

RLY3

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.

5Y Warranty · White tuning · nLIGHT Controls · cULus Certified · eldoLED Drivers · Sensors · Dim. to warm · BAA Buy American · Build America Buy America BABA

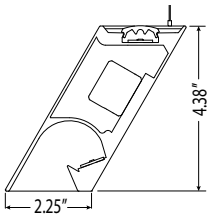
2022 Platinum Winner GRANDS PRIX DU DESIGN · reddot winner 2022 lighting design · PIA'21 · LIT LIGHTING DESIGN AWARDS · 2022 PROGRESS Report SELECTION · GOOD DESIGN · PIA'22

Performance

OUTPUT	DISTRIBUTION	DELIVERED LUMEN OUTPUT		INPUT WATT	EFFICACY
		INDIRECT	DIRECT		
LH (High)	Symmetric	-	1272 lm / ft	12 W / ft	106 lm / W

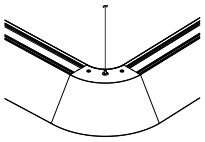
Based on static white 3500K HE lens fixtures. For the complete photometric data of this fixture refer to page 4.

Dimensions



Cross Section

Mounting options



Aircraft cable (S)

Felt options

Standard Colors



ABF Azure Blue · AWF Arctic White · BBF Basic Black · BOF Blood Orange · BTF Battleship Grey · BYF Banana Yellow · CHF Charcoal



NSF Navy Blue · OBF Ocean blue · PGF Pear Green · REF Red · SGF Silver Grey · TGF Titanium Gray · ZFF Zinfandel

Signature Colors



BGF Bubble Gum · BKF Dark Brown · DBF Denim Blue · DTF Deep Teal Green · DYF Daisy Yellow · GGF Grass Green · LBF Light Beige



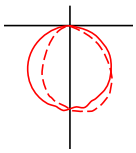
LGF Lime Green · MGF Moss Green · OAF Oak Brown · PBF Peanut Brown · PNF Pinot Noir · PPF Plum Purple · SBF Sky Blue



TOF Tangerine · TPF Tulip Purple

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

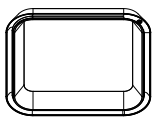
Lens options



Direct

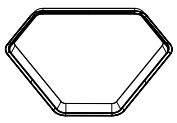
Pattern options

Standard

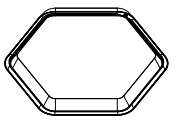


Square · Rectangle

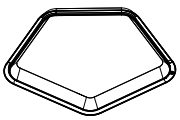
Advanced



Diamond



Hexagonal · Hexagonal Long



5-sided polygon

Project name _____ Type _____ Date _____ Quantities _____



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 Design Assist team (**designassist@alights.com**) is here to make the process move smoothly.

RLY3					
SERIES	**PATTERN**	**DIMENSIONS**	**OUTPUT**	**LED CCT**	**CRI**
RLY3	**H** Hex **HL** Hex Long **SQ** Square **RC** Rectangle **AD** Advanced[1] [1] For Advanced pattern go to page 8 or contact Design Assist.	**L_** Length **W_** Width [1] Outside lengths are adjustable to the nearest 6in, for dimension references go to pages 6 & 7. (EX: L8W5.5) [2] Smallest nominal length 3ft. [3] For a H and a SQ give only the length dimension. (EX: L5 for 5ft length HEX)	**DLS** Direct Standard Output **DLH** Direct High Output **DC_** Direct Custom Output[1] [1] Contact Design Assist for custom tuning or non-standard light outputs.	**27** 2700k **30** 3000k **35** 3500k **40** 4000k **DW** Dim-to-warm[1] **TW** Tunable white[1] [1] Standard control is Dual 0-10V dimming. Contact Design Assist for custom CCT range.	**_** 80+ CRI **CRI** 90+ CRI[1] Standard offering is 80+ CRI. [1] 90+ CRI is not available with Tunable white and Dim to warm.

VOLTAGE	**MOUNTING**	**FINISH**	**CIRCUITING**	**DIMMING**
U 120-277V **3** 347V [1] Not available with LEDcode or EM.	**S** Aircraft cable[1] Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. [1] Standard 48" field adjustable cable, specify length to the nearest inch if over 48".	**W** White **B** Black **T** Titanium **O_** Other[1] CBD SFH SPN SDW SCY LME SMN [1] Specify RAL# or other custom color.	**1** Single circuit	**D** Standard 0-10 dimming[1] **D2** Phase dimming[2] **D4** DALI (dim-to-off) **NAIR** nLight ®AIR (dim-to-off)[2] **NWIR** nLight ®Wired (dim-to-off) [1] 1% Dimming standard unless otherwise specified. [2] Reference ERP-PHB driver for compatible dimmers. [3] nLight AIR components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available in 0-10v.

