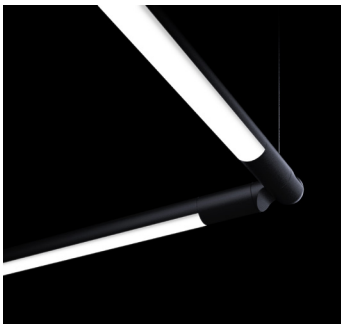
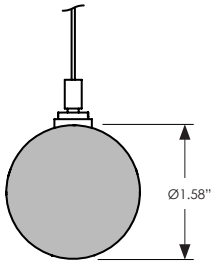




(S) | Aircraft Cable

PROJECT INFORMATION

Project Info	Date
Type	**Quantity**

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.

LIGHT LOSS FACTORS

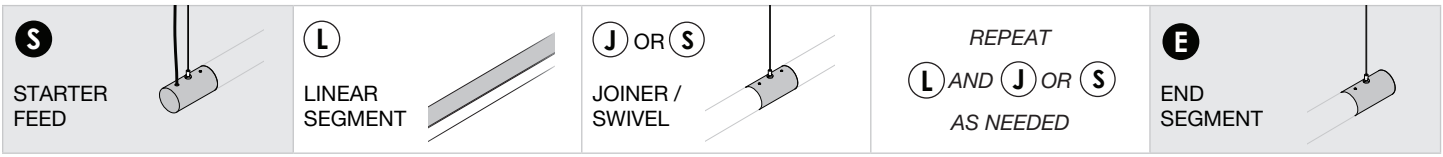
CRI	CCT	FACTOR
80+	4000K	Baseline
80+	3500K	99%
80+	3000K	95%
90+	4000K	83%
90+	3500K	83%
90+	3000K	84%

PERFORMANCE AT 4000K

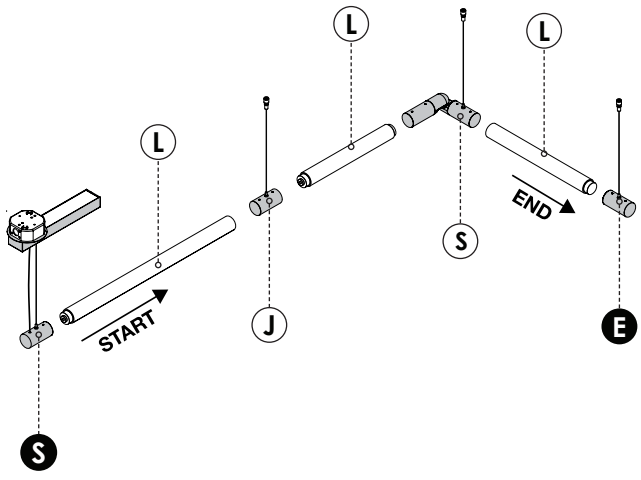
OUTPUT	OPTIC	DELIVERED LM	DC LOAD/FT	EFFICACY
LH (high)	22°	824 lm/ft	10 W/ft	82 lm/W
	55°	702 lm/ft	10 W/ft	70 lm/W
	HE	730 lm/ft	10 W/ft	73 lm/W
	DL	920 lm/ft	10 W/ft	92 lm/W

OUTPUT	OPTIC	DELIVERED LM	DC LOAD/FT	EFFICACY
LS (standard)	22°	428 lm/ft	5 W/ft	86 lm/W
	55°	365 lm/ft	5 W/ft	73 lm/W
	HE	379 lm/ft	5 W/ft	76 lm/W
	DL	478 lm/ft	5 W/ft	96 lm/W

