



# RELAY

## Direct - Pendant system

With curved & softened design elements, configure diverse geometric patterns for a continuously lit shape. Uplight, downlight or both, Relay gives you the freedom to realize your lighting ambitions.

- Fully lit corners for seamless illumination.
- Various pattern options for design freedom.
- High performance, low glare, direct-indirect light source.
- Fixture mounted nLight® compatible sensors.
- Acoustic infill options available.

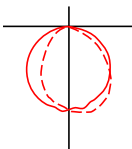


### PERFORMANCE AT 3500K

OUTPUT	DISTRIBUTION	NOMINAL LUMEN OUTPUT		INPUT WATT	EFFICACY
		INDIRECT	DIRECT		
LH (High)	SYMMETRIC	-	1297 lm / ft	12 W / ft	106 lm / W
LS (Standard)	SYMMETRIC	-	649 lm / ft	6 W / ft	106 lm / W

Based on static white 35K HE lens fixtures. For the complete photometric data of this fixture refer to page 4.

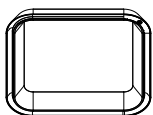
### LENS OPTIONS



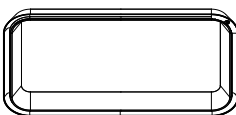
Direct

### PATTERN OPTIONS

#### STANDARD

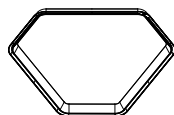


Square

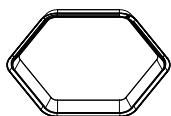


Rectangle

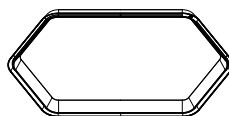
#### ADVANCED



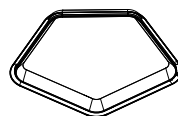
Diamond



Hexagonal

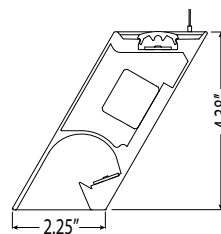


Hexagonal Long



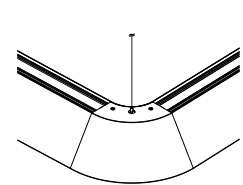
Pentagon

### DIMENSIONS



Cross Section

### MOUNTING OPTIONS



(S) | Aircraft Cable

### FELT OPTIONS

#### Standard colors

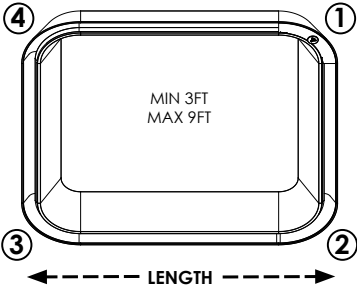


#### Premium colors

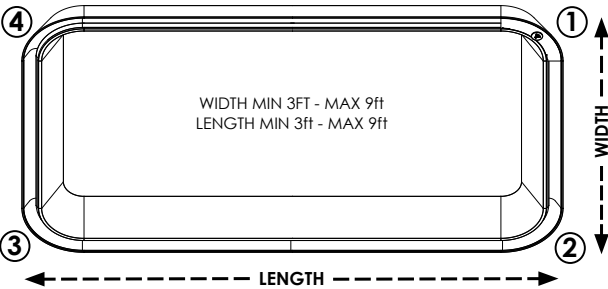


Color chart for reference only. Due to the dye process, colors may vary from batch to batch, please consult Design Assist for details.

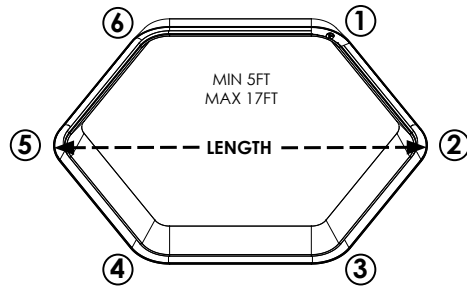
**SQUARE PATTERN: SQ**



**RECTANGLE PATTERN: RC**



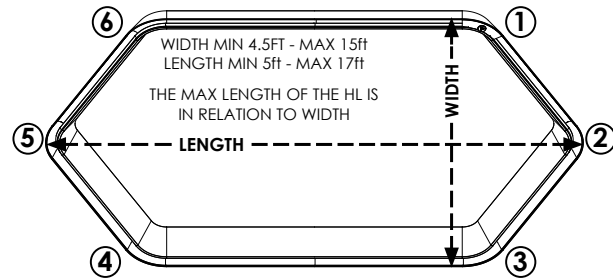
**HEXAGONAL PATTERN: H**



\*The corners are numbered clockwise from the power cable.

\*\*Unless specified otherwise, the power cable is placed on corner 1.

