ1 (G21, GZ10) LP840 [All Options]	8587.72	116.71	73.58	standard	P01DMEK9
2BLT4 100L ADP EZ1 (G21, GZ10) LP835 [All Options]	9837	103.14	95.36	standard	PGDES20R
2BLT4 100L ADP EZ1 (G21, GZ10) LP840 [All Options]	9994.04	104.79	95.36	standard	P007CHGX
2BLT4 100L ADPT EZ1 (G21, GZ10) LP835 [All Options]	9705.84	101.77	95.36	standard	PSZUQY7M
2BLT4 100L ADPT EZ1 (G21, GZ10) LP840 [All Options]	9860.79	103.39	95.36	standard	P6V6X6HY
2BLT4 120L ADP EZ1 (G21, GZ10) LP835 [All Options]	11709	118.18	99.07	standard	PGM4Y7DP
2BLT4 120L ADP EZ1 (G21, GZ10) LP840 [All Options]	11895.9	120.07	99.07	standard	P00DDCG2
2BLT4 120L ADPT EZ1 (G21, GZ10) LP835 [All Options]	11552.9	116.61	99.07	standard	PXM0FS09
2BLT4 120L ADPT EZ1 (G21, GZ10) LP840 [All Options]	11737.3	118.47	99.07	standard	PJ4GEBZM

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.

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 = Output 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.

HE Performance Data					
Model Number	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	3107	135.17	22.98	Premium	P7KEICW5
2BLT4 30LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	3156.6	137.33	22.98	Premium	PD0M06BH
2BLT4 30LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	3065.57	133.37	22.98	Premium	P7P2AJDZ
2BLT4 30LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	3114.51	135.5	22.98	Premium	P2N23EBP
2BLT4 40LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	4085	138.56	29.48	Premium	P67P655Y
2BLT4 40LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	4150.21	140.77	29.48	Premium	P95UQD66
2BLT4 40LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	4030.53	136.71	29.48	Premium	PC15DQEC
2BLT4 40LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	4094.88	138.89	29.48	Premium	PGRC5J2T
2BLT4 48LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	4770	138.16	34.52	Premium	PXBJBGN8
2BLT4 48LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	4846.15	140.37	34.52	Premium	P5PQ5RRX
2BLT4 48LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	4706.4	136.32	34.52	Premium	P2NK2H33
2BLT4 48LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	4781.53	138.5	34.52	Premium	PK8C1321
2BLT4 60LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	5894	135.12	43.61	Premium	PQZM176R
2BLT4 60LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	5988.09	137.28	43.61	Premium	PG5CYJUC
2BLT4 60LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	5815.41	133.32	43.61	Premium	PZ72TAWM
2BLT4 60LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	5908.25	135.45	43.61	Premium	PRC4W72B
2BLT4 72LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	7149	135.94	52.58	Premium	PUB38GEQ
2BLT4 72LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	7263.13	138.11	52.58	Premium	P7GDH2TN
2BLT4 72LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	7053.68	134.12	52.58	Premium	P5CC2VKV
2BLT4 72LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	7166.29	136.26	52.58	Premium	P6P1BKDM
2BLT4 85LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	8158	128.96	63.25	Premium	PRTW6BXW
2BLT4 85LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	8288.24	131.02	63.25	Premium	P64H1V2D6
2BLT4 85LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	8049.22	127.24	63.25	Premium	P1VG5TA3
2BLT4 85LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	8177.73	129.27	63.25	Premium	PNSBKJ6E

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.



Submitting Agency:  503-262-2640	Description: BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 1X4 troffer, 4114 lumens, with nLight PIR integral occupancy sensor	Type: B
---	---	--------------------------



DIGITAL NAVIGATION
[Ordering Tree](#) [nLight Platform](#) [Controls](#) [Photometrics](#) [Performance Data](#)

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. For a ribbed finish, add RIB to the end of the product description. See the ordering tree below for additional detail.

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.

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 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 — The BLT's low profile design of only 2-3/4" 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/support/customer-support/terms-and-conditions

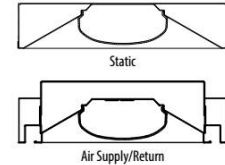
NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number
Notes
Type



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	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	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.

Provide surface
 mount kit as
 required

Submitting Agency:  503-262-2640	Description: BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 1X4 troffer, 4114 lumens, with nLight PIR integral occupancy sensor	Type: B
---	---	--------------------------

BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

A+ Capable options indicated by this color background.

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

Example: BLT4 30L ADP EZ1 LP835

BLT4		Air function		Lumens ²		Diffuser		Voltage		Driver		Color temperature	
BLT4	1x4 BLT	(blank) Static A Air supply/return ¹	Standard efficiency (>100 LPW)	High efficiency^{3,4} (>130 LPW)	ADP Curved, ribbed ADSM Curved, smooth SDP Square, ribbed SDSM Square, smooth Includes trim rings to match sensed version ADPT Curved, ribbed ADSMT Curved, smooth SDPT Square, ribbed SDSMT Square, smooth	(blank) MVOLT 120 120V 277 277V 347 347V ⁵	EZ1 eldoLED dims to 1% (0-10 volt dimming) GZ1 Dims to 1% (0-10V dimming) ⁶ GZ10 Dims to 10% (0-10V dimming) ⁶ SLD Step-level dimming ⁷	LP830 82CRI, 3000 K LP835 82CRI, 3500 K LP840 82CRI, 4000 K LP850 82CRI, 5000 K LP930 90CRI, 3000K LP935 90CRI, 3500K LP940 90CRI, 4000K LP950 90CRI, 5000K					
			15L 1500 20L 2000 30L 3000 40L 4000 48L 4800 60L 6000	15LHE 1500 20LHE 2000 30LHE 3000 40LHE 4000 48LHE 4800 60LHE 6000									

nLight Interface	Control ¹⁰	Individual Control
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 ⁴ N100 nLight without lumen management N100EMG nLight without lumen management for use with generator supply EM power ⁴ nLight Wireless (blank) no nLight [®] interface NLTAIR2 nLight AIR Generation 2 enabled ⁹	nLight Wired (blank) No sensor control NES7 nLight™ nES 7 PIR integral occupancy sensor ¹¹ NESPD7 nLight™ nES PDT 7 dual technology integral occupancy control ¹¹ NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ¹¹ NESPD7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ¹¹ nLight Wireless RES7 nLight AIR PIR integral occupancy sensor with 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 ²² RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ²² RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection ²²	MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell ¹² MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell ¹²

Standy Mode	Options
NOC NOC Occupancy sensor disabled ¹³	RIB Ribbed reflector EL7L 700 lumen battery pack (Noncompliant with CA T20) ¹⁴ EL14L 1400 lumen battery pack (Noncompliant with CA T20) ¹⁴ EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20) ^{14,15} E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS 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 IP5X Gasketed diffuser compartment to meet IP5X rating ²¹

Notes

- Consult factory for airflow data.
- Approximate lumen output.
- 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.
- Not available with SLD, EL7L, EL14L or E10WLCP options.
- GZ1 and GZ10 not available with 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, RESPD7, or RIO module. 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.
- Can only be ordered in conjunction with EZ1, NLTAIR2, RES7/RES7PDT. Occupancy sensor disabled at factory but can be re-enabled upon commissioning.
- When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
- For more information, please see the [PSSD2 specification sheet](#).
- Not available with N80, N80EMG, N100, or N100EMG.
- Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- Not available with nLight wired/wireless network or individual controls.
- Must specify voltage, 120 or 277, with GLR and GFM fusing.
- For ordering logic consult [RRL_2013](#).
- Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.
- See UL924 Sequence of Operation chart on page 3.



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

© 2016-2019 Acuity Brands Lighting, Inc. All rights reserved. Rev. 12/02/19

Page 2 of 8

Submitting Agency:  503-262-2640	Description: BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 1X4 troffer, 4114 lumens, with nLight PIR integral occupancy sensor	Type: B
---	---	--------------------------

BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

Multiple Diffuser Options

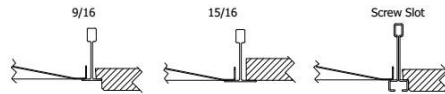


Non-Configurable BLT

Non-Configurable BLT								
Stock/MTO	Catalog Description *	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	BLT4 40L ADP LP835	00190887466218	4114	32	129	3500K/82 CRI	120-277	39
	BLT4 40L ADP LP840	00190887465228	4180	32	131	4000K/82 CRI	120-277	39
	BLT4 40L ADP EL14L LP835	00190887466621	4114	32	129	3500K/82 CRI	120-277	39
	BLT4 40L ADP EL14L LP840	00190887466614	4180	32	131	4000K/82 CRI	120-277	39
MTO	BLT4 40L ADP 347 LP835	00190887788495	4114	32	129	3500K/82 CRI	347	39
	BLT4 40L ADP 347 LP840	00193047706421	4180	32	131	4000K/82CRI	347	39

*Generic 0-10V Dimming to 10%.

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").

UL924 Sequence of Operation
For 90 minutes following any complete AC power interruption >200 ms:
<ul style="list-style-type: none"> 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 1x4 recessed fixture
1X4SMKSH PAF	Surface Mount Troffer Kit Post Paint

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
*239UOK	DBLT48 SDSMT SENSOR LENS ASSEMBLY	2 ft. replacement lens

Provide surface mount kit as required

BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

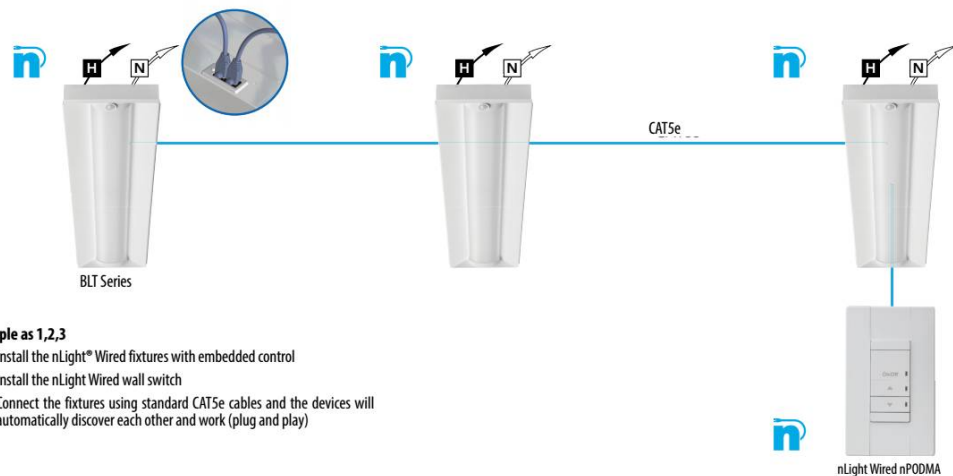
nLight Platform

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



nLight Wired Networking



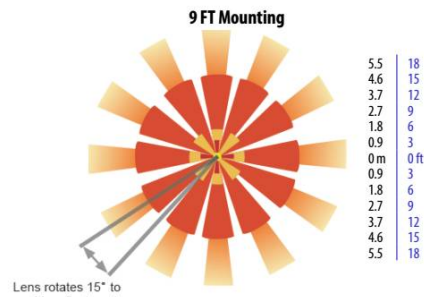
BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

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

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



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.

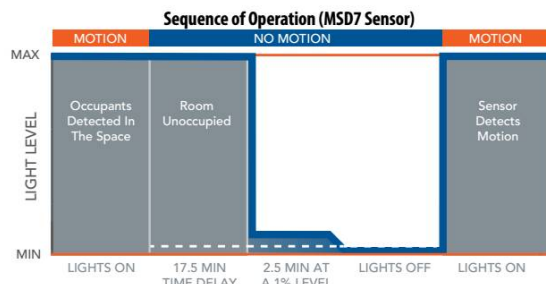
nLight AIR Wireless

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.

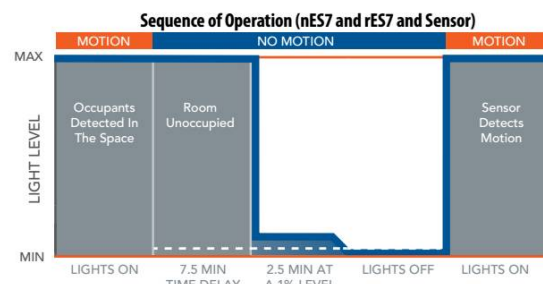
nLight Wired Networking

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.



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



*The presetting on the automatic dimming photocell is 5fc (NES7) and 10fc (RES7).

BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

Controls Accessories

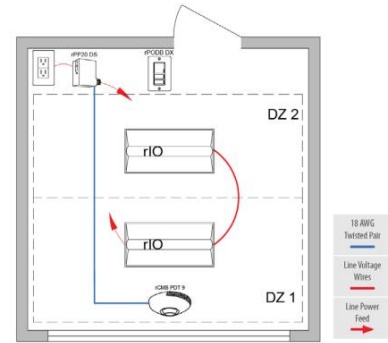
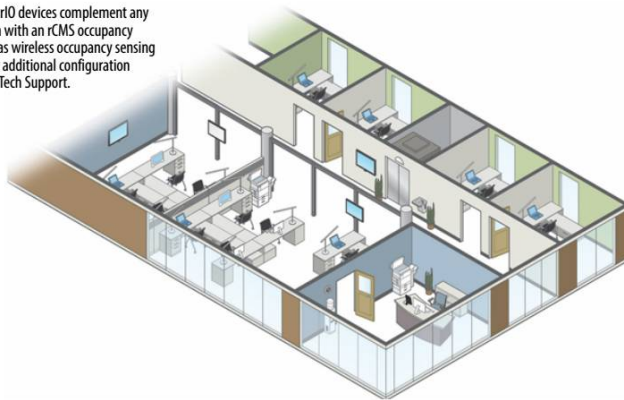
nLight® Wired Control Accessories:
 Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

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

nLight® AIR Control Accessories:
 Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

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

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.