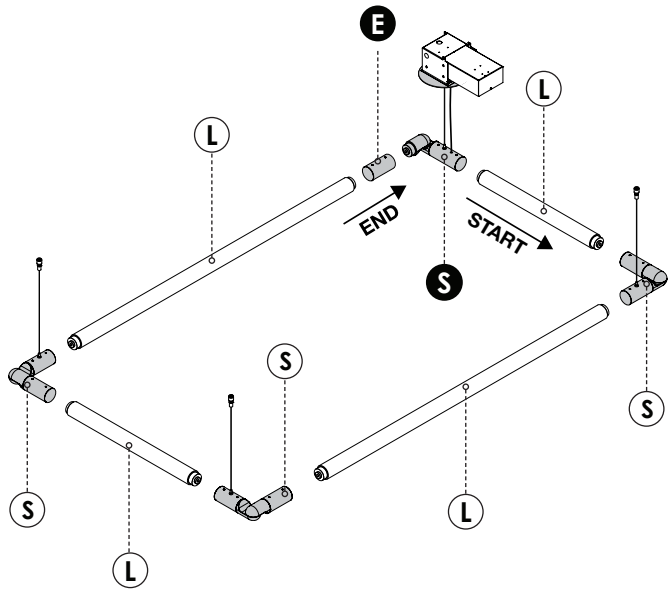
CUSTOM PATTERN ORDERING STEPS



OPEN PATTERN EXAMPLE:



CLOSED PATTERN EXAMPLE:



OPEN PATTERN ORDER SEQUENCE:

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

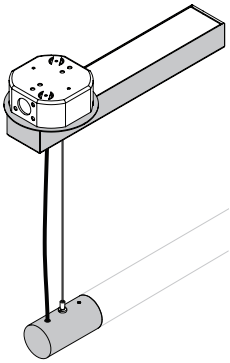
The open shape pattern
An open shape pattern always consists of a [S] starter feed straight, continued by a succession of [L] linear segments and [J] joiners or [S] swivels, and finishes with an [E] end segment.

CLOSED PATTERN ORDER SEQUENCE:

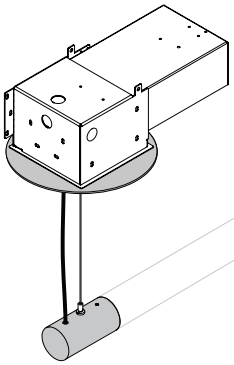
S + L + S + L + S + L + S + L + E

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 [S] joiners/swivels to finish with an [E] end joiner matching the starter feed swivel.

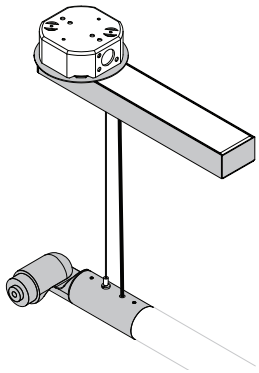
S STARTER FEED



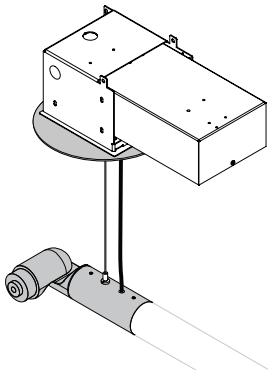
Starter feed straight surface canopy



Starter feed straight recessed box



Starter feed swivel surface canopy



Starter feed swivel recessed box

ALO		
SERIES	**STARTER FEED**	**FINISH**
ALO	**SC** Starter feed straight, surface canopy **RC** Starter feed straight, recessed box **SWSC** Starter feed swivel, surface canopy **SWRC** Starter feed swivel, recessed box *Aircraft cable mount	**T** a•lightanium™* **W** White* **B** Black* **O_** Other** *Applies to fixture. Standard canopy and cover are white **Specify RAL#

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

Standard suspension 48" field adjustable aircraft cable. Specify length to the nearest inch if over 48". Black power cord provided for satin black and a•lightanium finishes. White power cord provided for all other fixture finishes unless otherwise specified. Canopy and cover plates standard white.

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

No light

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

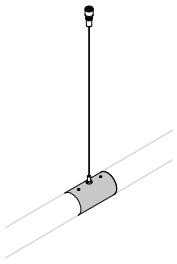
For example, a maximum of 10 linear feet of diffuse lens at high output can be powered by a single driver: 100W÷10W/ft=10ft.

Combining several linear segments is possible and recommended.

