

## R1 LA Series

### LP14-D

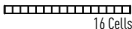
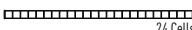
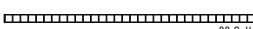

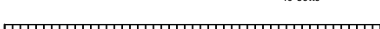


Pendant

**DIRECT**  
Light Distribution

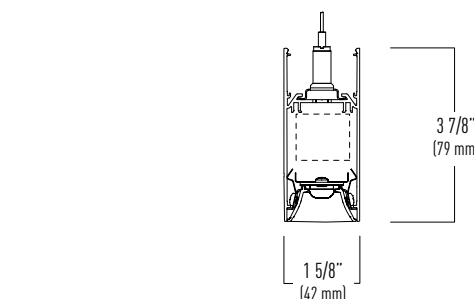

The LA Series is a low profile linear lighting system outfitted with precision discrete LED optics. The optical system is designed to focus direct light into specific areas of a space creating dramatic contrast without introducing high angle glare with it's baffle design.

- *Extruded aluminum housing and die cast aluminum end caps*
- *Discrete optical system offers three beam patterns: 35°, 50°, 80°*
- *Configure into linear rows, complex patterns and individual geometric shapes*
- *Tool free installation with engineered spring latch design*
- *Intelligent wireless technology inside from premier connected lighting partners*
- *Available in 3 standard paint finishes and an array of wood grain finishes*

#### Standard Individual Fixture Lengths\*

2' (609 mm)	
3' (914 mm)	
4' (1219 mm)	
5' (1524 mm)	
6' (1828 mm)	
7' (2133 mm)	
8' (2438 mm)	

\* Dimensions represent fixture body length, add 1/4" for overall fixture dimension that includes both end caps



#### ORDERING INFORMATION / Example: LP14-D-35W-05-L35-U-D-11-EW-T1-B-048-8-WLX

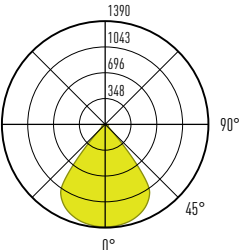
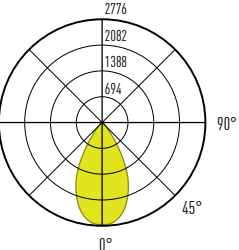
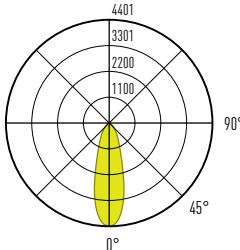
LP14-D						
SERIES	DIRECT OPTICS	LUMENS / DOWN <sup>1</sup>	CRI/ CCT <sup>2</sup>	VOLTAGE	DRIVER	CIRCUITING / EMERGENCY OPTIONS <sup>3</sup>
LP14-D- Pendant Linear LED Luminaire System.	35B-35° spot black baffle 35W-35° spot white baffle 50B-50° flood black baffle 50W-50° flood black baffle 80B-80° wide flood black baffle 80W-80° wide flood white baffle	03 - 300 lm/ft 05 - 500 lm/ft 08 - 800 lm/ft	H30 - 90 CRI, 3000K H35 - 90 CRI, 3500K H40 <sup>4</sup> - 90 CRI, 4000K	U - Universal 1 - 120V 2 - 277V	<b>Dimming 0-10V</b> D - Dim to 1% (Standard) D0 - Dim to 1%, Fade to Off D02 - Eldoled Solodrive, Dim to 0% LUTRON - See options on page 2 <b>DALI Dimming</b> ELE - Eldoled Ecodrive, Dim to 1% ELS - Eldoled Solodrive, Dim to 0%	<b>Qty of Power Circuits</b> 1 - 1 Circuit 2 - 2 Circuits <b>Qty of Control Circuits</b> 1 - 1 Circuit 2 - 2 Circuits <b>Options</b> B6 - 6 Watt Battery Pack B10 - 10 Watt Battery Pack CEC - CEC Compliant (10 Watt Battery Pack) GTD - Generator Transfer Device (120V or 277V) EM - Dedicated Emergency Circuit

FIXTURE FINISH	MOUNTING		LINEAR ROWS	INDIVIDUAL SHAPES <sup>3</sup>	OPTIONS
WH - White Painted Finish SV - Silver Painted Finish BK - Black Painted Finish CC - Custom Color AG - Two Tone Ash Gray Wood Grain BG - Light Black Gunstoack Wood Grain EW - Ebony Walnut Wood Grain ST - Delicate Straight Wood Grain	<b>Ceiling Type</b> T1 - Aircraft Cable to 1" Grid T9 - Aircraft Cable to 9/16" Grid TS - Aircraft Cable to Slotted Grid SR - Aircraft Cable to Structure <b>Mounting Hardware Finish</b> W - White Canopies and Cord B - Black Canopies and Cord <b>Suspension Length</b> 048 - 48" Adjustable Aircraft Cable 120 - 120" Adjustable Aircraft Cable 240 - 240" Adjustable Aircraft Cable		2 - 24" 3 - 36" 4 - 48" 5 - 60" 6 - 72" 7 - 84" 8 - 96" XX - Specify continuous run lengths in 1" increments	SQ6-6' Square SQ5-5' Square SQ4-4' Square SQ3-3' Square TR6-6' Triangle TR5-5' Triangle TR4-4' Triangle TR3-3' Triangle Y3-3' Leg Y-Shape Y2-2' Leg Y-Shape X3-3' Leg X-Shape X2-2' Leg X-Shape	DG - Dust Guard WLX - Wavelinx (Copper Lighting Solutions) integral sensor NX - NX (Hubbel) integral sensor NLT - nLight (Acuity Brands) integral sensor LV - Vive (Lutron) integral sensor ENL - Enlighted integral sensor