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

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

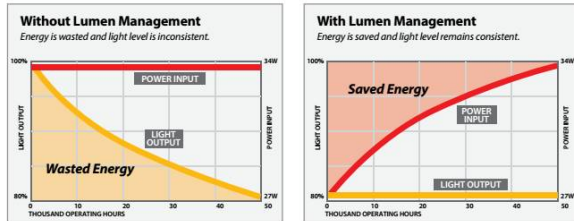


BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

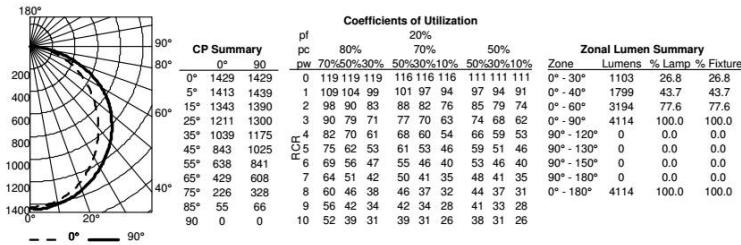
Constant Lumen Management

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.

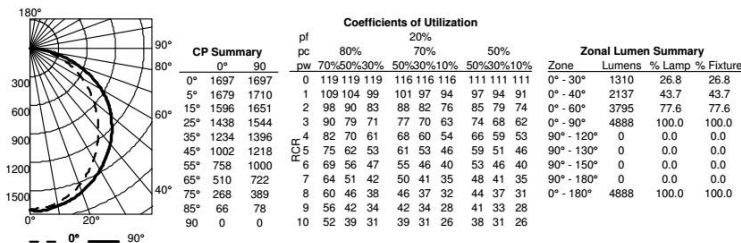


PHOTOMETRICS

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



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



Submitting Agency:
 503-262-2640

Description: **BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7**
 Project: **HSD Brown Middle School 20-52906-3**
 Notes: 1X4 troffer, 4114 lumens, with nLight PIR integral occupancy sensor

Type:
B

BLTX Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Controls | Photometrics | Performance Data

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	PTJ7LZR
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
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	P18CCBNK
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	PJR9QMWO
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	PIBQT145
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	PJZ5XAG
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.

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 = Output 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.

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	P35W8CVO
BLT4 20LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	1920	126.59	15.16	Premium	PPESOBKI
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	POS60MWX
BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	2942.39	134.58	21.86	Premium	POYU2QG4
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	PU2JGL4P
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	PX9KVBV3
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

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.



Submitting Agency:



503-262-2640

Description: **DGA14**

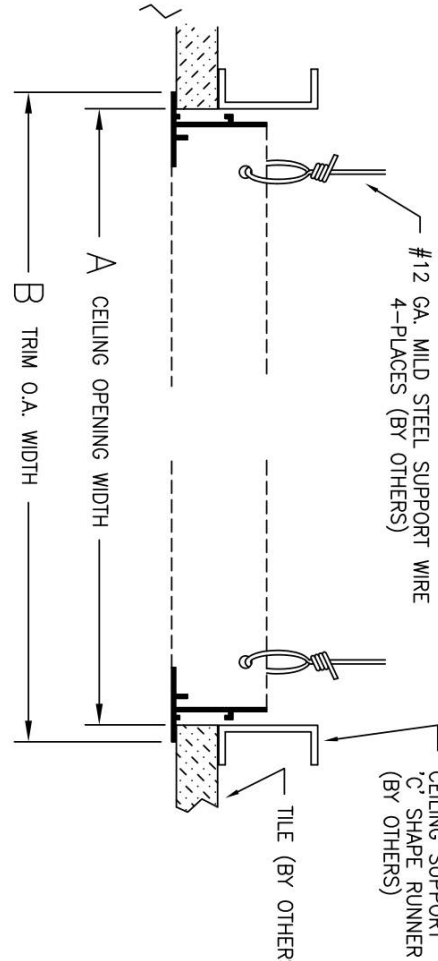
Project: **HSD Brown Middle School 20-52906-3**

Notes:

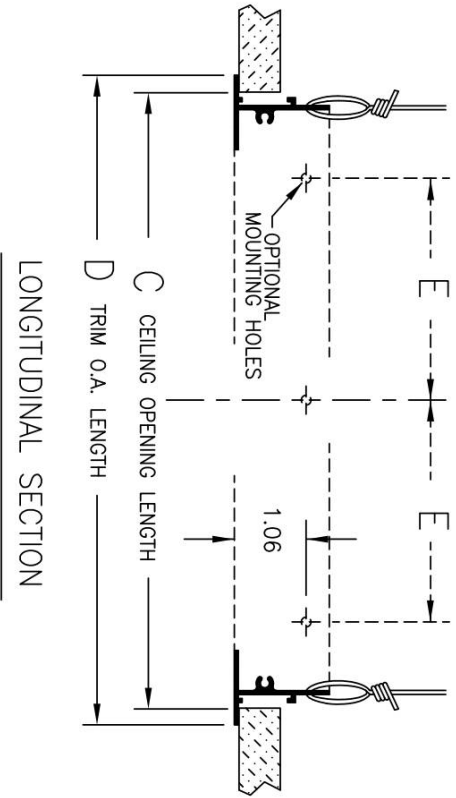
Type:

B

PART NO. U2259

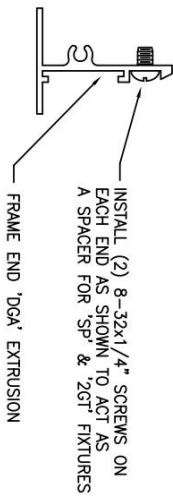
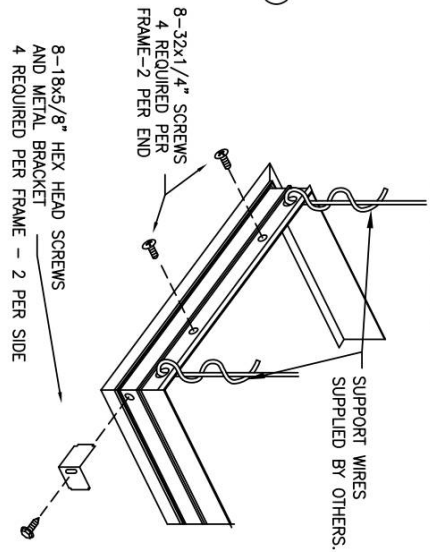


CROSS SECTION



LONGITUDINAL SECTION

ASSEMBLY INSTRUCTIONS
DGA FRAMES



TOLERANCE ON CEILING OPENING = + 1/8" - 0"

NOMENCLATURE	FIXTURE SIZE NOMINAL	WIDTH		LENGTH		
		A	B	C	D	E
DGA12	1 X 2	12-3/4"	13-3/8"	24-3/4"	25-3/8"	9"
DGA14	1 X 4	12-3/4"	13-3/8"	48-3/4"	49-3/8"	21"
DGA22	2 X 2	24-3/4"	25-3/8"	24-3/4"	25-3/8"	9"
DGA24	2 X 4	24-3/4"	25-3/8"	48-3/4"	49-3/8"	21"
DGA44	4 X 4	48-3/4"	49-3/8"	48-3/4"	49-3/8"	21"
DGA64	6 X 4	6-3/4"	7-3/8"	48-3/4"	49-3/8"	21"
DGA204	20" X 4	20-3/4"	21-3/8"	48-3/4"	49-3/8"	21"
DGA13	1 X 3	12-3/4"	13-3/8"	36-3/4"	37-3/8"	15"

Submitting Agency:
 HARRY L. STEARNS
 503-262-2640

Description: **EVO6 35/10 AR LSS MD MVOLT GZ10**
 Project: **HSD Brown Middle School 20-52906-3**
 Notes:

Type:
C

 gotham® | E V O®
 Multiple Layers of Light



Luminaire Type:
 Catalog Number:



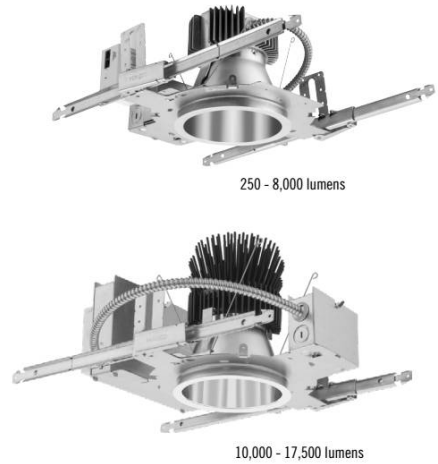
General Illumination Round Downlight 6"

OVERVIEW

Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product

Distribution



Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000	10,000	12,000	15,000	17,500
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247	10637	12332	15776	17801
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9	97.1	115.0	150.9	175.3
Lumens per Watt	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1	109.5	107.2	104.5	101.5

COMPLEMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light




















 General Illumination Layer | EVO



 High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

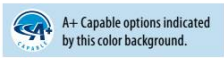
Core	 Downlight	 Adjustable	 Open Wallwash	 Lensed Wallwash	 Cylinder	 Pinhole	 Bevel	 Hyperbolic
Healthcare	 MRI	 Surgical Suite	 Patient Room					
Special Applications	 Dynamic	 Food Service	 Vandal/Tamper	 Clean Room	 Shower	 Steam Room		

Submitting Agency:  503-262-2640	Description: EVO6 35/10 AR LSS MD MVOLT GZ10 Project: HSD Brown Middle School 20-52906-3 Notes:	Type: C
---	--	--------------------------



6"
General Illumination Round Downlight

ORDERING INFORMATION




 Luminaire Type:
 Catalog Number:
EXAMPLE: EVO6 35/150 AR MWD LSS MVOLT EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Distribution
EVO6	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged	VND Very Narrow (0.5 s/mh)
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless	ND Narrow (0.7 s/mh)
	35/ 3500 K	07 750 lumens	WTR Wheat		MD Medium (0.9 s/mh)
	40/ 4000 K	10 1000 lumens	GR Gold		MWD Medium Wide (1.0 s/mh)
	50/ 5000 K	15 1500 lumens	WR ¹ White		WD Wide (1.2 s/mh)
		20 2000 lumens	BR ¹ Black		
		25 2500 lumens	WRAMF ¹ White Anti-microbial		
		30 3000 lumens			
		35 3500 lumens			

Finish	Voltage	Driver ⁴	
LSS Semi-specular	MVOLT	GZ10 0-10V driver dims to 10%	ECOS ⁵ Lutron® Hi-Lume® 2-wire forward-phase driver. Minimum dimming level 1%. 120V only. Minimum 1000 lumens/Maximum 4000 lumens. ECOD ⁵ Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM.
LD Matte-diffuse	120	GZ1 0-10V driver dims to 1%	
LS Specular	277	EZ10 eldoLED 0-10V ECODrive. Linear dimming to 10% min.	
	347 ^{2,3}	EZ1 eldoLED 0-10V ECODrive. Linear dimming to 1% min.	
		EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	
		EDAB ⁵ eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	
		EDXB ⁵ eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual. Minimum 1000 lumens/Maximum 15000 lumens.	


Control Interface	Options	
NLT ⁵ nLight® dimming pack controls	SF Single fuse. Specify 120V or 277V.	N80 ¹⁰ nLight® Lumen Compensation BGTD Bodine generator transfer device. Specify 120V or 277V. 90CRI High CRI (90+) CP ¹¹ Chicago Plenum. Specify 120V or 277V for 5000lm and above. HAO ¹² HAO High Ambient Option (40°C) RRL_ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature
NLTER ^{2,5,9} nLight® dimming pack controls emergency circuit	TRW ⁷ White painted flange	
NLTAIR ^{2,13} nLight® AIR enabled	TRBL ⁸ Black painted flange	
NLTAIRER ^{2,5,13} nLight® AIR enabled emergency	EL Emergency battery pack, 10W, with integral test switch	
EXA1 XPoint Wireless, eldoLED driver. Linear dimming to 1%	ELR Emergency battery pack, 10W, with self-diagnostics, with remote test switch	
EXAB XPoint Wireless, eldoLED driver. Logarithmic dimming to dark	ELSD Emergency battery pack, 10W, with self-diagnostics, integral test switch	
	ELRSD Emergency battery pack, 10W, with self-diagnostics, remote test switch	
	E10WCP Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	
	E10WCPR Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	

ACCESSORIES – order as separate catalog numbers (shipped separately)

SCA6	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D. Refer to TECH-190 .
CTA4-8 YKHL	Ceiling thickness adapter for 10,000LM and above (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
CTA4-8 YK	Ceiling thickness adapter for 8,000LM and below (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
GVRT	Vandal-resistant trim accessory. Refer to TECH-200 .
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC .

ORDERING NOTES

1. Not available with finishes.	9. ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
2. Not available with emergency battery pack options.	10. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
3. Supplied with factory installed step down transformer.	11. 12,000LM max with EL or nLight® options. 5,000LM max with Lutron drivers combined with EL. Not available with ELR, HAO, EXA1, or EXAB options.
4. Refer to TECH-240 for compatible dimmers.	12. Only available 5000LM - 15,000LM with eldoLED drivers.
5. Not available with nLight® and XPoint options.	13. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
6. Specify voltage.	
7. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.	
8. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.	