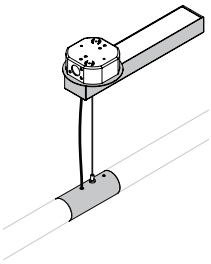
ALO				
SERIES	**LENGTH**	**OUTPUT**	**LED CCT**	**VOLTAGE**
ALO	**2** Nominal 2' **4** Nominal 4' **6** Nominal 6'	**LH** LED high output* **LS** LED standard output** *Max 10ft per driver **Max 20ft per driver	**30** 3000K **35** 3500K **40** 4000K	**U** 120V-277V

OPTICS	**FINISH**	**DIMMING**	**EMERGENCY**	**OPTIONS**
22 Baffled optic 22° **55** Baffled optic 55° **HE** HE Tech™ **DL** Diffuse lens **N** No light	**T** a•lightanium™ **W** White **B** Black **O_** Other* *Specify RAL#	**D** 0-10 dimming* *Minimum dimming 1%	**E_** Emergency - battery* *Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available for 347V. See technical data for more information.	**CRI** 90+

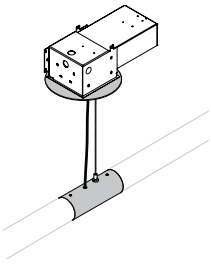
(J) (S) JOINER / SWIVEL



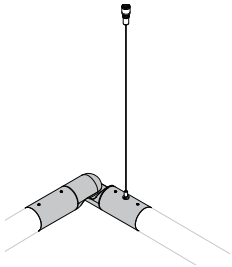
Joiner



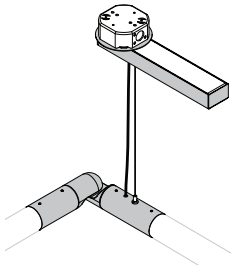
Joiner feed straight, surface canopy



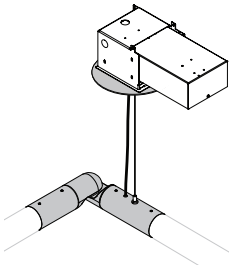
Joiner feed straight, recessed box



Swivel Joiner



Swivel Joiner feed straight, surface canopy



Swivel Joiner feed straight, recessed box

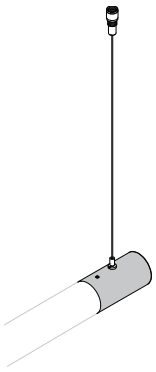
ALO		
SERIES	**JOINER / SWIVEL**	**FINISH**
ALO	**J** Joiner **JS** Joiner feed straight, surface canopy **JR** Joiner feed straight, recessed box **SW** Swivel Joiner **JWSC** Swivel Joiner feed straight, surface canopy **JWRC** Swivel Joiner feed straight, recessed box *Aircraft cable mount	**T** a•lightanium™ **W** White **B** Black **O_** Other* *Specify RAL#

Joiner/Swivel options connect linear segments for continuous rows or patterns.

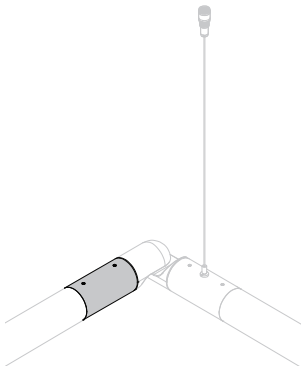
For rows requiring more than one feed, powered Joiner/ Swivel options are available with universal 120V-277V and standard 0-10V dimming.

Please consult factory regarding large patterns with multiple power drops.

(E) END SEGMENT



End segment



End joiner

ALO		
SERIES	**END CAP**	**FINISH**
ALO	**EC** End segment **EJ** End joiner	**T** a•lightanium™ **W** White **B** Black **O_** Other* *Specify RAL#

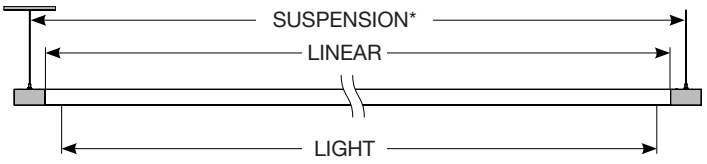
End segment is used to complete linear runs.