**HEXAGONAL LONG PATTERN: HL**



**ORDERING CODE**

RLY3		S
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PROJECT INFO

DATE

TYPE

QUANTITY

SERIES	PATTERN	DIMENSION	OUTPUT	LED CCT	VOLTAGE	S MOUNTING	FINISH
RLY3	<b>H</b> Hex <b>HL</b> Hex Long <b>SQ</b> Square <b>RC</b> Rectangle <b>AD</b> Advanced*	<b>L</b> Length <b>W</b> Width  *Outside lengths are specifiable to the nearest 6in, for dimension references go to pages 5 & 6. (EX: L8.5W5.5)  **Smallest nominal length 3ft.  ***For a H and a SQ equal give only the length dimension. (EX: L5 for 5ft length HEX)	<b>DLS</b> Direct LED Standard Output <b>DLH</b> Direct LED High Output <b>DC</b> Direct LED Custom Output*	<b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K <b>TU</b> Tunable white* (2700k to 5000k) <b>DW</b> Dim to warm* (2700k to 5000K)	<b>U</b> 120V-277V <b>3</b> 347V	<b>S</b> Aircraft Cable*  *Standard 48" field adjustable cable, specify length to the nearest inch if over 48". Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified.	<b>B</b> Black <b>W</b> White <b>T</b> Titanium <b>O</b> Other*  *Specify RAL#

CIRCUITING	DIMMING	EMERGENCY	SENSOR	SENSOR PLACEMENT	POWER CABLE PLACEMENT	OPTIONS
<b>1</b> Single Circuit	<b>D</b> Standard 0-10 dimming* <b>D1</b> HiLume Ecosystems 1% (LDE1) <b>D2</b> ELV 5% dimming** <b>D3</b> DMX 0.1% (dim-to-dark) <b>D4</b> DALI (dim-to-off) <b>NAIR</b> nLight ®AIR (dim-to-off) <b>NWIR</b> nLight ®Wired (dim-to-off)  *Dimming to 1% stated for standard 0-10v dimming **Reference Lutron LITEA4 driver for compatible dimmers.	<b>EC</b> Emergency circuited <b>E</b> Emergency battery*  *Factory-installed emergency battery pack. Not available on SQ fixtures smaller than 4ft and H fixtures smaller than 6ft. See technical data or contact Design Assist for more information.	<b>OC</b> Occupancy Sensor - Ceiling <b>PC</b> Photocell / Daylight Sensor - Ceiling <b>OPC</b> Occupancy & Daylight Sensor - Ceiling <b>OF</b> Occupancy Sensor - Fixture <b>PF</b> Photocell / Daylight Sensor - Fixture <b>OPF</b> Occupancy & Daylight Sensor - Fixture  *Unless specified otherwise, the sensor is on the power cable corner (1).	<b>1</b> Corner 1 <b>2</b> Corner 2 <b>3</b> Corner 3 <b>4</b> Corner 4 <b>5</b> Corner 5 <b>6</b> Corner 6  *Unless specified otherwise, the sensor is on corner 1.	<b>1</b> Corner 1 <b>2</b> Corner 2 <b>3</b> Corner 3 <b>4</b> Corner 4 <b>5</b> Corner 5 <b>6</b> Corner 6  *Unless other specified, the power cable is place corner 1.	<b>CRI</b> 90+ CRI* <b>FLT</b> Felt infill 1 layer** <b>FLT+</b> Felt infill 2 layers***  Standard offering is 80+ CRI.  *90+ CRI is not available with Tunable white and Dim to warm.  **Specify felt colors, see page 10. See page 9 or Consult Design Assist for more information .

LIGHT DISTRIBUTION

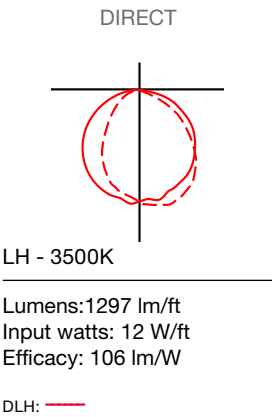
DISTRIBUTION

Direct

OUTPUT (DC)

LH: High output - 12 W/ft  
LS: Standard output - 6 W/ft  
C: Custom tuned output - Contact Design Assist

PHOTOMETRIC DATA



PERFORMANCE AT 3500K

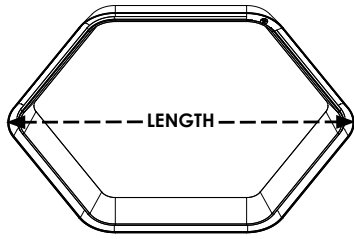
OUTPUT	DISTRIBUTION	NOMINAL LUMEN OUTPUT		INPUT WATT	EFFICACY
		INDIRECT	DIRECT		
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Based on static white 35K. For the complete photometric data of this fixture refer to page 4.

