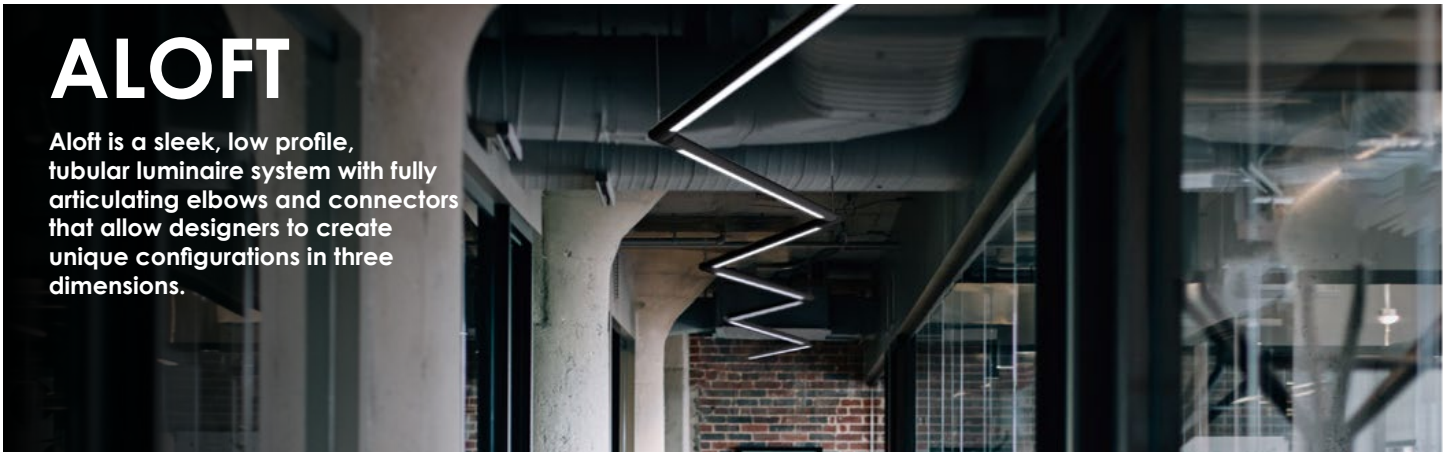
ALOFT

Aloft is a sleek, low profile, tubular luminaire system with fully articulating elbows and connectors that allow designers to create unique configurations in three dimensions.



5Y Warranty · cULus Certified · nLIGHT Controls · DAMP Location · BAA Buy American

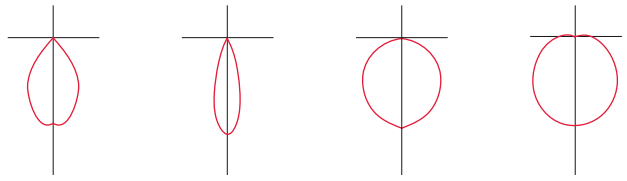
reddot winner 2021 lighting design · PROGRESS Report · LIT LIGHTING DESIGN AWARDS · product INNOVATIONS 2020 MERIT AWARD interiors+sources · Architectural SSL Magazine PIA'20 product innovation award

Performance

OUTPUT	DIRECT OPTICS	DELIVERED LUMEN OUTPUT	INPUT WATT	EFFICACY
		DIRECT		
LH (High)	SYMMETRIC 22°	877 lm/ft	10 W/ft	88 lm/W
	SYMMETRIC 55°	714 lm/ft	10 W/ft	71 lm/W
	HE TECH™	745 lm/ft	10 W/ft	74 lm/W
	DIFFUSE LENS	938 lm/ft	10 W/ft	94 lm/W

Based on static white 4000K. For the complete photometric data of this fixture go to page 6.

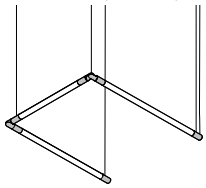
Lens options



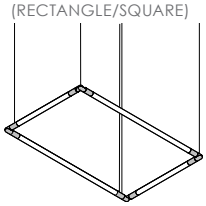
Symmetric 55° (55) · Symmetric 22° (22) · HE tech™ (HE) · Diffuse lens (DL)

Configurations

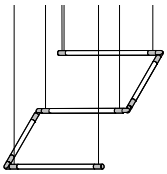
ALO-OP (U SHAPE)



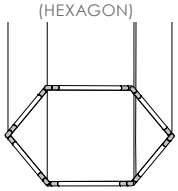
ALO-CP (RECTANGLE/SQUARE)