EMERGENCY	**SENSORS**	**SENSORS PLACEMENT**	**POWER CABLE PLACEMENT**	**OPTIONS**
EC Emergency Circuited **E_** Emergency Battery[1] Not available for 347V. See technical data for more information. Not available on fixtures < 4' length. [1] Factory-installed emergency battery pack. Specify desired quantity of batteries	**OF_** Occupancy Sensor - Fixture **PF_** Photocell / Daylight Sensor - Fixture **OPF_** Occupancy / Daylight Sensor - Fixture Unless specified otherwise, the sensor is on the power cable corner (1).	**S1** Corner 1 **S2** Corner 2 **S3** Corner 3 **S4** Corner 4 **S5** Corner 5 **S6** Corner 6 Unless specified otherwise, the sensor is on corner 1.	**C1** Corner 1 **C2** Corner 2 **C3** Corner 3 **C4** Corner 4 **C5** Corner 5 **C6** Corner 6 Unless other specified, the power cable is place corner 1.	**F1** Felt infill 1 layer[1] **F2** Felt infill 2 layer[1] [1] See page 10 & 11 for felt infill and color info, or Consult Design Assist for more information.

Project name | Type | Date | Quantities

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

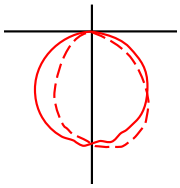
Photometric data

DIRECT

LH - 3500K

Lumens: 1272 lm/ft
Input watts: 12 W/ft
Efficacy: 106 lm/W

DLH:



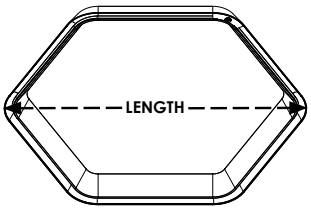
Light loss factors (LLF) - Direct data

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY	
				SYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	108 lm/W	89 lm/W
	3500K	1	0.83	106 lm/W	88 lm/W
	3000K	0.97	0.81	103 lm/W	86 lm/W
	2700K	0.94	0.79	100 lm/W	84 lm/W
LS (standard)	4000K	1.02	0.84	108 lm/W	89 lm/W
	3500K	1	0.83	106 lm/W	88 lm/W
	3000K	0.97	0.81	103 lm/W	86 lm/W
	2700K	0.94	0.79	100 lm/W	84 lm/W

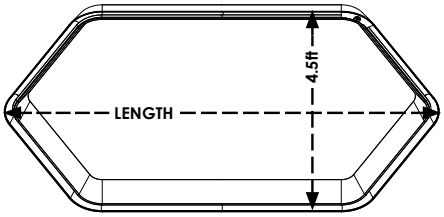
OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT	
				SYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	1297 lm/ft	1068 lm/ft
	3500K	1	0.83	1272 lm/ft	1056 lm/ft
	3000K	0.97	0.81	1234 lm/ft	1030 lm/ft
	2700K	0.94	0.79	1196 lm/ft	1005 lm/ft
LS (standard)	4000K	1.02	0.84	649 lm/ft	534 lm/ft
	3500K	1	0.83	636 lm/ft	528 lm/ft
	3000K	0.97	0.81	617 lm/ft	515 lm/ft
	2700K	0.94	0.79	598 lm/ft	502 lm/ft

Project name | Type | Date | Quantities

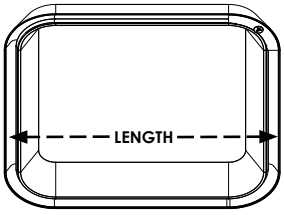
Full fixture output



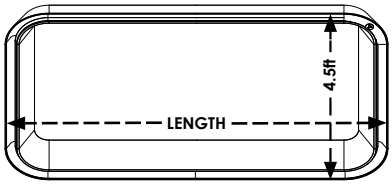
DISTRIBUTION	CCT	H - HEXAGONAL					
		5FT	7FT	9FT	11FT	13FT	15FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +	CRI 90 +
DIRECT SYMMETRIC	3500k	19,455 lm	27,237 lm	35,019 lm	42,801 lm	50,583 lm	58,365 lm



