

# SHOP DRAWING TRANSMITTAL



Project: Turnbull School Music Room Addition Project No: 1705  
Date: February 14, 2019  
To: TALCO Building Innovations Ltd.  
Attn: Farah Bano (fbano@tal-co.com)  
From: Michelle Cataldo

- |  |  |
|--|--|
| <input type="checkbox"/> Approval                | <input type="checkbox"/> Courier           |
| <input checked="" type="checkbox"/> Distribution | <input type="checkbox"/> By Hand           |
| <input type="checkbox"/> Information and Use     | <input type="checkbox"/> Fax               |
| <input type="checkbox"/> Review and Comment      | <input type="checkbox"/> To Be Picked Up   |
| <input type="checkbox"/> Other                   | <input checked="" type="checkbox"/> e-mail |

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Shop Drawing Submittal: Division 26 – Lighting and Controls  
Submitted by: WSA Light Energy Design LTD  
Drawing Title: Lighting Fixtures Specs for Types: A, B, C, T, T1,  
DP1, DP2, SW1, SW2, EBU, DRH, RH  
LC1 Control Layout Drawing  
Revision No. N/A  
Dated: February 11, 2019

Comments:

Reviewed as noted.

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# SHOP DRAWING REVIEW

**Project Name:** Turnbull School,  
1132 Fisher Ave, Ottawa  
Music room addition

**Project No.** 181-04865-00  
**Date** 2019-02-13

**Distribution:** Hobin Architecture  
Incorporated  
63 Pamilla St,  
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**Shop Drawing:** Title: Lighting  
Revision: 00  
Submission No.: 002

This review by consultant is for sole purpose of ascertaining conformance with general design concept. This review does not mean that consultant approves detail design inherent in shop drawings, responsibility for which remains with contractor, and such review does not relieve contractor of responsibility for errors or omissions in shop drawings or of contractor's responsibility for meeting all requirements of contract documents. Be responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication process or to techniques of construction and installation, and for coordination of the work of subtrades.

<input checked="" type="checkbox"/> Reviewed	<b>Mechanical Review Required</b> <input type="checkbox"/>	<b>Electrical Review Required</b> <input checked="" type="checkbox"/>	
<input type="checkbox"/> Reviewed as Noted	<b>Reviewed by:</b>	<b>Reviewed by:</b>	Ken MacIntosh
<input type="checkbox"/> Revise & Resubmit	<b>Review Date:</b>	<b>Review Date:</b>	2019-02-13
Item	Comments		
1	Lighting fixtures and controls reviewed.		

End of Review



WSA LIGHT ENERGY DESIGN LTD  
 101-5420 CANOTEK RD  
 OTTAWA, ON K1J 1E9  
 Phone: 613-745-0001  
 Fax: 613-745-0002  
 Contact: Strachan, Hayden

# Turnbull School Music Room

18-21768-2  
 2/11/2019

<input checked="" type="checkbox"/> REVIEWED <input type="checkbox"/> REVIEWED AS NOTED <input type="checkbox"/> REVISE & RESUBMIT	BY macintoshk DIVISION Buildings - Sustainability DATE 2/13/2019 SUBMITTAL# 002 PROJECT 181-04865-00
<p>THE REVIEW OF THIS DRAWING DOES NOT IN ANY WAY RELIEVE THE VENDOR OR CONTRACTOR OF RESPONSIBILITY FOR ITS ACCURACY OR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.</p>	

## SHOP DRAWING REVIEW

REVIEWED   
 REVIEWED AS NOTED   
 REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Michelle Cataldo Date: Feb. 14, 2019  
 HOBIN ARCHITECTURE INCORPORATED



Project 18-21768-2  
Turnbull School Music Room

Submitted By  
WSA LIGHT ENERGY DESIGN LTD

Type	Manufacturer/Brand	Catalog Number
A	ABL-Lithonia Lighting	2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7
B	ABL-Mark Lighting	S4LD LLP 4FT MSL4 80CRI 35K 1000LMF MIN1 MVOLT WHT ZT F2/72A RDCY WHTCY CCRD
C	ABL-Mark Lighting	SL4L LOP 4FT FLP FL 80CRI 35K 1000LMF MIN1 120 ZT
T	ABL-Juno Lighting Group	T 4FT WH
T1	ABL-Juno Lighting Group	R605L 35K 80CRI PDIM NFL WH
DP1	ABL-Acuity Brands Controls	NPP16 D EFP
DP2	ABL-Acuity Brands Controls	NSP5 PCD ELV 120
SW1	ABL-Acuity Brands Controls	RPODB DX WH
SW2	ABL-Acuity Brands Controls	NPODM DX WH
EBU	Aimlite	EBST12072-2MD5WLA
DRH	Aimlite	RMSM2-06-12V5WLJ
RH	Aimlite	RMSM1-06-12V5WLJ



## 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** — BLT enclosure components are die-formed for dimensional consistency and painted after fabrication with a polyester powder paint for improved performance and protection.

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

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

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

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

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). 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, 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 2-3/8" 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Catalog Number
Notes
Type

BLT Series LED

# 2BLT

2' x 4'  
LED



eldoLED



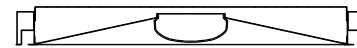
### Specifications

Length: 47-3/4 (121.2)

Width: 23-3/4 (60.3)

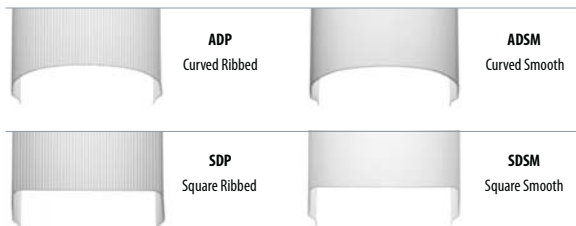
Depth: 2-3/8 (6.0)

Depth with Air supply/return: 2-3/4 (6.9)



All dimensions are inches (centimeters) unless otherwise specified.

## Multiple Diffuser Options



## A+ Capable Luminaire

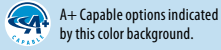
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- 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](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

## 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		Lumens <sup>2</sup>		Diffuser	Voltage	Driver	Color temperature	
Series	Air function	Standard efficiency (>100 LPW)	High efficiency <sup>3,4</sup> (>130 LPW)					
2BLT4 2x4 BLT	(blank) Static A Air supply/return <sup>1</sup>	30L 3000	30LHE 3000	ADP Curved, linear prisms	(blank) MVOLT 120 120V 277 277V 347 347V <sup>6</sup>	EZ1 eidoLED dims to 1% (0-10 volt dimming) GZ1 Dims to 1% (0-10V dimming) <sup>6</sup> GZ10 Dims to 10% (0-10V dimming) <sup>6</sup> SLD Step-level dimming <sup>6</sup>	LP830 82CRI, 3000 K	
		40L 4000	40LHE 4000	ADSM Curved, smooth			LP835 82CRI, 3500 K	
		48L 4800	48LHE 4800	SDP Square, linear prisms			LP840 82CRI, 4000 K	
		60L 6000	60LHE 6000	SDSM Square, smooth			LP850 82CRI, 5000 K	
		72L 7200	72LHE 7200	<b>Includes trim rings to match sensored version</b>			LP930 90CRI, 3000K	
		85L 8500	85LHE 8500	ADPT Curved, linear prisms			LP935 90CRI, 3500K	
		100L 10000		ADSM1 Curved, smooth			LP940 90CRI, 4000K	
		120L 12000		SDPT Square, linear prisms			LP950 90CRI, 5000K	
				SDSMT Square, smooth				

nLight Interface	Control <sup>12</sup>	Options
<b>nLight Wired</b>	<b>nLight Wired</b>	
(blank) no nLight <sup>®</sup> interface	(blank) No sensor control	EL7L 700 lumen battery pack (non-CEC compliant) <sup>14</sup>
N80 nLight with 80% lumen management	NES7 nLight™ nES 7 PIR integral occupancy sensor <sup>12</sup>	EL14L 1400 lumen battery pack (non-CEC compliant) <sup>14</sup>
N80EMG nLight with 80% lumen management For use with generator supply EM power <sup>2</sup>	NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control <sup>12</sup>	EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (non-CEC compliant) <sup>14,15</sup>
N100 nLight without lumen management	NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>12</sup>	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant <sup>14</sup>
N100EMG nLight without lumen management For use with generator supply EM power <sup>2</sup>	NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>12</sup>	CP Chicago plenum <sup>16</sup>
<b>nLight Wireless</b>	<b>nLight Wireless</b>	BGTD Bodine Generator Transfer Device <sup>17</sup>
(blank) no nLight <sup>®</sup> interface	RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities <sup>13</sup>	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
NLTAIR2 nLight AIR Generation 2 enabled <sup>10</sup>	RES7PDT nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell <sup>13</sup>	PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
	RIO nLight AIR radio module without sensor	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 <sup>18</sup>
		PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires <sup>18</sup>
		GLR Fast-blowing fuse <sup>19</sup>
		GMF Slow-blowing fuse <sup>19</sup>
		NPLT Narrow pallet
		RRL_ RELOC <sup>®</sup> -ready luminaire <sup>20</sup>
		LATC Earthquake clip
		DWAM Anti-Microbial paint
		JP16 Job packaging
		IP5X Gasketed diffuser compartment to meet IP5X rating <sup>21</sup>

Accessories next page

### Notes

- Consult factory for airflow data.
- Approximate lumen output.
- All versions may not achieve 130+ LPW. Refer to photometry on [www.acuitybrands.com](http://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, or EL14L options.
- GZ1 and GZ10 not available with any Control or Sensor options
- Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.
- Not available with controls, occupancy controls, or PWS options. Consult factory for HI-Lume dimming.
- 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 option. 0-10v dimming wires not accessible via access plate.
- 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 [BRL\\_2013](#).
- Not available with air supply/return or Wired Networking (NES\_) and Individual Control (MSD\_) sensors.

## 2BLT Volumetric Recessed Lighting 2'x4'

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	26
	2BLT4 40L ADP LP840	00190887470765	4063	31	131	4000K/82CRI	120-277	26
	2BLT4 48L ADP LP835	00190887468656	4960	38	131	3500K/82 CRI	120-277	26
	2BLT4 48L ADP LP840	00190887468649	5039	38	133	4000K/82CRI	120-277	26
	2BLT4 40L ADP EL14L LP835	00190887470925	4000	31	129	3500K/82 CRI	120-277	26
	2BLT4 40L ADP EL14L LP840	00190887470918	4063	31	131	4000K/82 CRI	120-277	26
	2BLT4 48L ADP EL14L LP835	00190887468670	4960	38	131	3500K/82 CRI	120-277	26
	2BLT4 48L ADP EL14L LP840	00190887468663	5039	38	133	4000K/82 CRI	120-277	26
MTO	2BLT4 40L ADP 347 LP835		4000	31	129	3500K/82 CRI	347	26
	2BLT4 40L ADP 347 LP840		4063	31	131	4000K/82CRI	347	26
	2BLT4 48L ADP 347 LP835		4960	38	131	3500K/82 CRI	347	26
	2BLT4 48L ADP 347 LP840		5039	38	133	4000K/82CRI	347	26

\*Generic 0-10V Dimming to 10%.

Accessories: Order as separate catalog number.	
DGA24	Drywall grid adapter for 2x4 recessed fixture
2X4SMK	Surface Mount Troffer Kit

nLight® Wired Control Accessories: Order as separate catalog number. Visit <a href="http://www.acuitybrands.com/products/controls/nlight">www.acuitybrands.com/products/controls/nlight</a> .			
<b>WallPod stations</b>	<b>Model number</b>	<b>Occupancy sensors</b>	<b>Model number</b>
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
<b>Photocell controls</b>	<b>Model number</b>	<b>Cat-5 cable (plenum rated)</b>	<b>Model number</b>
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 <a href="http://www.acuitybrands.com/products/controls/nlightair">www.acuitybrands.com/products/controls/nlightair</a> .	
<b>Wall switches</b>	<b>Model number</b>
On/Off single pole	rPODB [color] G2
On/Off two pole	rPODB 2P [color] G2
On/Off & raise/lower single pole	rPODB DX [color] G2
On/Off & raise/lower two pole	rPODB 2P DX [color] G2
On/Off & raise/lower single pole	rPODBZ DX WH G2

rCMS						Example: RCMS PDT 10 AR G2	
Series / Detection	Power Supply <sup>1</sup>	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		

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
*237M52	2DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237M5A	2DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237M5L	2DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens

**Notes**

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



## 2BLT Volumetric Recessed Lighting 2'x4'

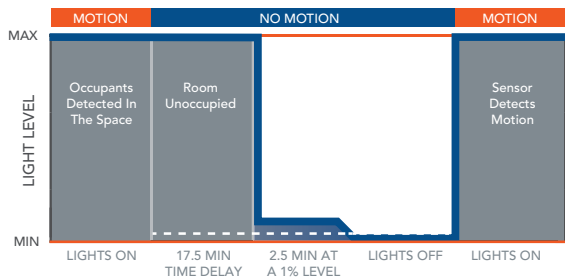
Sensor Options					
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking
		PIR	PDT		
MSD7ADCX	X	X			
MSDPDT7ADCX	X		X		
NES7		X		X	
NES7ADCX	X	X		X	
NESPDT7			X	X	
NESPDT7ADCX	X		X	X	
RES7	X	X			X
RESPDT7	X	X	X		X

### 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.

### Sequence of Operation

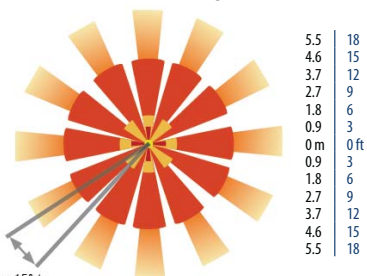


\*The presetting on the automatic dimming photocell is 5fc.

### Sensor Coverage Pattern Mini 360° Lens

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

### 9 FT Mounting



Lens rotates 15° to enable adjustment

### Basic nLight Zone

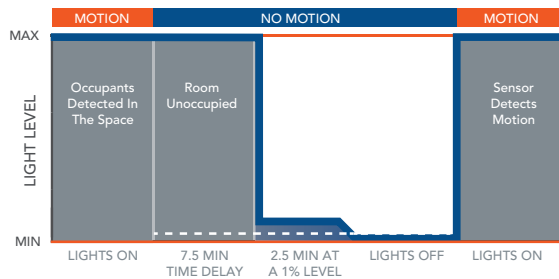


### nLight Wired Networking

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

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

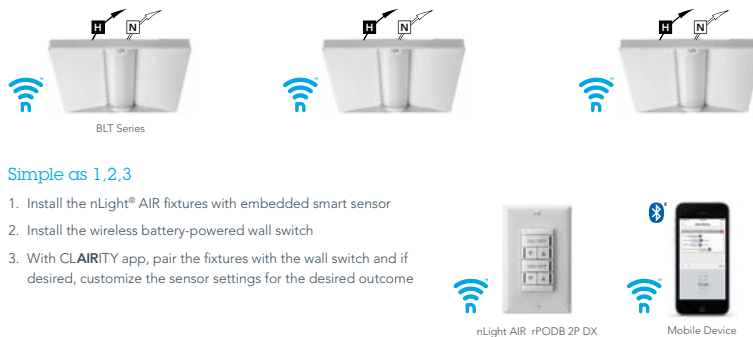
### Sequence of Operation



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

### 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. 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.

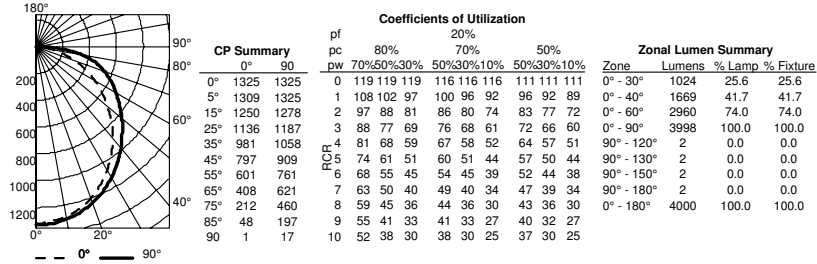




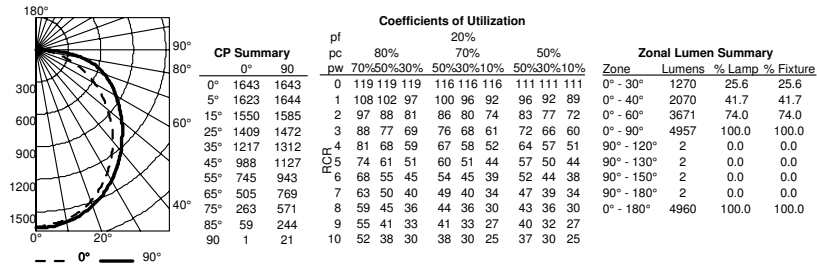
## 2BLT Volumetric Recessed Lighting 2'x4'

### PHOTOMETRICS

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



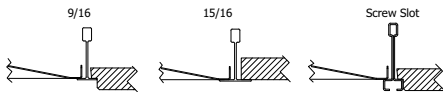
**2BLT4 48L ADP LP835**, 4960 delivered lumens, test no. ISF 36900P117, tested in accordance to IESNA LM-79



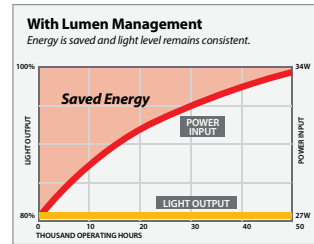
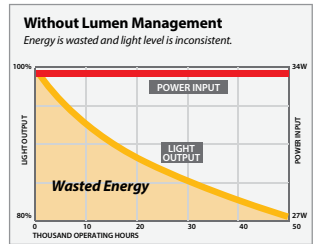
### Constant Lumen Management

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.

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 48-3/4" (Tolerance is +1/8", -0").



#### How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

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.



Project 18-21768-2  
Turnbull School Music Room

Submitted By  
WSA LIGHT ENERGY DESIGN LTD

Catalog Number  
2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7

Notes

Type  
**A**

## 2BLT Volumetric Recessed Lighting 2'x4'

Performance Data					
Material	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	2962.0	127.3	23.3	Premium	PWJDEMHS
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	2828.0	123.3	22.9	Premium	PX3HLIFK
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3009.3	129.3	23.3	Premium	P18J5GLD
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	2969.2	127.6	23.3	Premium	P3HB2XSG
2BLT4 40L ADP LP835	4000.0	126.2	31.7	Premium	PV1X7BV6
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4000.0	126.2	31.7	Premium	PDWKYXFD
2BLT4 40L ADP LP835	4000.0	126.2	31.7	Premium	PV1X7BV6
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4000.0	126.2	31.7	Premium	PDWKYXFD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3946.7	124.5	31.7	Premium	PS63CPK6
2BLT4 40L ADP LP840	4063.9	128.2	31.7	Premium	P7GJNP7R
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4063.9	128.2	31.7	Premium	PEYXAZWD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4009.7	126.5	31.7	Premium	PK79UR9W
2BLT4 48L ADP LP835	4960.0	130.5	38.0	Premium	PFRUJ4KY
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4960.0	130.5	38.0	Premium	PJ9CK6C1
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4893.9	128.8	38.0	Premium	PPFKZU3U
2BLT4 48L ADP LP840	5039.2	132.6	38.0	Premium	P3SXAWR7
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4960.0	130.5	38.0	Premium	PJ9CK6C1
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4893.9	128.8	38.0	Premium	PPFKZU3U
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	6016.0	126.4	47.6	Premium	PSJ6QERM
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5935.8	124.7	47.6	Premium	PHT84BW4
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	6112.0	128.4	47.6	Premium	PVXQXPUV
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	6030.6	126.7	47.6	Premium	PXV55BC8

DLC information is subject to change, for the most up-to-date information please refer to [www.dlc.org](http://www.dlc.org). Above listings do not cover 347v or SLD.