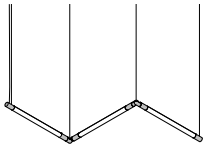
ALO-OP (S SHAPE)



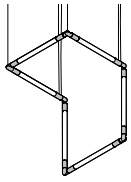
ALO-CP (HEXAGON)



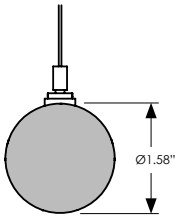
ALO-OP (Z SHAPE)



ALO-CP (MULTIPLANAR FOLD)



Mounting options

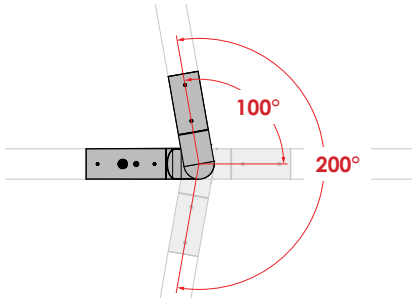


Aircraft cable (S)

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.

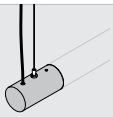
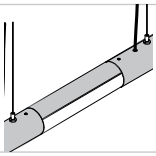
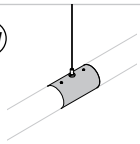
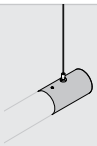
Our Design Assist team (**designassist@alights.com**) is here to make the process move smoothly.

Swivel rotation

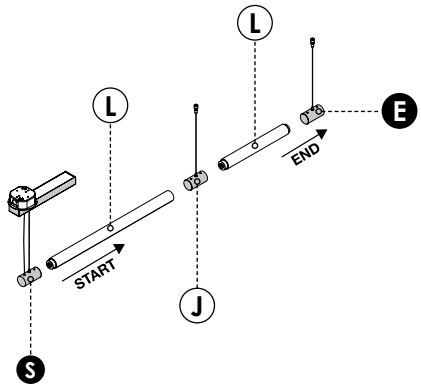


Project name | Type | Date | Quantities

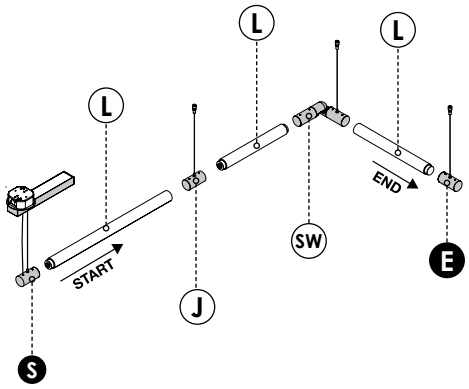
CUSTOM PATTERN ORDERING STEPS

S STARTER FEED 	**L** LINEAR SEGMENT 	**J** OR **SW** JOINER / SWIVEL 	REPEAT **L** AND **J** OR **SW** AS NEEDED	**E** END SEGMENT 

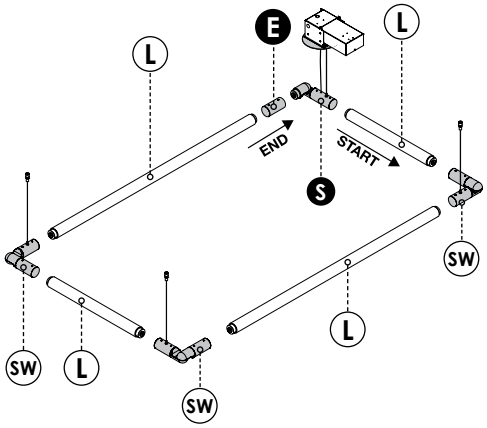
STRAIGHT RUN EXAMPLE:



OPEN PATTERN EXAMPLE:



CLOSED PATTERN EXAMPLE:



STRAIGHT RUN ORDER SEQUENCE:

S + **L** + **J** + **L** + **E**

OPEN PATTERN ORDER SEQUENCE:

S + **L** + **J** + **L** + **SW** + **L** + **E**

CLOSED PATTERN ORDER SEQUENCE:

S + **L** + **SW** + **L** + **SW** + **L** + **SW** + **L** + **E**

The straight run
A straight run always consists of a [S] starter feed straight, continued by a succession of [L] linear segments and [J] joiners, and finishes with an [E] end segment.

The open shape pattern
An open shape pattern always consists of a [S] starter feed straight, continued by a succession of [L] linear segments and [J] joiners or [SW] swivel joiners, and finishes with an [E] end segment.