Submitting Agency:  HARRY L. STEARNS 503-262-2640	Description: EVO6 35/10 AR LSS MD MVOLT GZ10 Project: HSD Brown Middle School 20-52906-3 Notes:	Type: C
--	--	--------------------------



SPECIFICATIONS

Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical

The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output. The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output. Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages. Input wires shall be 18AWG, 300V minimum, solid copper.

Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%. eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered. Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32" and minimum 15" extension and 4" vertical adjustment. Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5"). Tool-less adjustments shall be possible after installation. The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration. 25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise). 40°C high ambient optional.

Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed.

Photometrics


LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours. Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate with in a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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.

 **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



6" General Illumination Round Downlight

Flangeless



Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.



EVO with flangeless trim

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



6" General Illumination Round Downlight

Tables of Use

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
500-5000	None	None	None
6000	24	12	5
8000	36	18	11
10000			9
12000			
15000			
17500	72	36	

EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Square	Linear

Marked Spacing in Inches 40°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
5000	24	12	5
6000			
8000			
10000	48	24	9
12000			
15000			
17500	72	36	9

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.96
	300K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	300K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Marked Spacing Chicago Plenum Open Frame in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
250-5000	None	None	None
6000	24	12	5
8000	36	18	11
10000			9
12000			
15000			
17500	72	36	

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Marked Spacing Chicago Plenum Enclosure in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
250-6000	None	None	None
8000	36	18	6
10000	48	24	3
12000			

Distributions		
Nomenclature	Beam Angle	Field Angle
VND	30	64
ND	44	69
MD	54	82
MWD	67	89
WD	71	92

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

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



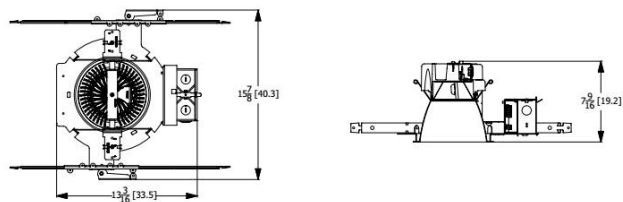
6" General Illumination Round Downlight

DIMENSIONAL DATA

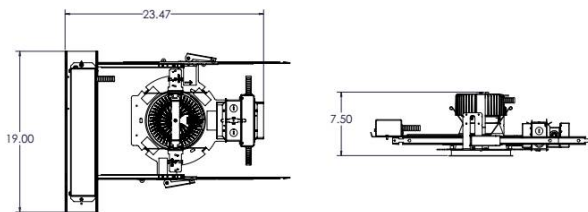
*Dimensions in inches [centimeters]

Aperture: 6 1/4" [15.9] Ceiling Opening: 7 1/8" [18.1] self-flanged
 Overlap Trim: 7 1/2" [19.1] 7 1/4" [18.4] flangeless

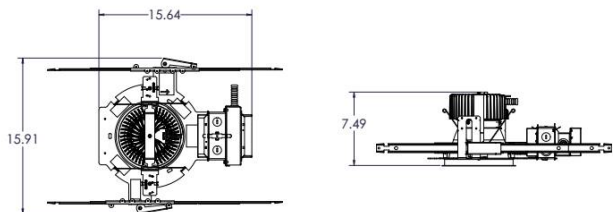
1000LM-4500LM Standard



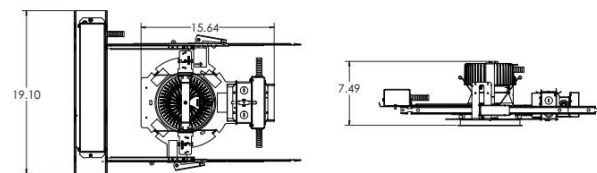
1000LM-4500LM Battery Pack



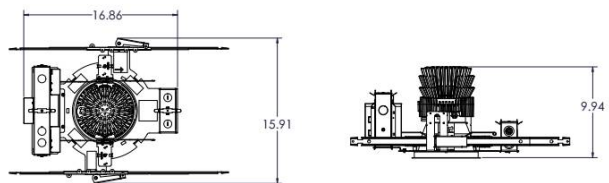
5000LM-8000LM Standard



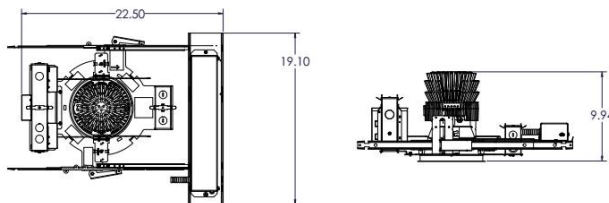
5000LM-8000LM Battery Pack



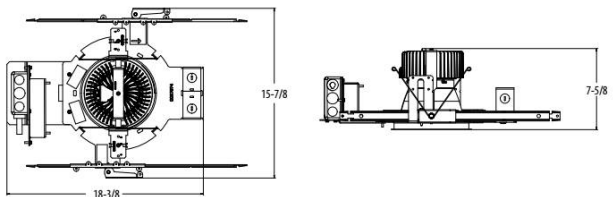
10,000LM-17,500LM Standard



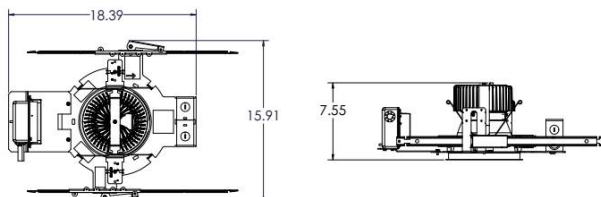
10,000LM-17,500LM Battery Pack



1000LM-4500LM CP



5000 Lumen ECO/SOLO Drive Open Frame CP



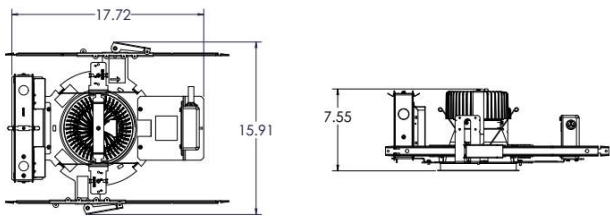


6" General Illumination Round Downlight

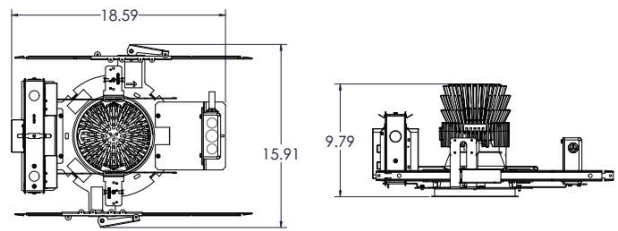
DIMENSIONAL DATA

*Dimensions in inches [centimeters]

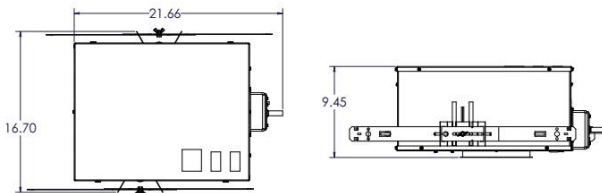
5000 (Lutron & POWER Drive Only), 6000 & 8000 Lumen Open Frame CP



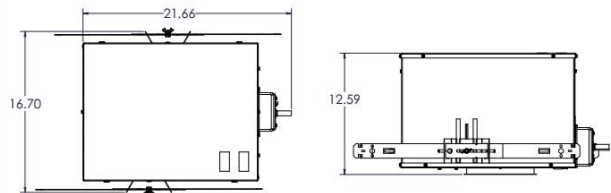
10000 - 17,500 Lumen Open Frame CP



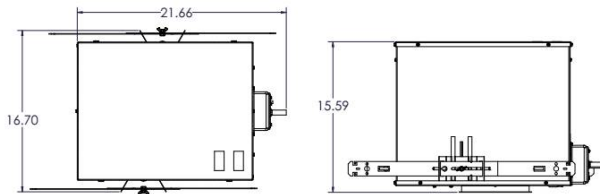
250 - 6000 Lumen CP for nLight® or Battery Pack



8,000LM Enclosed CP for nLight or Battery Pack



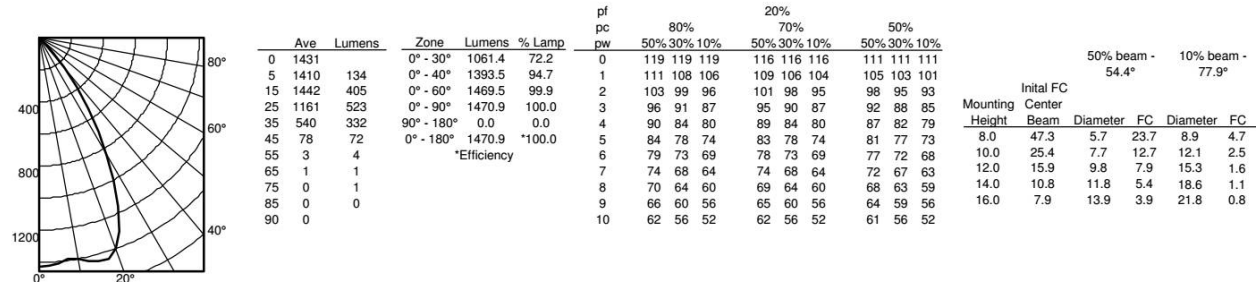
10,000LM-12,000LM Enclosed CP for nLight or Battery Pack



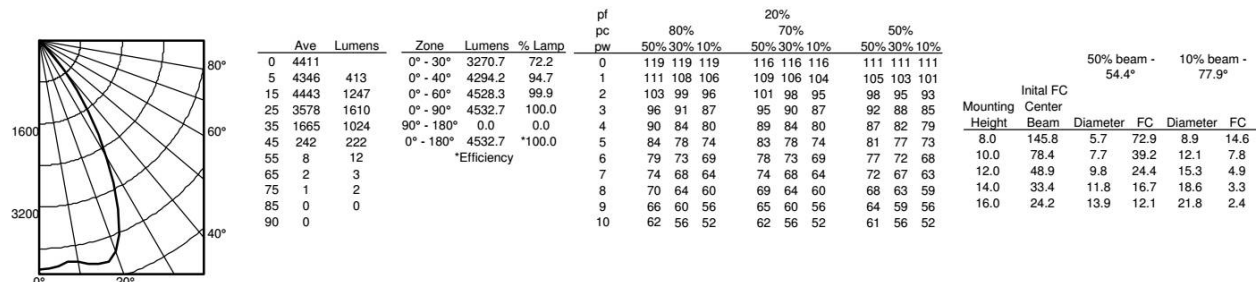


Photometry

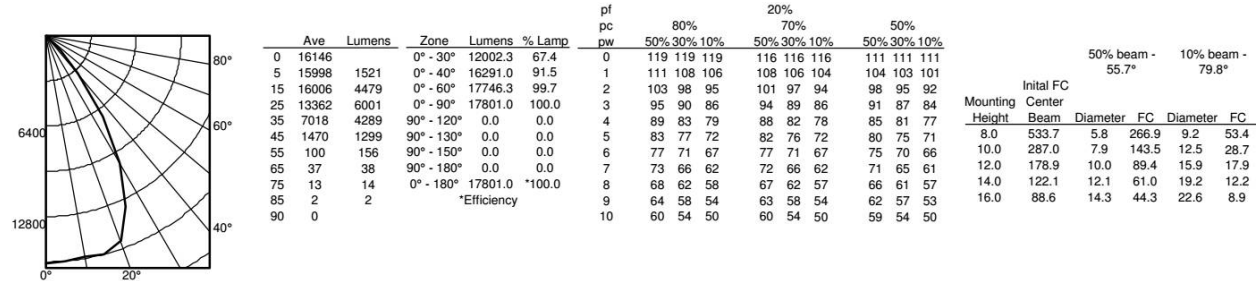
EVO6 35/15 AR MWD LS INPUT WATTS: 14.7, DELIVERED LUMENS: 1471LM, LPW= 100, 1.03 S/MH, TEST NO. LTL27783P1505



EVO6 35/45 AR MWD LS INPUT WATTS: 47.3, DELIVERED LUMENS: 4532.7LM, LPW= 95.8, 1.03 S/MH, TEST NO. LTL27783P1649



EVO6 35/175 AR MWD LS INPUT WATTS: 175.3, DELIVERED LUMENS: 17801LM, LPW=101.5, 1.06 S/MH, TEST NO. ISF 34035P268





6" General Illumination Round Downlight

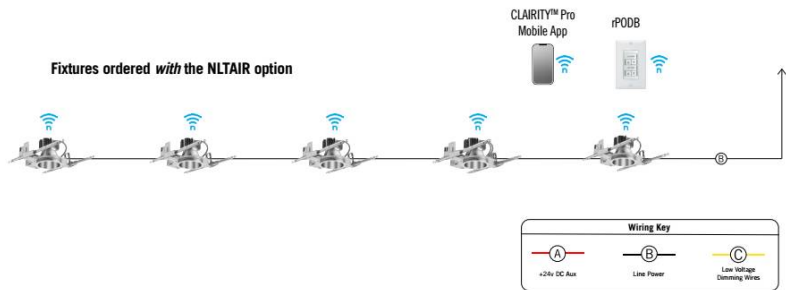
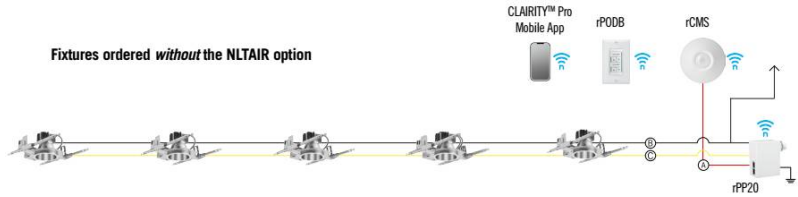
nLIGHT AIR