#### NOTES:

- Nominal lumen output for 3500K, 80 CRI
- Battery pack and emergency circuit requires a minimum fixture length of 4'
- Refer to page 5 for drawings and details related to individual geometric fixture shapes

## PHOTOMETRICS

Report #: ITL94686 3500K / 80 CRI 500 lumens per ft 80° optic / White Baffle				Report #: ITL94685 3500K / 80 CRI 500 lumens per ft 50° optic / White Baffle				Report #: ITL94684 3500K / 80 CRI 500 lumens per ft 35° optic / White Baffle					
													
Light Level	Lumens per ft	Watts per ft	Lumens per watt	Lumens per ft	Watts per ft	Lumens per watt	Lumens per ft	Watts per ft	Lumens per watt	Lumens per ft	Watts per ft	Lumens per watt	
03	300	2.52	119	300	2.50	120	300	2.56	117				
05	500	4.05	124	500	4.02	124	500	4.12	121				
08	800	6.72	119	800	6.67	120	800	6.84	117				
Max luminance* 28186 cd/m <sup>2</sup>				Max luminance 2149 cd/m <sup>2</sup>				Max luminance 13313 cd/m <sup>2</sup>					
Max UGR*: 15.5				Max UGR: 7.0				Max UGR: 13.9					

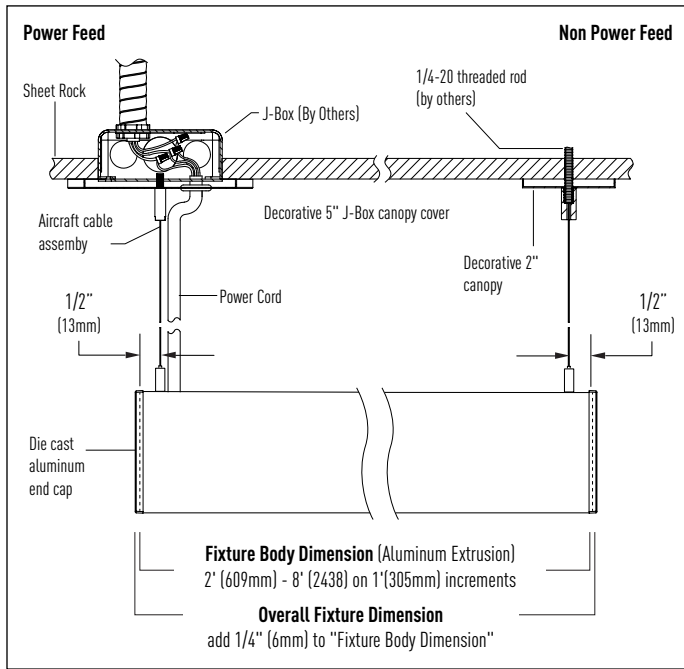
\*UGR and luminance values are from light level (08) 800 lumens per ft

## DRIVER INFORMATION

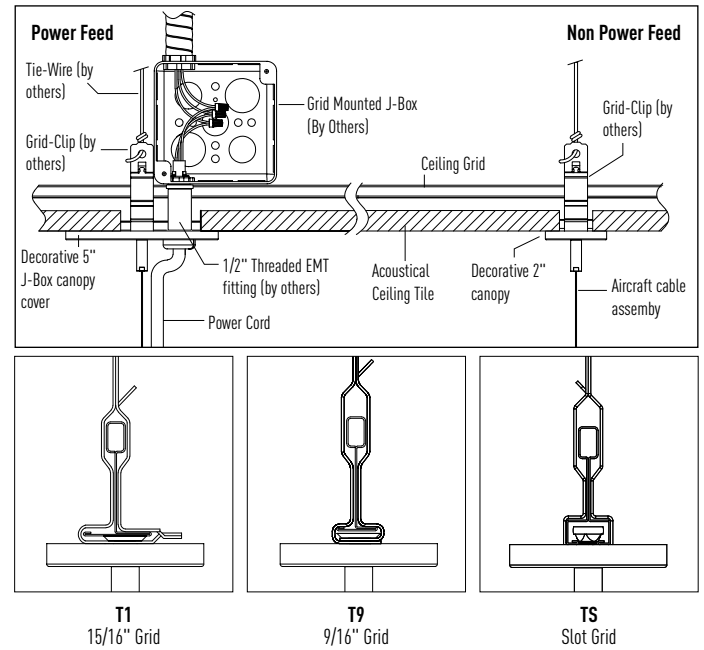
NULITE CAT#	DRIVER MANUFACTURER / SERIES	DIMMING / CONTROL PROTOCOL	DIM RANGE	NOTES/ DESCRIPTION
D	Signify Xitanium, Osram OTI	0-10v	100% - 1%	Standard Nulite driver, base fixture price
D0	Signify Xitanium, Osram OTI	0-10v	100% - 1% (Steps from 1% to 0% or OFF)	Standard Nulite driver, base fixture price
D02	Eldoled Solodrive	0-10v	100% - 0%	Logarithmic Dimming Curve
L11	Lutron Hi-Lume Premier (PEQ0E) Max lumen package 03	0-10v	100% - 0.1%	Hi-Lume Premier 0.1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
L15	Lutron Hi-Lume Series (LDE1)	0-10v	100% - 1%	Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
ELE	Eldoled Ecodrive	DALI	100% - 1%	Logarithmic Dimming Curve
ELS	Eldoled Solodrive	DALI	100% - 0%	Logarithmic Dimming Curve

