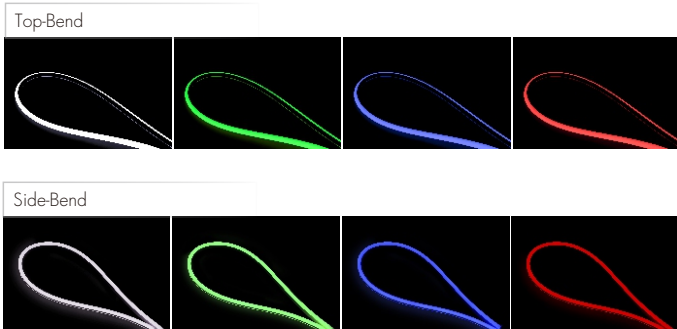


NEON DOME SERIES | Top Bend or Side Bend LED Flexible Strip



Application

This flexible, high efficacy strip is ideal for direct-view architectural lighting applications including hotels, gardens, bridges, corridors, ceilings, stairwells, pathways, signage; and decorative displays including showcases, advertising, and display boards.

Dome Series

Direct-view, Neon dome-lens LED strip in an economical, high-performance compact form that boasts a (Top or Side Bend) with a wide viewing angle and is IP65 rated for indoor or outdoor wet locations. With 36 LEDs per foot, the Dome Series is high density and has high efficiency.

Features

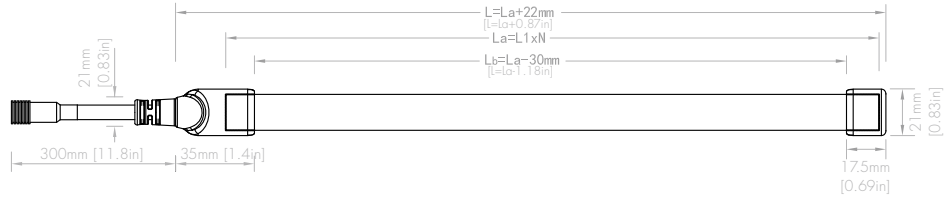
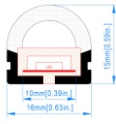
- Uniform, dot-free dome profile with a wide beam angle
- Direct-view Top or Side bend
- Available in 2700k, 3000k, 3500k, 4000k, 5000k, and 6500k Red, Green, Blue, Pink, Amber, RGB
- 80CRI
- Lumen Output - Variable
- Able to be free-cut
- Advanced silicone extrusion technology resulting in a high grade appearance, soft bend flexibility, strong impact resistance, and high weather resistance.
- UL listed for indoor dry (IP40) / outdoor wet locations (IP65)
- Easy Installation with clips, channels, or brackets.
- 50,000 hours rated lifespan, 5 year warranty

The FSDS is easily customizable with free-cutting for simple installation and a perfect fit. The FSDS has multiple feed location options and multiple mounting options, including bendable aluminum channel, making it perfect for many different applications, and can additionally be fabricated to the specifications of your project.

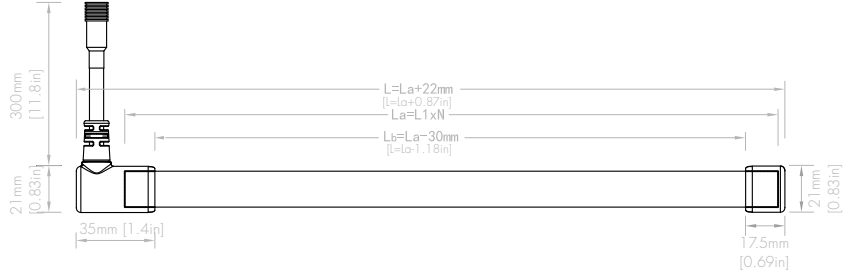
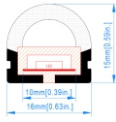


TOP BEND - FIELD ASSEMBLY WITH SNAP CONNECTION

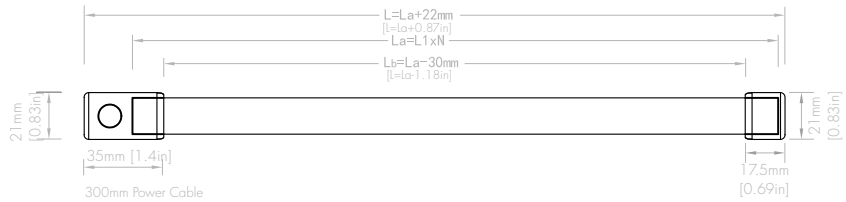
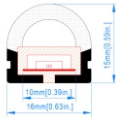
Power Rear Feed



Power Side Feed

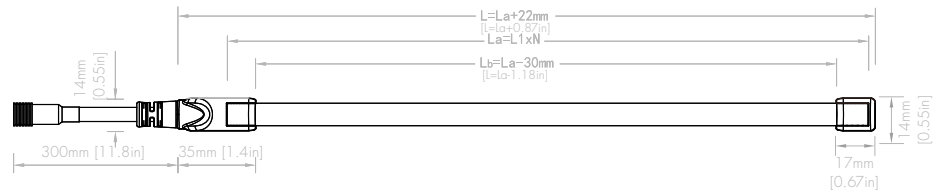
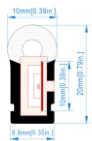