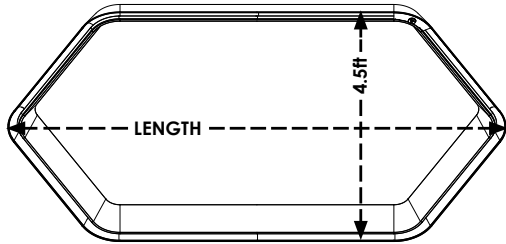
LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT	
		CRI 80+	CRI 90+	CRI 80 +	CRI 90 +
LH (high)	4000k	102.1%	90.4%	1324 lm/ft	1172 lm/ft
	3500k	100%	87.5%	1297 lm/ft	1135 lm/ft
	3000k	96.3%	82.8%	1249 lm/ft	1074 lm/ft
	2700k	92.7%	78.6%	1202 lm/ft	1019 lm/ft
LS (standard)	4000k	102.1%	90.4%	663 lm/ft	587 lm/ft
	3500k	100%	87.5%	649 lm/ft	568 lm/ft
	3000k	96.3%	82.8%	625 lm/ft	537 lm/ft
	2700k	92.7%	78.6%	602 lm/ft	510 lm/ft

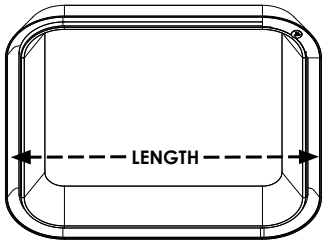
FULL FIXTURE OUTPUT



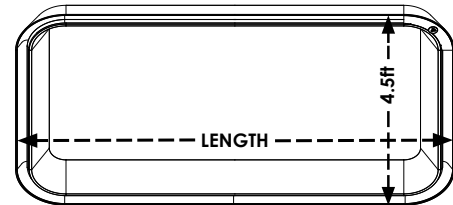
DISTRIBUTION	CCT	H - HEXAGONAL					
		5FT	7FT	9FT	11FT	13FT	15FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +	CRI 90 +
DIRECT SYMMETRIC	3500k	19,455 lm	27,237 lm	35,019 lm	42,801 lm	50,583 lm	58,365 lm



DISTRIBUTION	CCT	HL - HEXAGONAL LONG					
		5FT	7FT	9FT	11FT	13FT	15FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +	CRI 90 +
DIRECT SYMMETRIC	3500k	19,455 lm	24,643 lm	29,831 lm	35,019 lm	40,207 lm	45,395 lm



DISTRIBUTION	CCT	SQ - SQUARE			
		3FT	5FT	7FT	9FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +
DIRECT SYMMETRIC	3500k	12,970 lm	23,346 lm	33,722 lm	44,098 lm