Possibilities for nLight® AIR

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

nLight® AIR Control Accessories	
<i>Order as separate catalog number. Visit nLight AIR.</i>	
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

nLight® AIR Control Accessories (cont.)	
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10



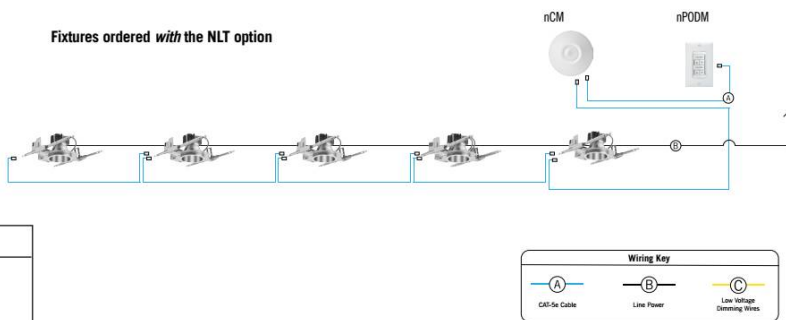
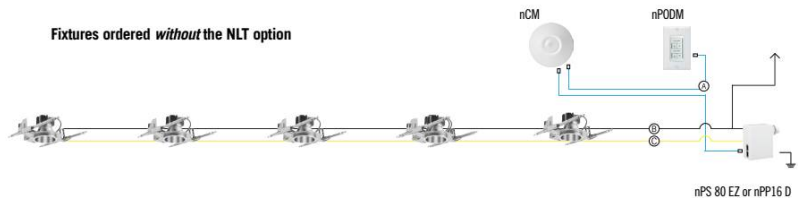
nLIGHT


Possibilities for nLight® wired

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control Accessories	
<i>Order as separate catalog number. Visit nLight.</i>	
Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)
Photocell Controls	
Dimming	nCM ADCX

nLight® Wired Control Accessories (cont.)	
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1



Submitting Agency:  503-262-2640	Description: 2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor	Type: D
---	--	--------------------------



DIGITAL NAVIGATION
[Ordering Tree](#) [nLight Platform](#) [Controls](#) [Photometrics](#) [Performance Data](#)

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 — 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. For a ribbed finish, add RIB to the end of the product description. See the ordering tree below for additional detail.

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 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 MSD7ADXC ((Passive infrared (PIR)) or MSDPDT7ADXC ((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 luminaires and wall switches through our mobile app, CLAIRTY, 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/support/customer-support/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.

Catalog Number
Notes
Type

BLT Series LED



Ribbed Reflector Option

Specifications

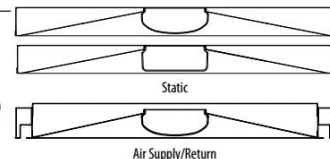
Length: 47-3/4 (121.2)

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.



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

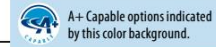
Provide surface
 mount kit as
 required

COMMERCIAL INDOOR

BLT-2X4

Submitting Agency:  503-262-2640	Description: 2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor	Type: D
---	--	--------------------------

2BLT Volumetric Recessed Lighting 2'x4'




ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** 2BLT4 40L ADP EZ1 LP840

2BLT4 Series	Air function	Lumens ²	Diffuser	Voltage	Driver	Color temperature
2BLT4 2x4 BLT	(blank) Static A Air supply/return ¹	Standard efficiency^{3,4} (>100 LPW) 30L 3000 40L 4000 48L 4800 60L 6000 72L 7200 85L 8500 100L 10000 120L 12000	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 120V 277 277V 347 347V ⁵	EZ1 eldoLED dims to 1% (0-10 volt dimming) GZ1 Dims to 1% (0-10V dimming) ⁶ GZ10 Dims to 10% (0-10V dimming) ⁶ SLD Step-level dimming ⁷	LP830 82CRI, 3000 K LP835 82CRI, 3500 K LP840 82CRI, 4000 K LP850 82CRI, 5000 K LP930 90CRI, 3000K LP935 90CRI, 3500K LP940 90CRI, 4000K LP950 90CRI, 5000K

nLight Interface	Control ¹⁰
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 ⁸ N100 nLight without lumen management N100EMG nLight without lumen management For use with generator supply EM power ⁸ nLight Wireless (blank) no nLight [®] interface NLTAIR2 nLight AIR Generation 2 enabled ⁹	nLight Wired (blank) No sensor control NES7 nLight™ nES 7 PIR integral occupancy sensor ¹¹ NESPD7 nLight™ nES PDT 7 dual technology integral occupancy control ¹¹ NES7ADXC nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ¹¹ NESPD7ADXC nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ¹¹ nLight Wireless RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities 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 ²⁴ RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ²⁴ RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection ²⁴

Standby Mode	Options																											
NOC NOC Occupancy sensor disabled ¹³	<table border="1"> <tr> <td>RIB Ribbed reflector</td> <td>CP Chicago plenum¹⁶</td> <td>GLR Fast-blowing fuse¹⁹</td> </tr> <tr> <td>EL7L 700 lumen battery pack (Noncompliant with CA T20)¹⁴</td> <td>BGTD Bodine Generator Transfer Device¹⁷</td> <td>GMF Slow-blowing fuse¹⁹</td> </tr> <tr> <td>EL14L 1400 lumen battery pack (Noncompliant with CA T20)¹⁴</td> <td>PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit</td> <td>NPL Narrow pallet</td> </tr> <tr> <td>EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20)^{14,15}</td> <td>PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit</td> <td>RRL_ RELOC[®]-ready luminaire²⁰</td> </tr> <tr> <td>E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS¹⁴</td> <td>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 gray¹⁸</td> <td>LATC Earthquake clip</td> </tr> <tr> <td></td> <td>PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires¹⁸</td> <td>DWAM Anti-Microbial paint</td> </tr> <tr> <td></td> <td></td> <td>JP14 Job packaging²¹</td> </tr> <tr> <td></td> <td></td> <td>JP18 Job packaging²²</td> </tr> <tr> <td></td> <td></td> <td>IP5X Gasketed diffuser com partment to meet IP5X rating²³</td> </tr> </table>	RIB Ribbed reflector	CP Chicago plenum¹⁶	GLR Fast-blowing fuse¹⁹	EL7L 700 lumen battery pack (Noncompliant with CA T20) ¹⁴	BGTD Bodine Generator Transfer Device ¹⁷	GMF Slow-blowing fuse ¹⁹	EL14L 1400 lumen battery pack (Noncompliant with CA T20) ¹⁴	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	NPL Narrow pallet	EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20) ^{14,15}	PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	RRL_ RELOC [®] -ready luminaire ²⁰	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ¹⁴	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	LATC Earthquake clip		PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires ¹⁸	DWAM Anti-Microbial paint			JP14 Job packaging ²¹			JP18 Job packaging ²²			IP5X Gasketed diffuser com partment to meet IP5X rating ²³
RIB Ribbed reflector	CP Chicago plenum¹⁶	GLR Fast-blowing fuse¹⁹																										
EL7L 700 lumen battery pack (Noncompliant with CA T20) ¹⁴	BGTD Bodine Generator Transfer Device ¹⁷	GMF Slow-blowing fuse ¹⁹																										
EL14L 1400 lumen battery pack (Noncompliant with CA T20) ¹⁴	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	NPL Narrow pallet																										
EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20) ^{14,15}	PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	RRL_ RELOC [®] -ready luminaire ²⁰																										
E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ¹⁴	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	LATC Earthquake clip																										
	PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires ¹⁸	DWAM Anti-Microbial paint																										
		JP14 Job packaging ²¹																										
		JP18 Job packaging ²²																										
		IP5X Gasketed diffuser com partment to meet IP5X rating ²³																										

- Notes**
- Consult factory for airflow data.
 - Approximate lumen output.
 - 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.
 - Not available with SLD, EL7L, EL14L, or E10WLCP options.
 - GZ1 and GZ10 not available with any Control or Sensor options.
 - Not available with N80, N80EMG, N100, N100EMG, NLTAIR, 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 module. Only available with EZ1 driver. Not available with 85L, 100L, or 120L options.
 - Must specify diffuser with trim rings. See sensor options on page 4.
 - Requires N80, N80EMG, N100, or N100EMG. Only available with EZ1 driver.
 - Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
 - Can only be ordered in conjunction with EZ1, NLTAIR2, RES7/RES7PDT. Occupancy sensor disabled at factory but can be re-enabled upon commissioning.
 - When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
 - For more information, please see the [PSSD2 specification sheet](#).
 - Not available with N80, N80EMG, N100, or N100EMG.
 - Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
 - Not available with nLight wired/wireless network or individual controls.
 - Must specify voltage, 120 or 277, with GLR and GFM fusing.
 - For ordering logic consult [RRL_2013](#).
 - Only available on fixtures with NES7, NESPD7, NESPD7ADXC, MSD7ADXC, MSDPD7ADXC, RES7, RES7PDT, RIO. Not available when air supply/return function and sensor options are combined.
 - Not available with option: NES7, NESPD7, NESPD7ADXC, MSD7ADXC, MSDPD7ADXC, RES7, RES7PDT, RIO.
 - Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.
 - See UL924 Sequence of Operation chart on page 3.
 - Not available with 72L, 72LHE, or 85LHE lumen packages.

Submitting Agency:  503-262-2640	Description: 2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 Project: HSD Brown Middle School 20-52906-3 Notes: 2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor	Type: D
--	--	--------------------------

2BLT Volumetric Recessed Lighting 2'x4'

Multiple Diffuser Options

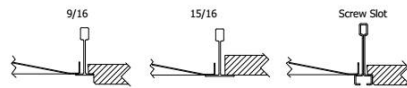


Non-Configurable BLT

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	28	
	2BLT4 40L ADP LP840	00190887470765	4063	31	131	4000K/82CRI	120-277	28	
	2BLT4 46L ADP LP835	00190887468656	4960	38	131	3500K/82 CRI	120-277	28	
	2BLT4 46L ADP LP840	00190887468649	5039	38	133	4000K/82CRI	120-277	28	
	2BLT4 40L ADP EL14L LP835	00190887470925	4000	31	129	3500K/82 CRI	120-277	28	
	2BLT4 40L ADP EL14L LP840	00190887470918	4063	31	131	4000K/82 CRI	120-277	28	
	2BLT4 46L ADP EL14L LP835	00190887468670	4960	38	131	3500K/82 CRI	120-277	28	
	2BLT4 46L ADP EL14L LP840	00190887468663	5039	38	133	4000K/82 CRI	120-277	28	
	MTO	2BLT4 40L ADP 347 LP835	00193047562188	4000	31	129	3500K/82 CRI	347	28
		2BLT4 40L ADP 347 LP840	00193047059183	4063	31	131	4000K/82CRI	347	28
2BLT4 46L ADP 347 LP835		00193047562225	4960	38	131	3500K/82 CRI	347	28	
2BLT4 46L ADP 347 LP840		00193047686426	5039	38	133	4000K/82CRI	347	28	

*Generic 0-10V Dimming to 10%.

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").

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.	
DGA24	Drywall grid adapter for 2x4 recessed fixture
2X4SMKSH PAF	Surface Mount Troffer Kit Post Paint

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
*237MS2	2DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MSA	2DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MSL	2DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens

Provide surface mount kit as required

2BLT Volumetric Recessed Lighting 2'x4'

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



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 Wired Networking



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)



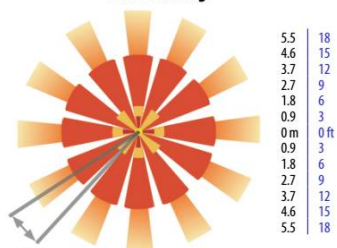
2BLT Volumetric Recessed Lighting 2'x4'

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

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



Lens rotates 15° to enable adjustment

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 MSPDT7ADCX 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 AIR Wireless

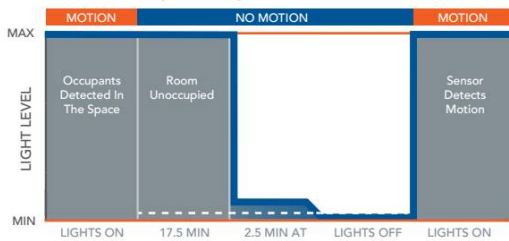
nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. The integrated rES7 or rES7PDT smart sensors are part of each luminaire in the nLight AIR network, which can be 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 nES7 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.

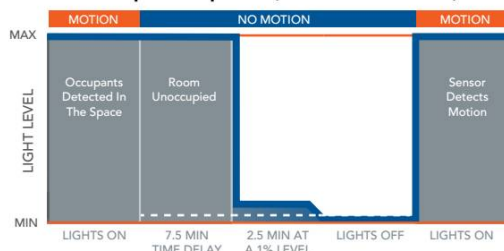
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the nESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

Sequence of Operation (MSD7 Sensor)



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

Sequence of Operation (nES7 and rES7 and Sensor)



*The presetting on the automatic dimming photocell is 5fc (NES7) and 10fc (RES7).