Power Bottom Feed

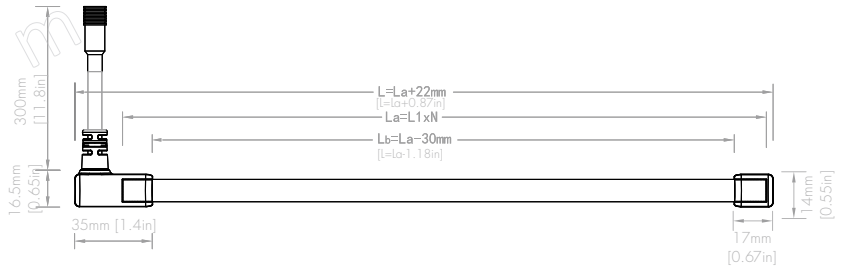
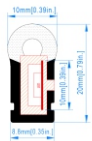


SIDE BEND - FIELD ASSEMBLY WITH SNAP CONNECTION

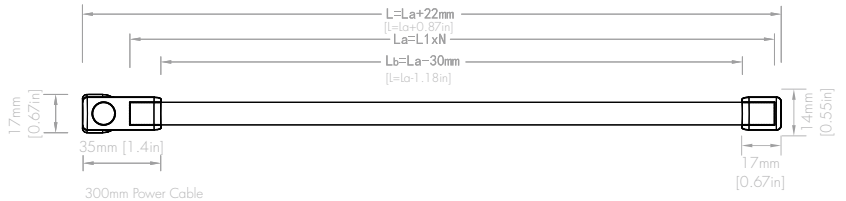
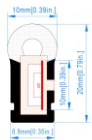
Power Rear Feed



Power Side Feed

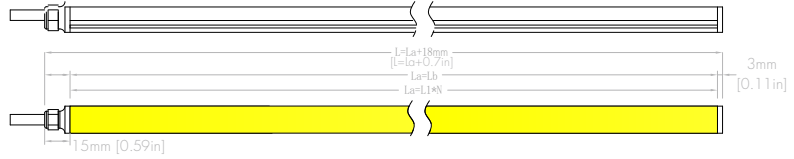
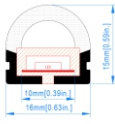


Power Bottom Feed

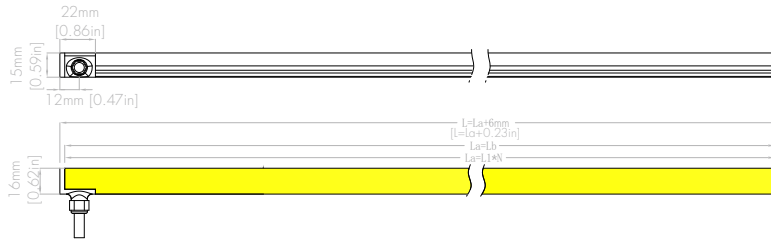
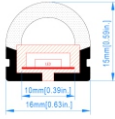


TOP BEND - FACTORY ASSEMBLY WITH DIE CAST TERMINAL

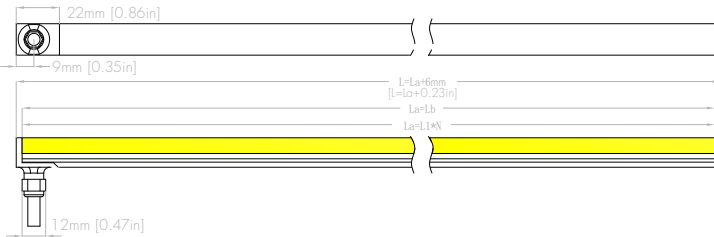
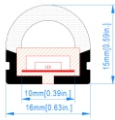
Power Rear Feed



Power Side Feed

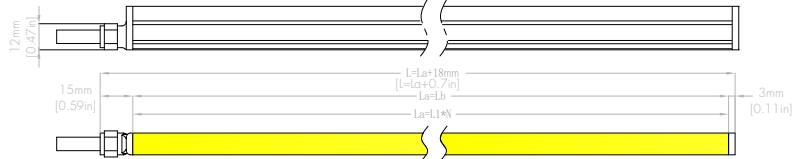
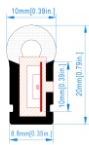


Power Bottom Feed

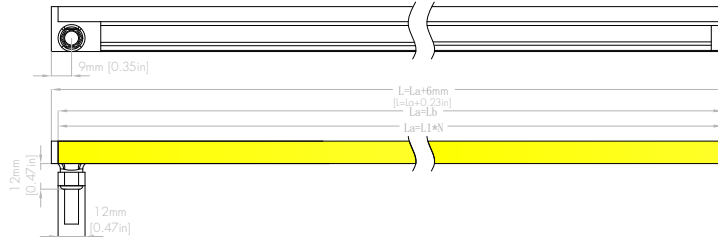
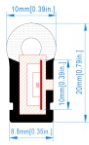


SIDE BEND - FACTORY ASSEMBLY WITH DIE CAST TERMINAL

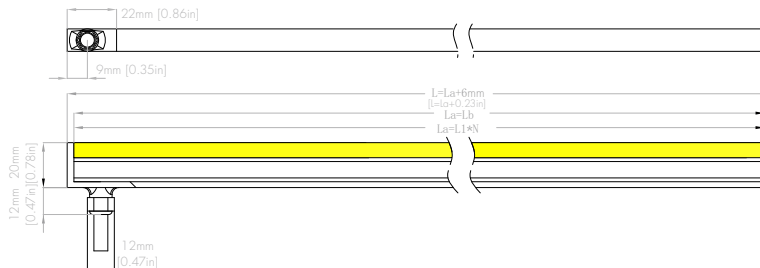
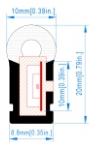
Power Rear Feed