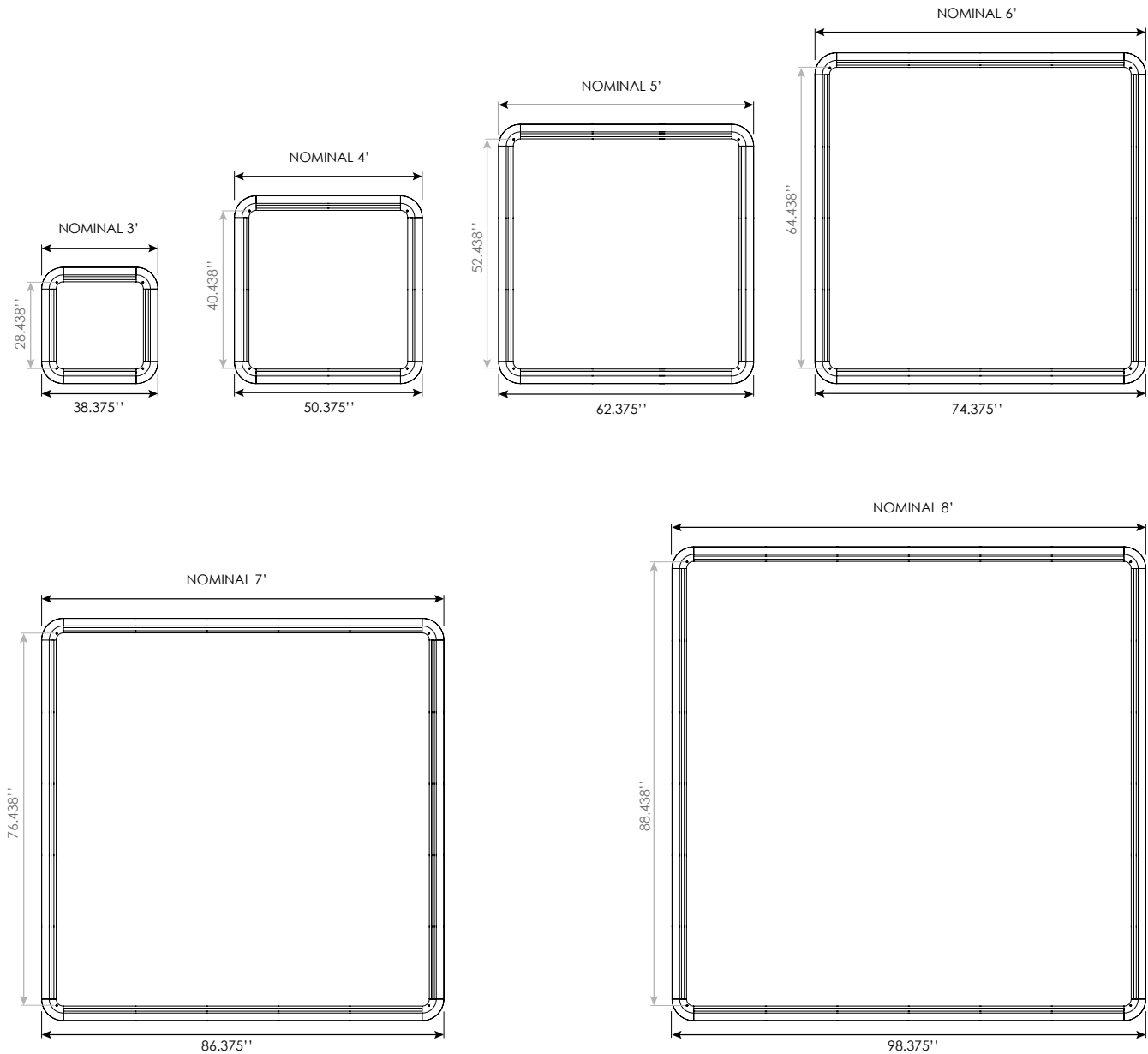


DISTRIBUTION	CCT	RC - RECTANGLE			
		3FT	5FT	7FT	9FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +
DIRECT SYMMETRIC	3500k	16,861 lm	22,049 lm	27,237 lm	32,425 lm

Factors above for high output (LH).  
 For standard output (LS) -50%.  
 Refer to the LLF table to get other CCT output.  
 \*\*If you need the output of a specific size call design assist.

NOMINAL RELAY SQUARE DIMENSIONS							
	NOMINAL 3'	NOMINAL 4'	NOMINAL 5'	NOMINAL 6'	NOMINAL 7'	NOMINAL 8'	NOMINAL 9'
TRUE DIMENSION	39.375''	50.375''	62.375''	74.375''	86.375''	98.375''	110.375''
MOUNTING LENGTH DIMENSION	28.438''	40.438''	52.438''	64.438''	76.438''	88.438''	100.438''

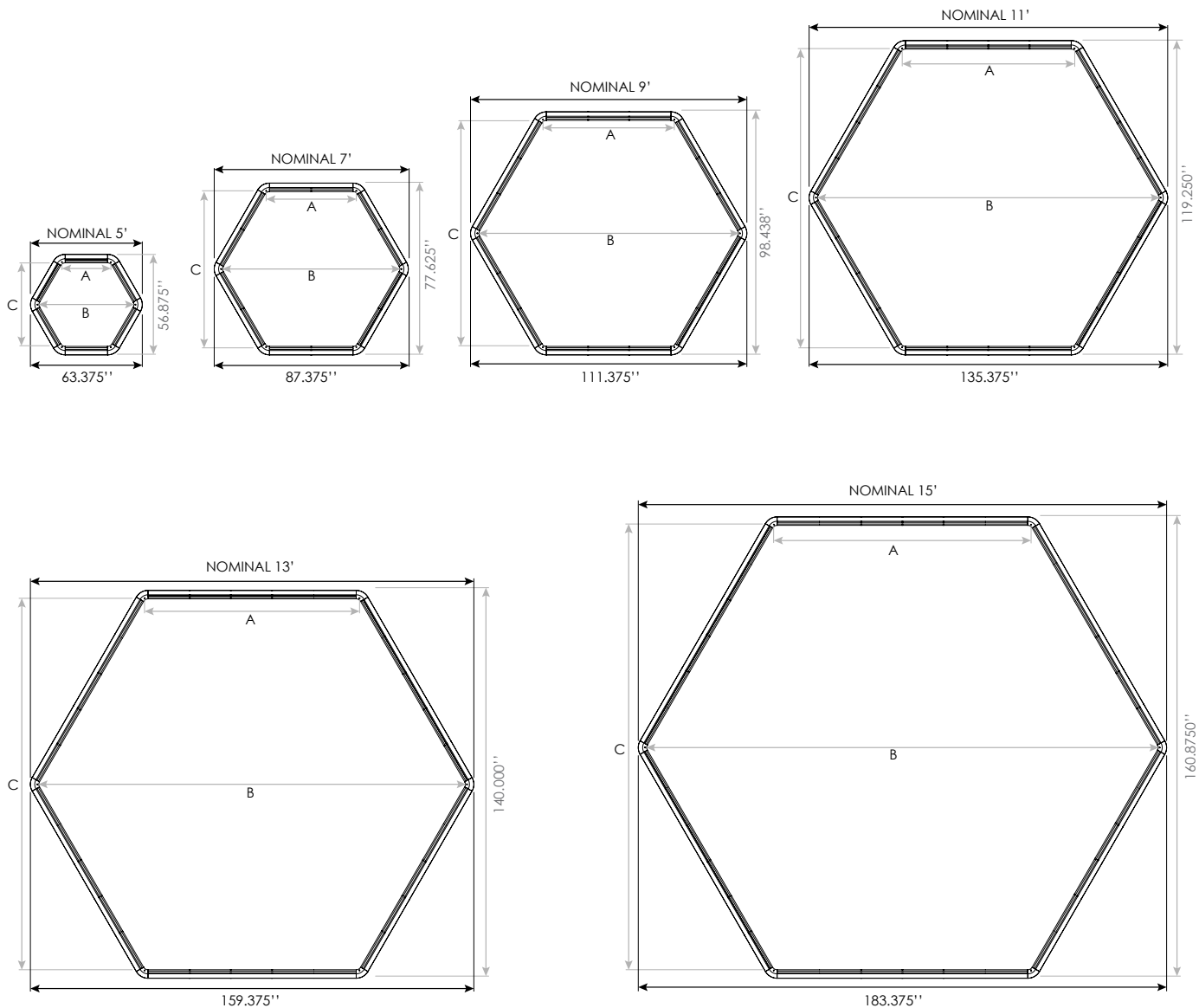
\*Outside lengths are specifiable to the nearest 0.5ft.