## CEILING MOUNTING DETAILS

### Inaccessible Ceilings (Sheet Rock Typical)

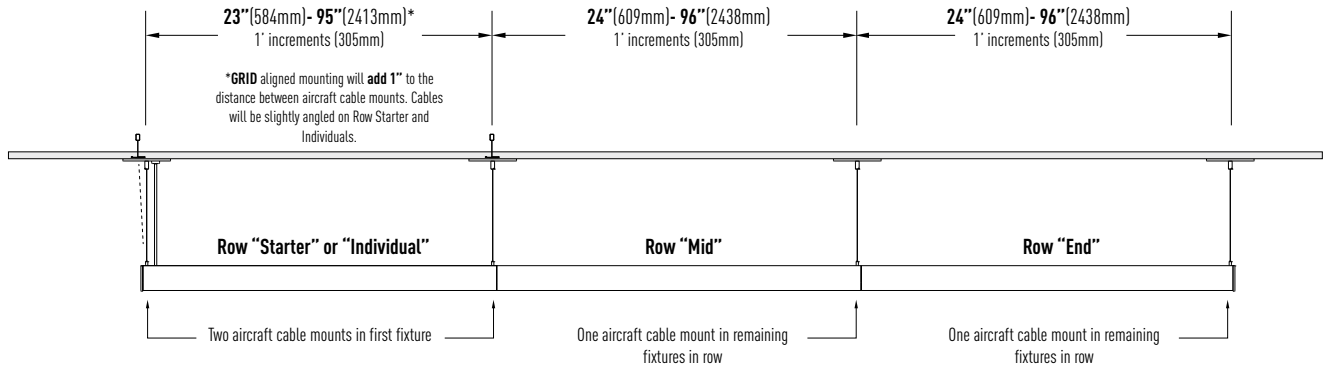


### Acoustical Tile Grid Ceilings

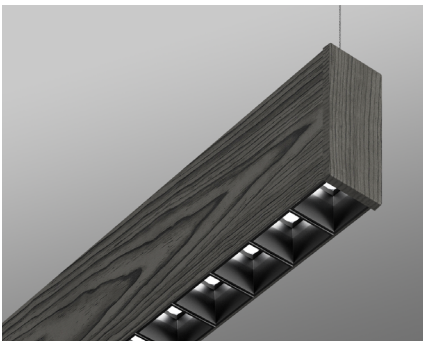


## ROW LAYOUT DETAILS

### REFERENCE DIMENSIONS FOR AIRCRAFT CABLE FIXTURE SUSPENSION MOUNTS



## WOOD GRAIN FINISH



The LA Series is available in four standard wood grain (hydro-dipped) finishes to create visually stunning lighting installations. This option carries an upcharge and additional lead time, consult your local sales agent for more information.