The closed shape pattern
A closed shape pattern always starts with a [S] starter feed swivel, continued by a succession of [L] linear segments and [J] [SW] joiners/swivels to finish with an [E] end joiner matching the starter feed swivel.

Project name | Type | Date | Quantities

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Don't see what you need?
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ALO					
SERIES	**DRIVERS**	**LENGTH OR PATTERN TYPE[1,2]**	**FIXTURE PLANE**	**OUTPUT**	**CCT**
ALO	**SUR** Surface **REC** Recessed	**S_** Straight run[1] **OP_** Open Pattern[2] (I.E. L-shape, U-shape, Zigzag, etc.) **CP_** Closed Pattern[3] (I.E. Square, Rectangle, Hexagon, etc.) [1] Specify overall total length of fixture in 2', 3', 4', 5' or 6' increments (I.E. S8', S10', S24'). Please provide RCP or sketch of layout to designassist@alights.com for review. [2] Specify overall total length of each section of fixture in 2', 3', 4', 5' or 6' increments (I.E. OP 8'x12', OP 16'x20'). Please provide RCP or sketch of layout to designassist@alights.com for review. [3] Specify overall total length of each section of fixture in in 2', 3', 4', 5' or 6' increments (I.E. CP 36'x42', CP 8x4x8x4) Please provide RCP or sketch of layout to designassist@alights.com for review. **NOTES [1,2]** See additional notes on bottom right of page.	**H** Horizontal Plane Only **V** Vertical Plane Only **C** Combination[1] [1] Including angled planes or a combination of horizontal and vertical planes. Please provide RCP or sketch of layout to designassist@alights.com for review.	**LH** High Output **LS** Standard Output	**27** 2700k **30** 3000k **35** 3500k **40** 4000k

CRI	VOLTAGE	MOUNTING	OPTIC	FINISH	DIMMING	EMERGENCY
_ 80+ CRI **CRI** 90+ CRI	**U** 120-277V	**S** Aircraft cable[1] **S_** Aircraft cable - custom[2] **M** Mix cable lengths[3] [1] 48" cable. Max on site adjustability of 12" (36"-48"). [2] Specify length of cable to the nearest inch. [3] Lengths confirmed during submittal process.	**22** Baffled optic 22° **55** Baffled optic 55° **HE** HE Tech™ **DL** Diffused lens **U** Unlit sections[1] **M** Mixed Optics[2] [1] Unlit sections available in non standard lengths, please contact designassist@alights.com for details. [2] Please provide RCP or sketch of layout to designassist@alights.com for review.	**W** White **B** Black **T** Titanium **O_** Other[1] CBD SFH SPN SDW SCY LME SMN [1] Specify RAL# or other custom color.	**D** Standard 0-10V dimming[1] [1] 1% Dimming standard unless otherwise specified.	**E_** Emergency-Battery[1] [1] Factory provided remote emergency battery pack. Specify desired sections of fixture to be on emergency back up and provide RCP or sketch with layout of emergency sections. See technical data for more information.

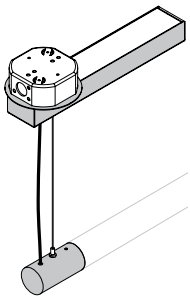
NOTES:

[1] Lit modules are available in nominal 2', 3', 4', 5' and 6' lengths. Alight will determine what combination of these lengths to utilize during the submittal process. For specific lengths contact designassist@alights.com.

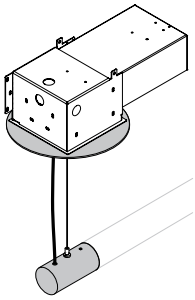
[2] Specified lengths are for the lit modules only. Joiners add additional length to the systems. Reference joiner dimensions on page 5, or contact designassist@alights.com for details.

Project name | Type | Date | Quantities

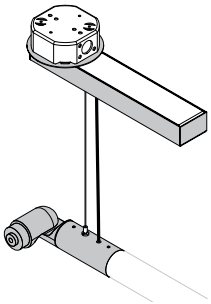
S Starter feed



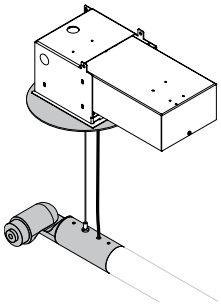
Starter feed straight surface canopy



Starter feed straight recessed box



Starter feed swivel surface canopy



Starter feed swivel recessed box

Standard 120-277V 100W (DC) driver with 0-10V dimming.