\*Dimensions in grey are the mounting point lengths.

NOMINAL RELAY HEXAGONAL DIMENSIONS											
	NOMINAL 5'	NOMINAL 6'	NOMINAL 7'	NOMINAL 8'	NOMINAL 9'	NOMINAL 10'	NOMINAL 11'	NOMINAL 12'	NOMINAL 13'	NOMINAL 14'	NOMINAL 15'
TRUE LENGHT DIMENSION	63.375"	75.375"	87.375"	99.375"	111.375"	123.375"	135.375"	147.375"	159.375"	171.375"	183.375"
TRUE WIDTH DIMENSION	56.875"	67.250"	77.625"	88.000"	98.438"	108.875"	119.250"	129.625"	140.000"	150.438"	160.875"
MOUNTING LENGTH DIMENSION (A)	27.750"	33.750"	39.750"	45.750"	51.750"	57.750"	63.750"	69.750"	75.750"	81.750"	87.750"
MOUNTING LENGTH DIMENSION (B)	55.500"	67.500"	79.500"	91.500"	103.500"	115.500"	127.500"	139.500"	151.500"	163.500"	175.500"
MOUNTING LENGTH DIMENSION (C)	48.000"	58.438"	68.875"	79.250"	89.625"	100.000"	110.438"	120.875"	131.250"	141.625"	152.000"

\*Outside lengths are specifiable to the nearest 0.5ft.

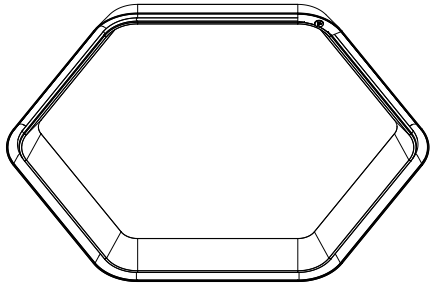


\*Dimensions in grey are the mounting point lengths.

## STANDARD PATTERN

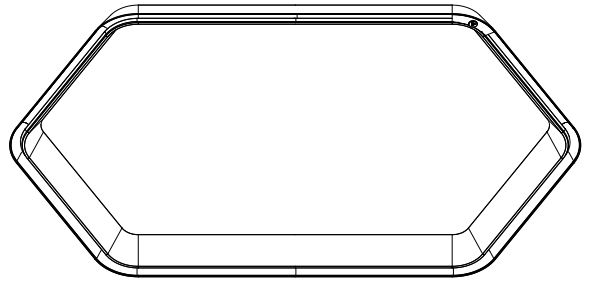
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HEXAGONAL PATTERN:



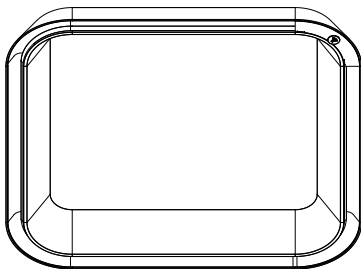
The Hex pattern comes with 6 X 120° corners and 6 extrusions segments, which are available in multiple lengths to alter the shape.

HEXAGONAL LONG PATTERN:



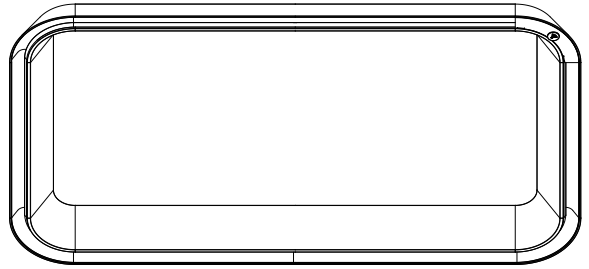
The hexagonal long pattern comes with 6 X 120° corners and 4 shorts extrusions and 2 longs extrusions segment, which are available in multiple lengths to alter the shape.