AG - Two-Tone Ash Gray Wood Grain



EW - Ebony Walnut Wood Grain

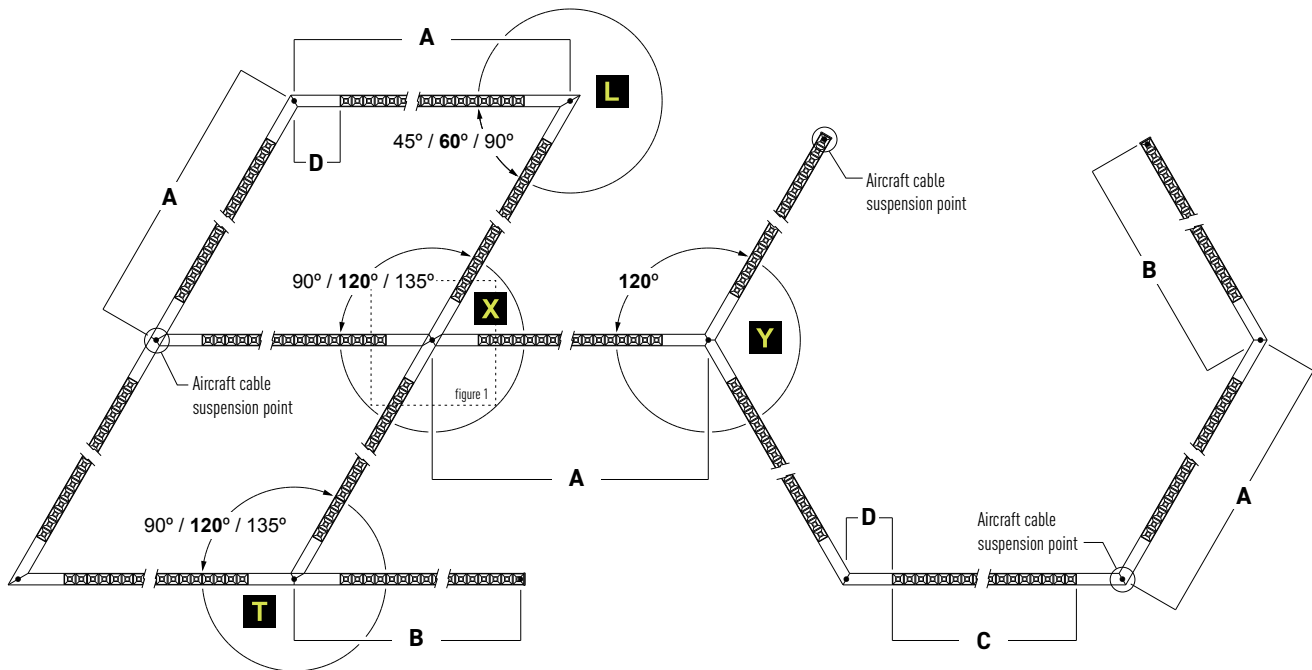
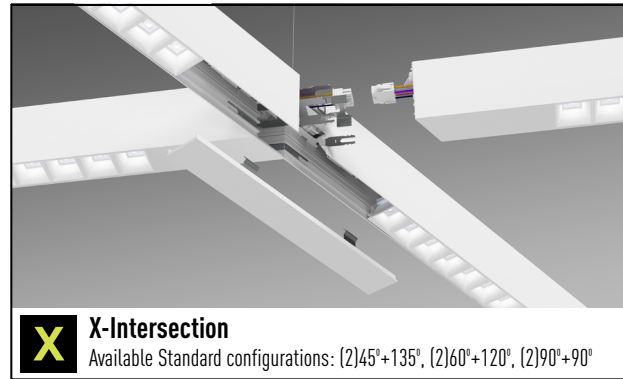
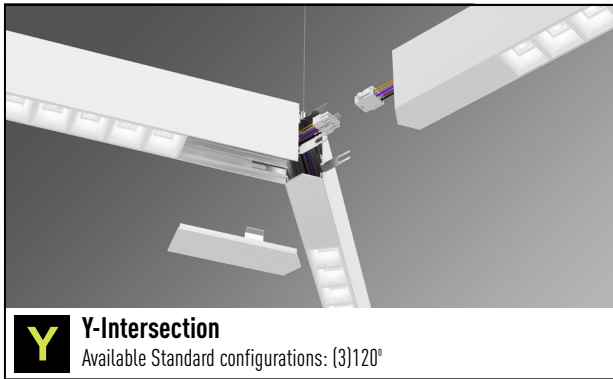
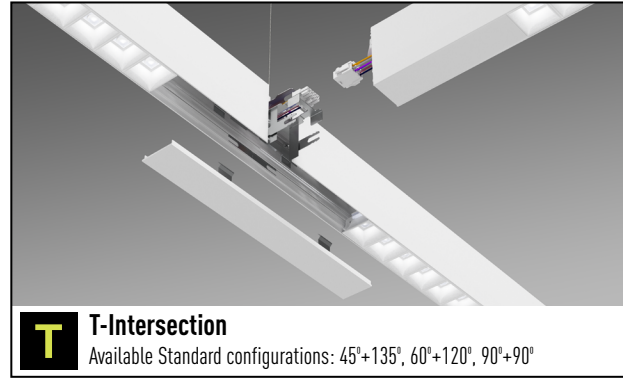
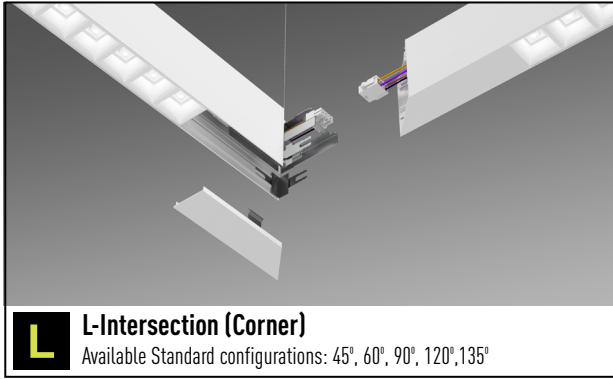