HE Performance Data					
Material	Lumens	LPW	Watts	DLC Listing	DLC ID
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3107.0	135.2	23.0	Premium	P7KEICW5
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	3065.6	133.4	23.0	Premium	P7PZAJDZ
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3156.6	137.3	23.0	Premium	PD0M06BH
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	3114.5	135.5	23.0	Premium	P2N23EBP
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4085.0	138.6	29.5	Premium	P67P65SY
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4030.5	136.7	29.5	Premium	PC15DQEC
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4150.0	140.8	29.5	Premium	P95UQD66
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	4094.9	138.9	29.5	Premium	PGRCSJ2T
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4770.0	138.2	34.5	Premium	PXBJBG8
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4706.4	136.3	34.5	Premium	P2NK2H33
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4770.0	138.2	34.5	Premium	PXBJBG8
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	4706.4	136.3	34.5	Premium	P2NK2H33
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5894.0	135.1	43.6	Premium	PQZN176R
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP835 (ALL OPTIONS)	5815.4	133.3	43.6	Premium	PZ72TAWM
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	5988.1	137.3	43.6	Premium	PG5CYJUC
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP840 (ALL OPTIONS)	5908.3	135.5	43.6	Premium	PRC4W72B

DLC information is subject to change, for the most up-to-date information please refer to [www.dlc.org](http://www.dlc.org). Above listings do not cover 347v or SLD.

Suspended from steel joists to 2700 A.F.F.

**MARK**  
ARCHITECTURAL  
LIGHTING™



**Slot 4 LED**  
Direct Pendant

The Slot LED family of luminaires offers an unparalleled package of performance and features for your next lighting project. Precision lumen DIRECTIR optics deliver optimized light where needed for ceilings and walls. With other key features such as simplified installation, seamless controls integration and superior LED color constancy, the Slot LED family from Mark Lighting offers exceptional quality and design flexibility.

Type:

Project:

Catalog Number:

DO NOT TYPE HERE. Autopopulated field.

**Specification Features**

**Housing**

Nominal 3.5" x 3.75" extruded aluminum housing

**Finish**

White, Black or Silver powdercoat

**Reflector**

formed steel with high reflectance white.

**Distribution/Shielding**

Extruded 90% transmissive acrylic lens with a textured surface providing diffuse illumination and a uniform appearance for direct lambertian distribution (No Optics). Wall Wash (WW) and Wall Graze (WG) distribution options incorporate co-extruded lenses. Shielding is available as an external blade louver for WW or WG options, or an internal blade louver in lieu of lambertian distribution diffuser. Clear Acrylic dustcover (DC) is available for the indirect distribution only.

**LED Components**

Linear: Nichia®- 757 series LED chips (>80 CRI)

**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 Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming. Supports operation between 120VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron high performance driver options also available.

**Certification**

CSA Certified to meet U.S. and Canadian standards, assembled in the USA.

**Listings**

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/OPL](http://www.designlights.org/OPL) to confirm which versions are qualified.

**Warranty**

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

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

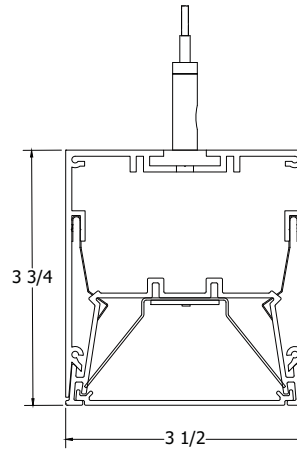
Specifications subject to change without notice.

**Fixture Performance**

4FT INDIVIDUAL (35K)	DIRECT			
Lumens Output	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens	1800	2707	3571	4103
Input Watts	15.4	23.5	31.9	37.3
Lumen/Watt	117	115	112	110

\* Consult factory for customized lumen output and wattage between 350LMF and 1050LMF.

**Technical Drawing**



Direct Pendant



eldoLED  
your preferred LED driver

**SHOP DRAWING REVIEW**

- REVIEWED
- REVIEWED AS NOTED
- REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Michelle Cataldo Date: Feb. 14, 2019  
HOBIN ARCHITECTURE INCORPORATED

# MARK ARCHITECTURAL LIGHTING™

## Slot 4 LED Direct Pendant

A+ Capable options indicated by this color background.

### Ordering

Example: S4LD 8FT MSL8 80CRI 30K 400LMF MIN1 MVOLT WHT ZT F1/36A RDCY WHTCY WCRD

Series	Plan	Total Run Length	Max Section Length	Configuration <sup>2</sup>	Direct Light Source Color Rendering	Direct LED Color Temp	Direct LED Light Output	Direct Distribution (Optics)
<b>S4LD</b> Slot 4 Pendant - Direct	<b>(blank)</b> LCB Linear center balanced <b>LLP</b> Linear longest possible	<b>4FT</b> Specify continuous run length (in whole feet 2" minimum)	<b>MSL4</b> 4' <b>MSL5</b> 5' <b>MSL6</b> 6' <b>MSL7</b> 7' <b>MSL8</b> 8'	<b>_90C</b> # horizontal corners <b>_90T</b> # T - intersections <b>_90X</b> # X - intersections	<b>80CRI</b> 80 CRI <b>90CRI</b> 90 CRI	<b>27K</b> 2700K <b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K <b>50K</b> 5000K	<b>400LMF</b> 400 Lumens per FT <b>600LMF</b> 600 Lumens per FT <b>800LMF</b> 800 Lumens per FT <b>1000LMF</b> 1000 Lumens per FT <b>_LMF<sup>3</sup></b> # Lumens per FT (Limited to 400LMF to 1000LMF in 50LMF increments)	<b>(blank)</b> Standard Lambertian Distribution <b>WW<sup>4,5</sup></b> Wallwash Distribution <b>WG<sup>4,5</sup></b> Wall Graze Distribution
Secondary Light Source <sup>6</sup>	Secondary Light Source Shape	Secondary Light Source Color Rendering	Secondary Light Source Color Temp	Minimum Dimming Level	Optional Shielding <sup>5,8</sup>	Voltage		
<b>(blank)</b> No Downlight modules in fixture <b>2DL</b> LED Downlights (2 per unit) <b>_DL</b> LED Downlights per run (3DL, 4DL, etc)	<b>(blank)</b> No Downlight modules in fixture <b>RDD</b> Round <b>SQD</b> Square	<b>(blank)</b> No Downlight modules in fixture <b>S80CRI</b> 80CRI Downlight	<b>(blank)</b> No Downlight modules in fixture <b>S27K</b> 2700K <b>S30K</b> 3000K <b>S35K</b> 3500K <b>S40K</b> 4000K	<b>NODIM<sup>7</sup></b> Non - dimming <b>MIN1</b> Constant current, dimming to 1% <b>DARK</b> Constant current, dimming to 0.1%	<b>(blank)</b> Standard Shielding only <b>LVRD</b> Dropped Louver <sup>8</sup> <b>LVRP</b> Regressed Louver painted to match fixture finish <b>LVRRA</b> Regressed Louver Aluminum Finish <b>EGLD</b> Edge View Direct Lens <sup>8</sup>	<b>MVOLT</b> Multi-volt, 120-277 <b>120</b> 120V <b>277</b> 277V		

Finish	Emergency Options	Control Input	Sensor <sup>5,19</sup>	Secondary Sensor	Tertiary Sensor
<b>WHT</b> White (gloss) <b>BLK</b> Black (gloss) <b>SLV</b> Silver (gloss) <b>WHTT</b> White (textured) <b>BLKT</b> Black (textured) <b>SLVT</b> Silver (textured) <b>RALTB</b> RAL paint finishes. See RAL Brochure for available options and ordering information	<b>E10WLC<sup>10</sup></b> 4ft emergency section w/ battery pack 1250 lumens <b>_E10WLC<sup>10,11</sup></b> # 4ft emergency sections w/ battery pack 1250 lumens <b>_EC<sup>12</sup></b> # of Emergency Circuits <b>BGTD<sup>12,13</sup></b> Generator Transfer Device	<b>(blank)</b> Non-dimming, line voltage <b>ZT</b> 0 - 10V Control <b>NLIGHT<sup>14</sup></b> nLight enabled <b>NLTAIR<sup>2,15</sup></b> nLight AIR (wireless) enabled <b>DAL<sup>16</sup></b> DALI compatible <b>DMX<sup>5,16</sup></b> DMX compatible <b>ECOD<sup>5,17</sup></b> Lutron Hi-Lume Digital driver <b>ECOD<sup>2,12,18</sup></b> Lutron Hi-Lume 2-wire (1% Dimming) <b>ECOD<sup>5,17</sup></b> Lutron 5-series digital driver (5% Dimming) For additional ordering assistance, consult 'Intelligent Luminaire Technology Guide'.	<b>(blank)</b> <b>NS</b> No Sensor zone <b>PDT</b> Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics) <b>ADC</b> Photocell- Daylight Dimming Sensor <b>API</b> PIR Occupancy Sensor & Photocell <b>APD</b> PDT Occupancy Sensor & Photocell For additional ordering assistance consult 'Intelligent Luminaire Technology Guide'.	<b>(blank)</b> <b>SNS</b> No secondary sensor zone <b>SPDT</b> Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics) <b>SADC</b> Photocell- Daylight Dimming Sensor <b>SAPI</b> PIR Occupancy Sensor & Photocell <b>SAPD</b> PDT Occupancy Sensor & Photocell	<b>(blank)</b> <b>TNS</b> No Tertiary sensor zone

TO CONFIRM		Mounting Type	Overall Suspension	Canopy Form	Canopy Color	Cord Color	Environmental Listing	Options
<b>F1/</b>	T-bar ceiling (universal mounting bracket)	<b>36A</b> 36" adjustable	<b>RDCY</b> Round Canopy	<b>BLKCY</b> Black canopy	<b>WCRD</b> white cord	<b>DPL</b> Damp Location Listing	<b>GLR<sup>13</sup></b> fast-blow fuse <b>GMF<sup>13</sup></b> slow-blow fuse <b>MCS</b> 5" support to match power feed canopy	
<b>F1A/</b>	T-bar ceiling (UMB with integrated J-box)	<b>72A</b> 72" adjustable	<b>SQCY</b> Square Canopy	<b>WHTCY</b> White canopy	<b>CCRD</b> clear cord			
<b>F2/</b>	Hard ceiling (horizontal J-box)	<b>144A</b> 144" adjustable						

- Notes:**
1. Fixture length may effect available options, consult factory with validation issues.
  2. Requires extended lead consult factory.
  3. Not available with ECOD, ECOD2, ECOD5, or DMX control options.
  4. Not available with EGLD, LVRP, or LVRRA options.
  5. Not available with Downlights.
  6. Must select all secondary light options, not available on 2ft or 3ft fixtures.
  7. Not available with Control inputs.
  8. Not available with NLTAIR2.
  9. Not available with sensor options.
  10. Not available on 2ft or 3ft fixtures, or with DMX option.
  11. One EL pack per fixture section.
  12. Powers entire direct fixture section (power direct and indirect fixture sections on 2ft fixtures) Not available with DMX option; or ZT/NLTAIR sensors in the same fixture section.
  13. Must select 120V or 277V, Remote mounted.
  14. NLIGHT option on 2FT fixture will require remote mounted NIO.
  15. Must select MIN1 or DARK, not available with WW option or on 2FT or 3FT sections. If sensor required must select API or APD. If ordered with E10WLC<sup>10</sup> only available in 2FT or 8FT sections.
  16. Must select DARK option.
  17. Must select MIN1 option, not available on 2ft or 3ft fixtures.
  18. Only available with 120 option.
  19. Not available on 2ft or 3ft fixtures, must select ZT, NLIGHT, or NLTAIR2 options.

**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\*

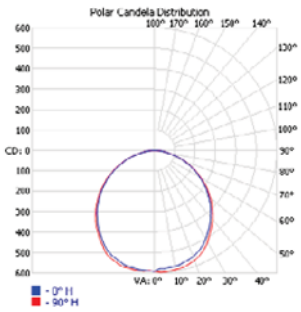
To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

**MARK**  
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LIGHTING™

**Slot 4 LED**  
Direct Pendant

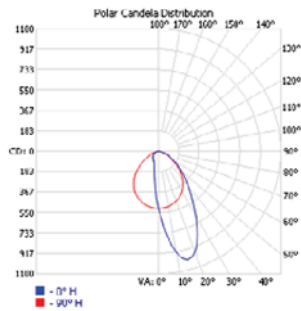
**PHOTOMETRICS**



Test Report: ISF 37228PO  
IES LM 79-08  
S4LD 4FT 80CRI 30K 400LMF  
Lumens: **1730**  
Wattage: **15.37W**  
Efficacy: **112.5**

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	472.9	27%
0-40	773	44.70%
0-60	1359.4	78.60%
60-90	370	21.40%
70-100	159	9.20%
90-120	0.3	0%
0-90	1729.4	100%
90-180	0.6	0%
0-180	1730	100%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	591	591	591	591	591	591	591	591	591
5	580	589	597	594	597	596	596	595	588
10	574	584	590	591	592	593	594	592	583
15	565	576	579	582	585	584	587	583	577
20	552	559	567	569	573	572	573	570	560
25	532	539	549	549	551	549	551	552	541
30	501	509	515	514	519	520	519	518	509
35	466	473	480	480	479	480	484	483	475
40	427	436	443	441	443	441	443	443	434
45	388	394	400	401	401	400	405	402	396
50	346	353	355	356	356	355	358	360	351
55	302	310	310	310	313	309	316	314	305
60	254	263	262	261	261	261	262	266	259
65	208	214	213	212	213	213	214	217	210
70	162	165	165	166	167	165	164	165	161
75	116	118	116	117	117	116	116	116	115
80	69	70	71	72	72	72	71	70	69
85	30	32	32	33	33	32	30	29	27
90	1	2	0	0	0	1	0	1	1

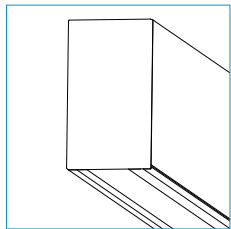


Test Report: ISF 37775PO  
IES LM 79-08  
S4LD 4FT 80CRI 30K 400LMF WW  
Lumens: **1138**  
Wattage: **14.51W**  
Efficacy: **78.4**

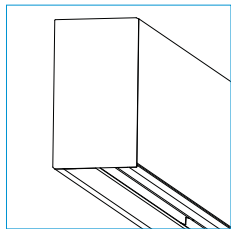
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	424.2	37.30%
0-40	657.7	57.80%
0-60	1003.1	88%
60-90	134.9	11.90%
0-90	1138	100.00%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	509	509	509	509	509	509	509	509	509
5	730	708	659	590	509	433	371	337	326
10	922	898	813	676	501	351	256	214	202
15	1008	989	916	743	489	283	184	147	138
20	961	970	949	783	471	232	142	115	109
25	828	862	914	797	448	192	115	99	96
30	673	713	823	779	421	159	99	90	88
35	533	569	698	727	383	134	89	83	81
40	426	453	568	639	341	114	82	76	75
45	337	362	457	529	291	98	75	69	68
50	261	282	356	415	237	85	66	62	62
55	201	214	274	308	182	73	57	54	54
60	151	159	202	219	133	60	47	45	45
65	109	115	142	148	91	46	38	36	35
70	75	78	94	95	61	34	28	26	26
75	46	48	57	56	36	22	18	18	18
80	24	26	30	28	18	12	12	11	11
85	8	9	10	10	8	6	6	6	5
90	1	2	1	2	2	2	2	2	2

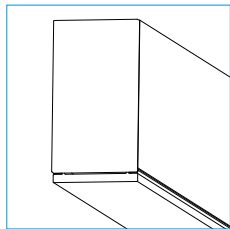
**Shielding**



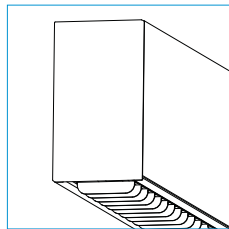
Co-Extruded WG



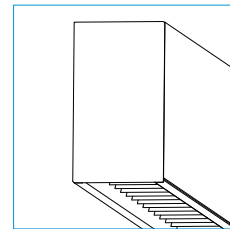
Co-Extruded WW



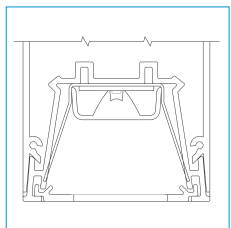
Edge View Lens



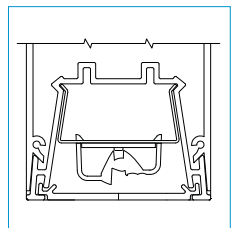
External Louver



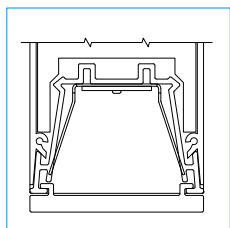
Regressed Louver



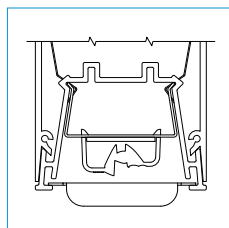
Co-Extruded WG (Standard)



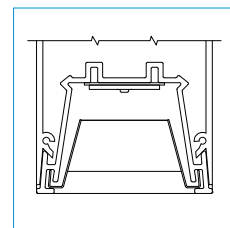
Co-Extruded WW (Standard)



Edge View Lens (Optional)



External Louver WW (Painted to Match Housing)



Regressed Louver (Natural Aluminum or Painted to Match Housing)

# MARK ARCHITECTURAL LIGHTING™

## Slot 4 LED Direct Pendant

### LINEAR PLAN:

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

#### LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution, should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segment and 1, 4 FT segment at the end of the run.