SQUARE PATTERN:



The square pattern comes with 4 X 90° corners and 4 extrusions segments, which are available in multiple lengths to alter the shape.

RECTANGLE PATTERN:

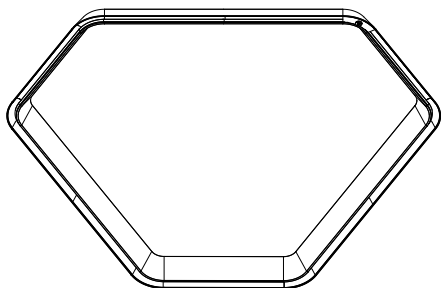


The rectangle pattern comes with 4 X 90° corners and 4 extrusions segments, which are available in multiple lengths to alter the shape.

## ADVANCED PATTERN

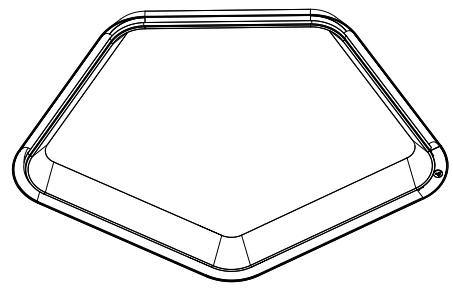
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DIAMOND PATTERN:



The diamond pattern comes with 6 X 120° corners and 3 shorts extrusions and 3 longs extrusions segment, which are available in multiple lengths to alter the shape.

PENTAGON PATTERN:



The pentagon pattern comes with 3 X 120° and 2 X 90° corners and 3 shorts extrusions and 2 longs extrusions segment, which are available in multiple lengths to alter the shape.



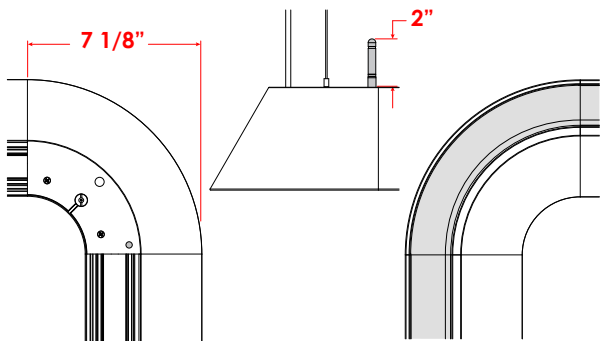
Need help?

Don't see what you need?

We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have. Our talented Design Assist team is here to make the process move smoothly.

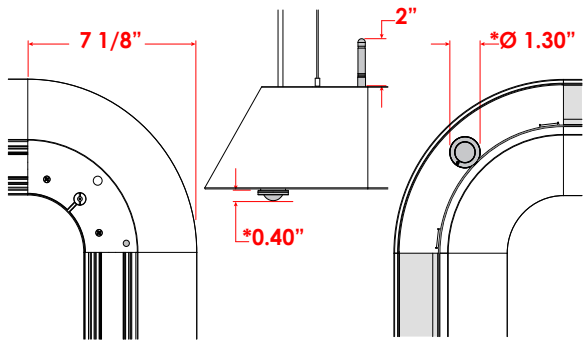
nLIGHT® DIMENSIONS

AIR : r10



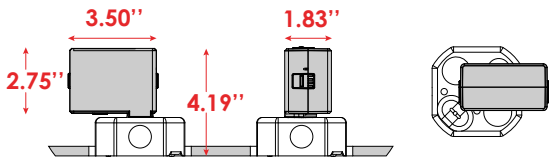
\*Fixture mounted sensors and filler panel for nLIGHT® AIR only.

AIR : res7



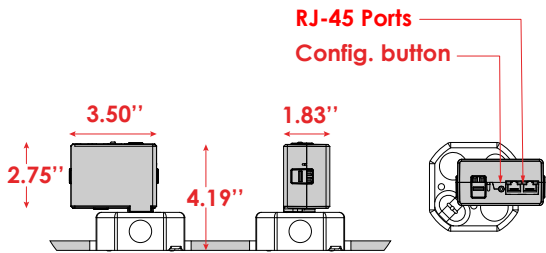
\*Fixture mounted sensors and filler panel for nLIGHT® AIR only.

Air : rPP20



\*Mounted on standard 4" octagonal j-box. Fits on any j-box with 5/8" knockouts.