Power Side Feed



Power Bottom Feed



General Parameters

Product No.	Style	Dimension	Max. Run Length (L _a) & Max. Shipping Length	Min. Unit (L1)	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
FSDS-T-xxK	Top-Bend (White)	W16xH15mm [W0.62xH0.6in.]	5M [16.4ft.] & 50M [164ft.]	Free Cutting to be any length	SMD2835	120LED/M [36LED/ft.]				
			10M [32.8ft.] & 50M [164ft.]							
			20M [65.6ft.] & 50M [164ft.]							
FSDS-THB-xxK	Top-Bend (White:High-Brightness)		5M [16.4ft.] & 50M [164ft.]	50mm [1.97in.]	SMD2835	140LED/M [43LED/ft.]				
FSDS-S-xxK	Side-Bend (White)	W10xH20mm [W0.4xH0.8in.]	5M [16.4ft.] & 50M [164ft.]	Free Cutting to be any length	SMD2835	120LED/M [36LED/ft.]	IP65 (with gluing process) IP40 (without gluing process) & IK06	T _a : -20~45°C [-4~113°F]	50,000h (White/ Colorful/ RGB) (L70@ T _c ≤65°C[149°F]) T _c is the temp. of LED pin.)	5 years (White/ Colorful/ RGB)
			10M [32.8ft.] & 50M [164ft.]							
			20M [65.6ft.] & 50M [164ft.]							
FSDS-SHB-xxK	Side-Bend (White:High-Brightness)		5M [16.4ft.] & 50M [164ft.]	50mm [1.97in.]	SMD3014	140LED/M [43LED/ft.]				
FSDS-T-xxK	Top-Bend (Red/Green/Blue/ Pink/Amber)	W16xH15mm [W0.62xH0.6in.]	10M [32.8ft.] & 50M [164ft.]	50mm [1.97in.]	SMD3528	120LED/M [36LED/ft.]				
			20M [65.6ft.] & 50M [164ft.]							
FSDS-S-xxK	Side-Bend (Red/Green/Blue/ Pink/Amber)	W10xH20mm [W0.4xH0.8in.]	10M [32.8ft.] & 50M [164ft.]	50mm [1.97in.]	SMD3528	120LED/M [36LED/ft.]				
			20M [65.6ft.] & 50M [164ft.]							
FSDS-T-RGB	Top-Bend (RGB)	W16xH15mm [W0.62xH0.8in.]	5M [16.4ft.] & 50M [164ft.]	50mm [1.97in.]	SMD4040	120LED/M [36LED/ft.]				
FSDS-S-RGB	Side-Bend (RGB)	W10xH20mm [W0.4xH0.8in.]	5M [16.4ft.] & 50M [164ft.]							

General Parameters

Photoelectric Parameters

Product No.	Style	Power $\pm 10\%$	Operating Voltage	Finished Product CCT/ Wavelength	CRI80, 2700K		CRI90, 2700K	Beam Angle				
					Luminous Flux $\pm 10\%$	Light Efficiency	Luminous Flux $\pm 10\%$					
FSDS-T-xxK	Top-Bend (White)	14W/M [4.27W/ft.]	24VDC	2700K $\pm 120K$ 3000K $\pm 150K$ 3500K $\pm 300K$ 4000K $\pm 300K$ 5000K $\pm 400K$ 6000K $\pm 500K$	CRI80, 2700K		CRI90, 2700K	120°/180°				
		9W/M [2.74W/ft.]			890lm/M [271lm/ft.]							
		4W/M [1.22W/ft.]			580lm/M [177lm/ft.]							
FSDS-THB8-xxK FSDS-THB6-xxK	Top-Bend (White:High-Brightness)	14W/M [4.27W/ft.]			620~630nm	520~530nm	1400lm/M [430lm/ft.]	100lm/W		120°/160°		
		14W/M [4.27W/ft.]					385lm/M [117lm/ft.]					
FSDS-S-xxK	Side-Bend (White)	9W/M [2.74W/ft.]					250lm/M [76lm/ft.]	110lm/M [34lm/ft.]	800lm/M [240lm/ft.]		120°/180°	
		4W/M [1.22W/ft.]								110lm/M [34lm/ft.]		
FSDS-SHB-xxK	Side-Bend (White:High-Brightness)	14W/M [4.27W/ft.]										
FSDS-T-R	Top-Bend (Red)	9W/M [2.74W/ft.]					200lm/M [61lm/ft.]	100lm/M [30lm/ft.]	110lm/M [34lm/ft.]	60lm/M [18lm/ft.]		120°/180°
		4W/M [1.22W/ft.]										
FSDS-S-R	Side-Bend (Red)	9W/M [2.74W/ft.]		500lm/M [152lm/ft.]			223lm/M [68lm/ft.]	250lm/M [76lm/ft.]	120lm/M [37lm/ft.]		120°/160°	
		4W/M [1.22W/ft.]										
FSDS-T-G	Top-Bend (Green)	9W/M [2.74W/ft.]		460~470nm			120lm/M [37lm/ft.]	64lm/M [20lm/ft.]	60lm/M [18lm/ft.]		120°/180°	
		4W/M [1.22W/ft.]										
FSDS-S-G	Side-Bend (Green)	9W/M [2.74W/ft.]		310lm/M [95lm/ft.]	145lm/M [44lm/ft.]	109lm/M [33lm/ft.]	51lm/M [16lm/ft.]		120°/160°			
		4W/M [1.22W/ft.]										
FSDS-T-B	Top-Bend (Blue)	9W/M [2.74W/ft.]		580lm/M [177lm/ft.]	264lm/M [80lm/ft.]	203lm/M [62lm/ft.]	92lm/M [28lm/ft.]		120°/180°			
		4W/M [1.22W/ft.]										
FSDS-S-B	Side-Bend (Blue)	9W/M [2.74W/ft.]		14W/M [4.27W/ft.]	380lm/M [116lm/ft.]	150lm/M [46lm/ft.]		120°/160°				
		4W/M [1.22W/ft.]										
FSDS-T-P	Top-Bend (Pink)	9W/M [2.74W/ft.]										
		4W/M [1.22W/ft.]										
FSDS-S-P	Side-Bend (Pink)	9W/M [2.74W/ft.]										
		4W/M [1.22W/ft.]										
FSDS-T-A	Top-Bend (Amber)	9W/M [2.74W/ft.]										
		4W/M [1.22W/ft.]										
FSDS-S-A	Side-Bend (Amber)	9W/M [2.74W/ft.]										
		4W/M [1.22W/ft.]										
FSDS-T-RGB	Top-Bend (RGB)	R:620-630nm G:520-530nm B:460-470nm										
FSDS-S-RGB	Side-Bend (RGB)	R:620-630nm G:520-530nm B:460-470nm										