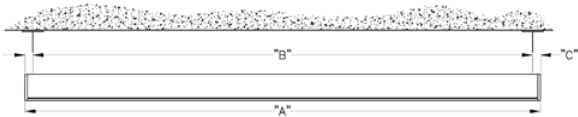
LLP	8 FT	8 FT	4FT
-----	------	------	-----

#### LCB- Linear Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

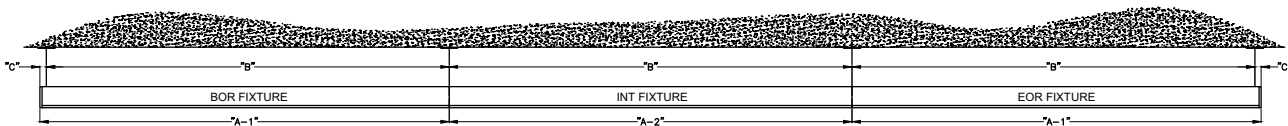
LCB	4 FT	8 FT	4FT
-----	------	------	-----

### Individual Fixture Configurations



INDIVIDUAL UNITS (MOUNTING)			
LENGTH	"A" O.A.L.	"B" O.C.	"C" FROM END
2FT	2'- 5/8"	2'-0"	5/16"
3FT	3'- 5/8"	3'-0"	5/16"
4FT	4'- 5/8"	4'-0"	5/16"
5FT	5'- 5/8"	5'-0"	5/16"
6FT	6'- 5/8"	6'-0"	5/16"
7FT	7'- 5/8"	7'-0"	5/16"
8FT	8'- 5/8"	8'-0"	5/16"

### Run Configurations



RUN LAYOUT (MOUNTING)				
LENGTH	"A-1" O.A.L.	"A-2" O.A.L.	"B" O.C.	"C" FROM END
2FT	2'-0 5/16"	2'-0"	2'-0"	5/16"
3FT	3'-0 5/16"	3'-0"	3'-0"	5/16"
4FT	4'-0 5/16"	4'-0"	4'-0"	5/16"
5FT	5'-0 5/16"	5'-0"	5'-0"	5/16"
6FT	6'-0 5/16"	6'-0"	6'-0"	5/16"
7FT	7'-0 5/16"	7'-0"	7'-0"	5/16"
8FT	8'-0 5/16"	8'-0"	8'-0"	5/16"

# MARK

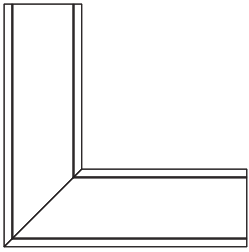
## ARCHITECTURAL LIGHTING™

### Slot 4 LED

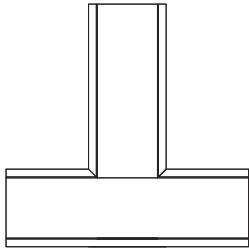
#### Direct Pendant

### Run Patterns, Corners and Junction

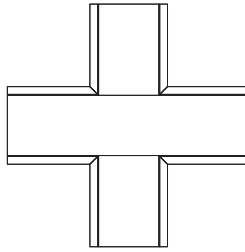
Slot 4 LED patterns can be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



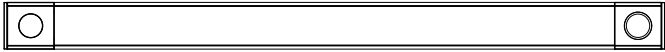
T Junction



X Junction

### Downlights

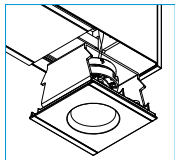
Optional downlights powered by Xicato Spot Modules are available with 4', 5', 6', and 8' length luminaires, maximum (2) Xicato downlights per length. Each downlight module is 10W with 700 lumens delivered. Downlights are supplied with a dedicated feed-point and will be controlled separately.



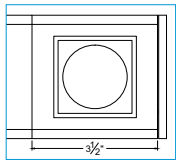
Standard Downlight Location



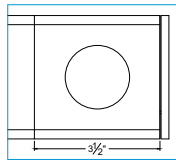
Other Downlight Configuration (consult factory)



Downlight Module



Square Downlight Plate (SQ)

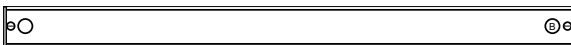
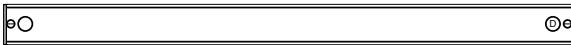
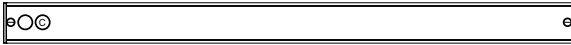
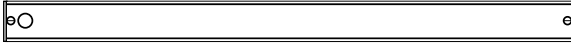
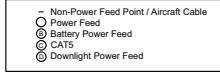


Round Downlight Plate (RD)

# MARK ARCHITECTURAL LIGHTING™

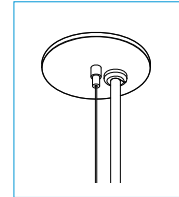
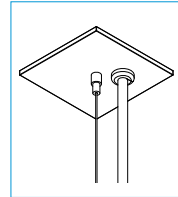
## Slot 4 LED Direct Pendant

### Feed Point Locations

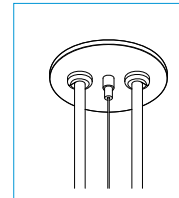
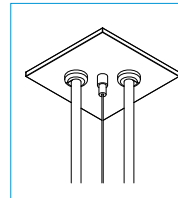


\* 2-Wire Dimming (ZT, DALI, and Lutron EcoSystem)  
\*\* Downlights are supplied with a dedicated feed-point and will be controlled separately.  
\*\*\* Downlights with nLight wired controls will use a J-Box mounted control module outside of fixture.

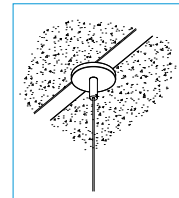
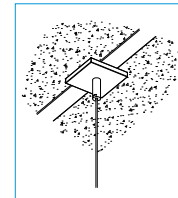
### Single Feed Points



### Feed and Cat 5 points



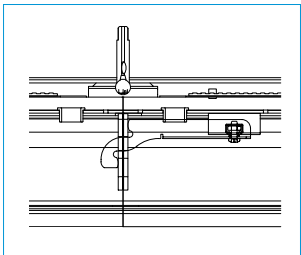
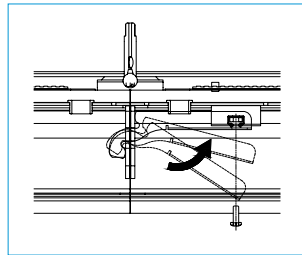
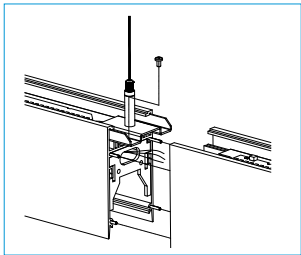
### Non-Fed Points for T-Bar Mounting



Refer to page 7 for mounting details.

### Joiners

AEL Precision Row-Mount 3-step fixture-to-fixture connection method



### Continuous Runs

Slot 4 LED continuous rows can be configured in 1' increments and featuring the AEL precision joiner to create a hairline seam between luminaires, providing a monolithic visual aesthetic. (see AEL joiner information on page 5). For custom run lengths less than a 1' increment, consult factory.



# MARK Slot 4 LED

## ARCHITECTURAL Direct Pendant

### LIGHTING™

**MOST COMMON MOUNTING TYPES AND OPTIONS** Options available for this specific luminaire are checked in the boxes below.

**Mounting Type**

**F1/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.

**F2/** For use with recessed or surface mount horizontal J-box applications.

**F1A/** For use with most T-Bar and ceilings. Designed for on-grid and. *Comes complete with J-box with built-in wire way. See also CP.*

**Mounting Options**

**MCS** Matching canopy at support for aesthetics.

Indicates mounting options available with this luminaire.

F1/

Power Feed

Support

F1/ ordered with MCS

Power Feed

Support

F1A/

Power Feed

Support

F1A/ ordered with MCS

Power Feed

Support

F2/

Power Feed

Support

F2/ ordered with MCS

Power Feed

Support

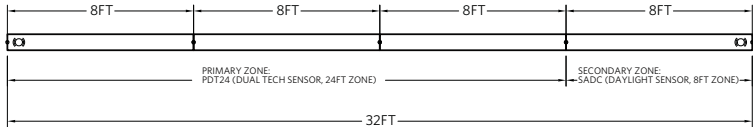
# MARK ARCHITECTURAL LIGHTING™

## Slot 4 LED Direct Pendant

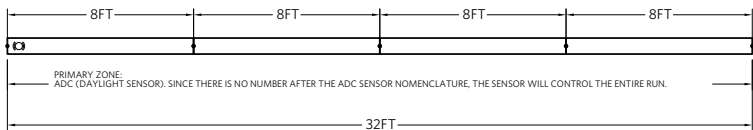
### INTEGRATED SENSOR LAYOUT

#### CORRECT:

32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 24FT AND SECONDARY ZONE 8FT -- PDT24 SADC8

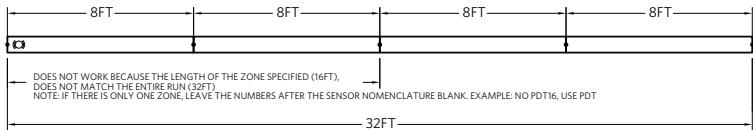


32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

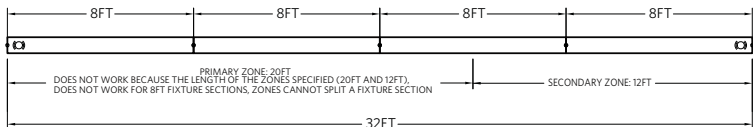


#### INCORRECT:

32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- PDT16



32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 20FT AND SECONDARY ZONE 12FT -- PDT20 SADC12



#### Notes:

- Only one sensor per zone
- At the most, the entire run can only have 2 sensors (thus 2 sensors zones at the most)
- Sensor zone can not split fixture sections
- No overlapping zones

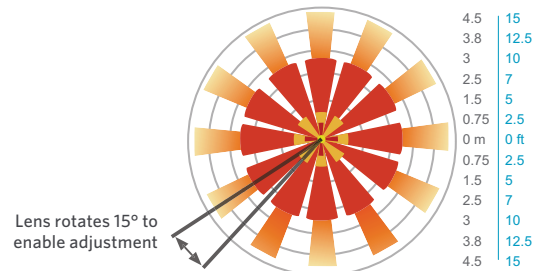
### OCCUPANCY DETECTION COVERAGE

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

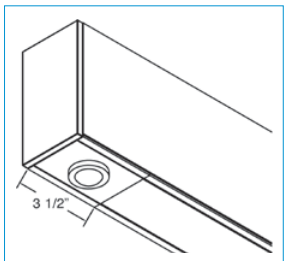
Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.



#### Integrated Controls

Optional nLight® integrated controls make Slot LED luminaires addressable- allowing them to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling.



Occupancy Sensor and/or Photocell

# MARK ARCHITECTURAL LIGHTING™

## Slot 4 LED Direct Pendant

### Intelligent Luminaire Technology Guide

Choose nomenclature from these columns

Driver Configurations	Minimum Dimming Level	Control Input	Driver	Dimming Range	Notes		
	NODIM	+	(blank)	=	0 10V Generic Driver	-	Includes no 0 10V leads from the driver.
	MIN10	+	ZT	=	0 10V Generic Driver	100 to 10%	Linear dimming
	MIN1	+	ZT	=	0 10V eldoLED ECOdrive	100 to 1%	Formerly (EZ1) nomenclature. Linear dimming
	MIN1	+	NLIGHT	=	0 10V eldoLED ECOdrive	100 to 1%	Logarithmic dimming
	MIN1	+	ECOD2	=	Lutron forward phase control	100 to 1%	LUTRON Hi-lume 1% 2-wire (model LTEA4U1U)
	MIN1	+	ECOD5	=	Lutron Ecosystem	100 to 5%	LUTRON 5 Seires EcoSystem LED Driver (model LDE5)
	MIN1	+	ECOD	=	Lutron Ecosystem	100 to 1%	LUTRON Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black (model LDE1)
	DARK	+	ZT	=	0 10V eldoLED SOLOdrive	100 to 0.1%	Formerly (EZB) nomenclature. Linear dimming
	DARK	+	NLIGHT	=	0 10V eldoLED SOLOdrive	100 to 0.1%	Logarithmic dimming
	DARK	+	DALI	=	DALI compatible eldoLED SOLOdrive	100 to 0.1%	"Compatible with DALI. Formerly (EDB & EDAB) nomenclature." Logarithmic dimming
	DARK	+	DMX	=	DMX compatible eldoLED POWERdrive	100 to 0.1%	"Compatible with DMX / Remote Device Management. Formerly (EXB & EDXB) nomenclature." Linear dimming

Choose nomenclature from these columns

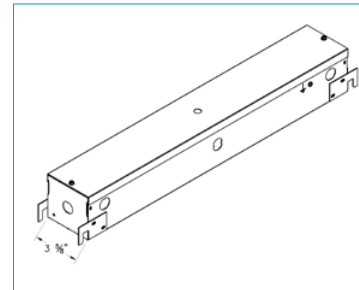
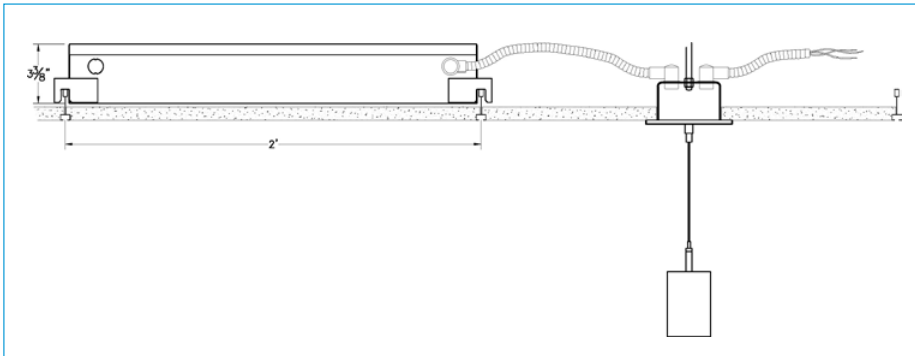
Control / Sensor Configurations	Control Input	Sensor	Sensor	Notes		
	ZT	+	API	=	MSD 7 ADCX	Individual fixture control only. PIR integral occupancy sensor with automatic dimming control photocell. (Old nomenclature: ZT + PIR + ADC)
	ZT	+	APD	=	MSD PDT 7 ADCX	Individual fixture control only. PDT integral occupancy sensor with automatic dimming control photocell. (Old nomenclature: ZT + PDT + ADC)
	NLIGHT	+	(blank)	=	nIO EZ PH	nLight enabled only. No onboard sensor.
	NLIGHT	+	EMG	=	nIO EZ PH ER	Emergency nLight enabled only. No onboard sensor.
	NLIGHT	+	API	=	nIO EZ PH + nES 7 ADCX	nLight nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell. (Old nomenclature: NLIGHT + PIR + ADC)
	NLIGHT	+	PDT	=	nIO EZ PH + nES PDT 7	nLight nES PDT 7 dual technology integral occupancy sensor. (Old nomenclature: NLIGHT + PDT)
	NLIGHT	+	APD	=	nIO EZ PH + nES PDT 7 ADCX	nLight nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell. (Old nomenclature: NLIGHT + PDT + ADC)
	NLTAIR2	+	(blank)	=	RIO EZDL 90D G2	<a href="https://www.acuitybrands.com/products/detail/778845/nLight/rIO/Fixture-embedded-nLight-AIR-network-interface">https://www.acuitybrands.com/products/detail/778845/nLight/rIO/Fixture-embedded-nLight-AIR-network-interface</a>
	NLTAIR2	+	API	=	RES7 G2	<a href="https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor">https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor</a>
	NLTAIR2	+	APD	=	RES7 PDT G2	<a href="https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor">https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor</a>

**MARK**  
ARCHITECTURAL  
LIGHTING™

**Slot 4 LED**  
Direct Pendant

**Remote BGTD Mounting Option**

Recessed in sheetrock ceiling; rod mounted to structure.  
Consult factory for other ceiling types or canopy options.



Accessible Ceiling

Recessed within  
floating gypsum board  
ceilings

SHOP DRAWING REVIEW  
REVIEWED   
REVIEWED AS NOTED   
REVISE AND RESUBMIT



\*This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades.\*

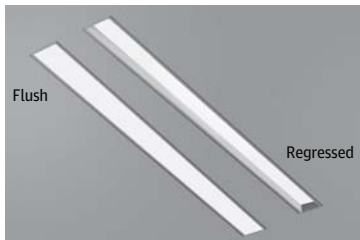
By: Michelle Cataldo Date: Feb. 14, 2019  
HOBIN ARCHITECTURE INCORPORATED

# MARK ARCHITECTURAL LIGHTING™

## Slot 4 LED Recessed Linear

Slot 4 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 4 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.



Type:

Project:

Catalog Number:

DO NOT TYPE HERE. Autopopulated field.

### Specification Features (continued on page 2)

**Housing**  
Nominal 4" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**  
Painted high reflectance matte white powder coat.

**Reflector**  
Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

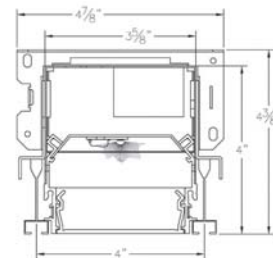
**Fixture Performance - SL4L\***

Lumens Output	400 LMF		600 LMF**		800 LMF**		1000LMF	
	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	316	314	544	541	737	734	928	924
Input Watts/FT	4	4	6	6	8	8	10	10
Lumen/Watt	91	91	95	95	93	93	90	89

\*CCT (35K)  
\*Consult factory for customized lumen output and wattage  
\*\*Based on calculated values

**Shielding**  
Flush Lens: Snap-in 90% transmissive satin acrylic lens.  
Regressed Lens: Lay-in 90% transmissive satin acrylic lens.  
**Mounting**  
Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

### Technical Drawing



Flush - (FLP)



A+ Capable options indicated by this color background.

### Ordering

Example: SL4L LOP 4FT FLP TG 90CRI 35K 400LMF S80CRI S27K 1E10W NLIGHT CLO WL USPOM

confirm

<b>Series</b> SL4L Slot 4 LED Linear Recessed	<b>Linear Length Plan</b> LOP Linear Optimized Plan	<b>Total Run Length</b> 2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6' 7FT 7' 8FT 8' _FT_ *Specify continuous linear feet in 1" increments (7FT6 = 7FT 6IN)	<b>Fixture Style</b> RLP <sup>1</sup> Regressed Lens FLP <sup>2,3</sup> Flush Lens	<b>Ceiling Trim</b> FL <sup>4</sup> 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB <sup>5</sup> Trimless (sheetrock) WFL <sup>6</sup> Perimeter Mount, 5/8" Flange (Sheetrock) WTG <sup>7</sup> 9/16" Flat or Inverted Tee, Perimeter Mount	<b>Direct Light Source Color Rendering</b> 80CRI 80CRI 90CRI 90CRI
<b>Direct LED Color Temp</b> 30K 3000K 35K 3500K 40K 4000K	<b>Direct LED Light Output<sup>4</sup></b> 400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT	<b>Direct Distribution</b> WW <sup>6</sup> Wall Wash	<b>Secondary Light Source</b> 2DL <sup>7,8</sup> LED Downlight Standard _DL <sup>7,8</sup> LED downlights per Run (3DL, 4DL, ect.)	<b>Secondary Light Source Color Rendering</b> S80CRI 80 CRI S90CRI 90 CRI	<b>Secondary Light Source Color Temp</b> S27K 2700K S30K 3000K S35K 3500K S40K 4000K
<b>Minimum Dimming Level</b> NODIM Non - Dim MINI Constant current, dimming to 1% DARK Constant current, dimming to 0.1%					
<b>Voltage</b> 120 120V 277 277V	<b>Emergency Options</b> E10W <sup>9</sup> 4ft Emergency Section with battery pack _E10W <sup>9</sup> Number of 4ft Emergency Section(s) with battery pack EMG Emergency Generator Power	<b>Control Input</b> (blank) Non-dim ZT 0 10V NLIGHT nLight enabled ECO <sup>9</sup> Lutron EcoSystem interface module	<b>Occupancy &amp; Photo Control<sup>10</sup></b> ADC Daylight dimming sensor PDT Daylight dimming sensor Occupancy sensor	<b>Lumen Management</b> CLO Constant Light Output at 80%	<b>Options</b> CP Chicago Plenum USPOM US point of assembly WL <sup>10,11</sup> Wet Location Listing DPL Damp Location Listing

**Notes**

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location Label available with Flush and Wall Wash Lens only
- Not intended for post sheetrock installation.
- LAYOUT DRAWINGS ARE REQUIRED FOR ORDER.
- Wall Wash not available with downlights or RLP lens option.
- See notes on page 3, downlights only available with DARK dimming level.
- Wet Location label not available with downlights or regressed lens.
- Remote mounted on 2FT fixtures.
- Sensors not available with WW, NODIM driver or RLP option.
- Cannot be installed in vertical surfaces.

# MARK ARCHITECTURAL LIGHTING™

## Slot 4 LED Recessed Linear

### Specification Features (continued)

#### LED Components

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

#### LED Life

Rated 65,000 hours (L80) at 25 °C ambient temperature.