Standard suspension 48" field adjustable aircraft cable. Maximum on-site adjustment is 12" (36"-48"). Specify length to the nearest inch if 48" is not suitable. Black power cord provided for black and titanium finishes. White power cord provided for all other fixture finishes unless otherwise specified. Canopy and cover plates standard white, unless otherwise noted.

Surface-mounted canopy: 12.5" x 1.40" x 2.2".
Recessed box: 13"x 6" x 4" with ø9.3" flat cover plate.

L Linear segments

Baffled optic 22° degrees

Baffled optic 55° degrees

HE Tech™

Diffuse Lens

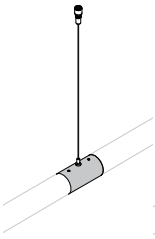
Unlit

Maximum run lengths are calculated by dividing the maximum DC load (100W) by the DC power consumption per foot of each linear segment.

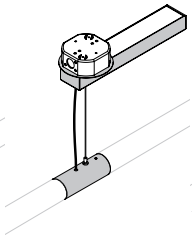
For example, a max of 10 linear feet of the diffuse lens segment at high output can be powered by a single driver: 100W÷10W/ft=10ft. A maximum of 20 linear feet of the same but in standard output can be powered by a single driver: 100W÷5W/ft=20ft.

Combining several linear segments is possible and recommended.

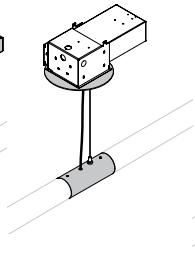
J SW Joiner / Swivel



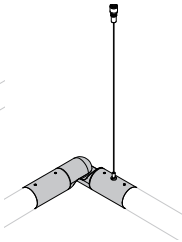
Joiner



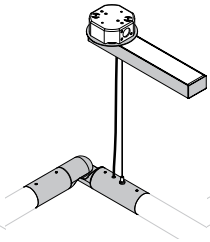
Joiner feed straight, surface canopy



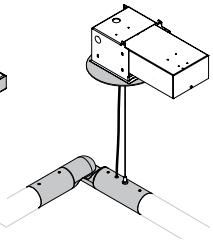
Joiner feed straight, recessed box



Swivel Joiner



Swivel Joiner feed straight, surface canopy



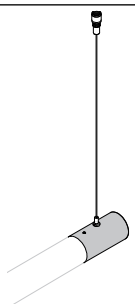
Swivel Joiner feed straight, recessed box

Standard 120-277V 100W (DC) driver with 0-10V dimming.

Standard suspension 48" field adjustable aircraft cable. Maximum on-site adjustment is 12" (36"-48"). Specify length to the nearest inch if 48" is not suitable. Black power cord provided for black and a•lightanium finishes. White power cord provided for all other fixture finishes unless otherwise specified. Canopy and cover plates standard white, unless otherwise noted.

Surface-mounted canopy: 12.5" x 1.40" x 2.2".
Recessed box: 13"x 6" x 4" with ø9.3" flat cover plate.

E End segment



End segment

The end segment is used to complete linear runs.

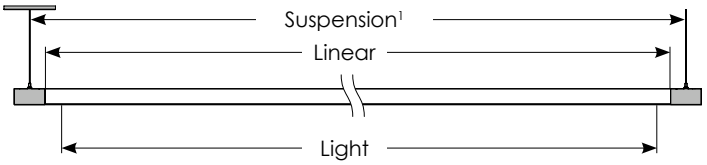
Standard suspension 48" field adjustable aircraft cable. Maximum on-site adjustment is 12" (36"-48"). Specify length to the nearest inch if 48" is not suitable.

Project name | Type | Date | Quantities

Dimensions

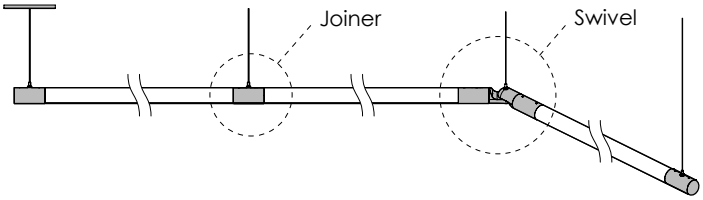
Elements is a simplified product line comprised of 2', 3', 4', 5', and 6' nominal length fixtures that can be joined to create continuous rows or patterns using a joiner or a swivel.

Nominal lengths



[1]Suspension points are calculated between a STRAIGHT STARTER FEED and END SEGMENT/JOINER. For all other configurations, refer to component dimensions below.