Note:

- (1) Luminous flux for CCT 3000K is 5% higher, for CCT 3500K/4000K is 8% higher, for CCT 5000K/6500K is 10% higher, compared with 2700K.
- (2) The Max. Length (La) is defined as power fed on one side, following the arrow mark printed on FPC.
- (3) The power of the strip need to be reduced to 9W/M[2.74W/ft.]@White for operating ambient temperature in -20~55° C[-4~131°F].

Specifications and Performance (Static Colors)

	FSDS - Top Bend	FSDS - Side Bend	FSDS - Top Bend High Brightness	FSDS - Side Bend High Brightness
Watts per Foot	4.27	4.27	4.27	4.27
Max Run Length	16.4ft	16.4ft	16.4ft	16.4ft
Cuttable	Free-Cutting (White); Per 1.97" (Red, Green ,Blue, Pink, Amber, RGB)			
Lumens per Foot	271lm	271lm	430lm(120/180Degree) 117lm (120/160Degree)	240lm
Lumens per Watt	121lm/w	121lm/w	100lm/w (120/180 Degree) 27.4lm/w (120/160 Degree)	56.2lm/w
Input Voltage	24vdc			
Beam Spread	120°			
CRI	80+, 90+			
LED Lifespan	L70 ≥50,000 @ Tc ≤ 65			
Dimming	0-10V, MLV, ELV			
Dimensions	IP67 (0.47" X 0.21")			
CCT	2700k, 3000k, 3500k, 4000k, 5000k, 6500k, Red, Green, Blue, Pink, Amber, RGB			
Operating Temp	-4°F to 113°F (-20°C to 45°C)			
Ambient Temp	-4°F to 113°F (-20°C to 45°C)			
Environment	IP40, IP67, IK06			
Warranty	5 Year - 50,000 Life Hours			
Certifications	CE, UL, CB, SAA, RoHS			
LEDs/ft	36 LED's/ ft			
SCDM	3 Step			
Adhesive	3M Adhesive Backing			



FSDS DOME SERIES ORDERING INFORMATION

Ordering

Example: FSDS-T-35K-32-IP67-80

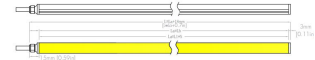
STATIC WHITE

For Custom Length Selection, Orders can take 4-6 weeks for Processing and Delivery

Part No.	Bend Direction		Power Level		Color Temp		Length		IP Rating	
FSDS	T S	Top Bend	L	1.22W/FT	27	2700k	16	16.4ft	IP40	Indoor
		Side Bend Top								
	THB8	180D High Brightness	M	2.74W/FT	35	3500k	CU	Custom Length*	IP65	Outdoor
		Top 160D High Brightness								
THB6	Top 160D High Brightness	H	4.27W/FT*	50	5000k	R	G	B	P	A
	Side High Brightness									
SHB	Side High Brightness			*Only Available In Static White	65	6500k				
						Red				
						Green				
						Blue				
						Pink				
						Amber				
						RGB				
						RGB				

FS-FSDS-T-EPF
FS-FSDS-S-EPF

Top Bend Edge Side Power Feed, 11.8" Lead w/Front & End Cap
Side Bend Edge Side Power Feed, 11.8" Lead w/Front & End Cap



FS-FSDS-T-TPF
FS-FSDS-S-TPF

Top Bend Tail Side Power Feed, 11.8" Lead w/Front & End Cap
Side Bend Tail Side Power Feed, 11.8" Lead w/Front & End Cap



FS-FSDS-T-BPF
FS-FSDS-S-BPF

Top Bend Bottom Side Power Feed, 11.8" Lead w/Front & End Cap
Side Bend Bottom Side Power Feed, 11.8" Lead w/Front & End Cap



FS-FSDS-T-A-BRKT

Top Bend Qty. 2 U-Shaped Mounting Brackets with Screws (Recommended 1 set per 39")



FS-FSDS-S-A-BRKT

Side Bend Qty. 2 U-Shaped Mounting Brackets with Screws (Recommended 1 set per 39")



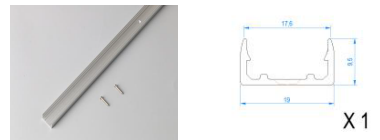
FS-FSDS-T-A-CLIP

Top Bend Qty. 2 U-Shaped Mounting Clips with Screws (Recommended 1 set per 39")



FS-FSDS-S-A-CLIP

Side Bend Qty. 2 U-Shaped Mounting Clips with Screws (Recommended 1 set per 39")



FS-FSDS-T-AL-SCH

Top Bend Aluminum Channel (37" Section) with Screws

FS-FSDS-S-AL-SCH

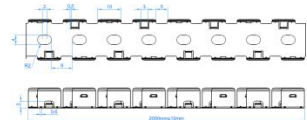
Side Bend Aluminum Channel (37" Section) with Screws