2BLT Volumetric Recessed Lighting 2'x4'

Controls Accessories

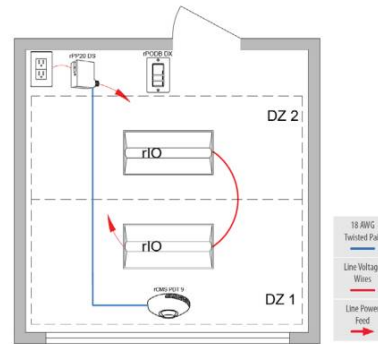
nLight® Wired Control Accessories:
 Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

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

nLight® AIR Control Accessories:
 Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

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

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.



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 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

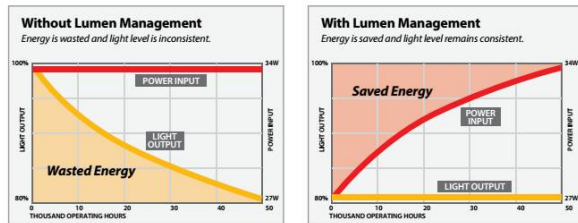
1 RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.



2BLT Volumetric Recessed Lighting 2'x4'

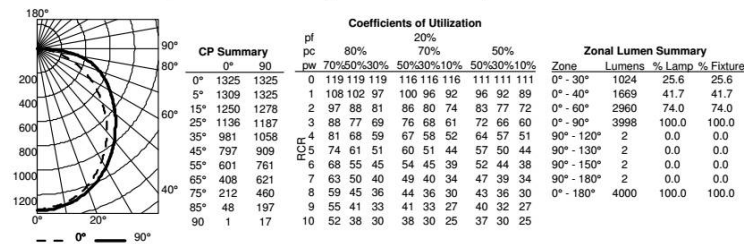
Constant Lumen Management

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.

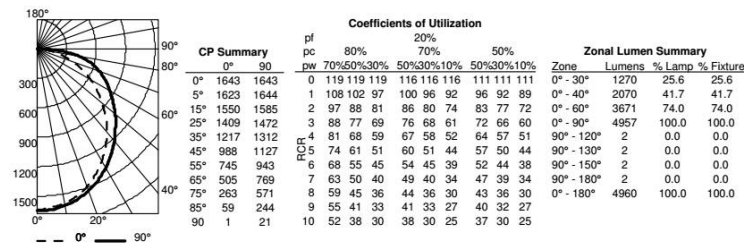


PHOTOMETRICS

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



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



Submitting Agency:
 503-262-2640

Description: **2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7**
 Project: **HSD Brown Middle School 20-52906-3**
 Notes: **2X4 troffer, 4960 lumens, with nLight PIR integral occupancy sensor**

Type: **D**

2BLT Volumetric Recessed Lighting 2'x4'

Performance Data					
Model Number	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30L ADP EZ1 (G21, GZ10) LP835 [All Options]	2962	127.31	23.26	Premium	PWJDEMHS
2BLT4 30L ADP EZ1 (G21, GZ10) LP840 [All Options]	3009.28	129.34	23.26	Premium	P18J5GLD
2BLT4 30L ADPT EZ1 (G21, GZ10) LP840 [All Options]	2969.16	127.62	23.26	Premium	P3HB2XSG
2BLT4 40L ADP EZ1 (G21, GZ10) LP835 [All Options]	4000	126.22	31.69	Premium	PDWKYXFD
2BLT4 40L ADP EZ1 (G21, GZ10) LP840 [All Options]	4063.86	128.23	31.69	Premium	PEYXAZWD
2BLT4 40L ADPT EZ1 (G21, GZ10) LP835 [All Options]	3946.66	124.53	31.69	Premium	P563CPK6
2BLT4 40L ADPT EZ1 (G21, GZ10) LP840 [All Options]	4009.67	126.52	31.69	Premium	PK79UR9W
2BLT4 48L ADP EZ1 (G21, GZ10) LP835 [All Options]	4960	130.5	38	Premium	PJ9CK6C1
2BLT4 48L ADP EZ1 (G21, GZ10) LP840 [All Options]	5039.18	132.58	38	Premium	P9W2R5AK
2BLT4 48L ADPT EZ1 (G21, GZ10) LP835 [All Options]	4893.86	128.76	38	Premium	PPFKZU3U
2BLT4 48L ADPT EZ1 (G21, GZ10) LP840 [All Options]	4971.99	130.82	38	Premium	PC8HMC9
2BLT4 60L ADP EZ1 (G21, GZ10) LP835 [All Options]	6016	126.39	47.59	Premium	PSJ6QERM
2BLT4 60L ADP EZ1 (G21, GZ10) LP840 [All Options]	6112.04	128.4	47.59	Premium	PVXQXPUV
2BLT4 60L ADPT EZ1 (G21, GZ10) LP835 [All Options]	5935.78	124.7	47.59	Premium	PHT84BW4
2BLT4 60L ADPT EZ1 (G21, GZ10) LP840 [All Options]	6030.55	126.69	47.59	Premium	PXV55BC8
2BLT4 72L ADP EZ1 (G210) LP840 [All Options]	7360.66	125.3	58.74	Premium	P5C222CB
2BLT4 72L ADP GZ1 LP835 [All Options]	7245	119.07	60.84	standard	PISHTCTS
2BLT4 72L ADP GZ1 LP840 [All Options]	7360.66	120.97	60.84	standard	PBERALG7
2BLT4 72L ADPT EZ1 (G21, GZ10) LP835 [All Options]	7148.4	117.48	60.84	standard	PDQ53CYK
2BLT4 72L ADPT EZ1 (G210) LP840 [All Options]	7262.52	123.63	58.74	Premium	P2KKMMVN
2BLT4 72L ADPT GZ1 LP840 [All Options]	7262.52	119.36	60.84	standard	P10DUPCO
2BLT4 85L ADP EZ1 (G21, GZ10) LP835 [All Options]	8567	116.43	73.58	standard	PYD2G06V
2BLT4 85L ADP EZ1 (G21, GZ10) LP840 [All Options]	8703.77	118.28	73.58	standard	P824IV4X
2BLT4 85L ADPT EZ1 (G21, GZ10) LP835 [All Options]	8452.72	114.87	73.58	standard	PTZEW3QM
2BLT4 85L ADPT EZ1 (G21, GZ10) LP840 [All Options]	8587.72	116.71	73.58	standard	P01DMEK9
2BLT4 100L ADP EZ1 (G21, GZ10) LP835 [All Options]	9837	103.14	95.36	standard	PGDES20R
2BLT4 100L ADP EZ1 (G21, GZ10) LP840 [All Options]	9994.04	104.79	95.36	standard	P007CHGX
2BLT4 100L ADPT EZ1 (G21, GZ10) LP835 [All Options]	9705.84	101.77	95.36	standard	PSZUQY7M
2BLT4 100L ADPT EZ1 (G21, GZ10) LP840 [All Options]	9860.79	103.39	95.36	standard	P6V6X6HY
2BLT4 120L ADP EZ1 (G21, GZ10) LP835 [All Options]	11709	118.18	99.07	standard	PGM4Y7DP
2BLT4 120L ADP EZ1 (G21, GZ10) LP840 [All Options]	11895.9	120.07	99.07	standard	P00DDCG2
2BLT4 120L ADPT EZ1 (G21, GZ10) LP835 [All Options]	11552.9	116.61	99.07	standard	PXM0FS09
2BLT4 120L ADPT EZ1 (G21, GZ10) LP840 [All Options]	11737.3	118.47	99.07	standard	PJ4GEBZM

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.

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 = Output 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.

HE Performance Data					
Model Number	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	3107	135.17	22.98	Premium	P7KEICW5
2BLT4 30LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	3156.6	137.33	22.98	Premium	PD0M06BH
2BLT4 30LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	3065.57	133.37	22.98	Premium	P7P2AJDZ
2BLT4 30LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	3114.51	135.5	22.98	Premium	P2N23EBP
2BLT4 40LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	4085	138.56	29.48	Premium	P67P655Y
2BLT4 40LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	4150.21	140.77	29.48	Premium	P95UQD66
2BLT4 40LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	4030.53	136.71	29.48	Premium	PC15DQEC
2BLT4 40LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	4094.88	138.89	29.48	Premium	PGRC5J2T
2BLT4 48LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	4770	138.16	34.52	Premium	PXBJBGN8
2BLT4 48LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	4846.15	140.37	34.52	Premium	PSP05RRX
2BLT4 48LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	4706.4	136.32	34.52	Premium	P2NK2H33
2BLT4 48LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	4781.53	138.5	34.52	Premium	PK8C1321
2BLT4 60LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	5894	135.12	43.61	Premium	PQZN176R
2BLT4 60LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	5988.09	137.28	43.61	Premium	PG5CYJUC
2BLT4 60LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	5815.41	133.32	43.61	Premium	PZ72TAWM
2BLT4 60LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	5908.25	135.45	43.61	Premium	PRC4W72B
2BLT4 72LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	7149	135.94	52.58	Premium	PUB38GEQ
2BLT4 72LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	7263.13	138.11	52.58	Premium	P7GDH2TN
2BLT4 72LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	7053.68	134.12	52.58	Premium	P5CC2VKV
2BLT4 72LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	7166.29	136.26	52.58	Premium	P6P1BKDM
2BLT4 85LHE ADP EZ1 (G21, GZ10) LP835 [All Options]	8158	128.96	63.25	Premium	PRTW6BXW
2BLT4 85LHE ADP EZ1 (G21, GZ10) LP840 [All Options]	8288.24	131.02	63.25	Premium	P64H1V2D6
2BLT4 85LHE ADPT EZ1 (G21, GZ10) LP835 [All Options]	8049.22	127.24	63.25	Premium	P1VG5TA3
2BLT4 85LHE ADPT EZ1 (G21, GZ10) LP840 [All Options]	8177.73	129.27	63.25	Premium	PNSBKJ6E

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.



Submitting Agency:



503-262-2640

Description: **DGA24**

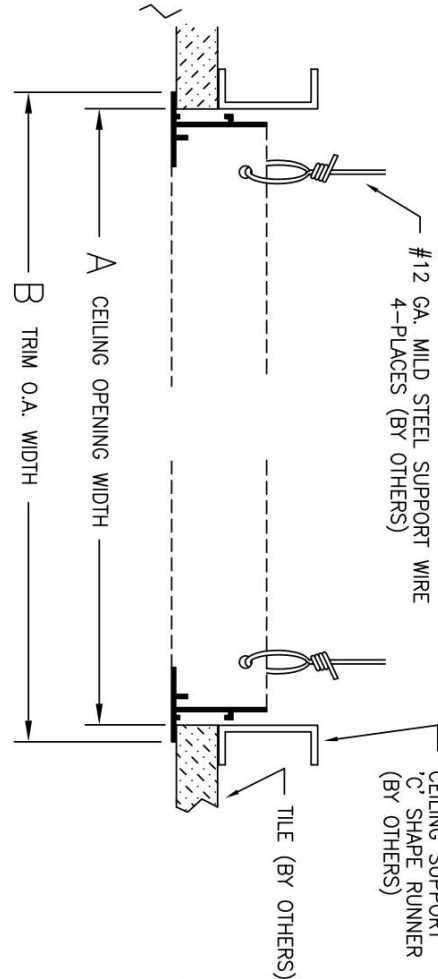
Project: **HSD Brown Middle School 20-52906-3**

Notes:

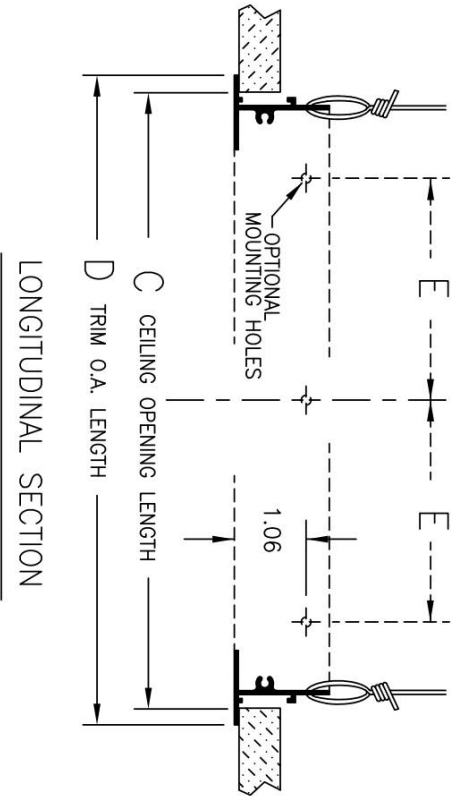
Type:

D

PART NO. U2259

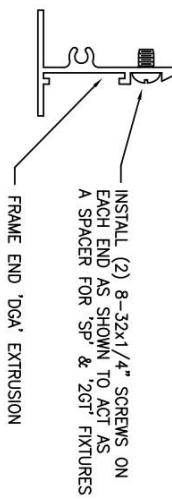
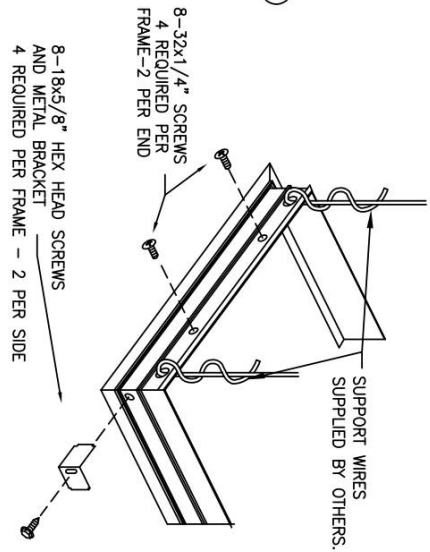


CROSS SECTION



LONGITUDINAL SECTION

ASSEMBLY INSTRUCTIONS
DGA FRAMES



TOLERANCE ON CEILING OPENING = + 1/8" - 0"

NOMENCLATURE	FIXTURE SIZE NOMINAL	WIDTH		LENGTH		
		A	B	C	D	E
DGA12	1 X 2	12-3/4"	13-3/8"	24-3/4"	25-3/8"	9"
DGA14	1 X 4	12-3/4"	13-3/8"	48-3/4"	49-3/8"	21"
DGA22	2 X 2	24-3/4"	25-3/8"	24-3/4"	25-3/8"	9"
DGA24	2 X 4	24-3/4"	25-3/8"	48-3/4"	49-3/8"	21"
DGA44	4 X 4	48-3/4"	49-3/8"	48-3/4"	49-3/8"	21"
DGA64	6 X 4	6-3/4"	7-3/8"	48-3/4"	49-3/8"	21"
DGA204	20" X 4	20-3/4"	21-3/8"	48-3/4"	49-3/8"	21"
DGA13	1 X 3	12-3/4"	13-3/8"	36-3/4"	37-3/8"	15"

Submitting Agency:  503-262-2640	Description: LQM S W 3 G 120/277 EL N M6 Project: HSD Brown Middle School 20-52906-3 Notes:	Type: X
---	--	--------------------------



FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring attractive, quick-installation exit signs and low energy consumption.