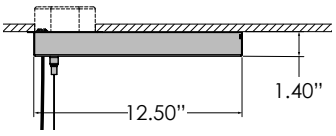
Patterns / Rows



DIMENSIONS			
		HE TECH™ DIFFUSED LENS	BAFFLED OPTIC 22° BAFFLED OPTIC 55°
NOMINAL 2'	SUSPENSION	27.78"	27.78"
	LINEAR	24.06"	24.06"
	LIGHT	24.06"	22.90"
NOMINAL 3'	SUSPENSION	39.78"	39.78"
	LINEAR	36.06"	36.06"
	LIGHT	36.06"	34.35"
NOMINAL 4'	SUSPENSION	51.78"	51.78"
	LINEAR	48.06"	48.06"
	LIGHT	48.06"	45.80"
NOMINAL 5'	SUSPENSION	63.78"	63.78"
	LINEAR	60.06"	60.06"
	LIGHT	60.06	57.25"
NOMINAL 6'	SUSPENSION	75.78"	75.78"
	LINEAR	72.06"	72.06"
	LIGHT	72.06"	68.70"

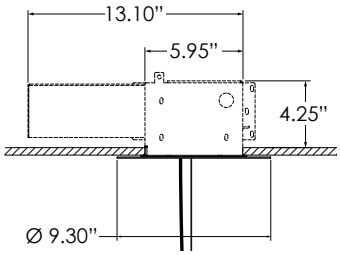
Component dimensions

Surface canopy



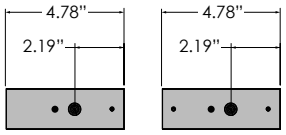
Canopy depth: 2.2"

Recessed box

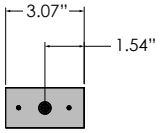


Recessed box depth: 5.95"