FS-FSDS-T-AL-FDBCH

Top Bend, Bendable Aluminum Profile (39" Section) with Screws

FS-FSDS-S-AL-FDBCH

Side Bend, Bendable Aluminum Profile (39" Section) with Screws



FSDS ACCESSORIES

Style	Power Feed Method	Power Feeder Cable To PSU	Power Feeder Cable To Luminary	Front Cap	Jumper	Split Joint	End Cap	Mounting Method	Glue
Top-Bend	Rear feed		0.3M[1ft] waterproof cable with female plug	Rear feed	0.3/1.2/2.4M [1/4/8ft] rear feed			Bracket	
	Side feed	0.3M[1ft] waterproof cable with male plug	0.3M[1ft] waterproof cable with female plug	Side feed				Clip	
	Bottom feed		0.3M[1ft] waterproof cable with female plug	Bottom feed	0.3/1.2/2.4M [1/4/8ft] bottom feed			Aluminum Channel	
Side-Bend	Rear feed		0.3M[1ft] waterproof cable with female plug	Rear feed	0.3/1.2/2.4M [1/4/8ft] rear feed			Bracket	
	Side feed	0.3M[1ft] waterproof cable with male plug	0.3M[1ft] waterproof cable with female plug	Side feed				Clip	
	Bottom feed		0.3M[1ft] waterproof cable with female plug	Bottom feed	0.3/1.2/2.4M [1/4/8ft] bottom feed			Aluminum Channel	
								Bendable Bracket	

Power Supplies

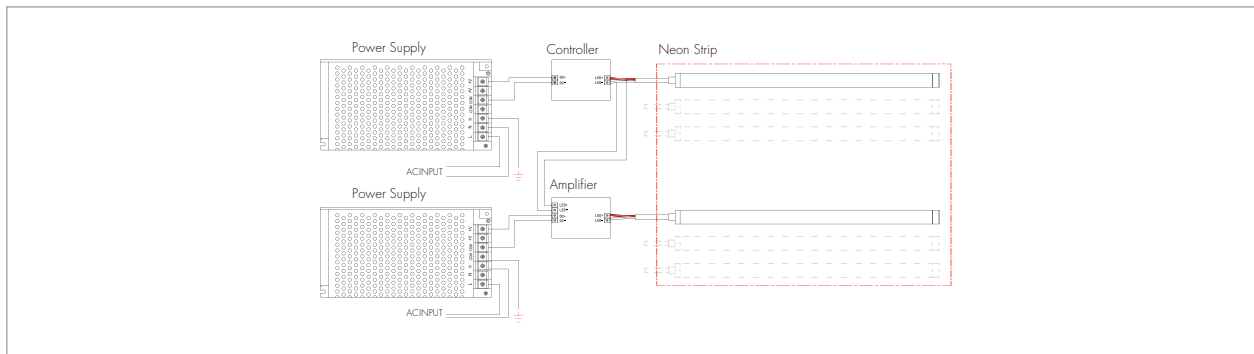
Dimmable with 0-10v, ELV, MLV, TRIAC

Item Number	Description	Max/Min Load	Input Voltage	Output Voltage	Dimmable	Dimensions
PS-TSLC-UNV-24V-30WDHV2	30W	30W / 3W	100-277V AC	24V DC	Yes*	6.49"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-60WDHV2	60W	60W / 6W	100-277V AC	24V DC	Yes*	7.4"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-96WDHV2	96W	96W / 9.6W	100-277V AC	24V DC	Yes*	8.66"L x 3.6"W x 1.61"H
PS-TSLC-UNV-24V-288WDHV2	288W (3 x 96W)	288W / 28.8W	100-277V AC	24V DC	Yes*	11.85"L x 4.25"W x 1.8"H

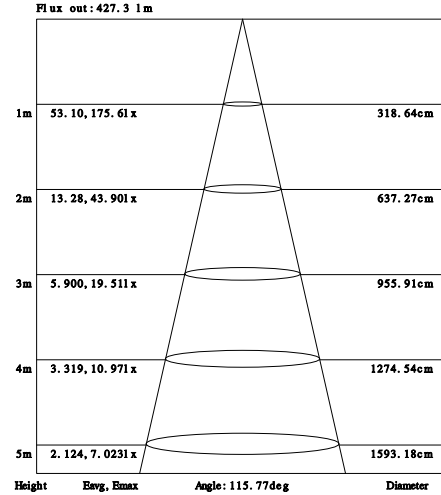
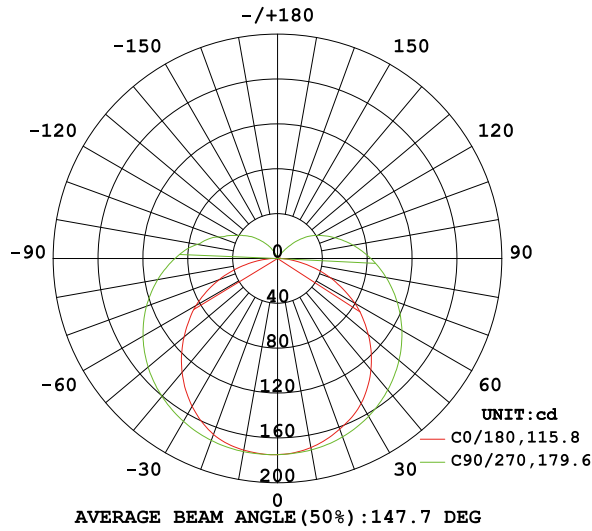