CONSTRUCTION — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant, and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.

Rugged unibody housing snaps together with no additional mechanical fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet easily removable for lamp compartment access.

Universal directional Chevron inserts are easily removed and reinserted. Uniform illumination without shadows or hot spots. Reinforced, impact-resistant color panels. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.

U.S. Patent No. 5,526,251; 5,611,163; 5,739,639; 5,954,423; 5,988,825; 6,152,581; D383,501; D495,751 and 6,502,044. Other patents pending.

OPTICS — LEDs mounted on printed circuit boards. Low energy consumption – less than one watt. LED lamp operates in normal (AC input) and emergency (DC input) modes.

The typical life of the exit LED lamp is 10 years.

ELECTRICAL — Dual voltage input capability (120/277V).

Low-voltage disconnect prevents excessively deep discharge that can permanently damage battery. Conveniently located test switch and LED provide visual and manual means of monitoring system.

Constant-current series charger minimizes energy consumption and provides low operating costs. Printed circuit boards are 100% quality tested during manufacturing. Current-limiting charger circuitry protects printed circuit boards from shorts.

AC/LV reset (line latch) allows battery connection before AC power is applied and aids in preventing battery damage from deep discharge.

Crystal oscillator timing system with watchdog protection for precision accuracy.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.

Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minutes capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge.

Diagnostics: Single-point microcomputer control for all electronic features.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months.

Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

INSTALLATION — Universal (top-, end-, or back-) mounting. Easily removed mounting knockouts. J-box pattern on back panel. Housing snaps to canopy with four positive-locking tabs. Cam-locking pin tightly secures housing to canopy.

Ships standard with additional face plate.

LISTINGS — UL damp location listed 50°-104°F (10°-40°C) standard. NOM Certified (see options). Meets UL924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

Catalog Number
Notes
Type



Thermoplastic Exits

LQM

LED LAMPS



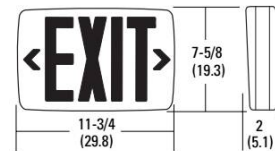
Specifications

Length: 11-3/4 (29.8)

Depth: 2 (5.1)

Height: 7-5/8 (19.3)

Weight: 2.6 lbs (1.2 kgs)



All dimensions are inches (centimeters) unless otherwise specified.

WARRANTY — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/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.

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

CS Looking for Contractor Select readily available configurations? Click here to visit Contractor Select™ spec sheet or go to www.contractorselect.com

ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

Example: LQM S W 3 R 120/277 EL N

LQM	Family	Face type	Housing color	Number of faces	Letter color	Input voltage ²	Operation	Options
	LQM	S Stencil P Panel ¹	(blank) Black W White	3 Single face with extra faceplate and color panel	R Red G Green	120/277 Dual voltage	(blank) AC only X2 Primary and secondary AC inputs provided ³ EL N Nickel cadmium battery	(blank) None NOM NOM certified for Mexico ⁴ SD Self-diagnostics ⁵

Accessories: Order as separate item.			
ELA WG1	Back-mount wireguard ⁶	ELA WGEXE	End-mount wireguard ⁶
ELA WGEXT	Top-mount wireguard ⁶	ELA LQMUS12	12" stem kit ⁷

Notes

- 1 Only available in custom signage. See spec sheet, [Custom-Signage](#).
- 2 Some special voltages available. Consult factory.
- 3 Not available with other options. Both circuits can be energized at the same time.
- 4 Available with stencil face and white housing only.
- 5 Only available with EL N operation.
- 6 See spec sheet [ELA-WG](#).
- 7 See spec sheet [ELA-Stemkits](#).

LQM LED, Quantum®

SPECIFICATIONS

ELECTRICAL				
Primary Circuit				
Type ¹	Typical LED life ²	Supply voltage	Input watts	Max. amps
Red LED AC Only	10 years	120	.62	.05
		277	.69	.06
Green LED AC Only	10 years	120	.62	.05
		277	.74	.06
Red LED Emergency	10 years	120	.71	.05
		277	.92	.06
Green LED Emergency	10 years	120	.66	.05
		277	.70	.06

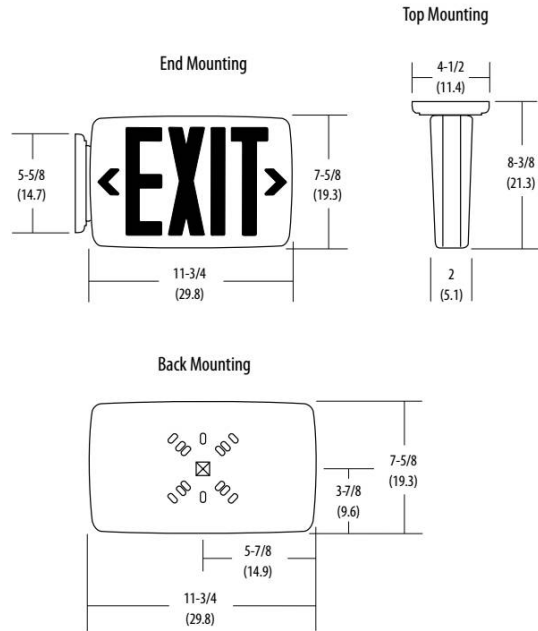
BATTERY				
Nickel Cadmium				
Voltage	Typical shelf life ³	Typical life ³	Maintenance ⁴	Temperature range ⁵
1.2	3 years	7-9 years	none	50°F - 104°F (10°C - 40°C)

Notes

- LED lamps operate in normal (AC input) and emergency (DC input) modes.
- Based on continuous operation. The typical life of the exit LED lamp is 10 years.
- At 77°F (25°C).
- All life safety equipment, including emergency lighting for path of egress must be maintained, serviced and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.

MOUNTING

All dimensions are inches (centimeters) unless otherwise specified.
 Shipping weight: 2.6 lbs. (1.2 kgs.)



Submitting Agency:  503-262-2640	Description: RPODLA DX MVOLT WH G2 Project: HSD Brown Middle School 20-52906-3 Notes: LV2 switches	Type:
---	---	--------------

Catalog Number: _____ Date: _____ Project: _____

OVERVIEW

The nLight® AIR rPODLA is a wireless, line-powered wall switch that provides a user with local control of a lighting zone. These single gang decorator style devices have soft-click buttons and a green LED indicator for each button. The rPODLA wall switches communicate with other nLight AIR devices via radio frequency (RF). A line-powered wall switch can work with any nLight AIR enabled fixture or power pack to provide toggle switch operation with multi-pole and preset scene control. Wall switches with the DX option have the added ability to adjust the level of any nLight AIR controlled dimmable light fixture or on/off/dimming control of a single zone for preset scene switches.

FEATURES

- Communicates with nLight® AIR devices via radio frequency (RF) in the 900MHz spectrum
- Soft-click push-button control with LED feedback upon press
- Remotely configurable/upgradeable
- Single pole or two pole on/off control with optional raise/lower option ("DX" option)
- 2 or 4 preset scene control fully configurable via Clarity Pro mobile app
- Wireless multi location preset scene recall and on/off/dimming control

Warranty

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions
Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution. To learn more about A+, visit www.acuitybrands.com/aplus.

nLight, nLight AIR and the Acuity Controls and Acuity Brands logos are trademarks of Acuity Brands. Bluetooth is a trademark of Bluetooth SIG, Inc. used by Acuity Brands under license. Apple and the Apple logo are trademarks of Apple Inc. Android and Google Play are trademarks of Google, Inc. Other trademarks are property of their respective owners.



*nLight® AIR
rPODLA:
Wireless Line powered
Wall Switches*



Note: nLight® AIR devices are only compatible with other nLight AIR enabled devices; and is not cross compatible with other nLight product lines at this time.

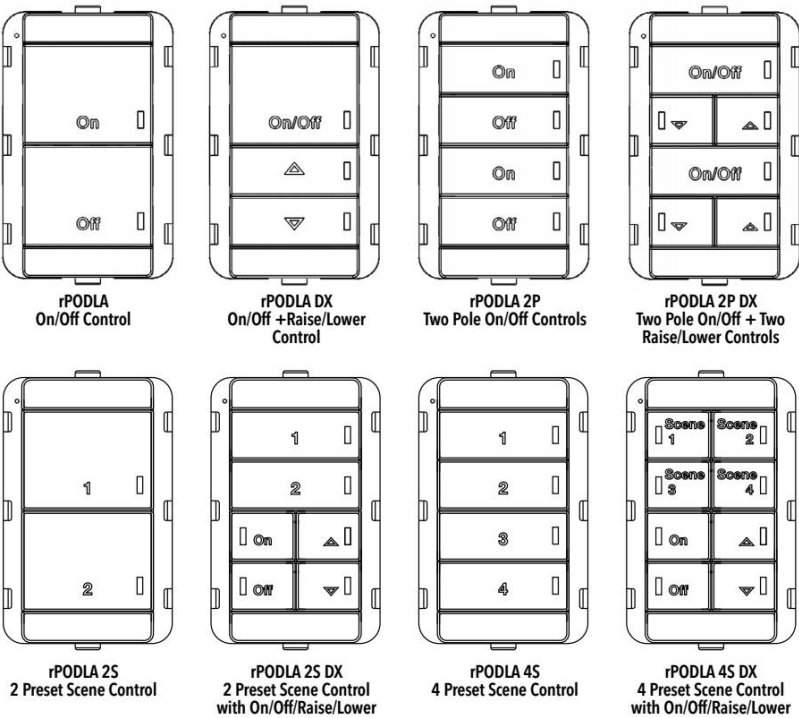
ORDERING INFORMATION

Example: RPODLA 2P DX MVOLT WH G2					
Series	Poles & Scenes	Dimming Control	Voltage	Color	Generation
RPODLA	[blank] Single Pole 2P Two Pole 2S Two Preset Scene Control 4S Four Preset Scene Control	[blank] On/off Control DX On/off + Raise/Lower Control	MVOLT 120-277 VAC 347 347 VAC	WH White IV Ivory AL Light Almond GY Gray RD Red BK Black	G2 Generation 2 Compatibility

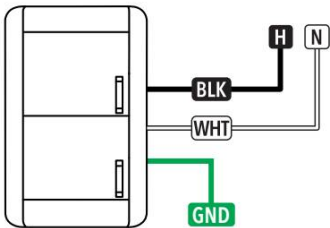
SPECIFICATIONS

Dimensions 2.74" H x 1.68" W x 1.78" D (6.96 cm x 4.27 cm x 4.52 cm)
 Weight 4.25 oz
 Mounting Single Gang Switch Box or Low Voltage Ring
 Color White, Ivory, Lt. Almond, Gray, Red, Black
 Operating Temperature 0C to 60C (Indoor Use Only)
 Relative Humidity Standard: 20 to 75% non-condensing
 Input Power < 1 watt
 Radio Frequency Dual Radio: 900Mhz & 2.4GHz
 RF Transmit Power 900Mhz: +20dBm; 2.4GHz: Variable
 Wireless Standard 900MHz: IEEE 802.15.4-based
 2.4GHz: Version 4.0+ of the Bluetooth specification
 Security Application Data Encryption: AES-128 bit
 Mutual Entity Authentication
 Message Confidentiality
 Message Authentication and Replay Prevention
 Limited Anonymity
 Regulatory Compliance FCC, IC, IFETEL, RoHS
 Programming Tool Clarity PRO Mobile App

DEFAULT LABELING



WIRING



Submitting Agency:  503-262-2640	Description: RPP20 D ER EFP G2 Project: HSD Brown Middle School 20-52906-3 Notes: local power pack with integral UL924 relay	Type:
---	---	--------------

Catalog Number: _____ Date: _____ Project: _____

OVERVIEW

The nLight AIR rPP family of power packs are lighting control devices designed to offer flexible control for commercial and industrial lighting applications. The rPP consists of a relay, 0-10V dimming control, and a low voltage power supply output to power and wireless sensors. The rPP is capable of switching loads up to 20 A via a latching relay designed with robust inrush protection from the harsh switching requirements of fluorescent and LED loads. Select power packs provide +24VDC low voltage output to power up to 4 nLight AIR mounted occupancy sensors and photocells. The nLight AIR rPP is designed for use as part of an nLight AIR group of devices or with nLight Eclipse.