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



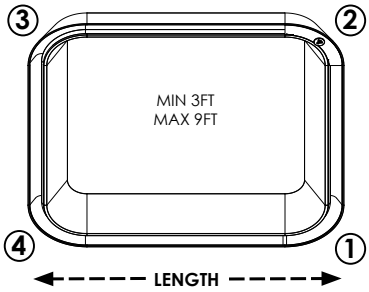
DISTRIBUTION	CCT	SQ - SQUARE			
		3FT	5FT	7FT	9FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +
DIRECT SYMMETRIC	3500k	12,970 lm	23,346 lm	33,722 lm	44,098 lm



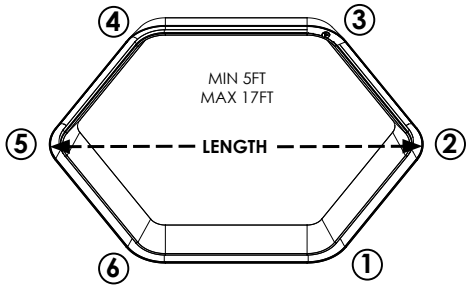
DISTRIBUTION	CCT	RC - RECTANGLE			
		3FT	5FT	7FT	9FT
		CRI 80 +	CRI 80 +	CRI 80 +	CRI 80 +
DIRECT SYMMETRIC	3500k	16,861 lm	22,049 lm	27,237 lm	32,425 lm

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

Square pattern : SQ



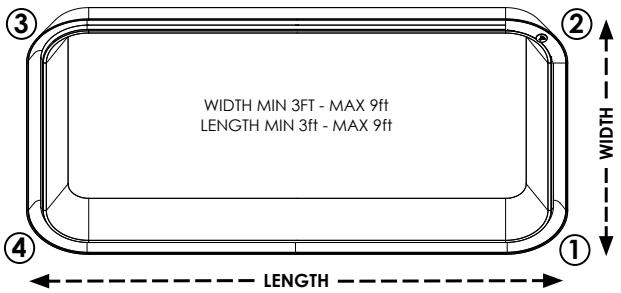
Hexagonal pattern : H



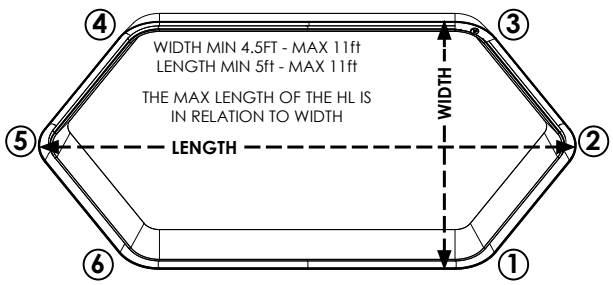
*The corners are numbered clockwise from the power cable.