Connection

Dimming Status for Single Color

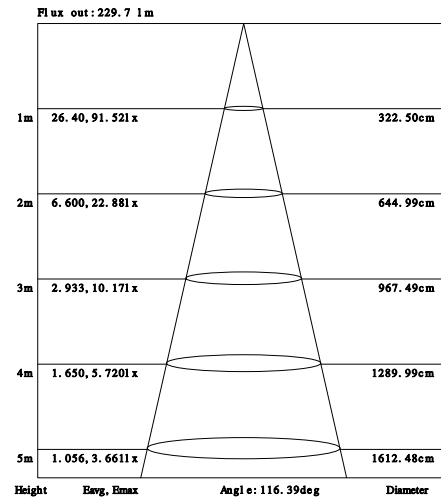
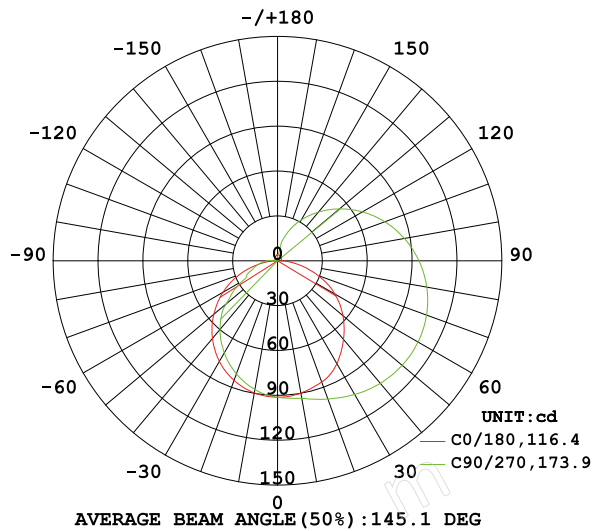


FSDS SERIES LIGHT DISTRIBUTION



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Top-Bend (14W, CRI80, 2700K)

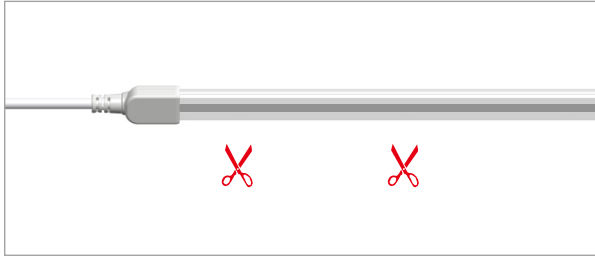


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

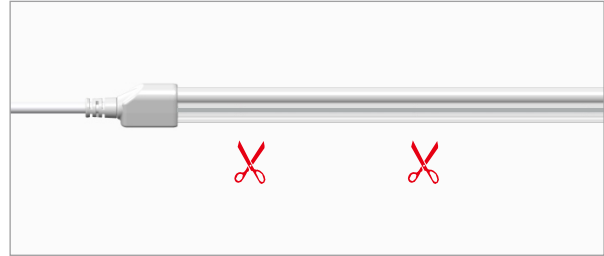
Side-Bend (14W, CRI80, 2700K)

FSF SERIES GENERAL CHARACTERISTICS

(1) Free cutting in any position to be any length.

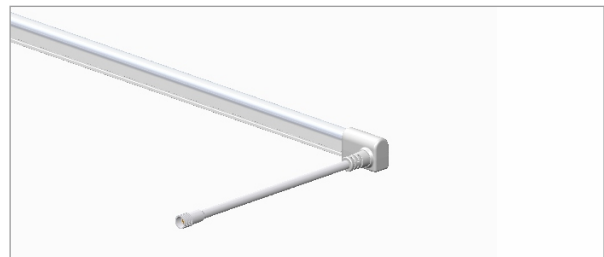


Top-Bend



Side-Bend

(2) Power feed in 3 directions, including rear feed, side feed and bottom feed.

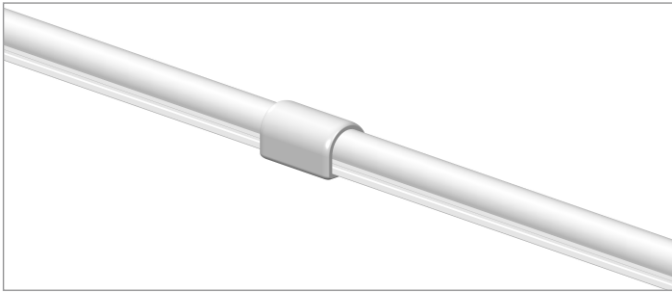


Top-Bend

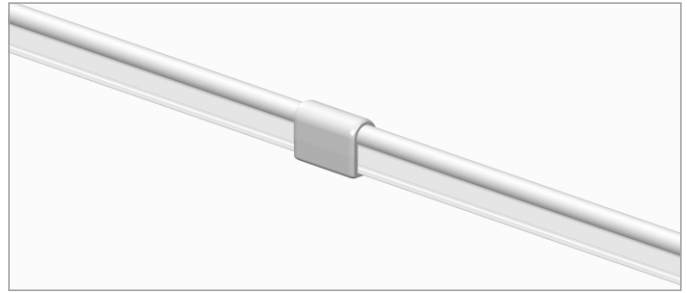
Side-Bend

FSDS SERIES GENERAL CHARACTERISTICS

(3) luminary-to-luminary split joint available.