End joiner is used to complete a closed pattern beginning with a starter feed swivel.

ELEMENTS & DIMENSIONS

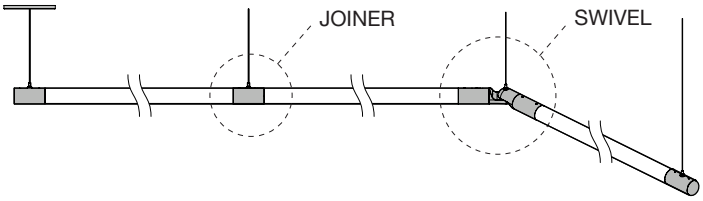
Elements is a simplified product line comprised of 2', 4' and 6' nominal length fixtures that can be joined to create continuous rows or patterns using a joiner or a swivel.

NOMINAL LENGTHS



*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	27.75"	27.75"
	LINEAR	24.06"	24.06"
	LIGHT	24.06"	22.90"
NOMINAL 4'	SUSPENSION	51.75"	51.75"
	LINEAR	48.06"	48.06"
	LIGHT	48.06	45.80"
NOMINAL 6'	SUSPENSION	77.76"	77.76"
	LINEAR	72.06"	72.06"
	LIGHT	72.06"	68.70"

MAXIMUM RUN LENGTH PER POWER DROP

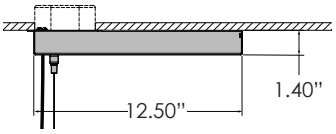
Maximum run lengths are calculated by dividing the maximum DC load (100W) by the DC power consumption per foot of each linear segments. For example, a maximum of 10 linear feet of Diffuse Lens at high output can be powered by a single starter feed: 100W÷10W/ft=10ft. Combining several linear segments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

OUTPUT	LINEAR SEGMENTS	DC LOAD/FT
LH HIGH OUTPUT	Baffled optic 22°	10 W/ft
	Baffled optic 55°	10 W/ft
	Diffused lens	10 W/ft
	HE tech™	10 W/ft
LS STANDARD OUTPUT	Baffled optic 22°	5 W/ft
	Baffled optic 55°	5 W/ft
	Diffused lens	5 W/ft
	HE tech™	5 W/ft

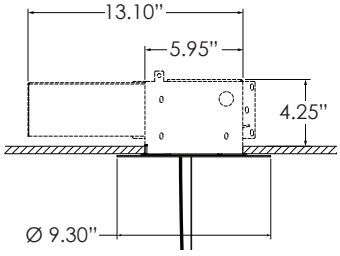
COMPONENT DIMENSIONS

SURFACE CANOPY



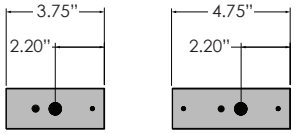
Canopy depth: 2.2"

RECESSED BOX

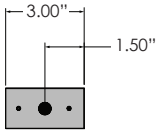


Recessed box depth: 5.95"

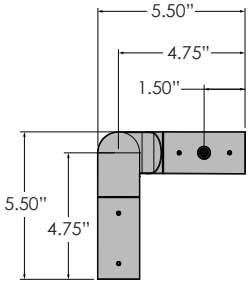
STRAIGHT STARTER/JOINER FEED



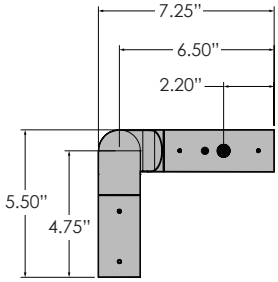
END SEGMENT/JOINER



SWIVEL JOINER



SWIVEL STARTER/JOINER FEED



LIGHT DISTRIBUTION

DISTRIBUTION

Direct Asymmetric

OUTPUT (DC)

LH: High output - 10 W/ft
LS: Standard output - 5 W/ft

LIGHT LOSS FACTORS (LLF)

CRI	CCT	FACTOR
80+	4000K	Baseline
80+	3500K	99%
80+	3000K	95%
90+	4000K	83%
90+	3500K	83%
90+	3000K	84%

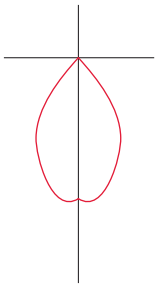
Factors above for high output (LH).
For standard output (LS) -50%.