**Unless specified otherwise, the power cable is placed on corner 1.
*** This shows bottom view.

Rectangle pattern : RC



Hexagonal long patterb : HL

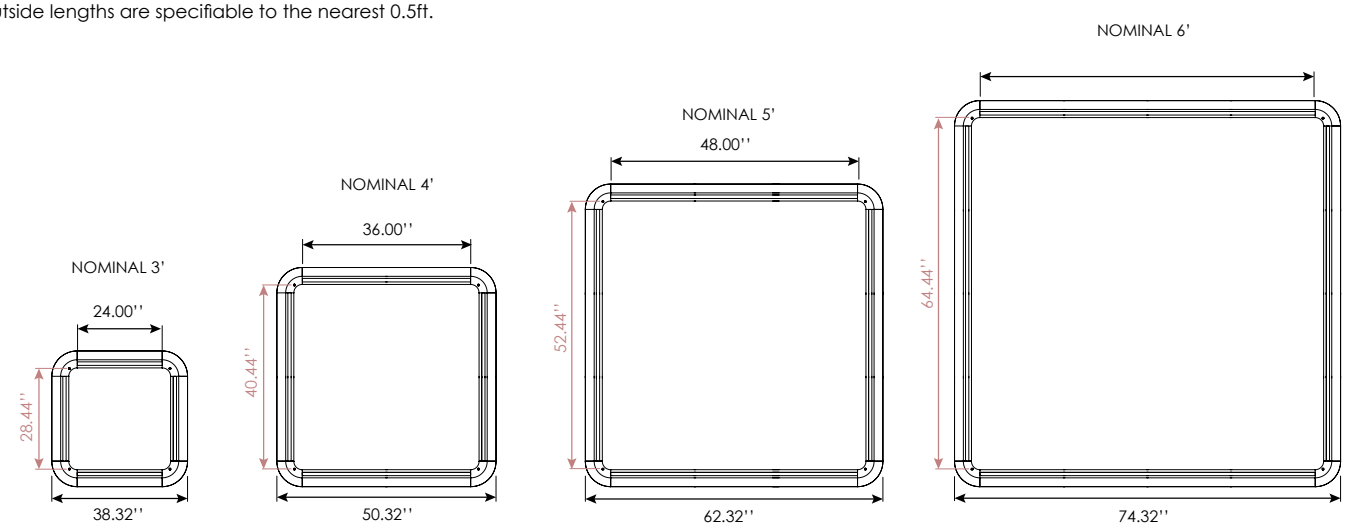


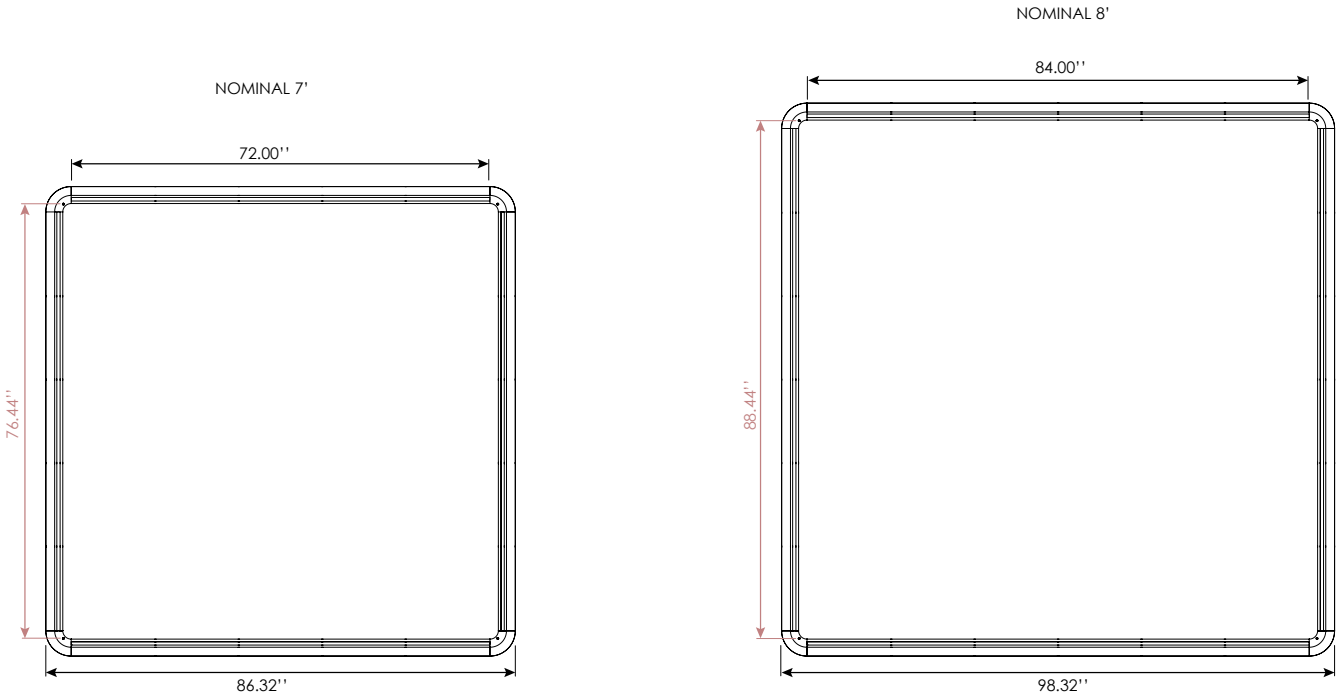
Project name | Type | Date | Quantities

Square dimensions

NOMINAL RELAY SQUARE DIMENSIONS							
	NOMINAL 3'	**NOMINAL 4'**	**NOMINAL 5'**	**NOMINAL 6'**	**NOMINAL 7'**	**NOMINAL 8'**	**NOMINAL 9'**
TRUE DIMENSION	38.32''	50.32''	62.32''	74.32''	86.32''	98.32''	110.32''
MOUNTING LENGTH DIMENSION	28.44''	40.44''	52.44''	64.44''	76.44''	88.44''	100.44''
LIT LENGTH	24.00"	36.00"	48.00"	60.00"	72.00"	84.00"	96.00"

*Outside lengths are specifiable to the nearest 0.5ft.