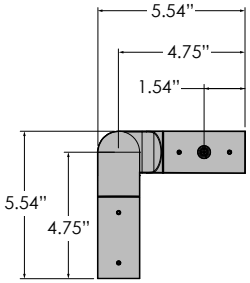
Straight starter/Joiner feed



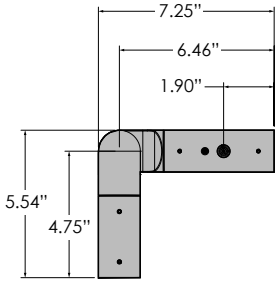
End segment/Joiner



Swivel joiner



Swivel starter/Joiner feed



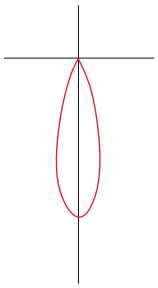
Project name | Type | Date | Quantities

Photometric data

DIRECT SYMMETRIC
LH - 4000K - 22°

Lumens: 877 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 88 lm/W

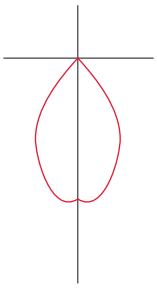
DLH: —



DIRECT SYMMETRIC
LH - 4000K - 55°

Lumens: 714 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 71 lm/W

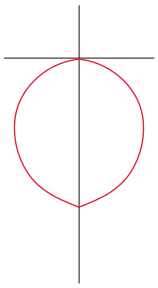
DLH: —



DIRECT SYMMETRIC
LH - 4000K - HE Tech™

Lumens: 745 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 74 Lm/W

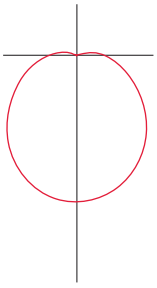
DLH: —



DIRECT SYMMETRIC
LH - 4000K - Diffuse lens

Lumens: 938 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 94 Lm/W

DLH: —



Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY							
				22°		55°		HE TECH		DIFFUSED	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	88 lm/W	72 lm/W	71 lm/W	59 lm/W	74 lm/W	61 lm/W	94 lm/W	77 lm/W
	3500K	1	0.83	86 lm/W	71 lm/W	70 lm/W	58 lm/W	73 lm/W	61 lm/W	92 lm/W	76 lm/W
	3000K	0.97	0.81	83 lm/W	70 lm/W	68 lm/W	57 lm/W	71 lm/W	59 lm/W	89 lm/W	75 lm/W
	2700K	0.94	0.79	81 lm/W	68 lm/W	66 lm/W	55 lm/W	69 lm/W	58 lm/W	86 lm/W	73 lm/W
LS (standard)	4000K	1.02	0.84	88 lm/W	72 lm/W	74 lm/W	61 lm/W	78 lm/W	64 lm/W	98 lm/W	81 lm/W
	3500K	1	0.83	86 lm/W	71 lm/W	73 lm/W	61 lm/W	76 lm/W	63 lm/W	96 lm/W	80 lm/W
	3000K	0.97	0.81	83 lm/W	70 lm/W	71 lm/W	59 lm/W	74 lm/W	62 lm/W	93 lm/W	78 lm/W
	2700K	0.94	0.79	81 lm/W	68 lm/W	69 lm/W	58 lm/W	71 lm/W	60 lm/W	90 lm/W	76 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT							
				22°		55°		HE TECH		DIFFUSED	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LH (high)	4000K	1.02	0.84	877 lm/ft	722 lm/ft	714 lm/ft	588 lm/ft	745 lm/ft	613 lm/ft	938 lm/ft	773 lm/ft
	3500K	1	0.83	860 lm/ft	714 lm/ft	700 lm/ft	581 lm/ft	730 lm/ft	606 lm/ft	920 lm/ft	764 lm/ft
	3000K	0.97	0.81	834 lm/ft	697 lm/ft	679 lm/ft	567 lm/ft	708 lm/ft	591 lm/ft	892 lm/ft	745 lm/ft
	2700K	0.94	0.79	808 lm/ft	679 lm/ft	658 lm/ft	553 lm/ft	686 lm/ft	577 lm/ft	865 lm/ft	727 lm/ft
LS (standard)	4000K	1.02	0.84	439 lm/ft	361 lm/ft	372 lm/ft	307 lm/ft	388 lm/ft	319 lm/ft	490 lm/ft	403 lm/ft
	3500K	1	0.83	430 lm/ft	357 lm/ft	365 lm/ft	303 lm/ft	380 lm/ft	315 lm/ft	480 lm/ft	398 lm/ft
	3000K	0.97	0.81	417 lm/ft	348 lm/ft	354 lm/ft	296 lm/ft	369 lm/ft	308 lm/ft	466 lm/ft	389 lm/ft
	2700K	0.94	0.79	404 lm/ft	340 lm/ft	343 lm/ft	288 lm/ft	357 lm/ft	300 lm/ft	451 lm/ft	379 lm/ft

Project name | Type | Date | Quantities

Maximum run length per power drop

Maximum run lengths are calculated by dividing the maximum DC load (100W) by the DC power consumption per foot of each linear segment. For example, a maximum of 10 linear feet of Diffuse Lens at high output can be powered by a single starter feed: 100W÷10W/ft=10ft.
Combining several linear segments is possible and recommended.

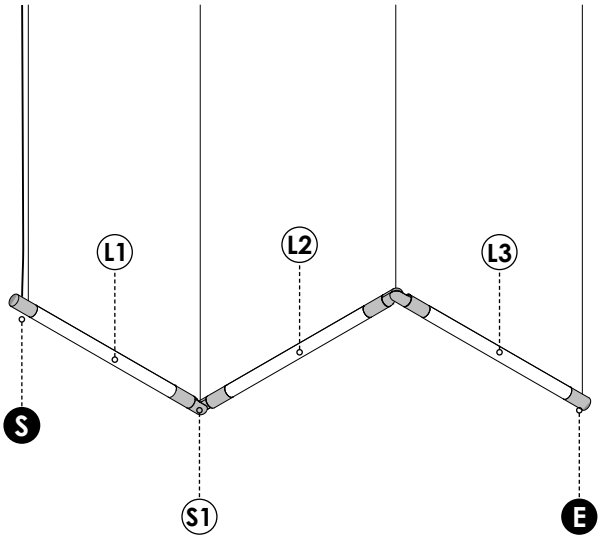
Need several power drops for continuous rows? Have questions?

We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

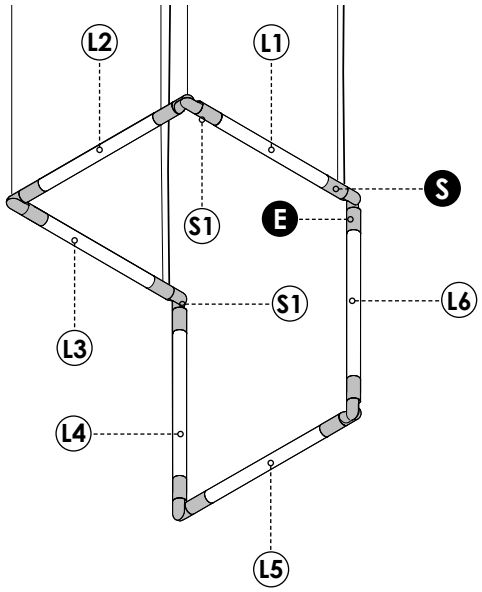
Our Design Assist team (**designassist@alights.com**) is here to make the process move smoothly.