POWER PACK FEATURES

- On/Off and dimming control of a luminaire or groups of luminaires (up to 20A loads)
- 24VDC output to power up to 4 nLight AIR rCMS low voltage sensors or other low voltage devices
- Suitable for plug load control
- UL924 listed options for simplified lighting control on emergency lighting circuits

INSTALLATION FEATURES

- Wireless communication enables simple retrofits - no communication wires to pull between devices
- Chase nipple or side output dimming options
- UL2043 listed for plenum applications
- An optional external antenna (CP option) for meeting code specific requirements or IP-rated applications
- Simple app-based configuration of space behaviors

ADVANCED WIRELESS FEATURES

- Devices intercommunicate to provide grouped-response to motion and on/off and dimming response to daylight conditions when wirelessly connected to a motion or daylight sensor, or on/off/dimming when connected to a wireless switch
- Fully compatible with other nLight AIR devices on the site
- Easy to integrate into the nLight Eclipse which provides site-wide lighting control through nLight's SensorView software and further BMS integration
- Advanced wireless security measures providing peace-of-mind

Warranty

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

nLight, nLight AIR and the Acuity Controls and Acuity Brands logos are trademarks of Acuity Brands. Bluetooth is a trademark of Bluetooth SIG, Inc. used by Acuity Brands under license. Apple and the Apple logo are trademarks of Apple Inc. Android and Google Play are trademarks of Google, Inc. Other trademarks are property of their respective owners. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.



nLight® AIR
rPP20
Power/Relay Pack




ORDERING INFORMATION

Example: rPP20 D 24V EFP G2				
Series	Dimming and Low Voltage Output		Emergency	Fault Protection
RPP20 nLight Air Power/Relay Pack	24V No dimming, 24V Output Terminals	DS 0-10VDC dimming output (via side leads), no 24V output terminals	[blank] None	EFP External Fault Protection
	D 0-10VDC Dimming output (via chase nipple), no 24V Output Terminals	DS 24V 0-10VDC Dimming output (via side leads), 24V Output Terminals	ER UL924 Emergency Operation, via power sense leads	
	D 24V 0-10VDC dimming output (via chase nipple), 24V output terminals		EM UL924 Emergency Operation, via power interrupt detection	

Territory Compliance	Voltage	Generation
[blank] None	[blank] 120-277V	G2 Generation 2 compatibility
CP ¹ Chicago Plenum	UVOLT 120-480V	

ACCESSORIES
NPP FUSE J10 Replacement Fuse (10 Pack)

Notes
1. Not available with UVOLT model.

Submitting Agency:  503-262-2640	Description: RPP20 D ER EFP G2 Project: HSD Brown Middle School 20-52906-3 Notes: local power pack with integral UL924 relay	Type:
---	---	--------------

SPECIFICATIONS

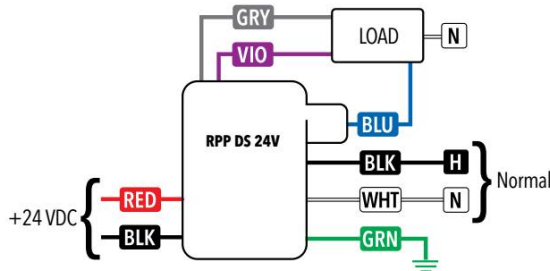
<p>Size: 3.50" x 3.52" x 1.82" (120-277V model) 4.725" x 4.80" x 1.865" (UVOLT model)</p> <p>Weight: 6 oz</p> <p>Mounting: 1/2" Knockout</p> <p>Color: White (standard), Red (ER & EM)</p> <p>Humidity: 5 to 95% non-condensing</p> <p>Location: Damp Location Rating</p> <p>Wires: Line and load 12 AWG stranded Neutral, ground, and power sense (ER version) 18 AWG stranded 0-10V, 20 AWG stranded</p> <p>Operating Voltage: 120-277VAC, 120-480VAC (UVOLT)</p> <p>Relay type: Latching</p> <p>Frequency: 50/60Hz</p>	<p>DC Output Terminals: Push-in Terminals, solid or tinned 16-20AWG</p> <p>DC Output Voltage/Current: 24 VDC, 100 mA max output</p> <p>0-10V Dimming: Sinks 150mA; 0-10VDC dimmable ballasts or LED drivers; Class 2</p> <p>Radio Frequencies: 900 MHz up to +20dBm, 2.4 GHz up to +10 dBm</p> <p>Wireless Standard: 900 MHz: IEEE 802.15.4-based; 2.4 GHz: Version 4.0+ of the Bluetooth specification</p> <p>Security: Application Data Encryption AES-128 bit, Mutual Entity Authentication, Message Confidentiality, Message Authentication and Replay Prevention, Limited Anonymity</p> <p>Complies with California Civil Code Title 1.81.26, Security of Connected Devices, approved under Senate Bill No. 327 (2018)</p> <p>FCC/IC IDs: FCC: 2ADCB-RMODIT IC: 6715C-RMODIT IFETEL: RCPACRM18-1879</p>
---	--

Temperature and Load Ratings:

Model	rPP20 (-10 to 50 C)		rPP20 (-10 to 60 C)		rPP20 UVOLT			
Voltage	120 VAC	277 VAC	120 VAC	277 VAC	120 VAC	277 VAC	347 VAC	480 VAC
General Purpose	20 A	20 A	5 A	5 A	20 A	20 A	20 A	5 A
Tungsten	20 A	20 A	5 A	5 A	20 A	20 A	20 A	5 A
Standard Ballast	20 A	20 A	5 A	5 A	20 A	20 A	20 A	5 A
Electronic Ballast	16 A	16A	5 A	5 A	16 A	16 A	16 A	5 A
Motor	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	3/4 HP	1/2 HP

WIRING (Do not wire hot)

RPP D/DS 24V

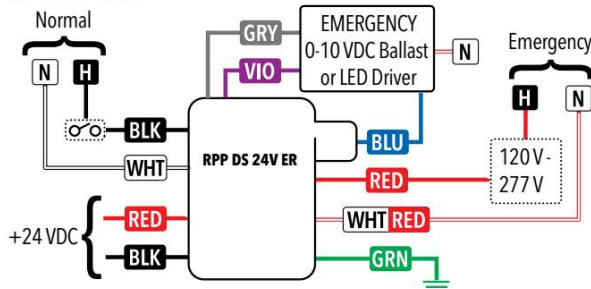


Legend


BLK - Unswitched Hot 120-277VAC or 120-480VAC (UVOLT)
 WHT - Neutral
 BLU - Switched Output
 VIO - 0-10V Dim
 GRY - 0-10V Common
 RED (Terminal) - +24VDC
 BLK (Terminal) - DC Common
 GRN - Ground

WIRING FOR EMERGENCY (-ER) UNITS

RPP D/DS 24V ER



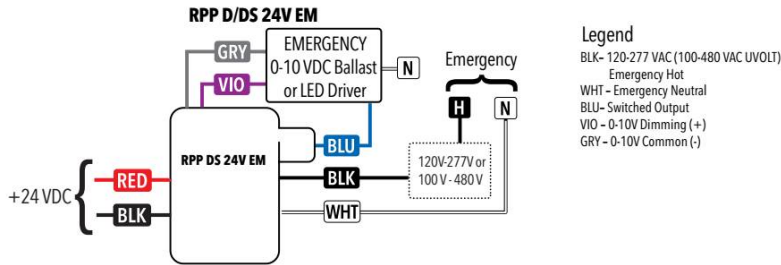
Legend

RED - 120-277VAC Emer. Hot
 WHT/RED - Emer. Neutral
 BLK - Unswitched Norm. Hot
 WHT - Norm. Neutral
 BLU - Switched Output
 VIO - 0-10V Dim (+)
 GRY - 0-10V Com (-)
 RED (Terminal) - +24VDC
 BLK (Terminal) - DC Com
 GRN - Ground
 - Optional Test Switch (by others)

UL924 Sequence of Operation: When normal power sense leads have absence of voltage

- Relay is closed and 0-10V dimming is at high end trim level
- Device ignores wireless lighting control commands
- 24VDC output is disabled

WIRING FOR EMERGENCY (-EM) UNITS



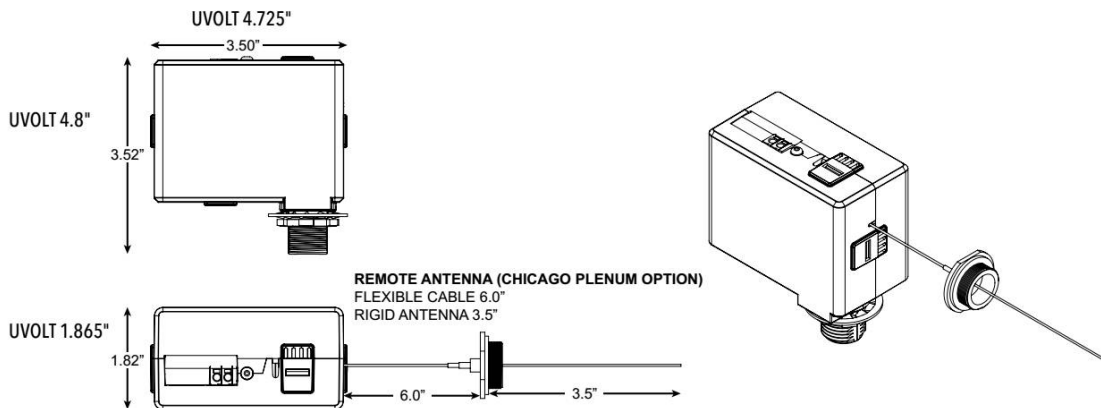
Legend
 BLK- 120-277 VAC (100-480 VAC UVOLT)
 Emergency Hot
 WHT - Emergency Neutral
 BLU- Switched Output
 VIO - 0-10V Dimming (+)
 GRY - 0-10V Common (-)

UL924 Sequence of Operation:

For 90 minutes following any complete AC power interruption >30 ms:

- Relay is closed and 0-10V dimming is at high end trim level
- Device ignores wireless lighting control commands
- 24V output is disabled
- If another nLight AIR device in the nLight AIR group (as defined by Clairity Pro) is on normal power, and has its power restored prior to the 90-minute timeout, the "EM" device will exit this override state and return to normal operation. This is accomplished by having a normal power device send an "exit EM" message to the "EM" device
- Devices that will send the "exit EM" command when normal power is present
 - Dimming Power Pack Devices (rPP20 D/DS)
 - ER Non-Dimming and Dimming Power Pack Devices (rPP20 D/DS ER)
 - Other nLight AIR Non-"EM" Devices (rLSXR, rSBOR, rSDGR, rIO, rES7, rMSOD)
- Devices that will not send the "exit EM" command when normal power is present
 - Non-Dimming Power Pack Devices (rPP20)
 - Other nLight AIR "EM" Devices (rPP20 EM, rLSXR EM, rSBOR EM, rSDGR EM, rIO EM, rES7 EM, rMSOD EM)
 - Ceiling Mount Sensors (rCMS)
 - Wall Switches (rPODB, rPODL)
 - nLight Air Adapter (nECYD)
- Upon power up, "EM" devices will be at high trim setting for 90 minutes. During commissioning with Clairity Pro, the device will exit this override when a device is identified or added to the grid.

DIMENSIONS



Submitting Agency:  503-262-2640	Description: RPODLA MVOLT WH G2 Project: HSD Brown Middle School 20-52906-3 Notes: LV1 switches	Type:
---	--	--------------

Catalog Number:

Date:

Project:

OVERVIEW

The nLight® AIR rPODLA is a wireless, line-powered wall switch that provides a user with local control of a lighting zone. These single gang decorator style devices have soft-click buttons and a green LED indicator for each button. The rPODLA wall switches communicate with other nLight AIR devices via radio frequency (RF). A line-powered wall switch can work with any nLight AIR enabled fixture or power pack to provide toggle switch operation with multi-pole and preset scene control. Wall switches with the DX option have the added ability to adjust the level of any nLight AIR controlled dimmable light fixture or on/off/dimming control of a single zone for preset scene switches.

FEATURES

- Communicates with nLight® AIR devices via radio frequency (RF) in the 900MHz spectrum
- Soft-click push-button control with LED feedback upon press
- Remotely configurable/upgradeable
- Single pole or two pole on/off control with optional raise/lower option ("DX" option)
- 2 or 4 preset scene control fully configurable via Clarity Pro mobile app
- Wireless multi location preset scene recall and on/off/dimming control

Warranty

Five-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.

nLight, nLight AIR and the Acuity Controls and Acuity Brands logos are trademarks of Acuity Brands. Bluetooth is a trademark of Bluetooth SIG, Inc. used by Acuity Brands under license. Apple and the Apple logo are trademarks of Apple Inc. Android and Google Play are trademarks of Google, Inc. Other trademarks are property of their respective owners.



nLight® AIR rPODLA: Wireless Line powered Wall Switches



Note: nLight® AIR devices are only compatible with other nLight AIR enabled devices; and is not cross compatible with other nLight product lines at this time.