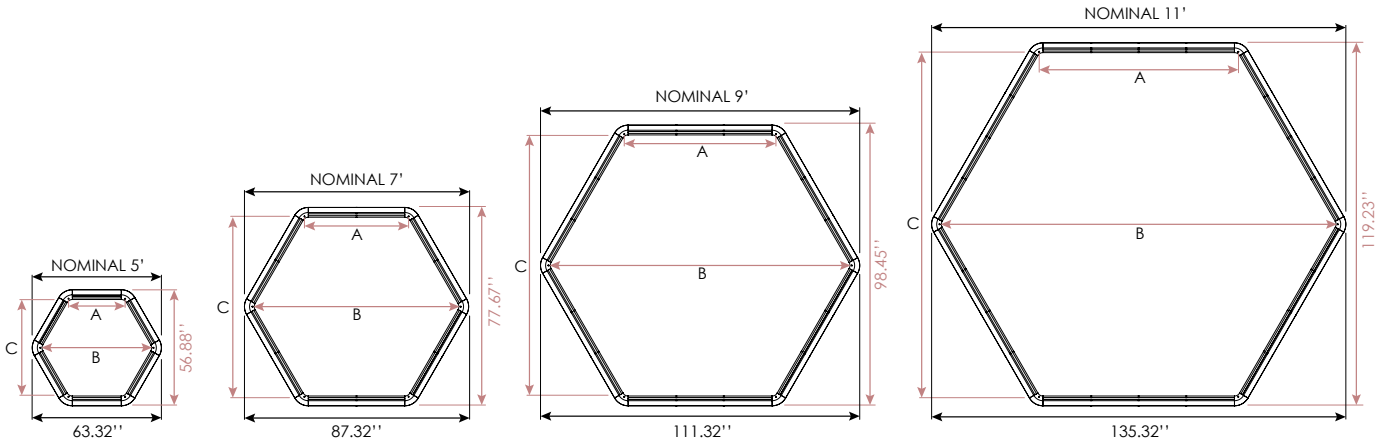
*Dimensions in red are the mounting point lengths.