PHOTOMETRIC DATA

DIRECT ASYMMETRIC
LH - 4000K - 55°

Lumens: 702 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 70 lm/W

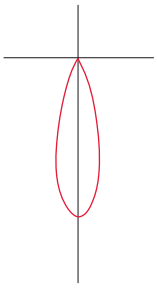
DLH: ———



DIRECT ASYMMETRIC
LH - 4000K - 22°

Lumens: 824 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 82 lm/W

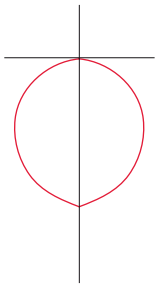
DLH: ———



DIRECT ASYMMETRIC
LH - 4000K - HE Tech™

Lumens: 730 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 73 lm/W

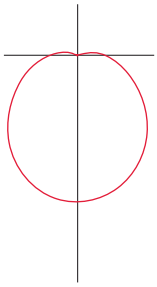
DLH: ———

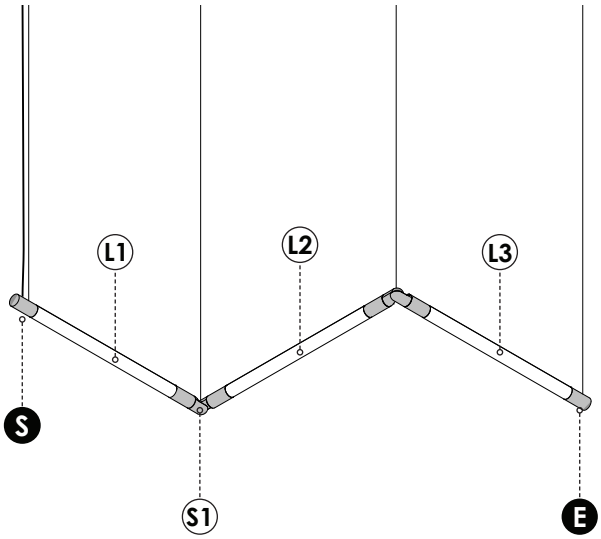


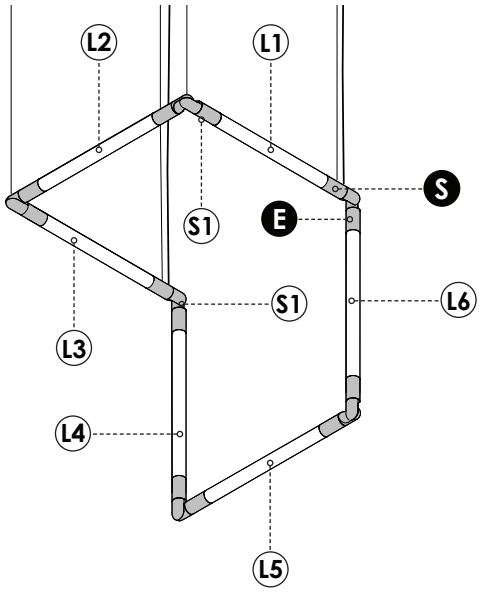
DIRECT ASYMMETRIC
LH - 4000K - Diffuse lens