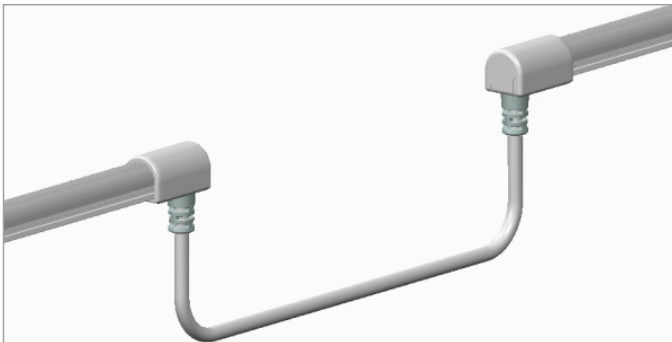
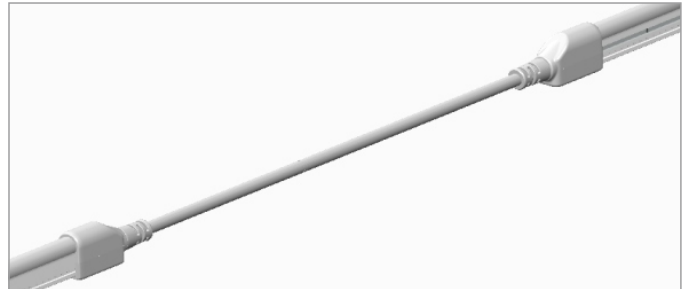


Top-Bend



Side-Bend

(4) luminary-to-luminary jumper in 2 directions, including rear feed and bottom feed.



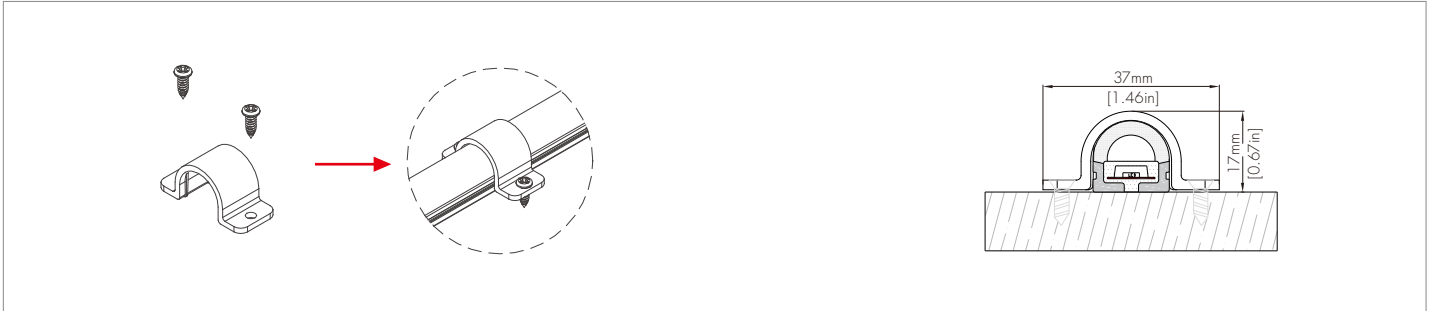
Top-Bend



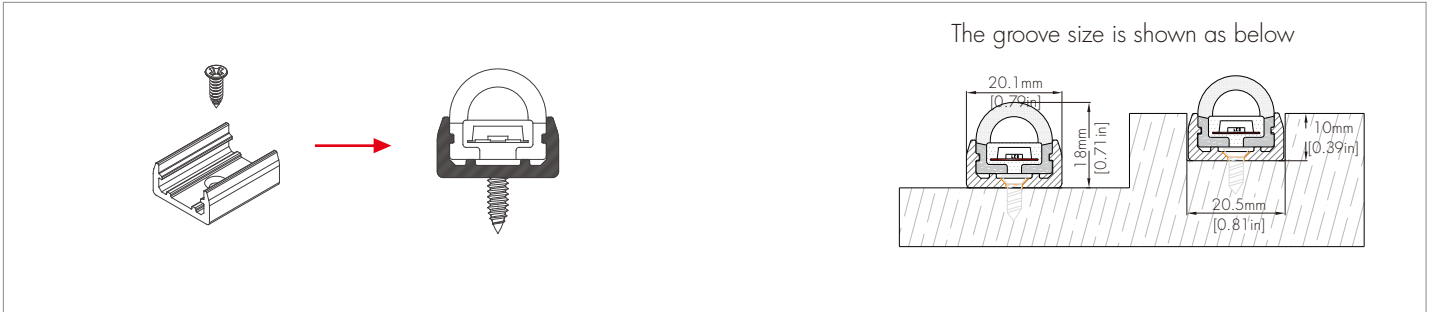
Side-Bend

INSTALLATION (TOP BEND)

Fixed by clip and screw - AL-FSDS-T-A-CLIP



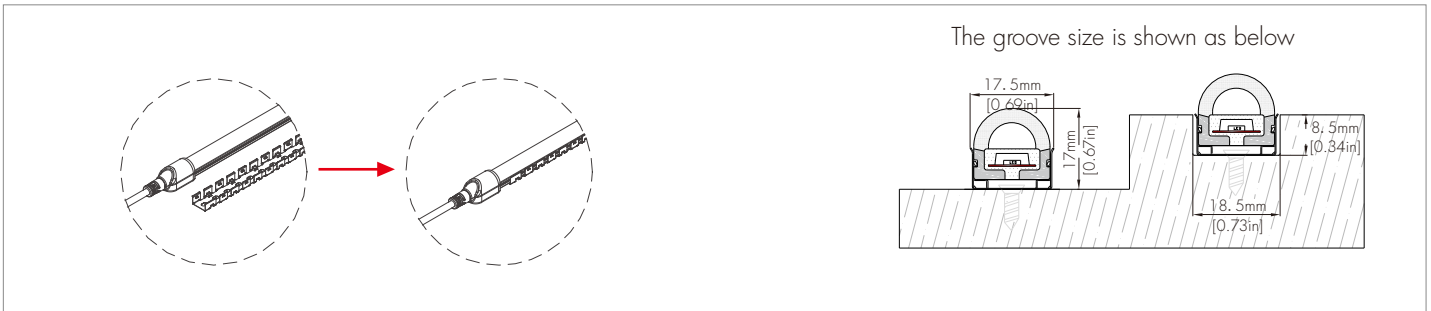
Fixed by bracket and screw - AL-FSDS-T-A-BRKT