#### Color Consistency

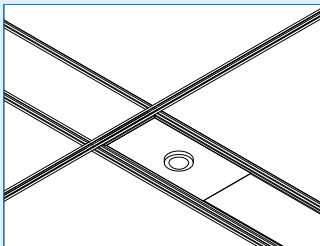
The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

#### Driver

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.

#### Integrated Controls

Optional nLight® embedded controls make luminaire addressable—allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)



Occupancy Sensor (PDT) and/or Photocell (ADC)

#### Lumen Management

An optional lumen management system provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system's life, creating a consistently illuminated environment while preventing energy waste. (Option: CLO)

#### 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.

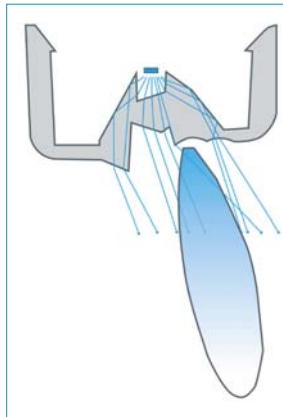
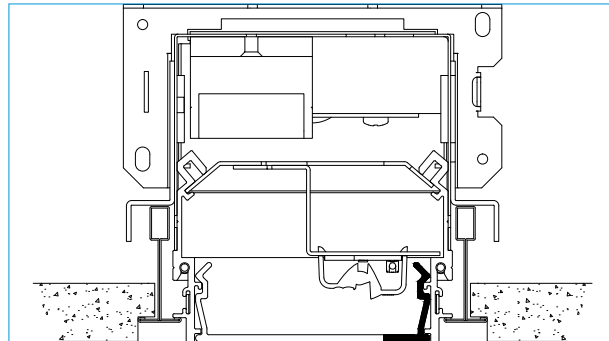
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background**\*
- This luminaire is part of an A+ Certified solution for 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](http://www.acuitybrands.com/aplus).

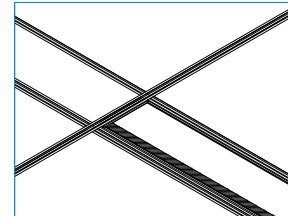
\*See ordering tree for details

#### Optics

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Wall Wash (WW)



#### Certification

CSA Certified to meet U.S. and Canadian standards, assembled in the USA.

#### Listings

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/OPL](http://www.designlights.org/OPL) to confirm which versions are qualified.

#### Warranty

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

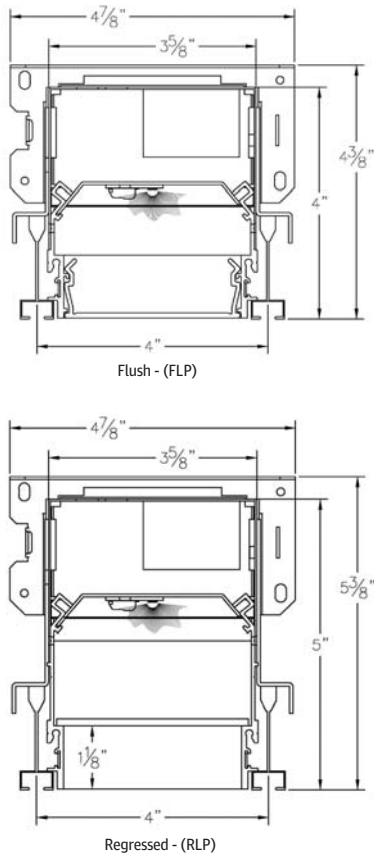
#### Photometry

For photometric information refer to [www.marklighting.com](http://www.marklighting.com).

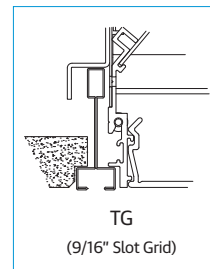
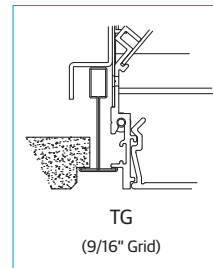
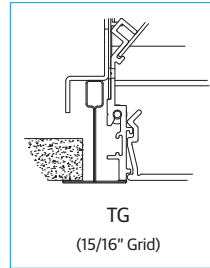
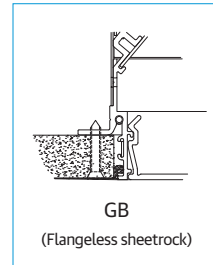
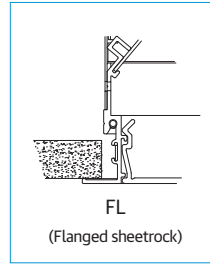
**MARK**  
ARCHITECTURAL  
LIGHTING™

**Slot 4 LED**  
Recessed Linear

**Technical Drawing**

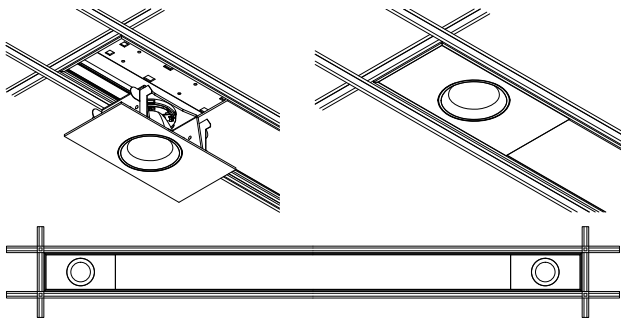


**Ceiling Trim**



**Downlights**

Optional downlights powered by Xicato Spot Modules are available with any linear length and no less than 2' on center spacing. Each downlight module is 10W with 700 lumens delivered. Downlights are supplied with a dedicated feed-point and will be controlled separately.



- Notes**
- 2DL - Downlights are supplied at each end of an individual unit
  - \_DL - Multiple downlights will be supplied with one at each end and the remained will be centered over the length of the run.
  - Downlights are not adjustable and are provided with solite lens

## MARK

ARCHITECTURAL  
LIGHTING™

## Slot 4 LED

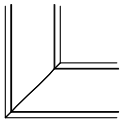
Recessed Linear

### Continuous Runs

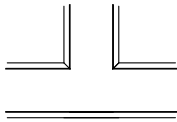
Slot 4 LED continuous rows can be configured in 1" increments.

### Run Patterns, Corners and Junction

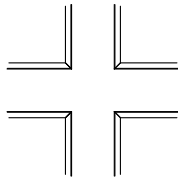
Slot 4 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



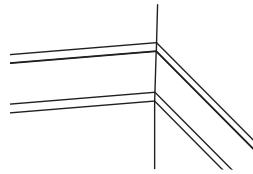
90° Corner



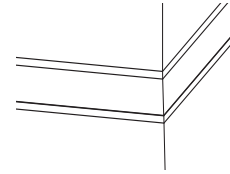
T Junction



X Junction



Inside Corner



Outside Corner

### Layout Sketch

Please draw and configure your linear run below.



**D1.1.0**
**JUNO®**
**TRAC-MASTER®**

One Circuit Trac System

**TRAC SECTION, JOINERS & FEEDS**
**T Series**

 Project: \_\_\_\_\_  
 Fixture Type: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Contact/Phone: \_\_\_\_\_

 Mount track such that  
 underside of fixture is  
 placed at 2700 A.F.F.

**PRODUCT DESCRIPTION**

Low-Profile, single-circuit trac sections for surface or pendant mounting. I-beam cross section provides added strength and rigidity in pendant suspended applications. Compatible with a full range of feed, connector and mounting accessories, as listed on back of this page, to complete virtually any installation requirement. Accepts all Trac-Master and Trac-Lites trac fixtures.

**PRODUCT SPECIFICATIONS**

**Construction** Extruded aluminum "I" beam channel • One-piece thermoplastic insulator • Injection molded polycarbonate dead-end with set screw • Standard lengths may be cut-to-length by installer.

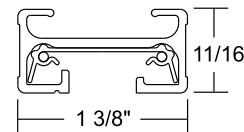
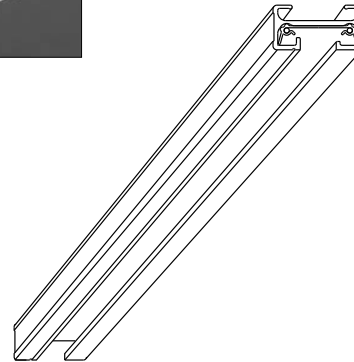
**Electrical** Two 12 gauge solid copper conductors • Rated 20 amps at 120 volts • Aluminum channel used as system ground • One-piece insulator insures consistent conductor spacing for reliable electrical contact • Insulating bushings supplied at mounting hole locations to prevent shorts to ground.

**Labels** UL listed, CSA certified.

**PRODUCT INSTALLATION**

Debossed polarity line provides visual cue to proper trac, trac connector and fixture alignment • Supplied with toggle bolts for surface mounting • Integral raceway in top of channel accommodates pendant mounting hardware and wire routing to electrical feed • Insulator stays same length as extrusion to simplify field-cutting of trac • Connectors and feeds simply push into trac sections.

Specifications subject to change without notice.

**DIMENSIONS**

**ORDERING INFORMATION**

Example: T 8FT WH

Series	Length	Finish
T Trac-Master 1-Circuit Track Sections	<b>2FT</b> 2-foot track section; actual length 19-7/8"	<b>BL</b> Black
	<b>4FT</b> 4-foot track section; actual length 43-7/8"	<b>NAT</b> Natural
	<b>6FT</b> 6-foot track section; actual length 67-7/8"	<b>SL</b> Silver
	<b>8FT</b> 8-foot track section; actual length 91-7/8"	<b>WH</b> White
	<b>12FT</b> 12-foot track section; actual length 139-7/8"	

**SHOP DRAWING REVIEW**

 REVIEWED   
 REVIEWED AS NOTED   
 REVISE AND RESUBMIT 


"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

 By: Michelle Cataldo Date: Feb. 14, 2019  
 HOBIN ARCHITECTURE INCORPORATED

**D1.1.0**

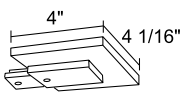
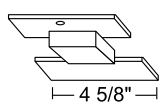
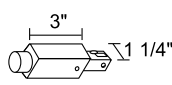
# TRAC-MASTER®

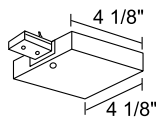
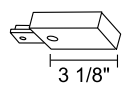
One Circuit Trac System

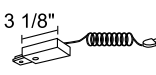
## TRAC SECTION, JOINERS & FEEDS T Series

### Electrical Feeds

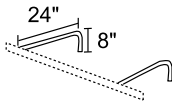
Examples: T21 BL, T34 R WH

T21	T21 R	T29	T34	T34 R
BL, SL, WH	BL, SL, WH	BL, SL, WH	BL, SL, WH	BL, SL, WH
<p><b>End Feed Connector and Outlet Box Cover</b></p> <p>For outlet box feed. Includes: outlet box cover, fixture strap and ground screw.</p> 	<p><b>End Feed Connector and Outlet Box Cover</b></p> <p>Same as T21 except designed for use in opposite polarity orientation compared to standard feed connectors.</p>	<p><b>Floating Electrical Feed</b></p> <p>Permits mounting any point of trac under outlet box. Includes floating connector, outlet box cover plus extra trac dead end.</p> 	<p><b>Conduit Feed</b></p> <p>For surface wiring. Use standard 1/2" connector.</p> 	<p><b>Conduit Feed</b></p> <p>Same as T34 except designed for use in opposite polarity orientation compared to standard feed connectors.</p>

T36	T36 R	T38	T38 R
BL, SL, WH	BL, SL, WH	BL, SL, WH	BL, SL, WH
<p><b>T-Bar End Feed</b></p> <p>Wiring compartment contains standard 1/2" KO's. Feeds surface trac from above, when T-bar is directly above trac.</p> 	<p><b>T-Bar End Feed</b></p> <p>Same as T36 except designed for use in opposite polarity orientation compared to standard feed connectors.</p>	<p><b>Live End Feed Connector</b></p> <p>Feed trac from above with flexible conduit, BX, etc., or end feed in pendant systems. Accepts standard 1/2" connector.</p> 	<p><b>Live End Feed Connector</b></p> <p>Same as T38 except designed for use in opposite polarity orientation compared to standard feed connectors.</p>

T22	T122
BL, SL, WH	BL, SL, WH
<p><b>Cord and Plug Connector</b></p> <p>Comes with 15' two-wire white cord. Includes surface wire retainers and in-line switch. Max cap. 7 amps. Not UL Listed.</p> 	<p><b>Cord and Plug Connector</b></p> <p>Same as T122 but with matching color 3-wire grounded cord and plug. No switch. Not UL Listed.</p>

### Outrigger System

T47
BL, WH
<p><b>Outrigger Bracket (non-electrified)</b></p> <p>For mounting trac out from wall. Use two for 2', 4' or 6' trac sections, three for 8' trac sections and four for 12' trac sections. Order trac and connectors separately. For portable electrical feed, use T22 or T122 Cord &amp; Plug Connector. For permanent wiring, use T38 end feed connector.</p> 

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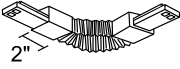
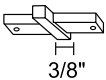
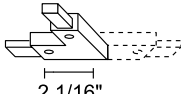
# TRAC-MASTER®

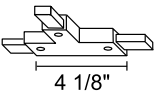
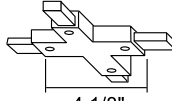
One Circuit Trac System

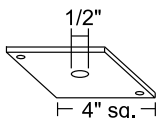

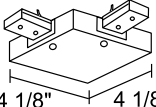
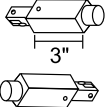
## TRAC SECTION, JOINERS & FEEDS T Series

### Trac Joiners & Dead End

Examples: T20 BL, T25 R WH

T20 BL, SL, WH	T23 BL, SL, WH	T24 ‡ BL, SL, WH	T24 F ‡ BL, SL, WH
<p><b>Accordion Adjustable Joiner</b></p> <p>Can flex to 90° angle to left, right, up or down. Joins two trac sections.</p>  <p>2"</p>	<p><b>Miniature Straight Connector</b></p> <p>Joins two trac sections end to end.</p>  <p>3/8"</p>	<p><b>Adjustable Connector</b></p> <p>Joins two trac sections to make a 90° angle or straight run. Straight and right angle covers supplied. For outlet box feed, No. T27 cover plate required.</p>  <p>2 1/16"</p>	<p><b>Adjustable Connector</b></p> <p>Same as T24 but with integral ground connection. For outlet box feed, No. T27 cover plate required.</p>

T25 ‡ BL, SL, WH	T25 R ‡ BL, SL, WH	T25 F ‡ BL, SL, WH	T26 ‡ BL, SL, WH	T26 F ‡ BL, SL, WH
<p><b>"T" Connector</b></p> <p>Joins three trac sections. For outlet box feed, No. T27 cover plate required.</p>	<p><b>"T" Connector</b></p> <p>Same as T25 except designed for use in opposite polarity orientation compared to standard feed connectors.</p>  <p>4 1/8"</p>	<p><b>"T" Connector</b></p> <p>Same as T25 but with integral ground connection. For outlet box feed, No. T27 cover plate required.</p>	<p><b>"X" Connector</b></p> <p>Joins four trac sections at 90° angles. For outlet box feed, T27 cover plate required.</p>  <p>4 1/8"</p>	<p><b>"X" Connector</b></p> <p>Same as T26 but with integral ground connection. For outlet box feed, No. T27 cover plate required.</p>

T27 BL, SL, WH	T28 BL, SL, WH	T35 BL, SL, WH	T49 BL, SL, WH
<p><b>Outlet Box Cover</b></p> <p>Use with Nos. T24/T25/T26 for outlet box electrical feed. Includes: nipple, locknut and ground screw.</p>  <p>1/2" 4" sq.</p>	<p><b>Trac Dead End</b></p> <p>For use with field-cut trac sections.</p> 	<p><b>T-Bar Adjustable Joiner Feed</b></p> <p>Joins two trac sections to make 90° angle or straight run. Wiring compartment contains standard 1/2" KO's. Feeds from above when T-bar is directly above trac.</p>  <p>4 1/8" 4 1/8"</p>	<p><b>Trac Continuation Kit</b></p> <p>Permits trac to continue a run around obstructions. Includes one left and one right T34 Conduit Feed. Fits standard 1/2" conduit.</p>  <p>3"</p>

‡ T24, T25 and T26 may not be used as feed connectors in Canada due to special grounding requirements – T24F, T25F & T26F are approved for use as feed connectors in Canada (may also be used in U.S.).

**D1.1.0**

# TRAC-MASTER®

One Circuit Trac System

## TRAC SECTION, JOINERS & FEEDS T Series

### Pendant Stems

Examples: T90 12IN BL, T93 BL

T90	T91
12IN, 18IN, 24IN, 36IN, 48IN	12IN, 18IN, 24IN, 36IN, 48IN
BL, SL, WH	BL, SL, WH
<p><b>T-Bar Pendant Stem Kit</b></p> <p>Compatible with 15/16" flush T-Bar ceilings. Use two for 2', 4', 6' of trac or three for 8' of trac. Includes canopy, T-Bar mounting plate, stem and trac attachment hardware. For electrical feed, order <b>T93</b> wireway cover.</p>	<p><b>Rigid Ceiling Pendant Stem Kit</b></p> <p>Attaches directly to junction box in rigid ceilings. Use two for 2', 4', 6' of trac or three for 8' of trac. Includes canopy, J-Box mounting strap, stem and trac attachment hardware. For electrical feed, order <b>T93</b> wireway cover.</p>

T92	T92 L	T93	T94
BL, SL, WH	BL, SL, WH	BL, SL, WH	BL, SL, WH
<p><b>Straight Structural Bridge</b></p> <p>For use with <b>T24</b> Straight Connector. Permits mounting Pendant Stem Kits (T90, T91) at center of Trac Joiner.</p>	<p><b>Corner Structural Bridge</b></p> <p>For use with <b>T24</b> Right Angle Connector. Permits mounting Pendant Stem Kits (T90, T91) at center of Right Angle Connector.</p>	<p><b>Wireway Cover</b></p> <p>For Pendant Stem Kits <b>T90</b> and <b>T91</b>. Conceals electrical feed wires from stem to connector. One cover required for each trac feed.</p>	<p><b>Sloped Ceiling Adapter</b></p> <p>Allows <b>T90</b> or <b>T91</b> pendant to hang straight down from sloped ceilings. Can be used to feed electrical wires to Trac at up to 60° angle.</p>

T96	T56
BL, SL, WH	BL, SL, WH
<p><b>Pendant Stem Threaded Coupling</b></p> <p>Enables multiple pendant stems to be joined for higher ceiling applications.</p>	<p><b>Solid Rod Pendant Mounting Kit</b></p> <p>Attaches solid 5/16" threaded rod to Trac. Includes: plastic cap, mounting bracket and hardware. Rod not supplied.</p>

**D1.1.0**

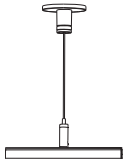
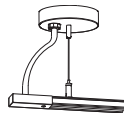
# TRAC-MASTER®

One Circuit Trac System

## TRAC SECTION, JOINERS & FEEDS T Series

### Cable Suspension




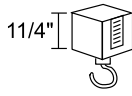
Examples: T595 48IN BL, T598 144IN WH


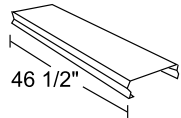
T595	T597	T596	T598
48IN, 144IN	48IN, 144IN	48IN, 144IN	48IN, 144IN
BL, WH	BL, WH	BL, WH	BL, WH
<p><b>T-Bar Ceiling Cable Suspension Kit</b></p> <p>Mechanical-only cable suspension kit for 1-circuit or 2-circuit trac. Compatible with 15/16" flush T-Bar ceilings. Adjustable 48" or 144" stainless steel cable length. Includes mini-canopy, T-bar clip and cable hardware. Trac requires support every 4'.</p> 	<p><b>Rigid Ceiling Cable Suspension Kit</b></p> <p>Mechanical-only cable suspension kit for 1-circuit or 2-circuit trac. Attaches directly to junction box in rigid ceilings. Adjustable 48" or 144" stainless steel cable length. Includes mini-canopy, toggle bolt and cable hardware. Trac requires support every 4'.</p>	<p><b>T-Bar Ceiling Cable Suspension/Feed Kit</b></p> <p>Cable suspension kit with adjustable 48" or 144" electrical feed cable for 1-circuit trac. Compatible with 15/16" flush T-Bar ceilings. Includes canopy, T-bar clip, mounting plate, cable hardware and flexible electrical feed cable. Trac feed connector not included (order separately). Trac requires support every 4'.</p> 	<p><b>Rigid Ceiling Cable Suspension/Feed Kit</b></p> <p>Cable suspension kit with adjustable 48" or 144" electrical feed cable for 1-circuit trac. Attaches directly to junction box in rigid ceilings. Includes canopy, J-box mounting strap, cable hardware and flexible electrical feed cable. Trac feed connector not included (order separately). Trac requires support every 4'.</p>

**Note:** Cable suspension is recommended for pattern installations only, or those installations that are supplemented with additional rigid mounting points (stems, threaded rod, etc.).