ST - Delicate Straight Wood Grain



BG - Light Black Gunstock Wood Grain

## STANDARD "PATTERN" LAYOUT OPTIONS



Description	Notes
A <b>Linear Section</b> (Intersections on 2 sides)	Specify distance between aircraft cable suspension points in 1' (305mm) increments from 2' (610mm) to essentially any length.
B <b>Linear Section</b> (Intersection on 1 side)	Specify distance between aircraft cable suspension points in 1' (305mm) increments from 2' (610mm) to essentially any length, then subtract 1/2" (13mm)
C <b>Discrete Optic Baffle length</b>	The baffle-optic is only available in 1' (305mm) increments, (8 LED cells per foot)
D <b>Minimum Distance from baffle to mounting point</b>	The LED baffle/optic may not be less than 6" (152mm) from a suspension point. For standard product patterns, the factory will determine appropriate baffle length and this will be detailed in submittal drawings for approval. Consult factory for custom configurations

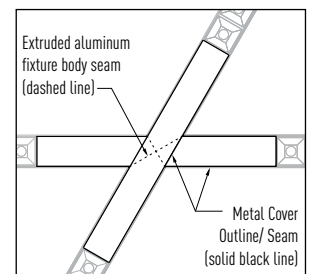


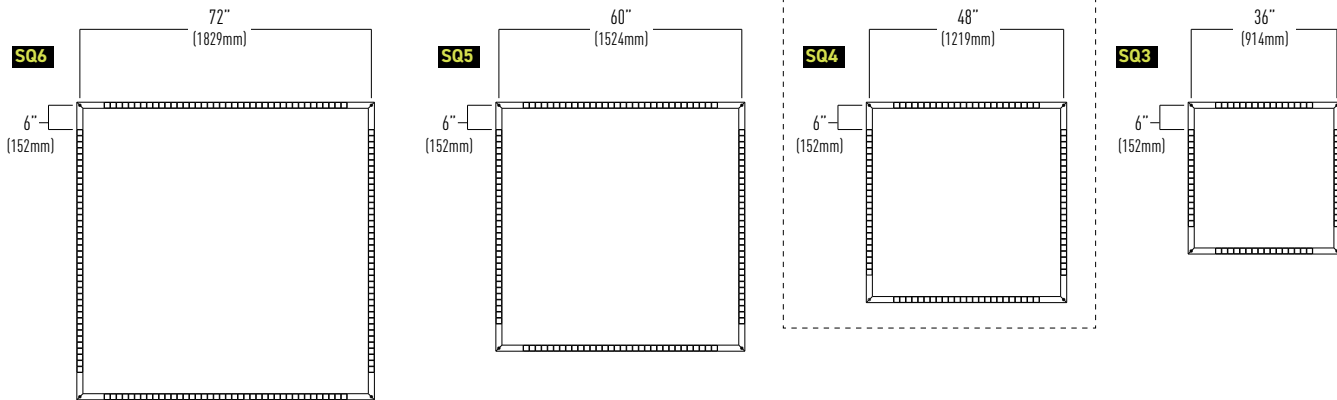
figure1

**STANDARD INDIVIDUAL SHAPES**

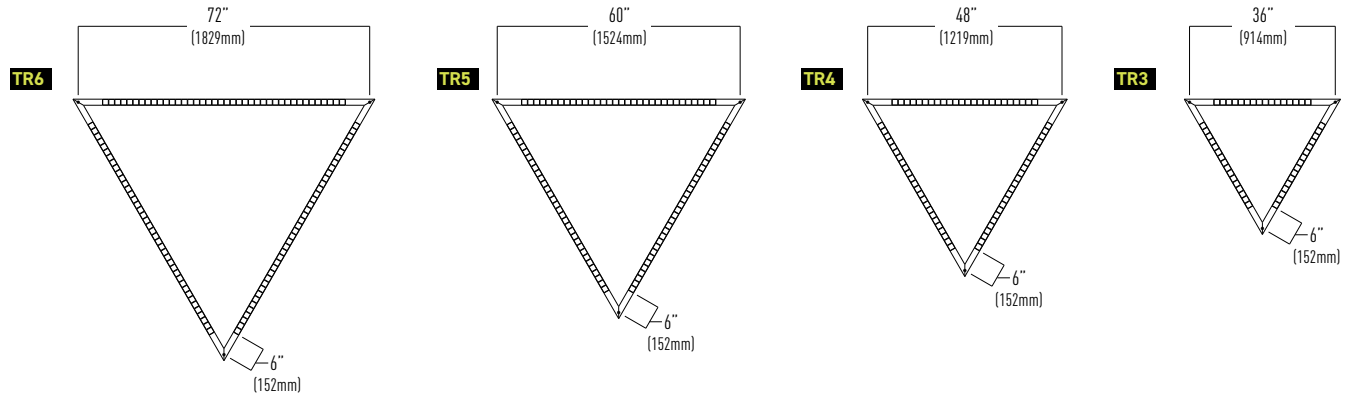
The LA Series is available in an array of individual fixture shapes that ship fully assembled as and individual unit.