Lumens: 920 lm/ft
Input watts: 10 W/ft (DC)
Efficacy: 92 lm/W

DLH: ———







ALOZ

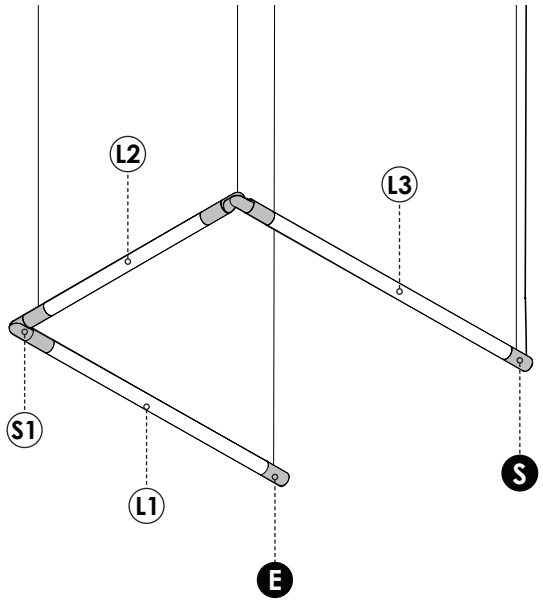
- **S** 1X - ALO ___C ____
- **L1** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 2X - ALOSW ____
- **L2** 1X - ALO____ ____ ____ U ____ ____ D
- **L3** 1X - ALO____ ____ ____ U ____ ____ D
- **E** 1X - ALOEC ____

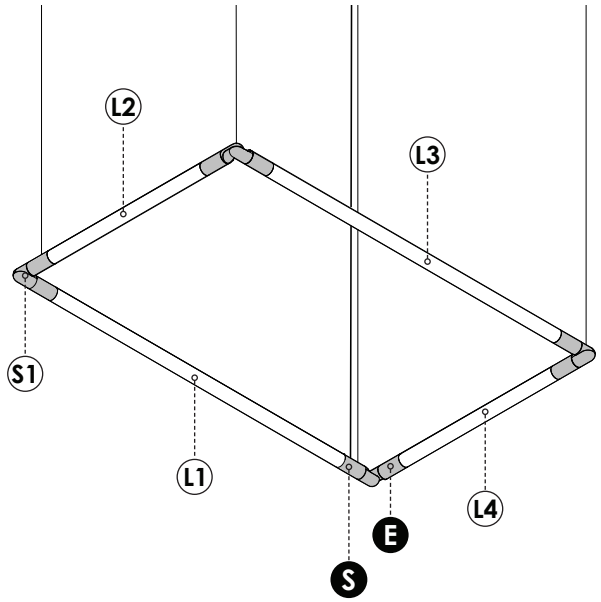
ALOW

- **S** 1X - ALOSW____ ____
- **L1** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 4X - ALOSW ____
- **L2** 1X - ALO ____ ____ ____ U ____ ____ D
- **L3** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 1X - ALOJW____ ____
- **L4** 1X - ALO ____ ____ ____ U ____ ____ D
- **L5** 1X - ALO ____ ____ ____ U ____ ____ D
- **L6** 1X - ALO ____ ____ ____ U ____ ____ D
- **E** 1X - ALOEJ ____

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

Please consult factory for design configuration assistance. Our talented Design Assist team is always available for collaboration and specification support.





ALOU

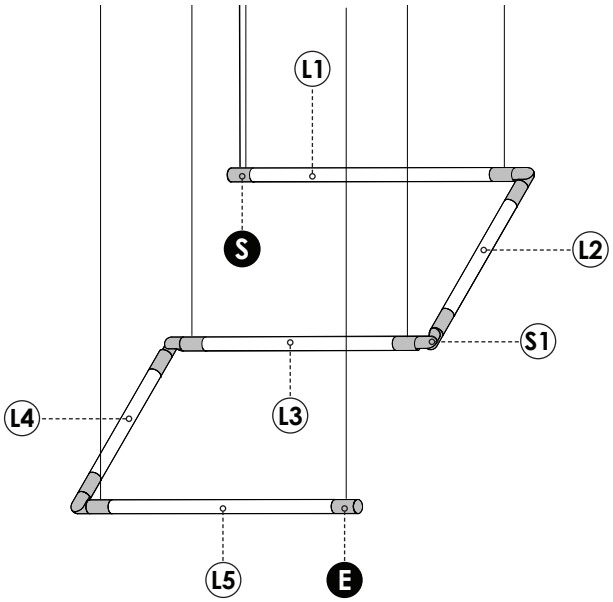
- **S** 1X - ALO ___C ____
- **L1** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 2X - ALOSW ____
- **L2** 1X - ALO____ ____ ____ U ____ ____ D
- **L3** 1X - ALO____ ____ ____ U ____ ____ D
- **E** 1X - ALOEC ____