### Accessories

Example: T31 BL

T37F	T37D	T37F916	T37D916	T31	T32
				BL, SL, WH	BL, SL, WH
<p><b>15/16" T-Bar Attachment Clip</b></p> <p>To attach to inverted tee ceilings using flush tiles. Use two for 2' or 4' trac and three for 6' or 8' trac.</p> 	<p><b>15/16" T-Bar Attachment Clip</b></p> <p>Same as <b>T37F</b> with spacer for ceilings using drop tiles.</p>	<p><b>9/16" T-Bar Attachment Clip</b></p> <p>To attach to inverted tee ceilings using flush or drop tiles. Use two for 2' or 4' trac and three for 6' or 8' trac.</p> 	<p><b>9/16" T-Bar Attachment Clip</b></p> <p>Same as <b>T37F916</b> with spacer for ceilings using drop tiles.</p>	<p><b>Pendant Adapter</b></p> <p>Adapts swag or chain-hung fixture to trac. Supports up to 25 lbs. Not UL Listed.</p> 	<p><b>Plant or Utility Hook</b></p> <p>Supports up to 25 lbs. Not UL Listed.</p> 

T33	T39
BL, SL, WH	
<p><b>Outlet Adapter</b></p> <p>Provides electrical receptacle. Not UL Listed.</p> 	<p><b>Trac Wireway Cover</b></p> <p>4' black thermoplastic extrusion, covers wire carried in trac wireway. Use one for 4' trac, two for 8' and three for 12' trac. Can be field cut.</p> 

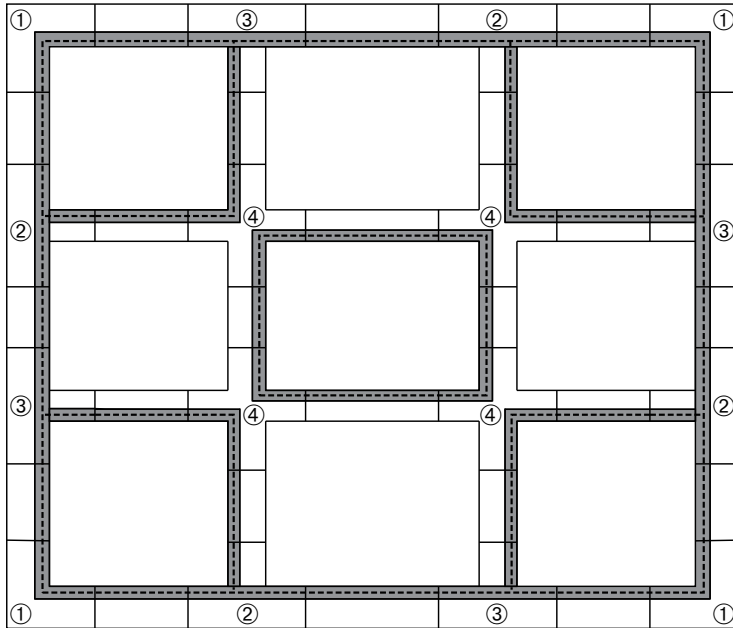
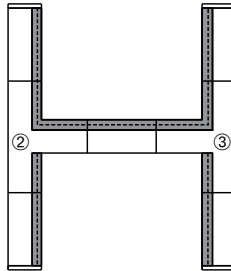
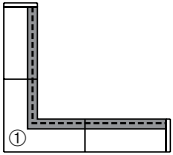
**D1.1.0**

# TRAC-MASTER®

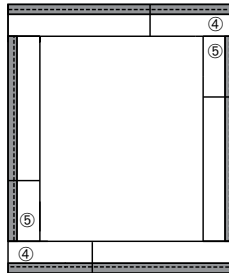
One Circuit Trac System

## TRAC SECTION, JOINERS & FEEDS T Series

### Possible Trac Configurations & Recommended Components



- ① Standard "L" Connector – **T24**
- ② Standard "T" Connector – **T25**
- ③ Reverse Polarity "T" Connector – **T25 R**
- ④ Standard "X" Connector – **T26**
- ⑤ Standard End Feed Connector – **T38**
- ⑥ Reverse Polarity End Feed Connector – **T38 R**



D2.1.16

**JUNO**

**TRAC-LITES™**  
**10W LED CYLINDER**  
**R605L SERIES**

Project: \_\_\_\_\_  
Fixture Type: \_\_\_\_\_  
Location: \_\_\_\_\_  
Contact/Phone: \_\_\_\_\_



**PRODUCT DESCRIPTION**

The R605L Series 10W LED is an economical and affordable trac fixture, with a simple and timeless aesthetic. It approximates the light output and distribution of 50W MR16 halogen lamps, utilizing about 20% of the energy and having a rated life of 50,000 hours. It is available in 2700K, 3000K, 3500K and 4000K color temperatures with a minimum 80 CRI. Optional high CRI versions are available with a minimum 90 CRI. The R605L Series LED is available in spot, narrow flood, flood and wide flood beam distributions which can be achieved with interchangeable precision-molded custom TIR optics. It is available with an optional, bayonet-mount accessory holder that accommodates one accessory if desired. It is compatible with Juno Trac-Lites™ and Trac-Master™ trac and system components.



**PRODUCT SPECIFICATIONS**

**Construction** Die cast aluminum heat sink provides outstanding thermal management of LED, yielding 70% average lumen maintenance at 50,000 hours of operation • Simple, timeless design complements any decor • Available in white, black, bronze and silver finishes.

**LED** High performance LED array provides outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K white phosphor high performance LEDs • Chromaticity range within a 3-step MacAdam Ellipse • Exceptional 80 CRI minimum on a standard product • Optional high CRI versions offer 90 CRI minimum.

**Driver** Integrated into fixture housing behind LED light engine to minimize overall fixture footprint • Insulating air gap between driver and LED light engine, plus thermal potting compound, optimizes thermal operation • Provides quiet operation with or without dimming • Dimmable using high quality, factory-approved dimmers - see [R605L-DIM](#) • Solid state electronic, Class 2 compliant • Integral overcurrent and short circuit protection • Designed for greater than 50,000 hour operating life • FCC Certified to Part 15 Class B EMI standards.

**Optics** Proprietary, interchangeable computer-designed custom TIR optics available in four factory-configured beam spreads • One TIR optic provided with fixture (as specified in catalog number) • Simply snaps into baffled bayonet mount optic holder • Accessory optics available to enable simple beam changes in the field • Beam patterns can be altered as desired using a variety of available light control accessories.

**Accessory Holder** Optional accessory ring attaches to baffled optic holder without tools • May be specified as a factory-installed option or ordered separately as a field-installed accessory • Precision bayonet mounting • Accommodates one accessory if desired.

**Adapter** Copper alloy contacts provide precise spring action - no arcing and will not take a set • True, positive electrical ground • On/off switch included • Patented embossed polarity arrows on bottom of adapter • Spring-loaded positive latch with embossed polarity arrows secures trac fixture to trac • Two-Position power contact provided for two circuit applications.

**Aiming** 350° horizontal coverage • 90° vertical aiming capability.

**Labels** UL and C-UL Listed • ENERGY STAR® certified • Assembled in U.S.A • 90 CRI version certified as CEC Title 24 Compliant • DLC Qualified.

**Warranty** 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx). Specifications subject to change without notice.

**ORDERING INFORMATION**

Ordering Example: R605L 27K 80CRI PDIM FL BL

Series	Color Temperature	Color Rendering Index	Dimming Compatibility	Distribution	Finish	Accessory Holder Option
R605L Trac-Lites™ 10W LED Cylinder	27K 2700K	80CRI 80 CRI	PDIM Phase Dimmable	FL Flood	BL Black	AHR605 BLCK Accessory Holder for R605L, Black AHR605 WHT Accessory Holder for R605L, White
	30K 3000K	90CRI 90 CRI		NFL Narrow Flood	BZ Bronze	
	35K 3500K			SP Spot	SL Silver	
	40K 4000K			WFL Wide Flood	WH White	

Accessories		
AHR605 BLCK 200	Accessory Holder for R605L, Black	HCLBL 200 Hexagonal Cell Louver - Black
AHR605 WHT 200	Accessory Holder for R605L, White	SNOOTBL 200 Snoot - Black
UVF 200	UV Filter	TIR6 FLD BLCK TIR Optic - Flood, Black
CGF 200	Color Glass Filter	TIR6 FLD WHT TIR Optic - Flood, White
DCCF 200 <sup>1</sup>	Dichroic Color Correction Filter	TIR6 NFLD BLCK TIR Optic - Narrow Flood, Black
DGF 200	Dichroic Glass Filter	TIR6 NFLD WHT TIR Optic - Narrow Flood, White
DIFF 200	Diffusion Glass Lens	TIR6 SPT BLCK TIR Optic - Spot, Black
PRISM 200	Prismatic Spread Glass Lens	TIR6 SPT WHT TIR Optic - Spot, White
SOLITE 200	Uniformity Lens (Solite)	

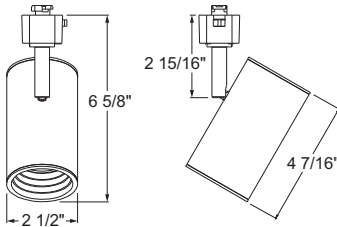
See specification sheet [D1.2.2](#) for details.

Notes:  
1 DCCF 200 HAL2700 corrects 3000K color to approximately 2700K and 4000K color to approximately 3400K.

**D2.1.16**

# TRAC-LITES™ 10W LED CYLINDER R605L SERIES

## DIMENSIONS



Mount track such that  
underside of fixture is  
placed at 2700 A.F.F.

### SHOP DRAWING REVIEW

REVIEWED   
REVIEWED AS NOTED   
REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Michelle Cataldo Date: Feb. 14, 2019  
HOBIN ARCHITECTURE INCORPORATED

## PERFORMANCE DATA<sup>1</sup>

Catalog Number	Input Voltage	Watts (Typical)	Lumens	Efficacy (LPW)	Rated Life (Hours)
R605L 27K 80CRI PDIM SP	120V	10.5	924	88	50,000
R605L 27K 80CRI PDIM NFL	120V	10.5	893	85	50,000
R605L 27K 80CRI PDIM FL	120V	10.5	957	91	50,000
R605L 27K 80CRI PDIM WFL	120V	10.5	851	81	50,000
R605L 27K 90CRI PDIM SP	120V	10.5	764	73	50,000
R605L 27K 90CRI PDIM NFL	120V	10.5	738	70	50,000
R605L 27K 90CRI PDIM FL	120V	10.5	792	75	50,000
R605L 27K 90CRI PDIM WFL	120V	10.5	704	67	50,000
R605L 30K 80CRI PDIM SP	120V	10.5	972	93	50,000
R605L 30K 80CRI PDIM NFL	120V	10.5	939	89	50,000
R605L 30K 80CRI PDIM FL	120V	10.5	1007	96	50,000
R605L 30K 80CRI PDIM WFL	120V	10.5	895	85	50,000
R605L 30K 90CRI PDIM SP	120V	10.5	803	76	50,000
R605L 30K 90CRI PDIM NFL	120V	10.5	776	74	50,000
R605L 30K 90CRI PDIM FL	120V	10.5	832	79	50,000
R605L 30K 90CRI PDIM WFL	120V	10.5	739	70	50,000
R605L 35K 80CRI PDIM SP	120V	10.5	998	95	50,000
R605L 35K 80CRI PDIM NFL	120V	10.5	964	92	50,000
R605L 35K 80CRI PDIM FL	120V	10.5	1034	98	50,000
R605L 35K 80CRI PDIM WFL	120V	10.5	919	88	50,000
R605L 35K 90CRI PDIM SP	120V	10.5	824	78	50,000
R605L 35K 90CRI PDIM NFL	120V	10.5	796	76	50,000
R605L 35K 90CRI PDIM FL	120V	10.5	854	81	50,000
R605L 35K 90CRI PDIM WFL	120V	10.5	759	72	50,000
R605L 40K 80CRI PDIM SP	120V	10.5	1015	97	50,000
R605L 40K 80CRI PDIM NFL	120V	10.5	981	93	50,000
R605L 40K 80CRI PDIM FL	120V	10.5	1052	100	50,000
R605L 40K 80CRI PDIM WFL	120V	10.5	935	89	50,000
R605L 40K 90CRI PDIM SP	120V	10.5	838	80	50,000
R605L 40K 90CRI PDIM NFL	120V	10.5	810	77	50,000
R605L 40K 90CRI PDIM FL	120V	10.5	868	83	50,000
R605L 40K 90CRI PDIM WFL	120V	10.5	772	74	50,000

<sup>1</sup>Performance data, including Rated Life, is based on measurements of an individual fixture operating in a 25°C ambient.

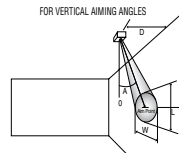
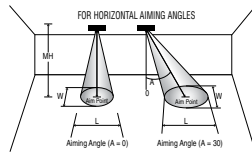
## ELECTRICAL DATA

Input Voltage	120V
Input Current (max.)	0.09A
Power Factor	>0.95
T.H.D.	<20%



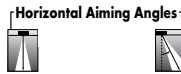
**D2.1.16**

**TRAC-LITES™**  
**10W LED CYLINDER**  
**R605L SERIES**



**CBCP** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°, 1.732 for 60°).



Fixture	Beam Type	Beam Spread	Rated Life	CBCP	0°		30°			30°				45°				60°							
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
R605L 10W LED, 3000K, 80CRI Spot	SP	13°	50000	9850	6	274	1.4	1.4	178	1.8	1.6	3	137	5.2	2.8	1.4	387	3.0	1.4	1.0	6	178	3.5	1.8	1.6
					8	154	1.8	1.8	100	2.4	2.1	4	77	6.9	3.8	1.8	218	4.0	1.8	1.3	8	100	4.6	2.4	2.1
					10	99	2.3	2.3	64	3.0	2.6	5	49	8.7	4.7	2.3	139	5.0	2.3	1.6	10	64	5.8	3.0	2.6
					12	68	2.7	2.7	44	3.6	3.1	6	34	10.4	5.6	2.7	97	6.0	2.7	1.9	12	44	6.9	3.6	3.1
R605L 10W LED, 3000K, 80CRI Narrow Flood	NFL	21°	50000	4189	4	262	1.5	1.5	170	2.0	1.7	2	131	3.5	3.4	1.5	370	2.0	1.6	1.1	4	170	2.3	2.0	1.7
					6	116	2.3	2.3	76	3.1	2.6	3	58	5.2	5.1	2.3	165	3.0	2.4	1.6	6	76	3.5	3.1	2.6
					8	65	3.0	3.0	43	4.1	3.5	4	33	6.9	6.8	3.0	93	4.0	3.1	2.1	8	43	4.6	4.1	3.5
					10	42	3.8	3.8	27	5.1	4.4	5	21	8.7	8.5	3.8	59	5.0	3.9	2.7	10	27	5.8	5.1	4.4
R605L 10W LED, 3000K, 80CRI Flood	FL	31°	50000	2387	4	149	2.2	2.2	97	3.0	2.5	1	298	1.7	2.8	1.1	844	1.0	1.2	0.8	3	172	1.7	2.3	1.9
					5	95	2.7	2.7	62	3.8	3.2	2	75	3.5	5.7	2.2	211	2.0	2.4	1.6	4	97	2.3	3.0	2.5
					6	66	3.3	3.3	43	4.5	3.8	3	33	5.2	8.5	3.3	94	3.0	3.6	2.3	5	62	2.9	3.8	3.2
					7	49	3.8	3.8	32	5.3	4.4	4	19	6.9	11.4	4.4	53	4.0	4.8	3.1	6	43	3.5	4.5	3.8
R605L 10W LED, 3000K, 80CRI Wide Flood	WFL	35°	50000	1445	2	361	1.3	1.3	235	1.8	1.5	1.0	181	1.7	3.6	1.3	511	1.0	1.4	0.9	2	235	1.2	1.8	1.5
					3	161	1.9	1.9	104	2.6	2.2	1.5	80	2.6	5.5	1.9	227	1.5	2.1	1.3	3	104	1.7	2.6	2.2
					4	90	2.5	2.5	59	3.5	2.9	2.0	45	3.5	7.3	2.5	128	2.0	2.8	1.8	4	59	2.3	3.5	2.9
					5	58	3.2	3.2	38	4.4	3.7	2.5	29	4.3	9.1	3.2	82	2.5	3.5	2.2	5	38	2.9	4.4	3.7
6	40	3.8	3.8	26	5.3	4.4	3.0	20	5.2	10.9	3.8	57	3.0	4.2	2.7	6	26	3.5	5.3	4.4					

For 27K 80CRI fixtures, use 0.95 multiplier; for 27K 90CRI fixtures, use 0.79 multiplier; for 30K 90CRI fixtures, use 0.83 multiplier; for 35K 80CRI fixtures, use 1.03 multiplier; for 35K 90CRI fixtures, use 0.85 multiplier; for 40K 80CRI fixtures, use 1.04 multiplier; for 40K 90CRI fixtures, use 0.86 multiplier.

Catalog Number:

Date:

Project:

## OVERVIEW

The nLight nPP16 EFP family of power packs is the workhorse of an nLight system, delivering robust system performance and design versatility for commercial and industrial lighting control applications. The nPP16 EFP family is capable of switching loads via an internal latching relay designed with robust protection from the harsh switching requirements of T5 fluorescent and LED loads. These power packs also provide nLight system bus power - up to 40mA from each of its two RJ-45 ports - by transforming Class 1 line voltage (120/277 VAC or 347 VAC) to Class 2 low voltage (15 VDC). This power is typically utilized by other nLight devices within the power pack's local control zone; however, remaining power is also made available over the network for Bridges and devices in other zones to utilize.