WIRED : nPP16



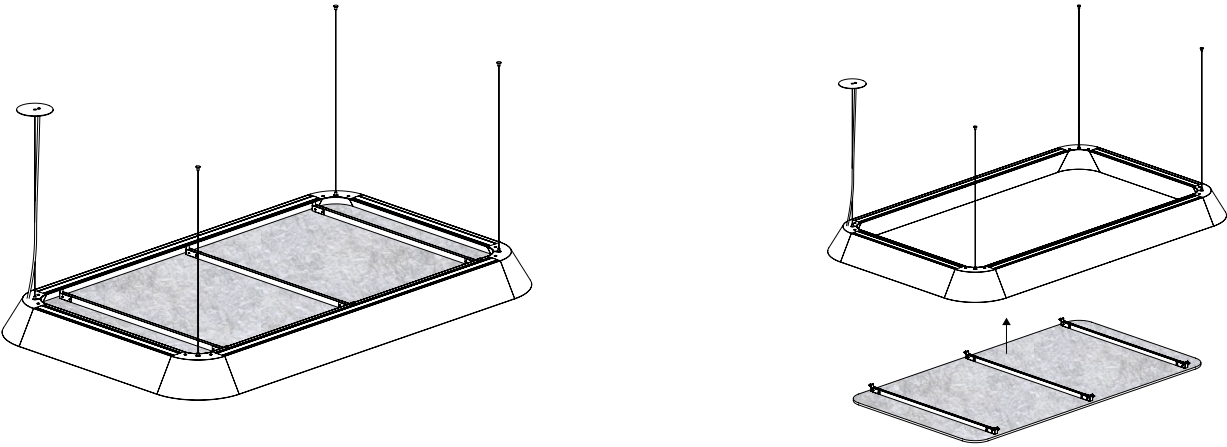
\*Mounted on standard 4" octagonal j-box. Fits on any j-box with 5/8" knockouts.



FELT INTEGRATION OPTIONS

1 LAYER ACOUSTIC PANEL:

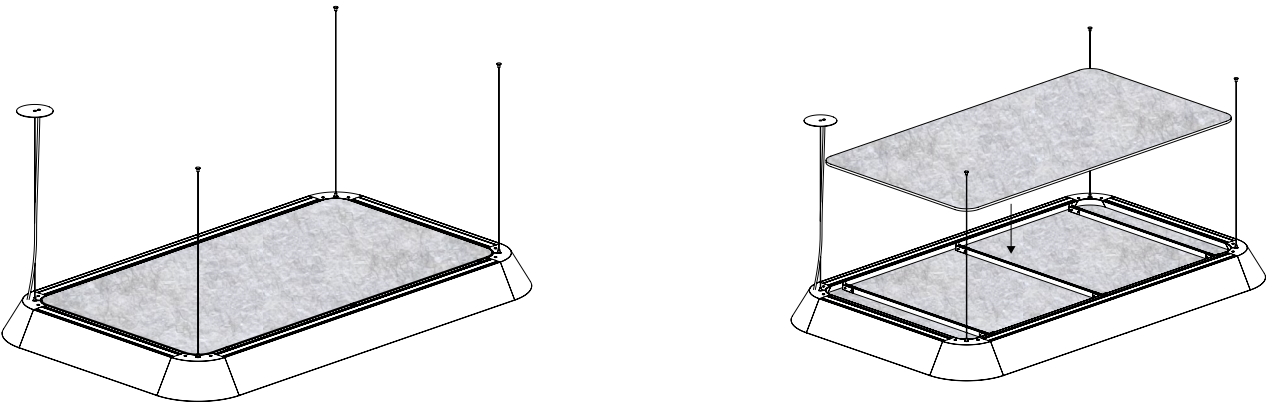
The acoustic panels come pre-installed with mounting brackets for easy installation. Simply hook and screw the acoustic panels to the fixture body. The colour of the felt bracket will match the colour of the extrusion.



2 LAYERS ACOUSTIC PANEL:

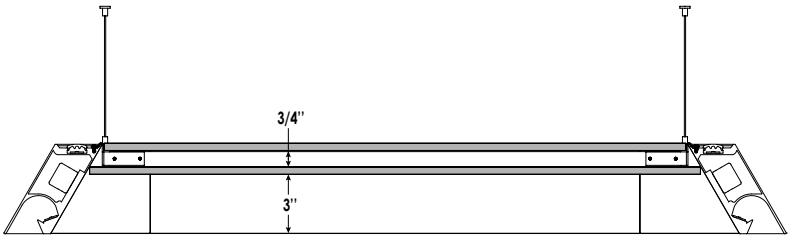
The 2-layer acoustic panel comes with the 1-layer felt panel and an additional drop-in-place acoustic panel that goes over the structure. This panel is used to hide the acoustic panel structure and to give a better finish on the upside of the fixture.

We recommend the use of the 2 layers acoustic panel integration where the upside of the fixture is visible.