ALOQ

- **S** 1X - ALOSW____ ____
- **L1** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 3X - ALOSW ____
- **L2** 1X - ALO____ ____ ____ U ____ ____ D
- **L3** 1X - ALO____ ____ ____ U ____ ____ D
- **L4** 1X - ALO____ ____ ____ U ____ ____ D
- **E** 1X - ALOEC ____

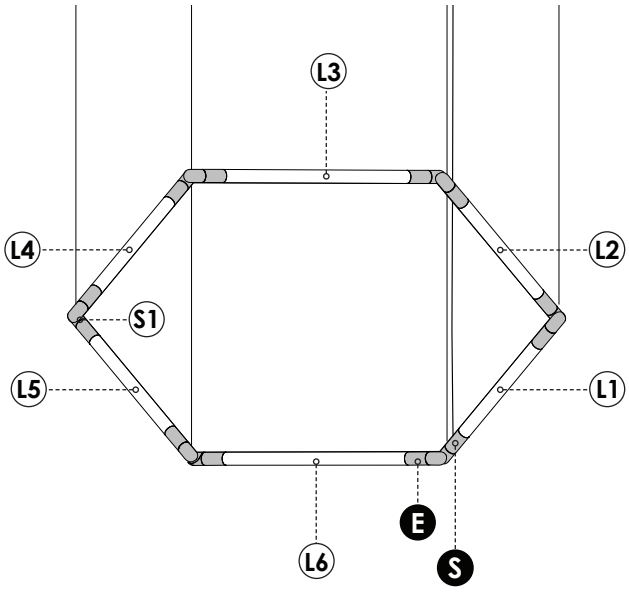
⚠ **WARNING:** The quantity and type of segments used in the pattern diagrams are for reference only.
Please refer to specification sheet for power length maximum to validate quantity of sources for your specific pattern layout.

Please consult factory for design configuration assistance. Our talented Design Assist team is always available for collaboration and specification support.



ALOH

- **S** 1X - ALO ___C ____
- **L1** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 4X - ALOSW ____
- **L2** 1X - ALO____ ____ ____ U ____ ____ D
- **L3** 1X - ALO____ ____ ____ U ____ ____ D
- **L4** 1X - ALO ____ ____ ____ U ____ ____ D
- **L5** 1X - ALO ____ ____ ____ U ____ ____ D
- **E** 1X - ALOEC ____



ALOH

- **S** 1X - ALOSW____ ____
- **L1** 1X - ALO ____ ____ ____ U ____ ____ D
- **S1** 5X - ALOSW ____
- **L2** 1X - ALO ____ ____ ____ U ____ ____ D
- **L3** 1X - ALO ____ ____ ____ U ____ ____ D
- **L4** 1X - ALO ____ ____ ____ U ____ ____ D
- **L5** 1X - ALO ____ ____ ____ U ____ ____ D
- **L6** 1X - ALO ____ ____ ____ U ____ ____ D
- **E** 1X - ALOEJ ____

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

Please consult factory for design configuration assistance. Our talented Design Assist team is always available for collaboration and specification support.

LINEAR DIMENSIONS

Elements of 2', 4' and 6' nominal length individual fixtures that can be joined to create continuous row lengths or patterns using joiners or swivels.

Custom patterns are possible. Contact Design Assist 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.

HE Tech™ patented high efficacy extruded diffuse acrylic lens technology 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.

No light 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. 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 luminaire is provided with a 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 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 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 specification guide for more details.

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 a·lightanium finish, white power cord provided for all other fixture finishes unless otherwise specified. 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, joiner 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 an horizontal angle of 200°.

STRUCTURE

Robust, high quality 60% recycled aluminum extruded housing. Machined aluminum joiners and precision die-casted aluminum swivels. 1 lbs/ft approximate fixture weight.

FINISH

Electrostatically applied powder coat finish. Standard finish options include alightanium™, 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.

LISTING

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

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years. Please refer to full terms and conditions on our website.