## FEATURES

- Communicates w/ nLight Network
- Self-Contained Relay Switches Line Voltage Load
- Supplies 40mA of Bus Power / RJ-45 port
- Optional out-of-box vacancy and partial-on modes
- Remotely Configurable/Upgradeable
- Push-Button Programmable
- Configurable Relay Logic
- Extended Chase Nipple
- Plenum rated
- Includes fuse integrated to relay wirelead for protection from load faults
- Meets NEMA410 ratings for LED/electronic ballast inrush

## Warranty

Five-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/terms_and_conditions.aspx)

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

**AcuityControls**

nLight®

## nPP16 EFP Power/Relay Pack



Model #: nPP16 (D) EFP



## ORDERING INFORMATION

Series	Dimming	Fault Protection	Default Mode	Voltage	Temp/humidity
nPP16 Power/Relay Pack	[blank] None D 0-10VDC Dimming output (via chase nipple) DS 0-10VDC Dimming output (via side slot)	EFP External Fault Protection	[blank] Auto On (Switch Ch. 1) SW2 Auto On (Switch Ch. 2) SA Manual On (Switch Ch. 1) SA2 Manual On (Switch Ch. 2) PA70 Auto On to 70% (Partial On) <sup>1</sup> PA Auto On to 50% (Partial On) <sup>1</sup>	[blank] 120/277VAC 347 120/347VAC	[blank] Standard LT Low temp

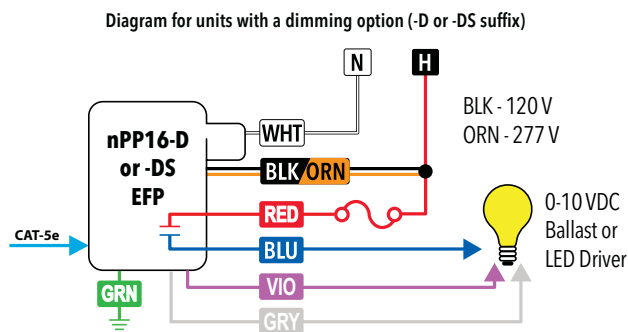
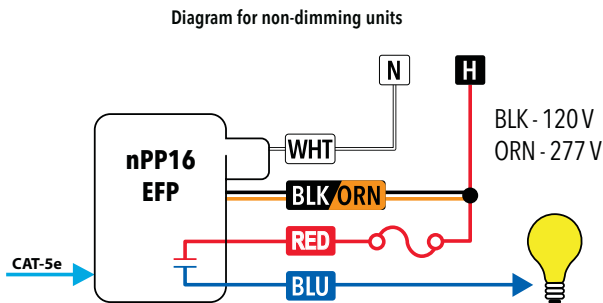
1. Requires D or DS option.

### SPECIFICATIONS (NPP16\_EFP\_FAMILY)

<b>Electrical</b>	<b>Input Ratings</b>	120/277VAC, 50/60 Hz 120/347VAC, 50/60 Hz (with 347 option)
	<b>Output Ratings</b>	120/277VAC (120/347VAC with 347 option), 50/60 Hz, 16A - Tungsten, Standard Ballast, Electronic Ballast, General Purpose 120VAC, 50/60 Hz, 1/2 HP - Motor SCCR: 5KA 100mA, 0-10VDC Dimming Sink Current
	<b>Relay Type</b>	Latching
	<b>Low Voltage Output Ratings</b>	15VDC, 40mA per RJ-45 Port (80mA total)
	<b>Class Rating</b>	0-10V Dimming can be wired Class 1 or 2
	<b>Standards/ Ratings</b>	Energy Management Equipment, UL916 (E167435)
	<b>Mechanical</b>	<b>Dimensions</b>
<b>Mounting</b>		1/2" Knockout (7/8" hole)
<b>Color</b>		White
<b>Connection Type</b>		RJ-45 nLight Network Ports (2) Non-Dimming Model: Line Voltage Leads Dimming Model: Line and Low Voltage Leads
<b>Environmental</b>	<b>Warrantied Operating Temperature</b>	Standard: 14°F to 122°F (-10°C to 50°C) Standard: 14°F to 113°F (-10°C to 45°C) if enclosed within a junction box LT option: -4°F to 122°F (-20°C to 50°C)
	<b>Relative Humidity</b>	Up to 90%, Non-Condensing
	<b>Standards/ Ratings</b>	RoHS, Plenum UL2043
<b>General</b>	<b>Standards/ Ratings</b>	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC

### WIRING (Do not wire hot)

T568B pin/pair assignment is recommended for all CAT-5e cables. For Supply Connections, use 14 AWG/90°C, 12 AWG/75°C or larger.



Catalog Number:

Date:

Project:

## OVERVIEW

The nLight nSP5 PCD Series Secondary Relay and Dimming Pack is capable of switching and dimming incandescent lighting loads, certain line voltage dimmable fluorescent lighting loads, magnetic low voltage (MLV) lighting loads, and electronic low voltage (ELV) lighting loads. Manual switching and adjustment of the dimming level is possible via WallPods or through the nLight SensorView software. The nSP5 PCD's two RJ-45 connectors make control wiring with standard CAT-5 cabling quick and easy. For mounting, the nSP5 PCD has an elongated chase nipple that allows it to be attached either directly through a 1/2" knockout onto a junction box, or to an adjacent box for meeting specific local code requirements in ceiling plenums.

## SWITCHING & DIMMING OPERATION

The nSP5 PCD performs phase cut dimming (either forward or reverse depending on model) of the line voltage being supplied to a 120 VAC incandescent (tungsten) load, a 120/277 VAC dimmable fluorescent (ballast) load, a 120/277 VAC magnetic low voltage (inductive) load, or a 120 VAC electronic low voltage (non-inductive) load. The nSP5 PCD 2W version dims the switched line voltage connection going to a 2-wire dimming ballast or incandescent lamp. The nSP5 PCD MLV version is designed to dim low voltage lighting powered by an inductive (magnetic) transformer. Similarly the nSP5 PCD ELV version is designed to reverse phase dim electronic low voltage loads. The nSP5 PCD 3W dims the dedicated dimming input to a 3-wire dimming ballasts. All versions have an internal latching relay that switches the loads (see electrical specifications). Note, that in order to function the nSP5 PCD must be connected as part of an adequately powered nLight zone as the unit does not power itself from the line voltage it is switching/dimming.

## FEATURES

- Communicates w/ nLight network
- Remotely configurable/upgradable
- Push-button programmable
- Configurable relay logic
- Self-contained relay
- Forward phase and reverse phase options
- Extended chase nipple
- Plenum rated

## Warranty

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

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**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](http://www.acuitybrands.com/aplus).



## ORDERING INFORMATION

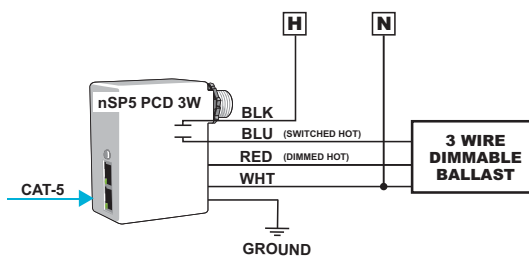
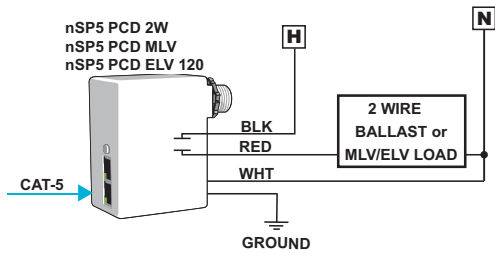
nSP5 PCD		Example: nSP5 PCD 2W LT	
Series	Dimming Type	Temp/Humidity	
nSP5 PCD	2W Two wire dimming	[blank]	Standard
	3W Three wire dimming	LT	Low temp
	MLV Magnetic low voltage		
	ELV 120 Electronic low voltage (120 VAC)		

## WIRING (DO NOT WIRE HOT)

Device power is provided via the CAT-5e connection and not taken off the line. T568B pin/pair assignment is recommended for all CAT-5e cables. For dimming 120 VAC incandescent loads use the 2-wire diagram below. In multi-phase applications, use a separate neutral for each phase containing a dimmer circuit.

Additional notes on usage of nSP5 PCD ELV 120 module:

- 1. Caution:** module should not be used to dim a load fed from a local step-down transformer.
- 2. Caution:** to avoid overheating and possible damage to other equipment, do not use module to control receptacles, magnetic fluorescent lighting fixtures, motor-operated, or transformer-supplied appliances.
3. Use only to control the primary side of electronic transformer-supplied low-voltage lighting.
4. Some fixture manufacturers do not recommend dimming their solid-state transformers. To determine if a fixture may be dimmed, consult literature of the fixture manufacture.



## OPERATIONAL SETTINGS

- Several operational settings for the nSP5 PCD are available:
  - Override (On/Off/Normal)
  - Occupancy Tracking (Enable/Disable)
  - Photocell Tracking (Enable/Disable)
  - Switch Tracking (Enable/Disable)
  - Local Occupancy Tracking Channel (1-16)
  - Local Photocell Tracking Channel (1-16)
  - Local Switch Tracking Channel (1-16)
  - Global Tracking (Enable/Disable)
  - Global Tracking Channel (1-128)
  - Button Mode (Enable/Disable)
  - Invert Relay Logic\* (Enable/Disable)
    - \*does not invert dimming operation
- Idle Time Until Dim
- Dimming Range High (0 - 100%)
- Dimming Range Low (0 - 100%)
- Dimming Offset (-200% to +200%)
- LED (Override On/Override Off/Normal)
- Follow Photocell Mode (Enabled +, Enabled +/-, Disabled)
- WallPod Dimming Adjustments (Perm., Temp., Photocell Temp. Override)
- Special Modes:
  - Manual On to Auto Off (Semi-Auto), Auto to (Timed) Override On
  - Manual to (Timed) Override On, Manual On to Full Auto, Predictive Off
- Frequency (60 Hz / 50 Hz)

## SPECIFICATIONS

Size: (not including 1/2" chase nipple)	Minimum Load: nSP5 PCD 2W/3W/MLV: 7W
3.38" H x 2.53" W x 1.83" D	nSP5 PCD ELV 120: None
(8.59 cm x 6.43 cm x 6.22 cm)	Default Trim Levels: 2W/3W
Weight: 6 oz	56 to 110 VAC w/ 120 VAC feed
Mounting: 1/2" knockout (open air only)	129 to 254 VAC w/ 277 VAC feed
Network Connection: 2 RJ-45 ports	MLV/ ELV
Bus Power Consumption: < 7 mA	24 to 117 VAC w/ 120 VAC feed
Switching/ Dimming Ratings	55 to 270 VAC w/ 277 VAC feed
nSP5 PCD 2W	Wires: nSP5 PCD 2W/MLV/ELV 120: 18 AWG (4)
575 W @ 120 VAC, 1375 W @ 277 VAC,	nSP5 PCD 3W: 18 AWG (5)
Tungsten / Ballast	
nSP5 PCD 3W	Title 24 System Component, ROHS Compliant
575 W @ 120 VAC, 1375 W @ 277 VAC, Ballast	
nSP5 PCD MLV	
575 W @ 120 VAC, 1375 W @ 277 VAC	
(MLV Transformers only)	
nSP5 PCD ELV 120	
475 W @ 120 VAC	

Catalog Number:

Date:

Project:

## OVERVIEW

The nLight® AIR rPODB is a wireless, battery-powered wall switch including toggle and/or raise lower features with optional multi-pole control. It provides a user with local control of a lighting zone. A true wire-free switch, these single gang decorator style devices have soft-click buttons and a green LED indicator for each button. The rPODB wall switches communicate with other nLight AIR devices via radio frequency (RF). A basic battery-powered wall switch can work with any nLight AIR enabled fixture to provide toggle switch operation. Wall switches with the DX option have the added ability to adjust the level of any nLight AIR controlled dimmable light fixture.

## FEATURES

- Powered with three off-the-shelf AAA Lithium size batteries and rated for 10 years of normal use, minimizing battery replacement. (Battery replacement with alkaline batteries does not guarantee a 10-year run time.)
- Communicates with nLight® AIR devices via radio frequency (RF) in the 900MHz spectrum
- Soft-click push-button control
- Custom button engraving at no charge (WH, IV, AL GY units only)
- 1 or 2 on/off
- 1 or 2 raise/lower
- 120-277 Volts AC line powered
- Wireless multi location dimming

## Warranty

Five-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**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](http://www.acuitybrands.com/aplus).

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nLight®

nLight® AIR  
rPODB:

Wall Switch



nLight® AIR Platform



**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: RPODB WH			
Series¹	Poles & Scenes	Dimming Control	Color
RPODB	[blank] Single Pole	[blank] On/off Control	WH White
RPODBZ	2P Two Pole	DX On/off + Raise/Lower Control	IV Ivory AL Light Almond
			GY Gray

Note:

1. RPODB can control up to 128 (RES7N) fixtures in a network; RPODBZ can control up to 50 (RES7Z) fixtures in a standalone zone; RPODBZ only available in RPODBZ DX WH configuration.

## SPECIFICATIONS

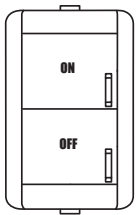
Dimensions	2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm)
Weight	4.25 oz
Mounting	Single Gang Switch Box or Low Voltage Ring
Color	White, Ivory, Lt. Almond, Gray, Black
Operating Temperature	-40C to 60C (Indoor Use Only)
Relative Humidity	Standard: 20 to 75% non-condensing
Radio Frequency	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
Wireless Range	900MHz: Up to 1000 ft. (~304m) in free space/ line of sight 600 ft to 800 ft through obstruction depending on building construction 2.4GHz: Up to 60 ft. (~18m) in free space/ line of sight
Security	Application Data Encryption: AES-128 bit Mutual Entity Authentication Message Confidentiality Message Authentication and Replay Prevention Limited Anonymity
Regulatory Compliance	FCC, IC, RoHS

Programming Tool **CLAIRITY** Mobile App

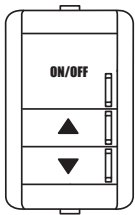
## CUSTOM ENGRAVING

- Default button labeling is shown on below.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at: <http://www.acuitybrands.com/-/media/Files/Acuity/Brands/Controls/nLight/NGRAVE.PDF?la=en>.
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation

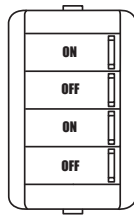
### DEFAULT LABELING



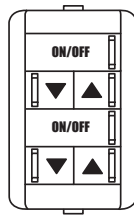
rPODB  
On/Off Control



rPODB DX  
On/Off +raise/  
Lower Control



rPODB 2P  
Two Pole On/Off  
Controls



rPODB 2P DX  
Two Pole On/Off  
+ two raise/lower  
controls

## INSTALLATION OVERVIEW

Installation of the rPODB wall switch is simple, straight forward, and quick! A truly "wire-free" installation with preinstalled batteries and embeded nLight AIR radio. Follow the simple steps below to perform the mechanical installation of the rPODB Wall Switch.

### Installation

1. Install the rPODB into a single gang box just like your typical wall switch
2. No wiring needed, and can be installed retainer first, or switch and retainer together
3. Check to make sure the rPODB is secure in retainer clip once installed
4. Screw down wall plate - DONE!



Catalog Number:

Date:

Project:

## OVERVIEW

The nPODM Series WallPods are nLight-enabled toggle and/or raise/lower switches that provide a user with local control of a lighting zone. These single gang decorator style devices have soft-click buttons and have a green LED indicator for each button. WallPods communicate with other nLight devices via a CAT-5e cable that connects to one of its two RJ-45 connectors. A basic low voltage WallPod can work with an nLight power pack or nLight enabled fixture to provide toggle switch operation. WallPods with the DX option have the added ability to adjust the level of any nLight controlled dimmable lighting.

## FEATURES

- Communicates with nLight network
- Remotely configurable/upgradeable
- Soft-click push-button control
- Custom button engraving (WH, IV, AL GY units only)
- 1, 2, or 4 channel on/off
- 1, 2, or 4 channel raise/lower
- "Dynamic" options for custom button names when pairing with Acuity Brands nTUNE fixtures

## Warranty

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

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

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

nLight®

nPODM

Wallpod: On/Off & On/  
Off+Raise/Lower



## A+ Capable

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](http://www.acuitybrands.com/aplus).



## ORDERING INFORMATION

nPODM		Example: nPODM 2P WH			
Series	Preset Type	Dimming Control	Dynamic	Color	Temp/ Humidity
nPODM	[blank] Single channel 2P Two channels 4P Four channels	[blank] On/off control DX On/off + raise/lower control	[blank] Standard CCT <sup>1</sup> Correlated color temperature GRSC <sup>1</sup> Grayscale COLOR <sup>1</sup> Color control	WH White IV Ivory GY Gray AL Almond BK Black RD Red	[blank] Normal LT Low temp

## CUSTOM BUTTON ENGRAVING

- Standard button labeling is shown on back.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at: <http://www.acuitybrands.com/-/media/Files/Acuity/Products/Controls/nLight/NGRAVE%20110%20pdf.pdf?la=en>
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation.

Notes

1. Only available on 2P DX configurations



## SPECIFICATIONS

Size: (not including ground strap) 2.74" H x 1.68" W x 1.63" D  
(6.96 cm x 4.27 cm x 4.14 cm)

Weight: 2 oz

Mounting: Single Gang Switch Box or Low Voltage Ring

Color: White, Ivory, Lt. Almond, Gray, Black, Red

nLight Network Ports: 2 RJ-45

Power Consumption: < 5 mA

Wires: None

Temperature Rating: Standard: -10° C to 70° C

LT Option: -40° C to 70° C

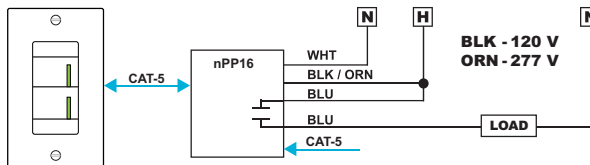
RoHS Compliant, Title 24 System Component

## WIRING

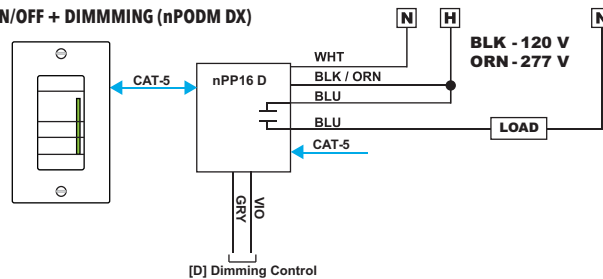
### TYPICAL WIRING

Power to WallPod device is provided via the CAT-5e connection to an nLight enabled fixture, nLight power pack (e.g. **nPP16**), power supply (**nPS80**), or Bridge (**nBRG 8**).