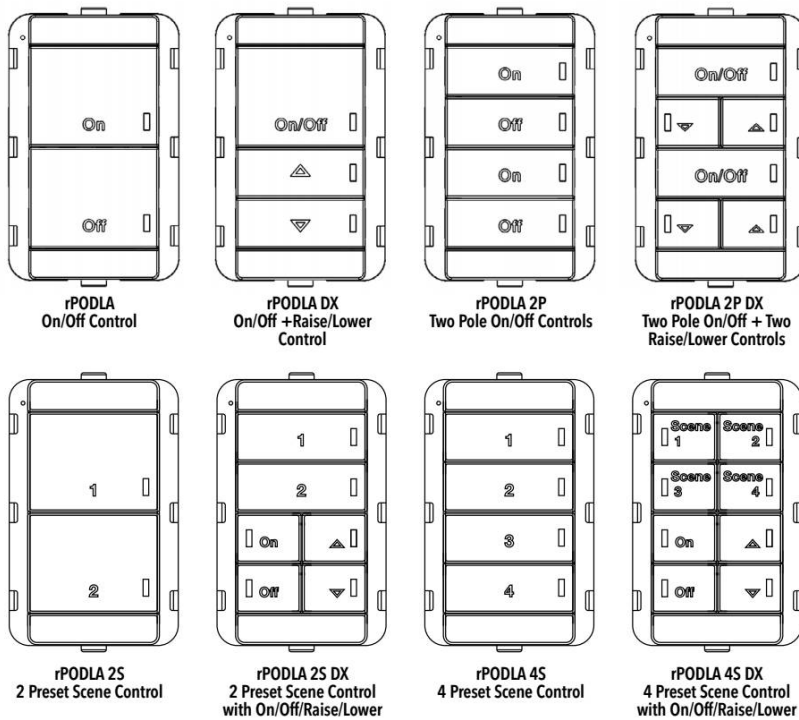
ORDERING INFORMATION

Example: RPODLA 2P DX MVOLT WH G2					
Series	Poles & Scenes	Dimming Control	Voltage	Color	Generation
RPODLA	[blank] Single Pole 2P Two Pole 2S Two Preset Scene Control 4S Four Preset Scene Control	[blank] On/off Control DX On/off + Raise/Lower Control	MVOLT 120-277 VAC 347 347 VAC	WH White IV Ivory AL Light Almond GY Gray RD Red BK Black	G2 Generation 2 Compatibility

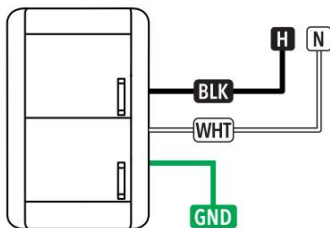
SPECIFICATIONS

Dimensions 2.74" H x 1.68" W x 1.78" D (6.96 cm x 4.27 cm x 4.52 cm)
 Weight 4.25 oz
 Mounting Single Gang Switch Box or Low Voltage Ring
 Color White, Ivory, Lt. Almond, Gray, Red, Black
 Operating Temperature 0C to 60C (Indoor Use Only)
 Relative Humidity Standard: 20 to 75% non-condensing
 Input Power < 1 watt
 Radio Frequency Dual Radio: 900Mhz & 2.4GHz
 RF Transmit Power 900Mhz: +20dBm; 2.4GHz: Variable
 Wireless Standard 900MHz: IEEE 802.15.4-based
 2.4GHz: Version 4.0+ of the Bluetooth specification
 Security Application Data Encryption: AES-128 bit
 Mutual Entity Authentication
 Message Confidentiality
 Message Authentication and Replay Prevention
 Limited Anonymity
 Regulatory Compliance FCC, IC, IFETEL, RoHS
 Programming Tool Clarity PRO Mobile App

DEFAULT LABELING



WIRING



Submitting Agency:  503-262-2640	Description: RPP20 D EFP G2 Project: HSD Brown Middle School 20-52906-3 Notes: local power packs w/dimming	Type:
---	---	--------------

Catalog Number:

Date:

Project:

OVERVIEW

The nLight AIR rPP family of power packs are lighting control devices designed to offer flexible control for commercial and industrial lighting applications. The rPP consists of a relay, 0-10V dimming control, and a low voltage power supply output to power and wireless sensors. The rPP is capable of switching loads up to 20 A via a latching relay designed with robust inrush protection from the harsh switching requirements of fluorescent and LED loads. Select power packs provide +24VDC low voltage output to power up to 4 nLight AIR mounted occupancy sensors and photocells. The nLight AIR rPP is designed for use as part of an nLight AIR group of devices or with nLight Eclipse.

POWER PACK FEATURES

- On/Off and dimming control of a luminaire or groups of luminaires (up to 20A loads)
- 24VDC output to power up to 4 nLight AIR rCMS low voltage sensors or other low voltage devices
- Suitable for plug load control
- UL924 listed options for simplified lighting control on emergency lighting circuits

INSTALLATION FEATURES

- Wireless communication enables simple retrofits - no communication wires to pull between devices
- Chase nipple or side output dimming options
- UL2043 listed for plenum applications
- An optional external antenna (CP option) for meeting code specific requirements or IP-rated applications
- Simple app-based configuration of space behaviors

ADVANCED WIRELESS FEATURES

- Devices intercommunicate to provide grouped-response to motion and on/off and dimming response to daylight conditions when wirelessly connected to a motion or daylight sensor, or on/off/dimming when connected to a wireless switch
- Fully compatible with other nLight AIR devices on the site
- Easy to integrate into the nLight Eclipse which provides site-wide lighting control through nLight's SensorView software and further BMS integration
- Advanced wireless security measures providing peace-of-mind

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

nLight, nLight AIR and the Acuity Controls and Acuity Brands logos are trademarks of Acuity Brands. Bluetooth is a trademark of Bluetooth SIG, Inc. used by Acuity Brands under license. Apple and the Apple logo are trademarks of Apple Inc. Android and Google Play are trademarks of Google, Inc. Other trademarks are property of their respective owners. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.



nLight® AIR rPP20 Power/Relay Pack



ORDERING INFORMATION

Example: rPP20 D 24V EFP G2				
Series	Dimming and Low Voltage Output		Emergency	Fault Protection
RPP20 nLight Air Power/Relay Pack	24V D	No dimming, 24V Output Terminals 0-10VDC Dimming output (via chase nipple), no 24V Output Terminals	DS DS 24V	0-10VDC dimming output (via side leads), no 24V output terminals 0-10VDC Dimming output (via side leads), 24V Output Terminals
	D 24V	0-10VDC dimming output (via chase nipple), 24V output terminals		[blank] None ER UL924 Emergency Operation, via power sense leads EM UL924 Emergency Operation, via power interrupt detection
				EFP External Fault Protection

Territory Compliance	Voltage	Generation
[blank] None CP ¹ Chicago Plenum	[blank] 120-277V UVOLT 120-480V	G2 Generation 2 compatibility

ACCESSORIES
NPP FUSE J10 Replacement Fuse (10 Pack)

Notes
 1. Not available with UVOLT model.

Submitting Agency:  503-262-2640	Description: RPP20 D EFP G2 Project: HSD Brown Middle School 20-52906-3 Notes: local power packs w/dimming	Type:
---	---	--------------

SPECIFICATIONS

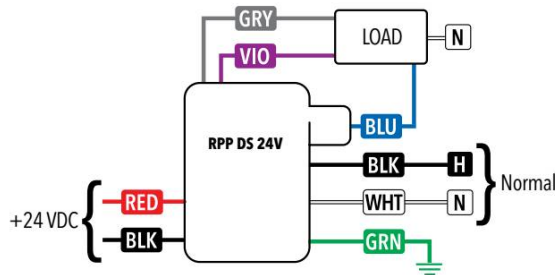
<p>Size: 3.50" x 3.52" x 1.82" (120-277V model) 4.725" x 4.80" x 1.865" (UVOLT model)</p> <p>Weight: 6 oz</p> <p>Mounting: 1/2" Knockout</p> <p>Color: White (standard), Red (ER & EM)</p> <p>Humidity: 5 to 95% non-condensing</p> <p>Location: Damp Location Rating</p> <p>Wires: Line and load 12 AWG stranded Neutral, ground, and power sense (ER version) 18 AWG stranded 0-10V, 20 AWG stranded</p> <p>Operating Voltage: 120-277VAC, 120-480VAC (UVOLT)</p> <p>Relay type: Latching</p> <p>Frequency: 50/60Hz</p>	<p>DC Output Terminals: Push-in Terminals, solid or tinned 16-20AWG</p> <p>DC Output Voltage/Current: 24 VDC, 100 mA max output</p> <p>0-10V Dimming: Sinks 150mA; 0-10VDC dimmable ballasts or LED drivers; Class 2</p> <p>Radio Frequencies: 900 MHz up to +20dBm, 2.4 GHz up to +10 dBm</p> <p>Wireless Standard: 900 MHz: IEEE 802.15.4-based; 2.4 GHz: Version 4.0+ of the Bluetooth specification</p> <p>Security: Application Data Encryption AES-128 bit, Mutual Entity Authentication, Message Confidentiality, Message Authentication and Replay Prevention, Limited Anonymity</p> <p>Complies with California Civil Code Title 1.81.26, Security of Connected Devices, approved under Senate Bill No. 327 (2018)</p> <p>FCC/IC IDs: FCC: 2ADCB-RMODIT IC: 6715C-RMODIT IFETEL: RCPACRM18-1879</p>
--	--

Temperature and Load Ratings:

Model	rPP20 (-10 to 50 C)		rPP20 (-10 to 60 C)		rPP20 UVOLT			
Voltage	120 VAC	277 VAC	120 VAC	277 VAC	120 VAC	277 VAC	347 VAC	480 VAC
General Purpose	20 A	20 A	5 A	5 A	20 A	20 A	20 A	5 A
Tungsten	20 A	20 A	5 A	5 A	20 A	20 A	20 A	5 A
Standard Ballast	20 A	20 A	5 A	5 A	20 A	20 A	20 A	5 A
Electronic Ballast	16 A	16A	5 A	5 A	16 A	16 A	16 A	5 A
Motor	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	3/4 HP	1/2 HP

WIRING (Do not wire hot)

RPP D/DS 24V

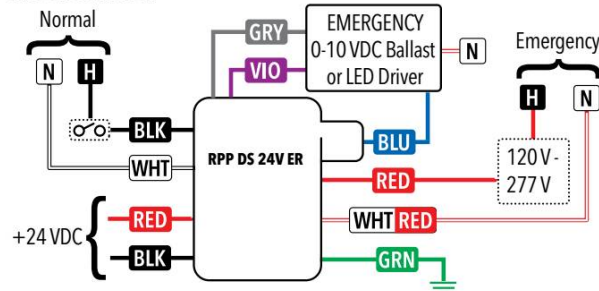


Legend


- BLK - Unswitched Hot 120-277VAC or 120-480VAC (UVOLT)
- WHT - Neutral
- BLU - Switched Output
- VIO - 0-10V Dim
- GRY - 0-10V Common
- RED (Terminal) - +24VDC
- BLK (Terminal) - DC Common
- GRN - Ground

WIRING FOR EMERGENCY (-ER) UNITS

RPP D/DS 24V ER



Legend

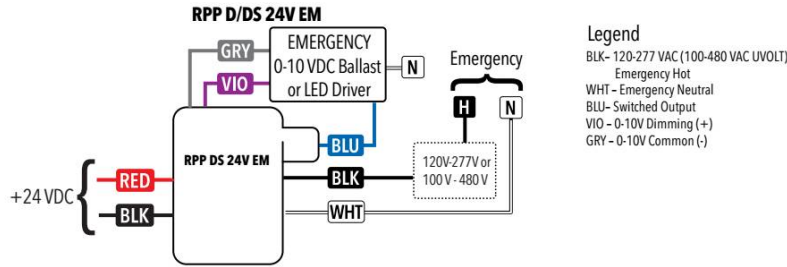
- RED - 120-277VAC Emer. Hot
- WHT/RED - Emer. Neutral
- BLK - Unswitched Norm. Hot
- WHT - Norm. Neutral
- BLU - Switched Output
- VIO - 0-10V Dim (+)
- GRY - 0-10V Com (-)
- RED (Terminal) - +24VDC
- BLK (Terminal) - DC Com
- GRN - Ground
-  - Optional Test Switch (by others)

UL924 Sequence of Operation: When normal power sense leads have absence of voltage

- Relay is closed and 0-10V dimming is at high end trim level
- Device ignores wireless lighting control commands
- 24VDC output is disabled

Submitting Agency:  503-262-2640	Description: RPP20 D EFP G2 Project: HSD Brown Middle School 20-52906-3 Notes: local power packs w/dimming	Type:
---	---	--------------

WIRING FOR EMERGENCY (-EM) UNITS



UL924 Sequence of Operation:

For 90 minutes following any complete AC power interruption >30 ms:

- Relay is closed and 0-10V dimming is at high end trim level
- Device ignores wireless lighting control commands
- 24V output is disabled
- If another nLight AIR device in the nLight AIR group (as defined by Clairity Pro) is on normal power, and has its power restored prior to the 90-minute timeout, the "EM" device will exit this override state and return to normal operation. This is accomplished by having a normal power device send an "exit EM" message to the "EM" device
- Devices that will send the "exit EM" command when normal power is present
 - Dimming Power Pack Devices (rPP20 D/DS)
 - ER Non-Dimming and Dimming Power Pack Devices (rPP20 D/DS ER)
 - Other nLight AIR Non-"EM" Devices (rLSXR, rSBOR, rSDGR, rIO, rES7, rMSOD)
- Devices that will not send the "exit EM" command when normal power is present
 - Non-Dimming Power Pack Devices (rPP20)
 - Other nLight AIR "EM" Devices (rPP20 EM, rLSXR EM, rSBOR EM, rSDGR EM, rIO EM, rES7 EM, rMSOD EM)
 - Ceiling Mount Sensors (rCMS)
 - Wall Switches (rPODB, rPODL)
 - nLight Air Adapter (nECYD)
- Upon power up, "EM" devices will be at high trim setting for 90 minutes. During commissioning with Clairity Pro, the device will exit this override when a device is identified or added to the grid.

DIMENSIONS