**Ordering Example:** LP14-D-35B-05-L40-D-11-WH-T1-W-048-**SQ4**

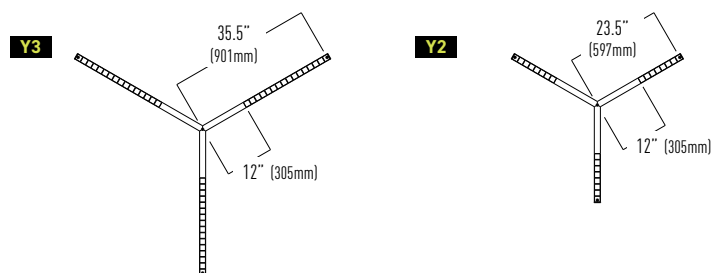
**Squares**



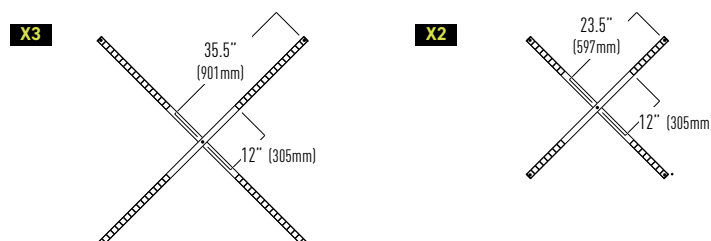
**Triangles**

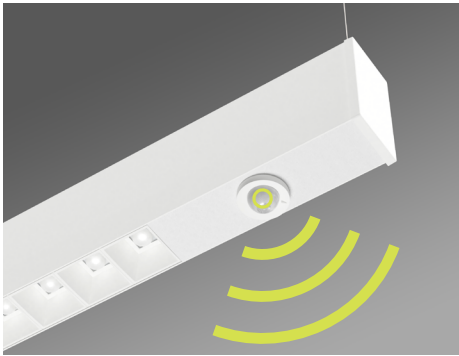


**Y Shape**



**X Shape**





## OEM Connected Lighting Partners

Nulite has formed strategic partnerships with premier OEM suppliers of smart lighting control platforms. Nulite's focus is primarily on embedded fixture level smart sensors and power supplies ensuring system operability and code compliance.

### Benefits of an OEM Supplier

- Factory trained and certified to assemble and test product operability prior to shipment
- Authorized to purchase components, inventory on hand for shorter lead times compared to non-partners
- UL listed as an entire fixture assembly

## Wavelinx (WLX)

Cooper Lighting Solutions

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### Integral Fixture Sensors

Item Description	OEM Part #	0-10v	DALI D	IP rating	Wireless	Daylight	Occupancy	LA Series	Regolo 1	Regolo 2	Regolo 3	Regolo 4	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Qub	Bounce	INT
Wavelinx Ambient Integrated Sensor, 8-15ft (2.4-4.6m)	OEM-WAA	●			●	●	●	●	●	●	●										
Wavelinx Industrial Mount Sensor, White, up to 40ft (4.5 - 12.2m)	OEM-SWPD3-WH	●		●	●	●	●														●
Wavelinx Outdoor Fixture	OEM-SWPD5-WH/ BK/BZ	●	●	●	●	●	●							●							

#### Additional Notes:

- Nulite is OEM certified and authorized to purchase and install Wavelinx components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- **Ordering Example:** Nulite Catalog #: LP13-D-35B-05-03-L35-D-1-1-WH-T1-W-048-8-**WLX (OEM-WAA)**. This catalog designation merely identifies luminaires that require Wavelinx compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with Wavelinx on these items and build into the price accordingly.
- Nulite's standard 0-10v LED drivers are Signify Xitanium Series, and Osram Optotronic Series

## nLight (NL)

Acuity Brands

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### Integral Fixture Sensors

Item Description	OEM Part #	Nulite Compatible Product Lines																					
		0-10v Dimming Control	DALI Dimming Control	0-10v LEDcode*	DALI LEDcode*	IP rated (Outdoor)	Wireless Control	Daylight Harvesting	Occupancy Sensing	LA Series	Regolo 1	Regolo 2	Regolo 4	Regolo 6	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Qub	Bounce	INT
Indoor Embedded 360° Motion Sensor	MSD PDT 7**	●						●	●	●	●	●	●										
Fixture embedded smartsensor	RES7	●		●			●	●	●	●	●	●	●										
Passive infrared occupancy sensor	nES7	●						●	●	●	●	●	●										
Dimming Photocell	nES ADCX	●						●		●	●	●	●										
nLight AIR Outdoor 360° Embedded Motion Sensor	rMSOD	●		●			●	●	●							●							
Fixture embedded smartsensor for challenging environments	rSBG	●		●		●	●	●	●							●							●
nLight AIR Fixture Mount Sensor	rLSXR	●				●	●	●	●														●

#### Additional Notes:

- Nulite is authorized to purchase and install nLight components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- **Ordering Example:** Nulite Catalog #: LP13-D-35B-05-03-L35-D-1-1-WH-T1-W-048-8-**NL (RES7)**. This catalog designation merely identifies luminaires that require NX compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with nLight on these items and build into the price accordingly.
- \*Proprietary Acuity Brands LEDcode drivers are required for nLight system programming and operation.
- \*\*The MSD PDT 7 is Nulite's standard wired integral fixture sensor

## OEM Connected Lighting Partners

### NX (NX)

Distributed Intelligence  
Hubbell

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#### Integral Fixture Sensors