#### ON/OFF

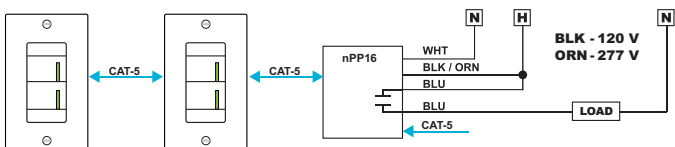


#### ON/OFF + DIMMING (nPODM DX)

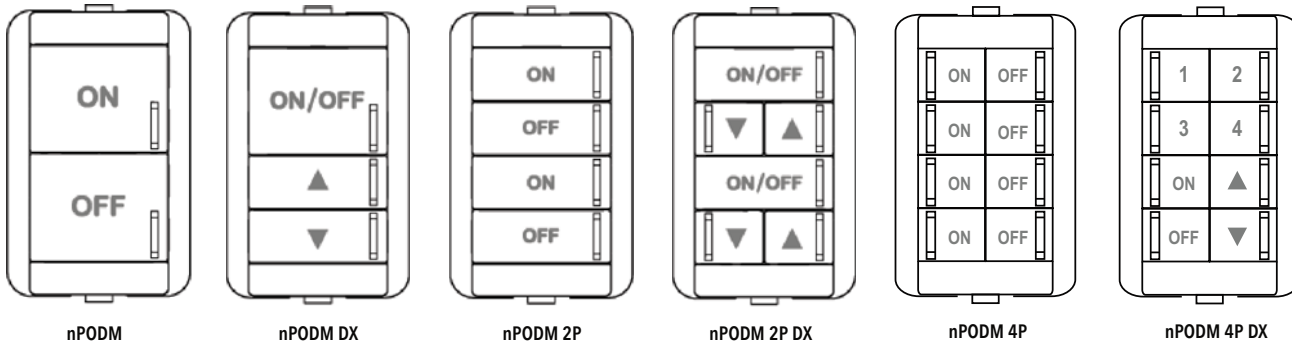


### 3-WAY CONFIGURATION WIRING

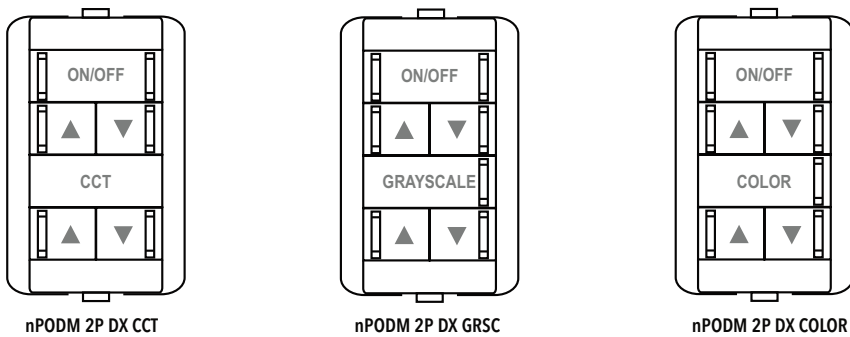
WallPods and/or nLight wall switch sensors can be configured together to create zones with multiple switching locations.



## DEFAULT LABELING



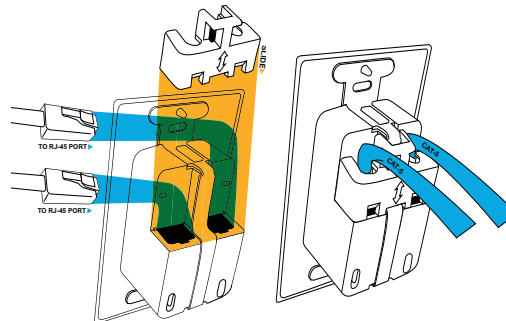
Dynamic wallpod options feature custom button names when pairing with Acuity Brands nTUNE(TM) fixtures. Reference fixture cut sheets for additional details.



Custom lettering for WH, IV, AL, and GY units can be specified and ordered at:  
<http://www.acuitybrands.com/-/media/Files/Acuity/Products/Controls/nLight/NGRAVE%20110%20pdf.pdf?la=en>

## INSTALLATION

- Mount WallPod using holes that align with standard single gang switch box or low voltage ring
- Access RJ-45 ports by sliding plastic guard up
- Insert CAT-5e cable(s), T568B wiring convention recommended
- Slide guard back onto metal strap
- Interconnect unit with other nLight devices in lighting zone using CAT-5e cables
- Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to respective device's defaults



**Attention! Only use non-booted CAT5e cables.**

## PROGRAMMING

Refer to instruction card IN-11.3 for directions on programming the sensor via the upper-most left push-button. All buttons are factory set to the matching switch channel (button 1 - channel 1, button 2 - channel 2, etc). For nPODM 4P DX, channels to be controlled are selected first, then the control button (on/off or raise/lower).

# EBST

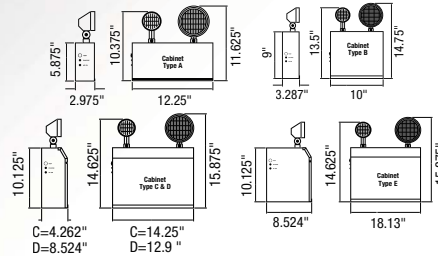
Project:

Contractor:

## STEEL BATTERY UNIT

6V, 12V or 24V Models  
18-720W Capacity  
120/347VAC Input

Approvals:  
CSA Certified to C22.2 #141



### DESCRIPTION

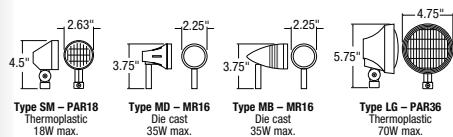
The EBST series of commercial steel battery units is designed to provide efficient and reliable emergency lighting. Utilizing a sturdy, all steel housing, the EBST presents a modern and unobtrusive design. On higher capacity models, the cabinet front is sloped to allow better internal access and superior low angle light distribution. The EBST series is available in 6VDC, 12VDC and 24VDC versions in a range of wattage capacities between 18 and 720W, for 30 minutes duration. Units are typically supplied with two top mounted PAR18 or PAR36 type heads, however a wide range of head type, number and placement are available including MR16 type. The EBST can also accommodate a wide variety of options, including auto-testing self-diagnostics and remote testing.

### MECHANICAL

- 120VAC line cord supplied standard
- Universal spider knockout pattern and keyhole mounting slots stamped into back of cabinet
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and Colours optional
- Lamp heads include PAR18 small style, PAR36 large style and die cast metal MR16 type
- Top head mounting is standard, side mount is optional

### CIRCUITRY

- 120/347VAC 60Hz Input, field selectable
- High efficiency, rapid recovery, precision control charging system
- 6VDC, 12VDC or 24VDC emergency power output versions (as specified)
- Wattage capacities from 18 to 720W
- 30 Minutes emergency power duration standard
- Momentary push button test switch
- Diagnostic/pilot LEDs for AC ON and CHARGE
- Fully automatic, current limited charger
- Line latched, low voltage protection
- Solid state design and construction
- Brownout and short circuit protection
- Temperature compensated
- Load connection 72W and above
- Complete battery recharge in 24 hours
- Maintenance free, sealed lead acid battery
- Optional automatic-testing, self-diagnostic charger board:
  - Continuously monitors the operational status of the battery unit
  - Automatically performs battery and lamp load testing at preset intervals
  - Indicates any component malfunctions or automated test failures



### ORDERING GUIDE

Series	Voltage	Wattage	Head/Lamp	Lamp	Colour	Options <sup>†</sup>
EBST	06 - 6VDC 12 - 12VDC 24 - 24VDC	See model rating below <b>072</b>	0 - No Heads 1SM - One PAR18 2SM - Two PAR18 1LG - One PAR36 2LG - Two PAR36	1MD - One MR16 2MD - Two MR16 1MB - One MR16 2MB - Two MR16	See lamp list below <b>5WLA</b>	<b>WHT</b> - White (standard) <b>BLK</b> - Black <b>GRY</b> - Grey <b>WST</b> - Whistle <b>ATD, TDL*, LPD, BTD, VLT, AMP, ACT, DCT, FS4, RDS*, NLC, TLP, CAB, VDR, MTS, WRG, IRT, IRC</b>

<sup>†</sup> For detailed options descriptions, please consult the options page. \* Specify AC voltage.

### LAMP SELECTION

	6 Volts	12 Volts	24 Volts
<b>PAR18 - Small head or LED Lamp</b>			
LED	3LJ, 4LJ	3LJ, 4LJ, 6LA, 7LA	4LR, 6LA, 7LA
Quartz halogen	08Q, 10Q, 12Q	08Q, 10Q, 12Q	12Q
Tungsten	09T	09T, 12T, 18T	09T, 18T
<b>MR16 - Small head c/w MR16 or LED Lamp</b>			
LED	4LR	4LR	4LR
LED	N/A	<b>5WLA</b>	6LA, 7LA
Quartz halogen	08Q, 10Q, 12Q, 20Q	08Q, 10Q, 12Q, 20Q, 35Q	10Q, 12Q, 20Q
<b>PAR36 - Large head</b>			
Quartz halogen	08Q, 10Q, 12Q, 20Q	8Q, 10Q, 12Q, 20Q, 35Q	12Q, 20Q
Tungsten	09T, 18T, 25T	09T, 18T, 25T	09T, 18T, 25T
Quartz sealed beam	08SBQ, 10SBQ, 12SBQ, 20SBQ	08SBQ, 12SBQ, 35SBQ, 55SBQ	55SBQ, 70SBQ
Tungsten sealed beam	08SBT, 09SBT, 18SBT	25SBT	N/A

### MODEL RATINGS

Model	Voltage	Wattage Capacities				Cabinet
		30 min.	60 min.	90 min.	120 min.	
EBST-06018	6V	18	9	N/A	N/A	A
EBST-06036	6V	36	18	12	9	A
EBST-06050	6V	50	25	16	12	A
EBST-06072	6V	72	36	24	18	B
EBST-06100	6V	100	50	33	25	B
EBST-06180	6V	180	80	53	40	C
EBST-06180	6V	180	90	60	45	C
EBST-12036	12V	36	18	12	9	A
EBST-12050	12V	50	25	16	12	A
EBST-12072	12V	72	36	24	18	A
EBST-12144	12V	144	72	48	36	C
EBST-12160	12V	160	80	53	40	C
EBST-12200	12V	200	100	66	50	C
EBST-12250	12V	250	125	83	62	D
EBST-12360	12V	360	180	120	90	D
EBST-24144	24V	144	72	48	36	C
EBST-24200	24V	200	100	66	50	C
EBST-24320	24V	320	160	106	80	D
EBST-24350	24V	350	175	116	87	E
EBST-24550	24V	550	275	183	137	E
EBST-24720	24V	720	360	240	180	E

NOTE: Due to cabinet/space limitations, not all options are available for all models in any given combination. Please consult with your factory representative regarding specific options and exact cabinet dimension information.



# RMSM

## PAR18/MR16 mini remote

Plastic Construction

Single, Double, Triple, or Quad

6V, 12V & 24V Lamps in LED, Quartz & Tungsten

The RMSM series of commercial thermoplastic PAR18/MR16 remotes provides the perfect balance of value and performance. The heads are fully adjustable and both tilt and swivel are lockable. The standard canopy is designed to mount directly to typical electrical junction boxes. Available in 6V, 12V and 24V models, utilizing either LED, tungsten or quartz halogen lamps.

### FEATURES AND SPECIFICATIONS

- UV stabilized, high impact thermoplastic, composite head construction
- Fully adjustable - both tilt and swivel
- 5" diameter thermoplastic canopy standard
- Two surface canopy mounting holes designed to match standard electrical junction boxes
- White color is standard, black is optional
- Variety of lamp options:
  - 6VDC, 12VDC or 24VDC
  - Tungsten lamps
  - Quartz halogen lamps
  - LED lamps

**AimLite's LED current technology ensures the lumens output remains constant throughout the battery's discharge whether at 6V, 12V, or 24V applications.**

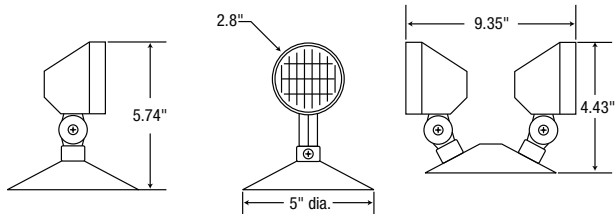
### APPROVAL

- CSA Certified to C22.2 #141-15

### COMPLIANCE

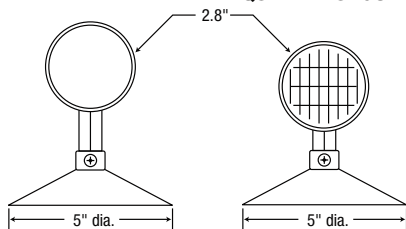
- Meets requirements of ICES-005

### DIMENSIONS



### LED

### QUARTZ TUNGSTEN



Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Catalogue #: \_\_\_\_\_  
 Drawn by: \_\_\_\_\_  
 Date: \_\_\_\_\_



### OVERVIEW

Light source	LED or Incandescent
DC voltage	6VDC, 12VDC, 24VDC

# RMSM

## ORDERING GUIDE - LED

Series	Nbr of heads	Voltage	Wattage	Lamp type	Colour	Options†
RMSM	1 - Single head	06-12V - 6VDC to 12VDC operational	3W - 3 watts	LJ - LED	WHT - White (standard) BLK - Black	LCP, VDR, WGD
	2 - Double head		4W - 4 watts			
	3 - Triple head		5W - 5 watts			
	4 - Quad head (require 12" dia. canopy)	12-24V - 12VDC to 24VDC operational	6W - 6 watts	LA - LED		
			7W - 7 watts	LR - LED		
		24V - 24VDC	4W - 4 watts	LA - LED		
			5W - 5 watts	LA - LED		

† For detailed options descriptions, please consult the options page.

**QUICK SHIP:** Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

## PHOTOMETRY PERFORMANCE

LED	Lumen output	lm/W	CCT	Beam angle
3W LJ	313	104lm/W	5000	20°
4W LJ	330	82lm/W	5000	20°
5W LJ	591	118lm/W	5000	28°
4W LR	320	80lm/W	5000	24°
5W LA	438	87lm/W	5000	24°
6W LA	505	84lm/W	5000	24°
7W LA	631	90lm/W	5000	24°

## SPACING GUIDE

Mounting height	Spacing centre to centre (feet)						
	3WLJ	4WLJ	5WLJ	4WLR	5WLA	6WLA	7WLA
7 ft	78	83	97.5	76	95	108	126
10 ft	75	76	92.5	74	88	98	116
15 ft	66	68	82.5	60	76	85	102
20 ft	58	61	75	51	66	75	90

## Comments

# RMSM

## ORDERING GUIDE - INCANDESCENT

RMSM [ ] — [ ] [ ] [ ] / [ ]

Series	Nbr of heads	Voltage	Lamp	Colour	Options†
RMSM	1 - Single head 2 - Double head 3 - Triple head 4 - Quad head (require 12" dia. canopy)	06V - 6VDC 12V - 12VDC 24V - 24VDC	See lamp selection chart below	WHT - White (standard) BLK - Black	LCP, WGD

† For detailed options descriptions, please consult the options page.

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## LAMP SELECTION - INCANDESCENT

PAR18 • Small head			
	6 volts	12 volts	24 volts
Quartz halogen	08WQ, 10WQ, 12WQ	10WQ, 12WQ	12WQ
Tungsten	09WT	9WT, 18WT	9WT, 18WT

## Comments

All products are subject to change or may be discontinued any time without notice.

# RMSM

## PAR18/MR16 mini remote

Plastic Construction  
Single, Double, Triple, or Quad  
6V, 12V & 24V Lamps in LED, Quartz & Tungsten

The RMSM series of commercial thermoplastic PAR18/MR16 remotes provides the perfect balance of value and performance. The heads are fully adjustable and both tilt and swivel are lockable. The standard canopy is designed to mount directly to typical electrical junction boxes. Available in 6V, 12V and 24V models, utilizing either LED, tungsten or quartz halogen lamps.

### FEATURES AND SPECIFICATIONS

- UV stabilized, high impact thermoplastic, composite head construction
- Fully adjustable - both tilt and swivel
- 5" diameter thermoplastic canopy standard
- Two surface canopy mounting holes designed to match standard electrical junction boxes
- White color is standard, black is optional
- Variety of lamp options:
  - 6VDC, 12VDC or 24VDC
  - Tungsten lamps
  - Quartz halogen lamps
  - LED lamps

**AimLite's LED current technology ensures the lumens output remains constant throughout the battery's discharge whether at 6V, 12V, or 24V applications.**

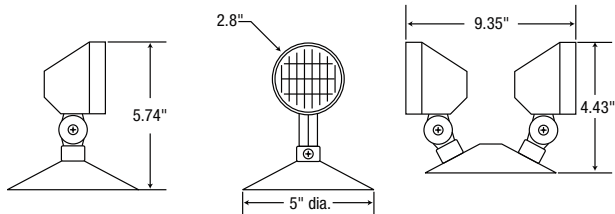
### APPROVAL

- CSA Certified to C22.2 #141-15

### COMPLIANCE

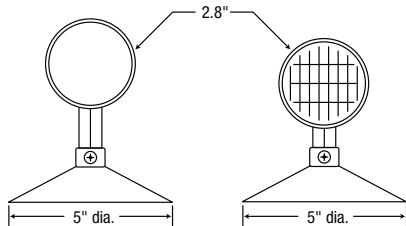
- Meets requirements of ICES-005

### DIMENSIONS



### LED

### QUARTZ TUNGSTEN



Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
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 Drawn by: \_\_\_\_\_  
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### OVERVIEW

Light source	LED or Incandescent
DC voltage	6VDC, 12VDC, 24VDC

# RMSM

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			7W - 7 watts	LR - LED		
	24V - 24VDC		4W - 4 watts	LA - LED		
			5W - 5 watts	LA - LED		

† For detailed options descriptions, please consult the options page.

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15 ft	66	68	82.5	60	76	85	102
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## Comments



# RMSM III

## ORDERING GUIDE - INCANDESCENT

RMSM [ ] — [ ] [ ] [ ] / [ ]

Series	Nbr of heads	Voltage	Lamp	Colour	Options†
RMSM	1 - Single head 2 - Double head 3 - Triple head 4 - Quad head (require 12" dia. canopy)	06V - 6VDC 12V - 12VDC 24V - 24VDC	See lamp selection chart below	WHT - White (standard) BLK - Black	LCP, WGD

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## LAMP SELECTION - INCANDESCENT

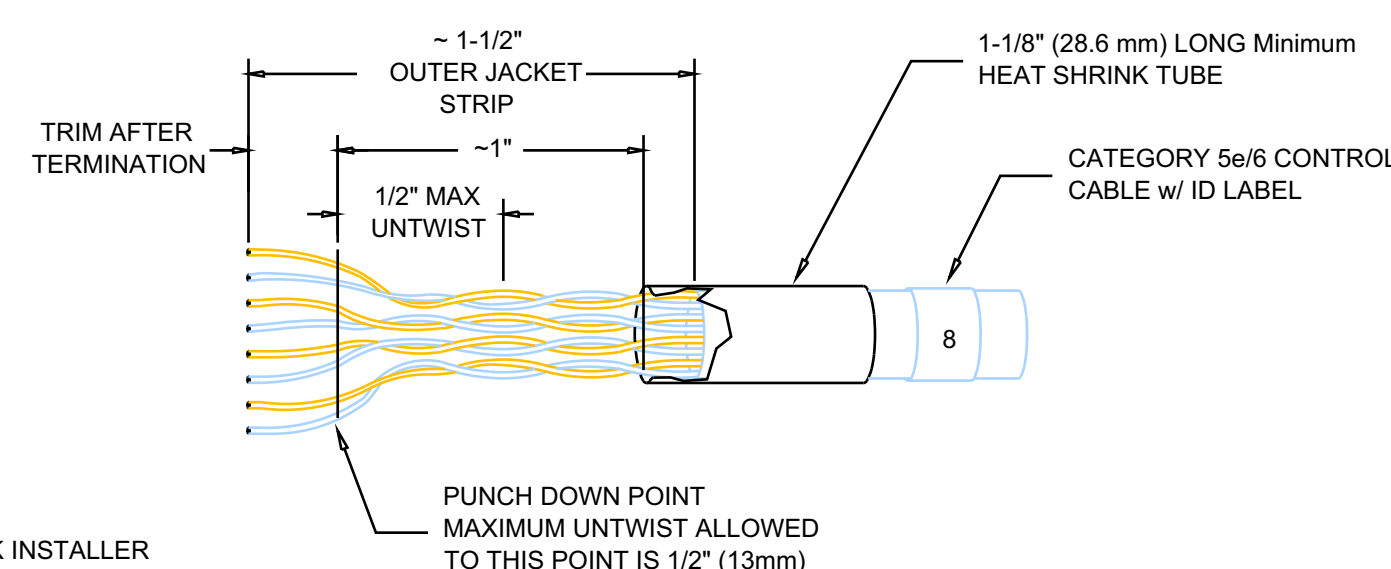
PAR18 • Small head			
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TIA / EIA-568-B CABLING STANDARD TERMINATION