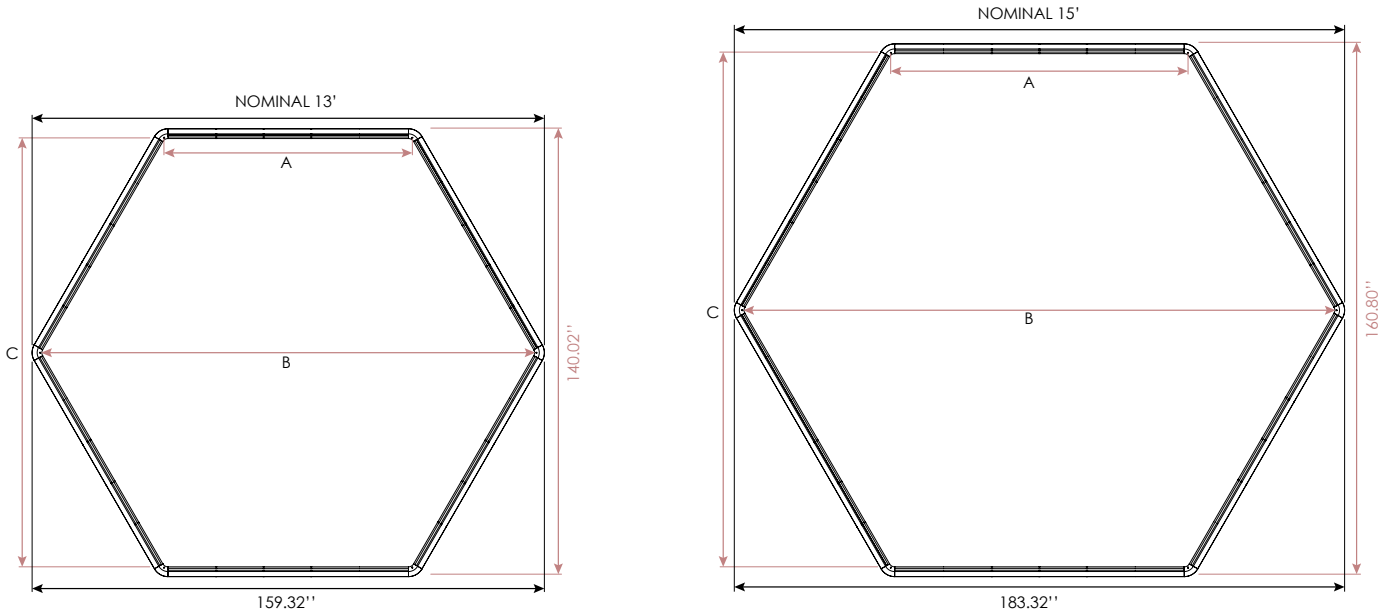
Project name | Type | Date | Quantities

Hexagonal dimension

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 LENGTH DIMENSION	63.32''	75.32''	87.32''	99.32''	111.32''	123.32''	135.32''	147.32''	159.32''	171.32''	183.32''
TRUE WIDTH DIMENSION	56.88''	67.27''	77.67''	88.06''	98.45''	108.84''	119.23''	129.63''	140.02''	150.41''	160.80''
MOUNTING LENGTH DIMENSION (A)	27.75''	33.75''	39.75''	45.75''	51.75''	57.75''	63.75''	69.75''	75.75''	81.75''	87.75''
MOUNTING LENGTH DIMENSION (B)	55.50''	67.50''	79.50''	91.50''	103.50''	115.50''	127.50''	139.50''	151.50''	163.50''	175.50''
MOUNTING LENGTH DIMENSION (C)	48.00''	58.44''	68.85''	79.25''	89.60''	100.00''	110.40''	120.80''	131.20''	141.60''	152.00''

*Outside lengths are specifiable to the nearest 0.5ft.



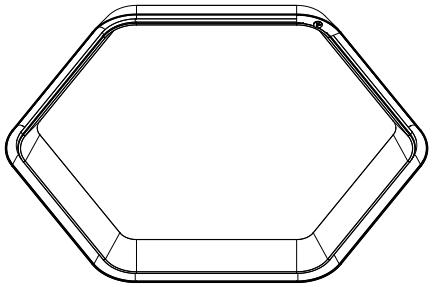


*Dimensions in red are the mounting point lengths.

Project name | Type | Date | Quantities

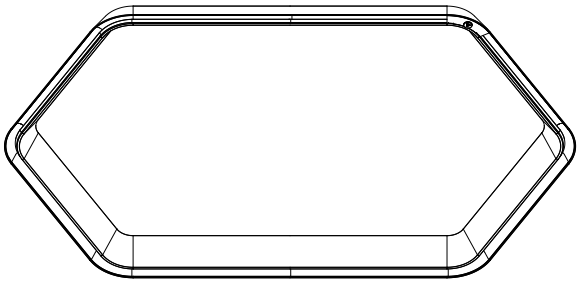
Standard pattern

HEXAGONAL PATTERN:



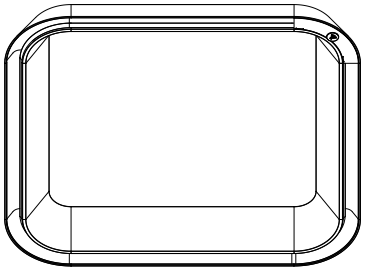
The Hex pattern comes with 6 X 120^0 corners and 6 extrusions segments, which are available in multiple lengths to alter the shape.

HEXAGONAL LONG PATTERN:



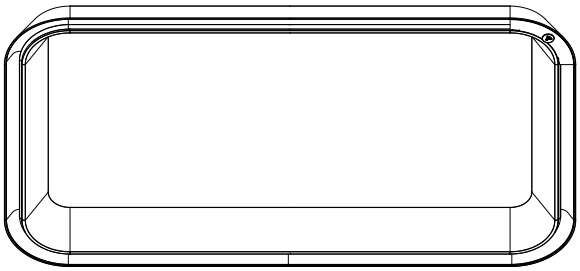
The hexagonal long pattern comes with 6 X 120^0 corners and 4 shorts extrusions and 2 longs extrusions segment, which are available in multiple lengths to alter the shape.

SQUARE PATTERN:



The square pattern comes with 4 X 90^0 corners and 4 extrusions segments, which are available in multiple lengths to alter the shape.