Output	Linear segments	DC Load/FT
LH (high)	Baffled optic 22°	10 W/ft
	Baffled optic 55°	10 W/ft
	Diffused lens	10 W/ft
	HE tech™	10 W/ft
LS (standard)	Baffled optic 22°	5 W/ft
	Baffled optic 55°	5 W/ft
	Diffused lens	5 W/ft
	HE tech™	5 W/ft

Patterns specification guide



Alo-Open Pattern (Z Shape)



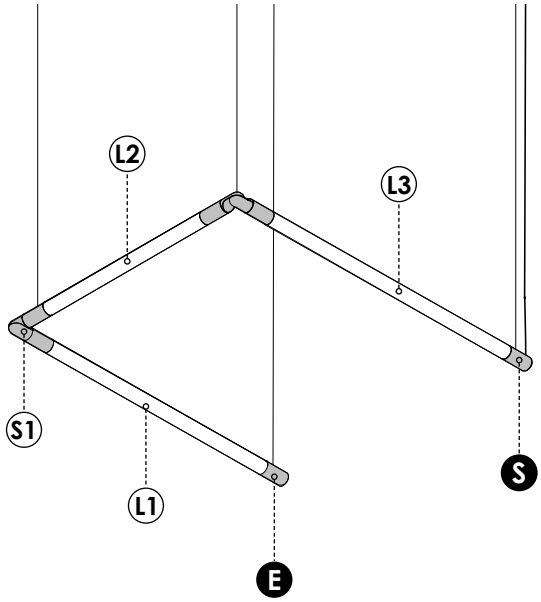
Alo-Closed Pattern (Multiplanar fold)

⚠ **WARNING:** The quantity and type of segments used in the pattern diagrams are for reference only.
Please refer to the specification sheet for power length maximum to validate the quantity of sources for your specific pattern layout.

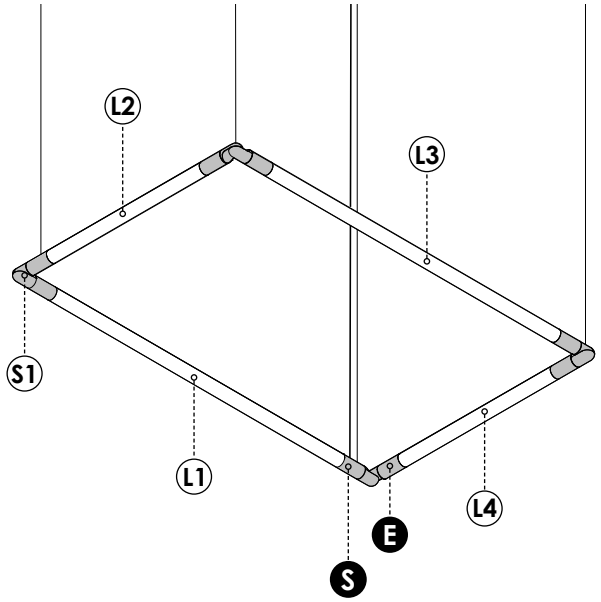
Please consult the factory for design configuration assistance. Our talented Design Assist team (**designassist@alights.com**) is always available for collaboration and specification support.