Fixed by aluminum channel and screw - AL-FSDS-T-AL-SCH

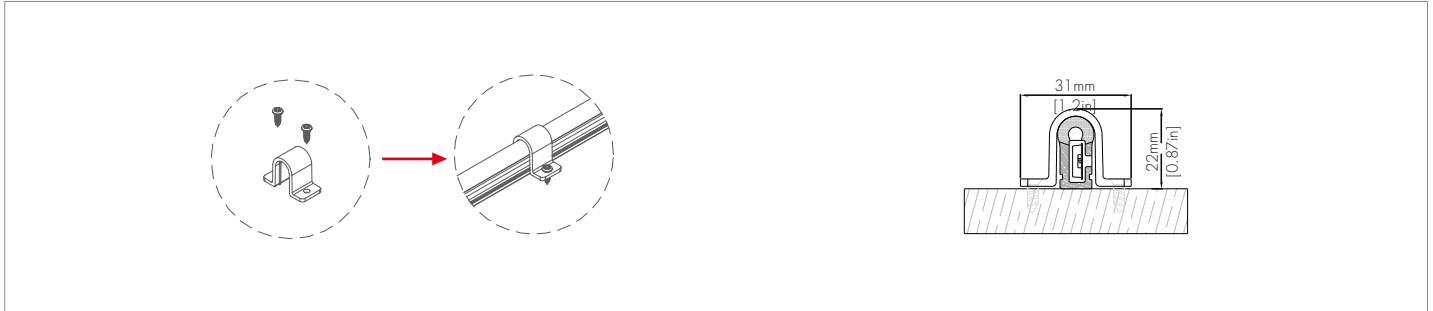


Fixed by bendable bracket - AL-FSDS-T-AL-FDBCH

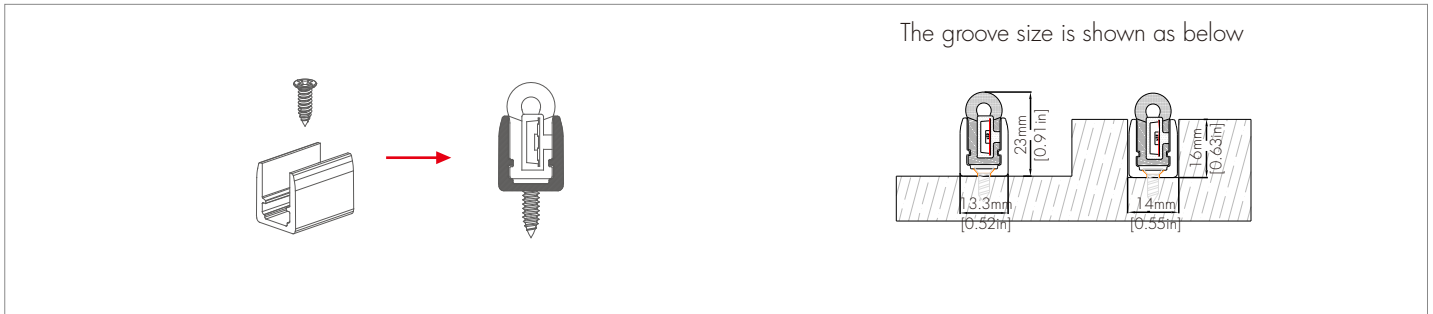


INSTALLATION (SIDE BEND)

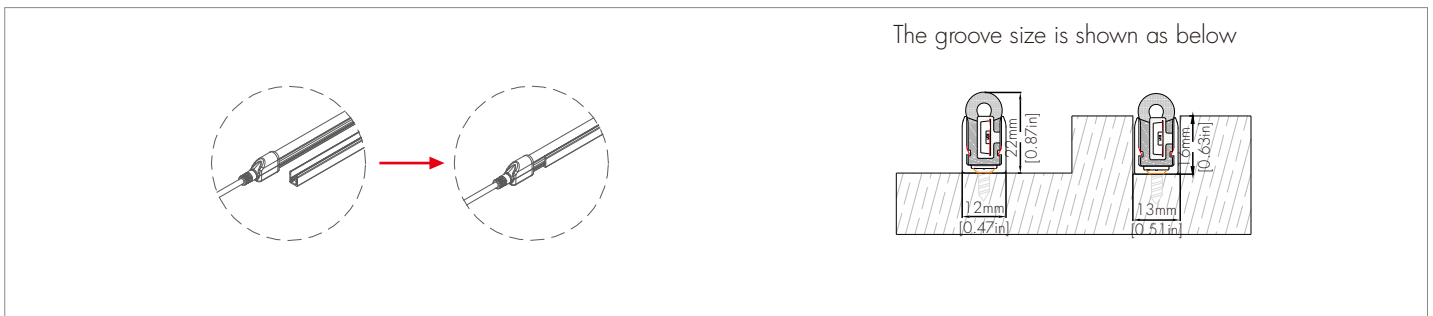
Fixed by clip and screw - AL-FSDS-S-A-CLIP



Fixed by bracket and screw - AL-FSDS-S-A-BRKT



Fixed by aluminum channel and screw - AL-FSDS-S-AL-SCH



Fixed by bendable bracket - AL-FSDS-S-AL-FDBCH