Item Description	OEM Part #	0-10v	DALI ID	IP rated	Wireless	Daylight	Occupancy	LA Series	Regolo 1	Regolo 2	Regolo 4	Regolo 6	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Qub	Bounce	INT
HubbNET Radio Module	NXRM-H	●			●			●	●	●	●	●									
Low Mount Indoor Sensor Module	NXSM-P-LMI	●			●	●	●	●	●	●	●	●									
OMNI Indoor/Outdoor Sensor Module	NXSM-P-OMNI-0	●		●	●	●	●							●							
Slide Mount Indoor Sensor Module	NSXM-P-SMI	●			●	●	●	●	●	●	●	●									
Low Mount Indoor/Outdoor Sensor Module	NXSM-P-LM0	●		●	●	●	●							●							●
Low Mount Indoor/Outdoor Sensor Module, Aisle Lens	NXSM-P-LM0-4	●		●	●	●	●							●							●
High Mount Indoor/Outdoor Sensor Module	NXSM-P-HM0	●		●	●	●	●														●
High Mount Indoor/Outdoor Sensor Module, Aisle Lens	NXSM-P-HM0-4	●		●	●	●	●														●

#### Additional Notes:

- Nulite is an OEM certified nX partner and authorized to purchase and install NX components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- Ordering Example:** Nulite Catalog #: LP13-D-35B-05-03-L35-D-1-1-WH-T1-W-048-8-NX (NXRM-H). This catalog designation merely identifies luminaires that require NX compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with the Hubbell on these items and build into the price accordingly.
- Nulite's standard 0-10v LED drivers are Signify Xitanium Series, and Osram Optotronic Series

### Enlighted (Enl)

A Siemens Company

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#### Integral Fixture Sensors

Item Description	OEM Part #	Integral Sensor Options																			
		0-10v	DALI D	IP rated	Wireless	Daylight	Occupancy	LA Series	Regolo 1	Regolo 2	Regolo 4	Regolo 6	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Qub	Bounce	INT
MicroSensor, 2-wire Adaptor	KIT-SU-5E-D-*		●		●	●	●	●	●	●	●	●									
High Bay Sensor, 2-wire	SU-5S-2W-H-*		●		●	●	●														●
Ruggedized High Bay, 2-wire, White	SU-5S-2W-HRW-*		●	●	●	●	●														●
Ruggedized Low Bay, 2-wire, White	SU-5S-2W-LRW-*		●	●	●	●	●							●							

#### Additional Notes:

- Nulite is OEM certified and authorized to purchase and install Enlighted components into their luminaires. All products are fully tested at the factory and each product ships with UL compliance.
- Ordering Example:** Nulite Catalog #: LP13-D-35B-05-03-L35-D-1-1-WH-T1-W-048-8-ENL(KIT-SU-5E-D-\*). This catalog designation merely identifies luminaires that require Enlighted compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with the Enlighted on these items and build into the price accordingly.
- Standard eldoLED Solodrive DALI drivers with integral power supply will be supplied with Enlighted enabled luminaires

### Vive (LV)

Lutron

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#### Integral Fixture Sensors

Item Description	OEM Part #	Integral Sensor Options																			
		0-10v	DALI Dimming Control	IP rated (Outdoor)	Wireless Control	Daylight Harvesting	Occupancy Sensing	LA Series	Regolo 1	Regolo 2	Regolo 4	Regolo 6	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Qub	Bounce	INT
Vive Integral Fixture Control with Sensor	DFCSJ-OEM-OCC		●		●	●	●	●	●	●	●	●									
Vive Integral Fixture Control (RF only)	DFCSJ-OEM-RF		●		●			●	●	●	●	●									

#### Additional Notes:

- Nulite is OEM certified and authorized to purchase and install Lutron components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- Ordering Example:** Nulite Catalog #: LP13-D-35B-05-03-L35-D-1-1-WH-T1-W-048-8-LV(DFCSJ-OEM-OCC). This catalog designation merely identifies luminaires that require Lutron compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with the Lutron on these items and build into the price accordingly.
- Standard eldoLED Solodrive DALI drivers with integral power supply will be supplied with Enlighted enabled luminaires
- Recommended drivers for DFCSJ-OEM-OCC: Lutron Ecosystem, Osram Dexal DALI drivers, or Signify Xitanium DALI drivers



## PRODUCT SPECIFICATIONS AND INFORMATION

### HOUSING CONSTRUCTION

Fixture body is constructed of powder coat painted extruded aluminum and formed sheet metal steel end plates. Captive joining mechanism is a combination die formed sheet metal and zinc plated spring steel. All hardware is stainless steel.

### LED DISCRETE OPTICAL ASSEMBLY

Replaceable one-piece optical assembly is comprised of an LED PCBA having high power LEDs coupled to clear acrylic TIR optics (35°, 50° or 80° beam patterns) and injection molded plastic baffle assembly available in black or white. Square optical light cells are 1.5" x 1.5". The sheet metal optical assembly is connected to power via quick wire disconnects. Max length of optical assembly is 4' and minimum length is 1'. Available CCT's are 3000K, 3500K, and 4000K. Also available CRI's are 80 or 90.