Project name | Type | Date | Quantities

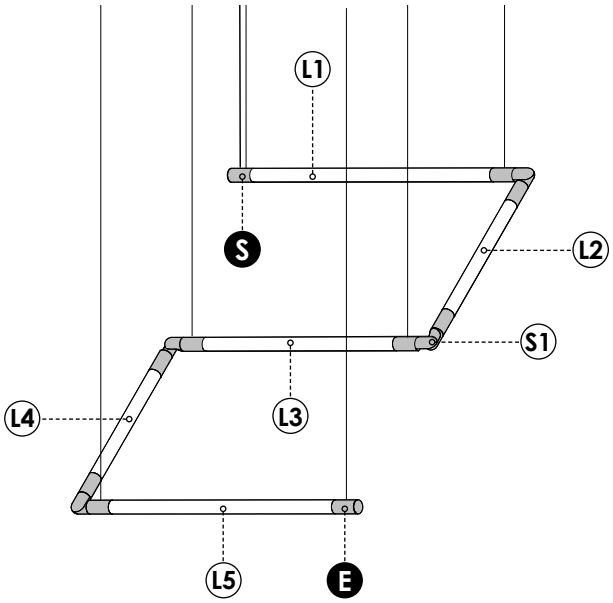
Patterns specification guide



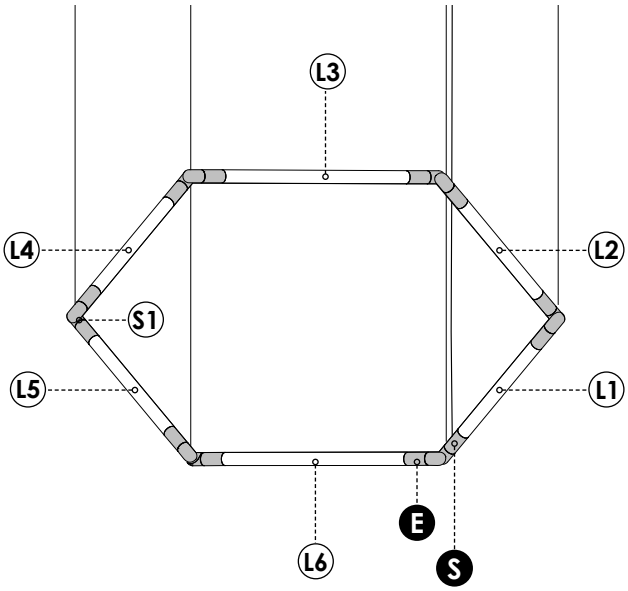
Alo-Open Pattern (U Shape)



Alo-Closed Pattern (Rectangle/Square)



Alo-Open Pattern (S Shape)



Alo-Closed Pattern (Hexagon)

⚠ **WARNING:** The quantity and type of segments used in the pattern diagrams are for reference only.
Please refer to the specification sheet for power length maximum to validate the quantity of sources for your specific pattern layout.

Please consult the factory for design configuration assistance. Our talented Design Assist team (**designassist@alights.com**) is always available for collaboration and specification support.

Project name | Type | Date | Quantities

LINEAR DIMENSIONS
2', 3', 4', 5' and 6' nominal length lit/unlit modules can be joined to create continuous row length or pattern using joiners or swivels.

Custom patterns are possible. Contact Design Assist (**designassist@alights.com**) for modifications to product not detailed within the specification sheets or with help configuring your pattern.

OPTICS
Baffled optic is a custom-designed and manufactured optical system comprised of a Total Internal Reflecting (TIR) optic used in conjunction with a primary light-absorbing baffle. System optics provide high efficiency with a 55° sharp cut-off (half-angle from Nadir), 22° angle and a 55° FWHM angle (full width half maximum).

The high-efficiency extruded diffuse acrylic lens technology, patented HE Tech™, features an integrated opaque white reflector. It delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Diffuse lens is used for a wider lambertian distribution, delivering beautifully refined light with uncompromising performance.

Unlit is an optical option that can be used in combination with lit segments to create unique patterns with or without light.

LED LIGHT SOURCE
Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,0000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with standard 80+ CRI; other color temperatures and 90+ CRI available. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard and High outputs. Refer to photometry for delivered lumens.

LED DIMMING DRIVER
Standard constant voltage 120-277V electronic driver with 0-10V dimming control (dim to off). Max Driver life of 100,000 hrs with ambient operating temperature range of -20°C to 60°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.90, THD 20%, >90% Efficiency.

EMERGENCY
This luminairecan be provided with a remote LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This emergency pack contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to also be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 10W LED load for a period of 90 minutes. Please consult the factory for emergency configuration assistance. Our talented Design Assist team is always available for collaboration and specification support.

MAXIMUM LOAD
Maximum AC load of 120W per driver; Maximum DC load of 100W of installed light sources. This translates to a maximum of 10 linear feet of high output (LH) linear segments or 20 linear feet of standard output (LS) linear segments. Light sources can be mixed on the same driver. Consult the specification guide for more details.

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

MOUNTING
Suspension with aircraft cables includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in the fixture. Surface canopy: 12.5" x 1.40" x 2.2" surface mounted canopy. Recessed box: ø9.3" flat plate with recessed driver box. Cord strain also included. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified. Canopy and cover plates standard white, unless otherwise noted. Consult factory for alternative mounting options.

PLUG & PLAY
Innovative plug and play system for joining segments with a simple click. Easily combine or remove segments, joiners or swivels as needed up to the maximum DC load. All linear segments can be rotated 360° and locked in place as needed using a discreet set screw on the joiner/swivel. Swivels have a horizontal angle of 200°.

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 requirements. Canopy and cover plates standard finish is white, unless otherwise noted.

LISTING
UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.2.

The ALOFT is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA) 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/

Project name | Type | Date | Quantities