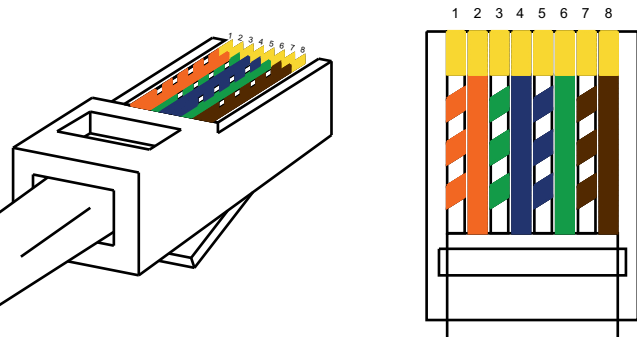
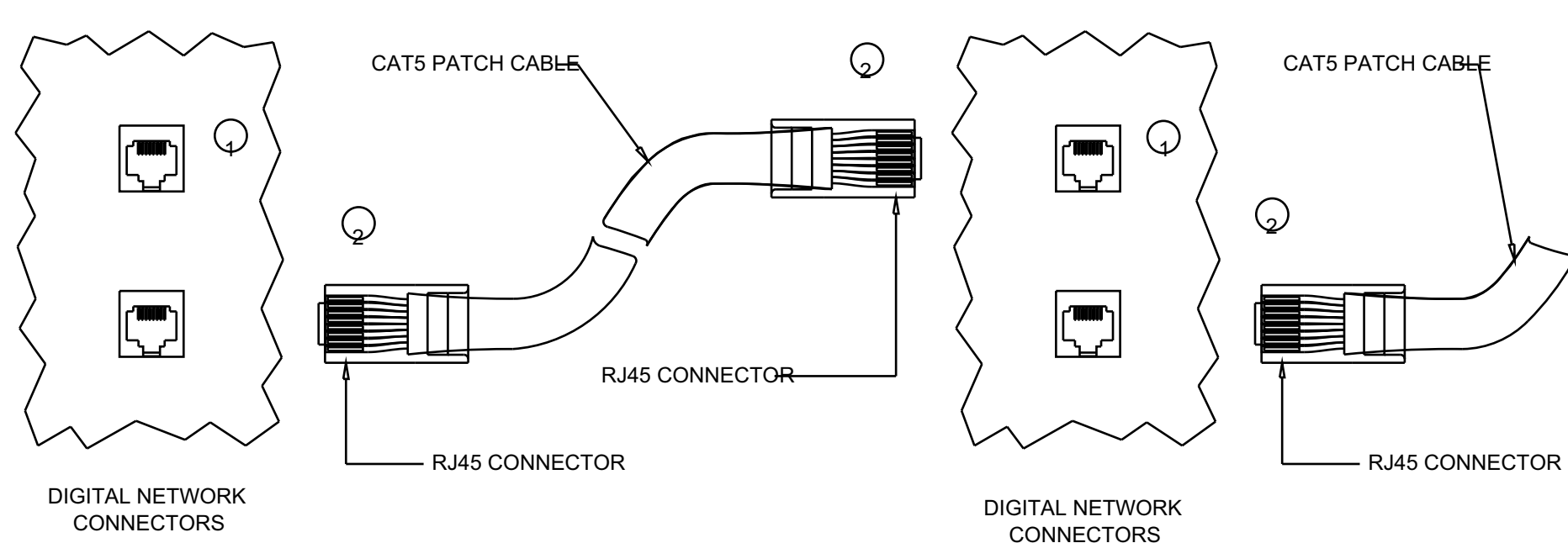
Function	PAIR #	PN OUT (568B)	Wire Color
(T1)	1	5	WHITE w/ BLUE
(R1)	4	4	BLUE
Tx + (T2)	1	1	WHITE w/ ORANGE
Tx - (R2)	2	2	ORANGE
Rx + (T3)	3	3	WHITE w/ GREEN
Rx - (R3)	6	6	GREEN
(T4)	4	7	WHITE w/ BROWN
(R4)	8	8	BROWN



TERMINATION & TESTING OF CAT5 CABLES MUST BE DONE BY A QUALIFIED NETWORK INSTALLER

- Cable termination requirements:
- Strip off outer jacket - approximately 1-1/2" (37.6 mm)
  - Fit a piece of 1-1/8" (28.6 mm) long heat shrink tube over the cable extending out 1/4" (6.25 mm) from outer jacket
  - Terminate approximately 1/2" (12.2 mm) from end of conductors on type 110 punch down block or connector per schedule (568B) - maximum untwist of conductors to terminations is 1/2" (12.2 mm) - trim excess leads
  - Shrink tubing and add appropriate id label to the cable at the end of the heat shrink tube

SEE SYSTEM SPECIFIC NOTES ON SHEET LC0.1 FOR MAXIMUM CABLE LENGTHS.

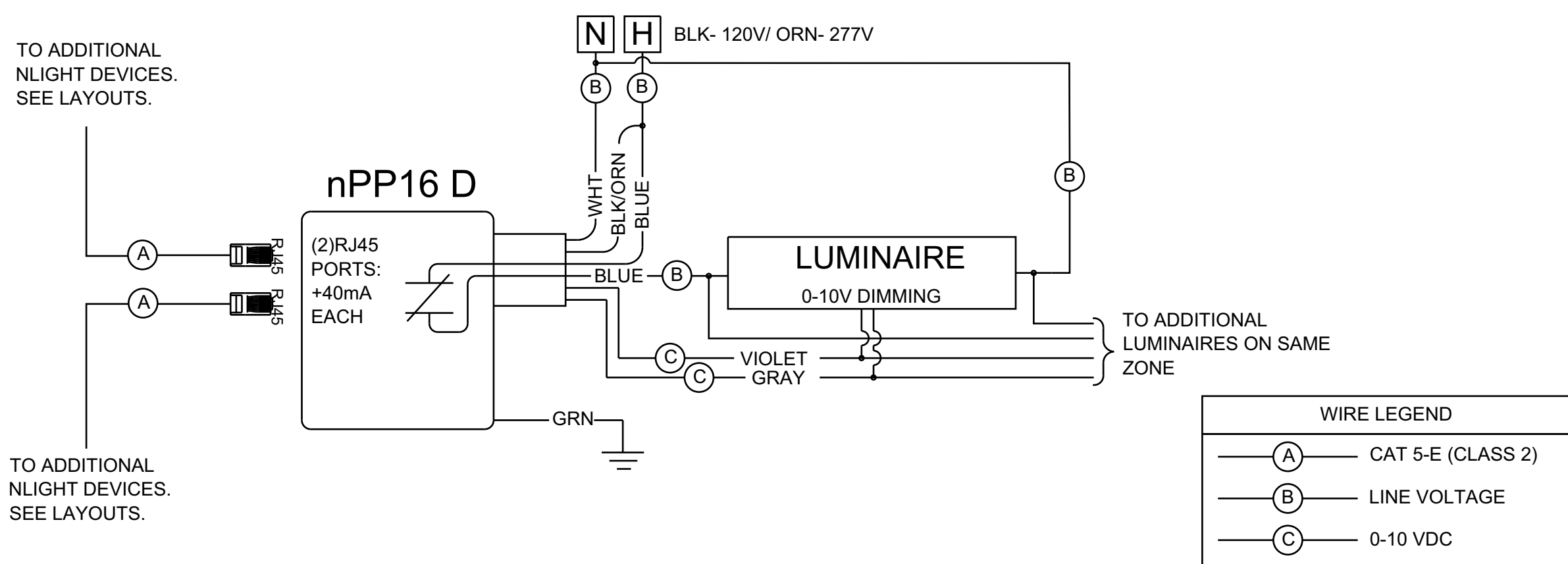


Notes:  
Daisy-chain CAT5 patch cable with RJ45 connectors from digital device to digital device.  
Refer to manufacturers instructions for long distance runs between digital devices.  
Crimp and test each cable with a LAN circuit tester prior to installation.

- ① RJ45 FEMALE CONNECTOR
- ② RJ45 MALE CONNECTORS: ALL CABLES SUPPLIED BY CONTRACTOR.

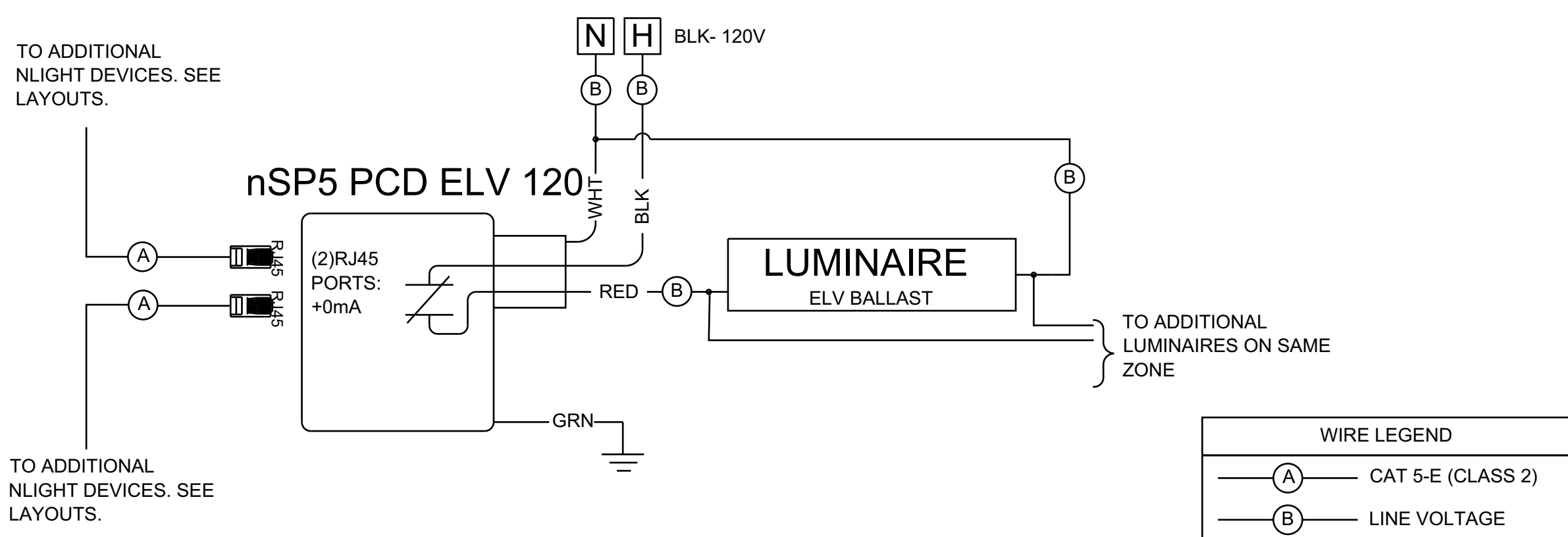
CAT5E/6 CABLE TERMINATION

N.T.S.



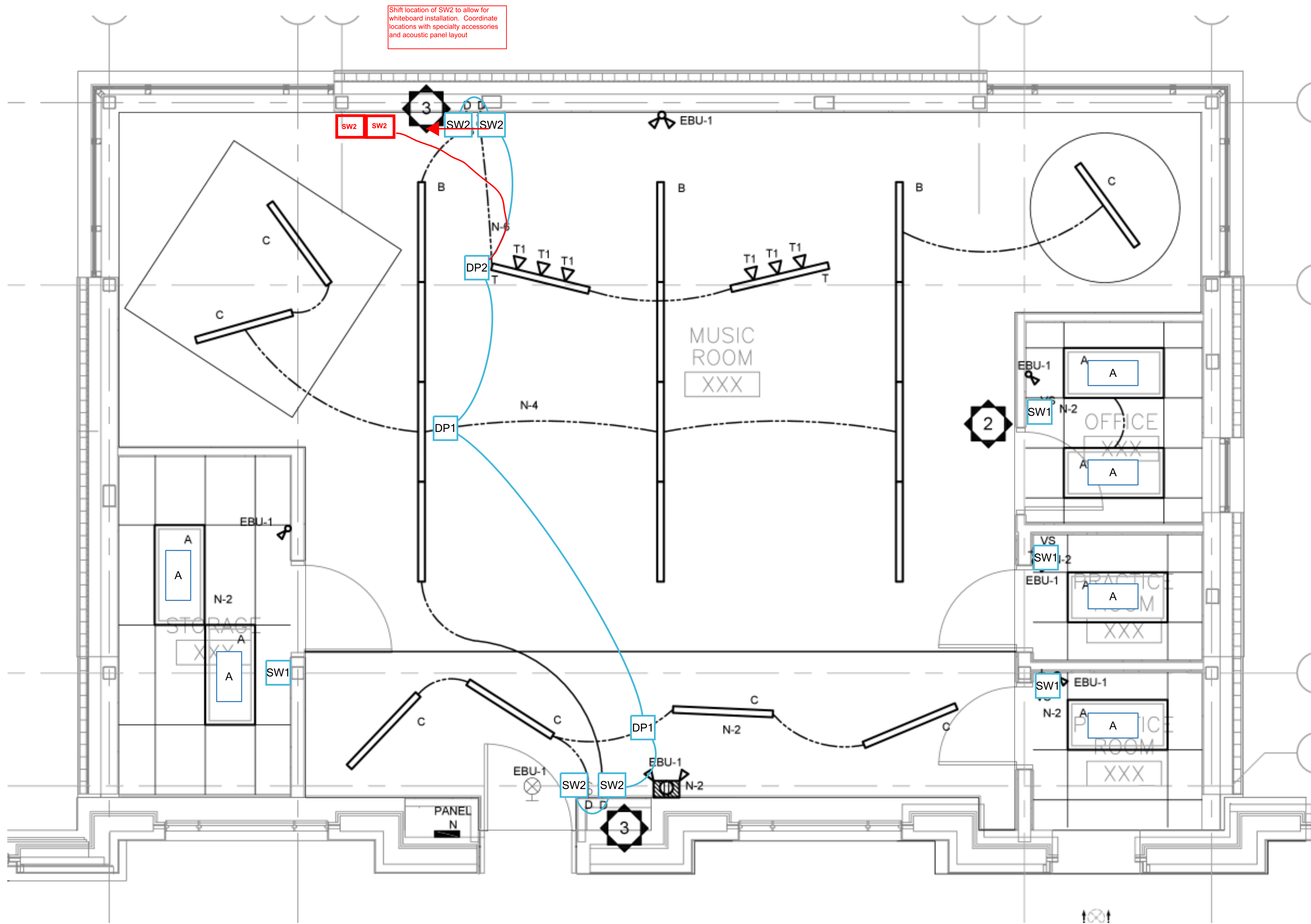
TYPICAL WIRING DIAGRAM: NPP16 D

N.T.S.

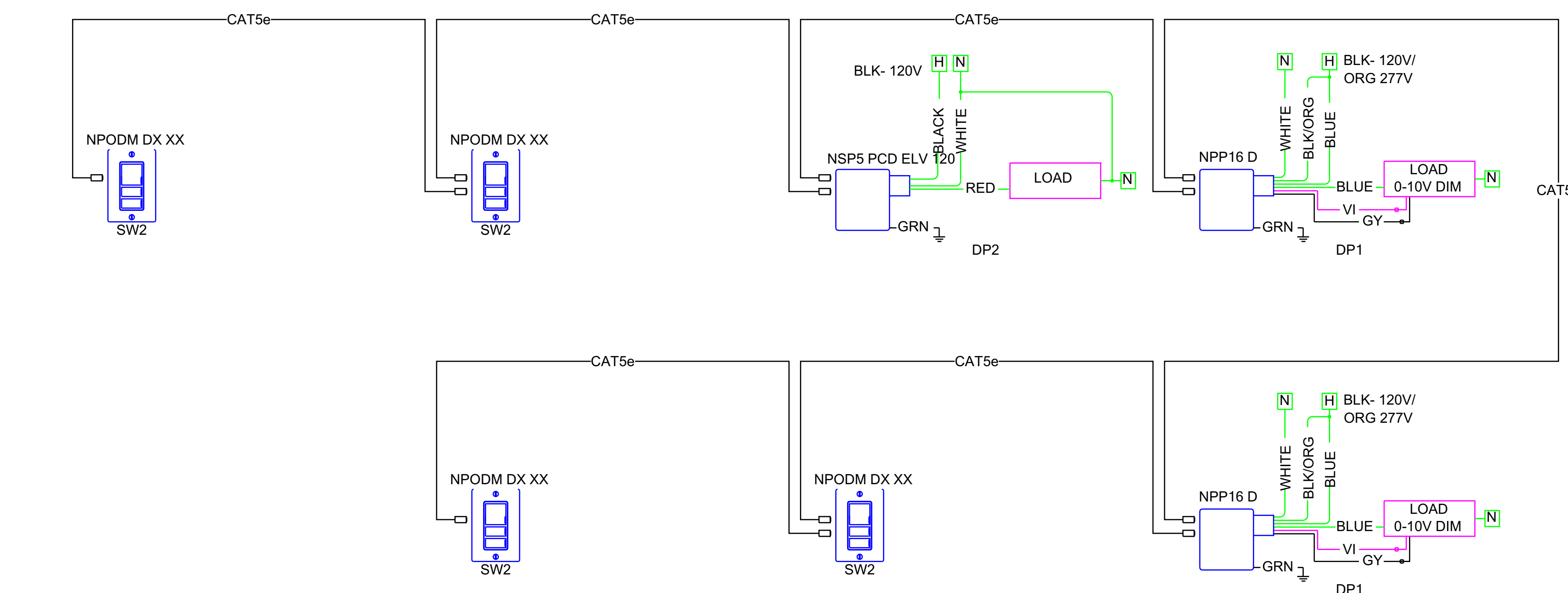


TYPICAL WIRING DIAGRAM: NSP5 PCD ELV 120

N.T.S.



Design 1  
1/4" = 1'



Design 1 - MUSIC ROOM  
NOT TO SCALE



Created on 08/03/2018 by James Gillis  
Design 1  
Project: TURNBULL SCHOOL MUSIC ROOM ADDITION

6	A	nLight Air Enabled BLT
2	DP1	nPP16 D PowerRelay Pack, Occupancy Controlled Dimming
1	DP2	nSP5 PCD ELV 120 Secondary Relay Pack, Phase Control Dimming, Electronic Low Voltage, 120 VAC
4	SW1	nPODB DX XX Networked wireless, battery powered wall switch for nLight Air, Raise/Lower Dimming Without Wires
4	SW2	nPODM DX XX Low Voltage Push-Button Wallpod, Raise/Lower Dimming Without Wires

SHOP DRAWING REVIEW  
REVIEWED  
REVIEWED AS NOTED  
REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not constitute a review of the design or engineering elements which form part of the Contract Documents prepared by the contractor. The contractor is responsible for the design and construction of the work shown in this shop drawing. The contractor shall remain responsible for the design and construction of the work shown in this shop drawing. The contractor shall remain responsible for the design and construction of the work shown in this shop drawing. The contractor shall remain responsible for the design and construction of the work shown in this shop drawing."

By: Michelle Cataldo Date: Feb. 14, 2019  
HOBIN ARCHITECTURE INCORPORATED

REVIEWED	BY	DATE
<input checked="" type="checkbox"/>	BY: [Signature]	DATE: 01/30/19
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THE REVIEW OF THIS DRAWING DOES NOT IN ANY WAY RELIEVE THE VENDOR OR CONTRACTOR OF RESPONSIBILITY FOR ITS ACCURACY OR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.