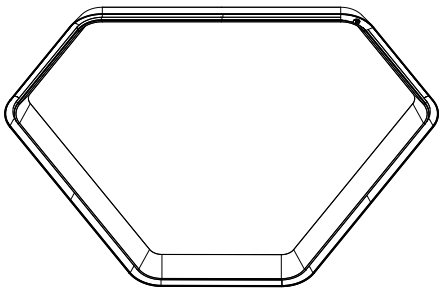
RECTANGLE PATTERN:



The rectangle pattern comes with 4 X 90^0 corners and 4 extrusions segments, which are available in multiple lengths to alter the shape.

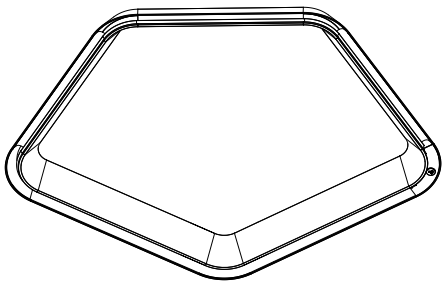
Advanced pattern

DIAMOND PATTERN:



The diamond pattern comes with 6 X 120^0 corners and 3 shorts extrusions and 3 longs extrusions segment, which are available in multiple lengths to alter the shape.

5-SIDED POLYGON PATTERN:



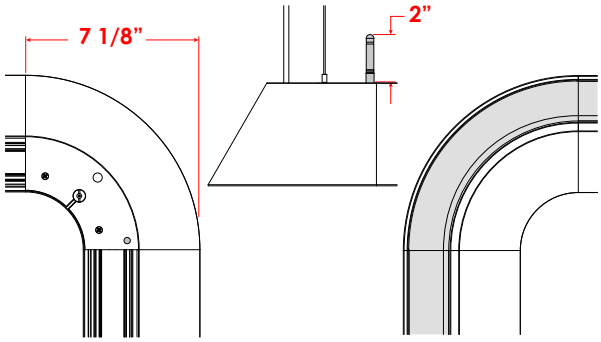
The 5-sided polygon pattern comes with 3 X 120^0 and 2 X 90^0 corners and 3 shorts extrusions and 2 longs extrusions segment, which are available in multiple lengths to alter the shape.

Need help?
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Project name | Type | Date | Quantities

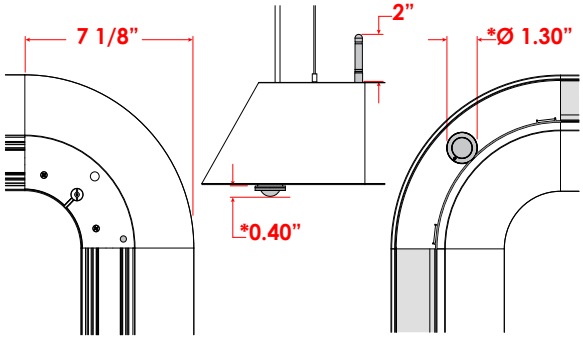
NLight dimensions

AIR : rIO



*Module for nLIGHT® AIR only.

AIR : res7



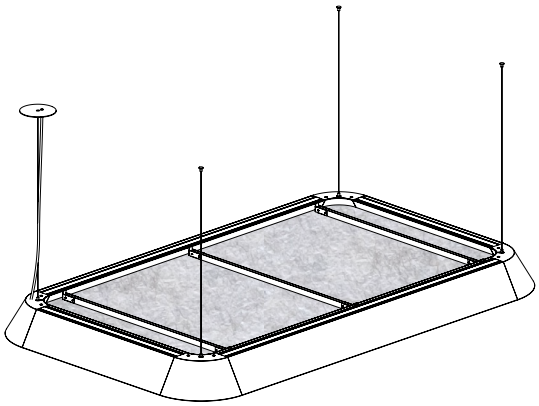
*Fixture mounted sensors and filler panel for nLIGHT® AIR only.

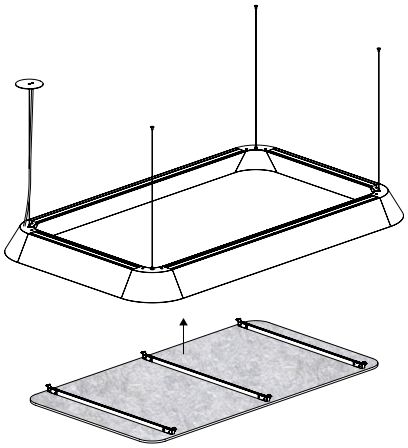
Project name | Type | Date | Quatities

Felt integration options

1 LAYER ACOUSTIC PANEL:

The acoustic panels ship on the side with all appropriate mounting brackets for easy installation on site. Simply hook and screw the acoustic panels to the fixture body. The colour of the felt bracket will match the colour of the extrusion. Please visit the installation guide for more information.