FIXTURE SIZE COMPATIBLE WITH ACOUSTIC

PATTERN TYPE	MINIMUM NOMINAL SIZE	MAXIMUM NOMINAL SIZE
Hexagonal	5'	9'
Hexagonal long	5' X 5'	9' X 8'
Square	3'	9'
Rectangle	3' X 3'	9' x 9'
Diamond	Contact Desing Assist	
Pentagon		



STANDARD COLORS



CHF  
Charcoal



SGF  
Silver Gray



NBF  
Navy Blue



REF  
Red

PREMIUM COLORS



AWF  
Arctic White



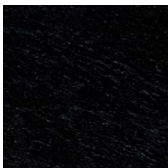
LBF  
Light Beige



BTF  
Battleship Gray



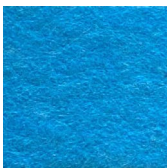
TGF  
Titanium Gray



BBF  
Basic Black



SBF  
Sky Blue



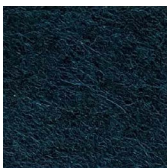
ABF  
Azure Blue



DBF  
Denim Blue



OBF  
Ocean Blue



DTF  
Deep Teal Green



MGF  
Moss Green



PGF  
Pear Green



LGF  
Lime Green



GGF  
Grass Green



BGF  
Bubble Gum



PNF  
Pinot Noir



ZFF  
Zinfandel



TPF  
Tulip Purple



PPF  
Plum Purple



BYF  
Banana Yellow



DYF  
Daisy Yellow



TOF  
Tangerine Orange



BOF  
Blood Orange



PBF  
Peanut Brown



BKF  
Bark Brown



OAF  
Oak Brown

Color chart for reference only. Due to the dye process, colors may vary from batch to batch, please consult Design Assist for details.

## DIMENSIONS

The Relay is a combination of linear profiles and angled corners. The linear segments can vary in length, in increments of 6in, from a minimum length of 2ft to a maximum length of 8ft. The angled corner options are 120° and 90°. Combining these elements enables the creation of multiple shapes and patterns.

## OPTICS

**Direct:** The light source is reflected off a high-performance specialty film to render a smooth, powerful and controls output. The light engine design enables an uninterrupted line of light all around the profile.

**Indirect:** High efficiency TIR lenses are used to provide high quality precision optics. The output option offered are Batwing wide, Batwing Extra-Wide, Asymmetric in (to orient light inside the profile) and Asymmetric out (to orient light outside the profile).

## LED LIGHT SOURCE

Custom manufactured round and linear boards array uses high-performance Nichia® LED in combination with a performance-driven heat sink technology. Tested in accordance with LM-79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700k, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. White tuning and dim to warm are also available in a 2700k-5000k color temperature range, but not in 90+ CRI. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). Refer to photometry for delivered lumens.

## LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with an ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Eco-system H-series (LDE1): Hi-lume™ 1% LED dimming driver with Soft On, Fade to Black; and DMX and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

## EMERGENCY

Factory-installed integrated fixture LED emergency battery pack for both normal and emergency operation, with the exception of the 2ft extrusion fixture (SQ fixture smaller than 4ft and H fixture smaller than 6ft) which must have a remote emergency battery. The unit contains a long-life Ni-Cad recyclable battery, 24-hour charger, and converter circuit. Test switch and charge indicator provided. Emergency mode provides constant power to a nominal 12W or 5W LED load for a period of 90 minutes, delivering 1200 or 500 lumens of unwavering illumination throughout the full 90 minute emergency duration.

## CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high-performance lighting control in any space.

Integrated nLight® for system networking wired and wireless:

### NLIGHT® AIR WIRELESS

The integrated API smart sensor is 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. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

## CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The rPP16 nCM are available for integration.

Other manufacturer controls may be available for product integration, contact factory.

## MOUNTING

Aircraft cable set includes one 48" standard length 1/16 stainless steel adjustable aircraft cables with secure mini grippers to field set suspension length per corners, it comes pre-installed in the fixture by the factory. 4-1/2" round canopy and cord strain relief are also included. Please refer to installation sheets for mounting weight requirements. Power cord options available for aircraft cable. A black power cord is provided for black and titanium finish, a white power cord is provided for all other fixture finishes unless otherwise specified.

Specify if other suspension length is required.

## ACOUSTICS

The felt-like polyester panels are made from at least 40% post-consumer recycled PET bottles and are fully recyclable, no VOCs formaldehyde-free. Fire tested according to ASTM E-84 Class A. The carefully studied hollow core design and the large surface area contribute to lowering the reverberation time in a set environment by absorbing sound frequencies (ideal for human voice range 250Hz to 2000Hz). Material has inherent NRC of 0.75. It is recommended to consult sound professionals for optimal spacing, positioning and quantity of acoustic material for your environment. Due to the dyeing process, colors may vary from batch to batch. Premium colors require a longer lead time. The colour of the felt bracket will match the colour of the extrusion.

### STRUCTURE

Robust, high-quality precision recycled aluminum extruded housing. Laser-cut and precision bent sheet metal components and brackets.

### FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, textured white and textured black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

### WARRANTY

A-Light warrants that, for a period of five (5) years from the date of shipment to the original customer at the original installed location, each product will be free from any defects in material and workmanship which cause the product to fail to operate in accordance with the products' performance specifications as they exist at the time of shipment. This limited warranty is void under certain conditions. Wet location fixtures are not recommended for extreme wet weather conditions and must be installed according to factory drawings; there is a modified warranty for LED components installed in applications not following factory recommendations/drawings. Please refer to the full terms and conditions on our website.