### STANDARD DIMMING LED DRIVERS

Standard constant current integral electronic 0-10v dimming input. Two standard driver options are available. Option **D** dims to 1% and option **DO** dims to 0% or OFF (the final 1 percent is a "step"). Both options are the same price and representative of the base fixture price. Options **D** and **DO** ship with 5 wires (Line Voltage- Black and White wires, Low Voltage- Purple and Pink wires, Ground- Green wire)

### DALI DRIVERS

Standard constant current DALI drivers available in either a dim to 1% (**ELE**) or dim to 0% (**ELS**). DALI fixtures ship with 5 wires (Line Voltage- Black and White wires, Low Voltage- Purple and Pink wires, Ground- Green wire)

### LIGHT OUTPUT

Standard factory programmed light outputs are available in **(03)** 300 lumens per foot, **(05)** 500 lumens per foot, and **(08)** 800 lumens per foot. Light outputs are nominal refer to .ies file at [www.nulite-lighting.com](http://www.nulite-lighting.com) for detailed lumen output and energy consumption data.

### CIRCUITING

Each luminaire may have up to 2 line voltage (Power) circuits and 2 low voltage (control) circuits. Two power circuits are required for independent control of uplight and downlight in bi-direct luminaires, and low voltage control circuits are for independent dimming of each circuit.

#### Examples:

- **"1-1"**- 1 power circuit (Line Voltage) and 1 control circuit (Low Voltage) > 5 wires total (1 Black Wire "Hot", 1 White Wire "Neutral", 1 Green Wire "Ground", and 2 low voltage control wires, 1 Pink wire and 1 purple wire)
- **"2-2"**- 2 power circuits (Line Voltage) and 1 control circuit (Low Voltage) > 9 wires total (2 Black Wires "Hot", 2 White Wires "Neutral", 1 Green Wire "Ground", and 4 low voltage control wires, 2 Pink wires and 2 purple wires)

### BATTERY PACKS

Recyclable Ni-Cad battery pack, battery run time is 90 minutes. Recharge time of 24 hours. 6W or 10W battery packs are available. To calculate Battery Lumen Output, multiply luminaire efficacy by battery wattage. (example: 120 lms/watt **(120) x B10 Battery Wattage (10) = 1200** lumens of egress illumination for 90 minutes.) Battery option not available in fixtures less than 4', and other limitations apply, consult factory. Entire "direct" fixture housing is energized by battery for lengths up to 5'. Half of direct fixture is energized by battery for 6' - 8' housing lengths. Emergency or night light circuit available (requires additional power circuit). Battery fixtures ship with an additional orange "constant hot" wire.

### LUMEN MAINTENANCE

90% of initial light output (L90) at 100,000+ hours, 70% of initial light output (L70) at 200,000+ hours.

### GENERATOR TRANSFER DEVICES

The GTD emergency lighting control device senses the loss of normal power and switches the AC driver input power connection to an unswitched, generator (or central inverter) supplied lighting circuit. GTD fixtures ship with 3 additional wires (orange wire "constant hot", black-red wire "generator hot", white-red wire "generator neutral").

### FIXTURE FINISHES

Standard finish is powder coat painted white (**W**), black (**B**) or silver (**S**). Consult factory for custom (**CC**) RAL colors price and availability. Fixture is also available in an array of hydro-dipped wood grain finishes. Additional price and set-up charges apply and lead time may be longer, consult factory.

### INSTALLATION AND MOUNTING

The LP14D is designed to be pendant mounted by aircraft suspension cable in individual, continuous row and complex pattern configurations. LP14D may be specified to mount to acoustical grid, sheet rock, and structural ceiling surfaces. Refer to installation instructions at [www.nulite-lighting.com](http://www.nulite-lighting.com) for details.

### FIXTURE LENGTHS - LINEAR ROWS

Standard fixture lengths for individual or continuous row mounting are available in exact 1'(305mm) increments from 2' (610mm) to 8' (2438mm). Consult factory for custom lengths, limitations apply.

### STANDARD PATTERN LAYOUTS

The LA series may be configured into geometric patterns. Mitered housings may be configured into corners, X-intersections, T-Intersections and 120 degree "Y" patterns. Standard mitered angles of 45°, 60°, 90°, 120°, and 135° can be utilized to create an unlimited array of designs and layouts. Consult factory for custom angles. The submittal drawing (shop drawing) furnished by Nulite will adequately detail these configurations and sign-off is required to initiate production.

### WARRANTY

5-year limited warranty on LED and driver from date of shipment. Refer to the full warranty details on [www.nulite-lighting.com/products/184](http://www.nulite-lighting.com/products/184).

### WEIGHT

Fixtures are 1.5 lbs/ft, Driver box weights vary, consult factory.

### APPROVALS

ETL listed, conforms to UL Standard 1598 / 8750 and CSA Standard C22.2, indoor dry/damp locations.

### TESTING PROTOCOLS AND DATA

All of Nulite's LED components have been tested under **LM-80** guidelines insuring 6000 hours of luminous flux data. Additionally Nulite can supply **LM-79** data on all luminaires. This data includes luminous flux, electrical power, efficiency, chromaticity as well as the diffusion of luminous intensity.