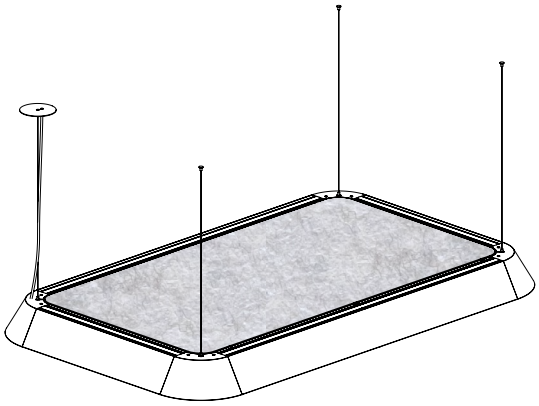


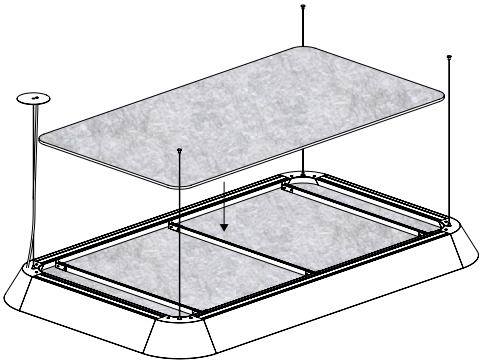


2 LAYERS ACOUSTIC PANEL:

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.

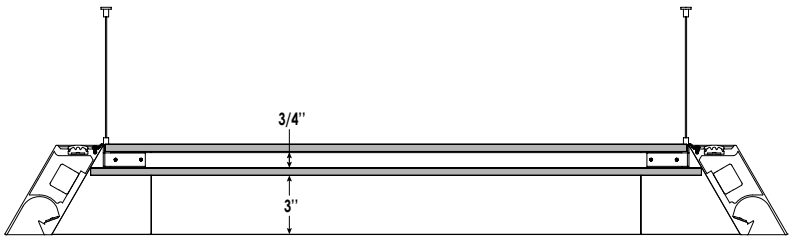
We recommend the use of the 2 layers acoustic panel integration where the upside of the fixture is visible.





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'	8' x 8'
Diamond	Contact Design Assist	
Pentagon		



Project name | Type | Date | Quantities

Standard colors



ABF
Azure Blue



AWF
Arctic White



BBF
Basic Black



BOF
Blood Orange



BTF
Battleship Grey



BYF
Banana Yellow



CHF
Charcoal



NSF
Navy Blue



OBF
Ocean blue



PGF
Pear Green



REF
Red



SGF
Silver Grey



TGF
Titanium Gray



ZFF
Zinfandel

Signature colors



BGF
Bubble Gum



BKF
Dark Brown



DBF
Denim Blue



DTF
Deep Teal Green



DYF
Daisy Yellow



GGF
Grass Green



LBF
Light Beige



LGF
Lime Green



MGF
Moss Green



OAF
Oak Brown



PBF
Peanut Brown



PNF
Pinot Noir



PPF
Plum Purple



SBF
Sky Blue



TOF
Tangerine



TPF
Tulip Purple

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

Project name | Type | Date | Quantities

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. Exact lengths down to the 1" are not available.

OPTICS

Direct: The light source is reflected off a high-performance specialty film to render a smooth, powerful and controlled output. The light engine design enables an uninterrupted line of light all around 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>60,0000hr; 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.

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 that 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.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

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 and nCM are available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

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 par 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. All canopies are white, unless otherwise noted.

Specify if other suspension length is required.

ACOUSTICS

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. Signature colors require a longer lead time. The colour of the felt bracket will match the colour of the extrusion.

STRUCTURE

Laser-cut and precision bent sheet metal components and brackets.

FINISH

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

LISTING

Tested in accordance with UL 1598, CSA C22.2 No. 250.0. For USA and Canada. Dry locations only.

The RLY3 is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA), Build America, Buy America (BABA) government procurement requirements under FAR, DFARS, and DOT.

WARRANTY

Please refer to the full terms and conditions on our website: www.alights.com/downloads/warranty/