

Neon SERIES | 360° Omni-Directional Tube - Static colors, TW, RGB



Application

Dual bending LED tube for decorative and ambient lighting in hotels, restaurants, retail, gyms, showrooms, kitchens and more.

Features

- Dual bend flexible strip
- Circular tube with 360 degree light emitting
- Uniform, dot-free, smooth performance
- Available in White, CCT and RGB color options
- 90+ CRI
- Lumen output - Up to 490lm/ft
- 16.4ft. max run length.
- Diameter in 0.98in.
- IP67 for indoor and outdoor applications.
- Dimmable with PWM signal.
- 50,000 hours rated lifespan
- 5 year warranty.

FNS-360

Introducing The Smart Lighting Company's newest upgrade to LED Tape technology! Our Dual Bend 360° Neon Series boasts 360° of uniform, dot free illumination and is IP67 rated for indoor or outdoor wet locations. With 5.49 watts per foot, the Dual Bend tube has excellent brightness and color consistency. Made with a silicone jacket, high grade appearance, soft bend flexibility, strong impact resistance, high tear resistance and high weather resistance.

Easily customizable precut in the factory, the FNS-360 can be used in many different applications and can be fabricated to the specifications of your project.



Specifications and Performance

	STATIC WHITE	TUNABLE WHITE	RGB
Watts per Foot	5.49	5.49	5.49
Max Run Length	16.4ft	16.4ft	16.4ft
Cuttable (<i>factory cut only</i>)	1.97"	1.04"	3.94"
Lumens per Foot	490lm	393lm	220lm
Lumens per Watt	90lm/w	72lm/w	220lm/w
LEDs Per Foot	292	370	384
Input Voltage	24vdc		
Beam Spread	360°		
CRI	90+		
LED Lifespan	L70 ≥50,000 @ T _c ≤ 65		
Dimming	PWM		
Dimensions	0.98"		
CCT	2700k, 3000k, 4000k, 5000k, 6000k, TW, RGB		
Operating Temp	-4°F to 113°F (-20°C to 45°C)		
Ambient Temp	-4°F to 140°F (-20°C to 60°C)		
Environment	IP67		
Warranty	5 Year		
Certifications	CE, UL, RoHS,		

Ordering

Example: FNS360-xxK-xxL-xxW/FT-xxCRI-24VDC

Part No.	Style	Color Temp		Length		Voltage	
FNS	360 360 Series	27	2700k	16	16.4ft	24	24vdc
		30	3000k				
		40	3500k				
		50	4000k				
		60	5000k				
		TW	Tunable white	CU	Custom Length <i>see pg.2 for cutting lengths</i>		
		RGB	RGB				

Mounting Accessories

- FNS-A-SMB** Surface mount bracket (1 meter per clip)
- FNS-A-SK** Ceiling mount clip
- FNS-A-PCC** Suspended ceiling mounted (1 meter per clip)



Recommended Power Supplies

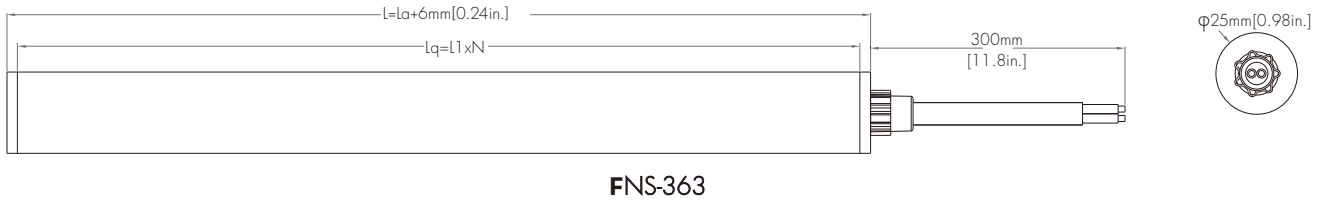
Dimmable with 0-10v, ELV, MLV, TRIAC

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

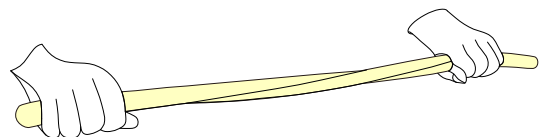
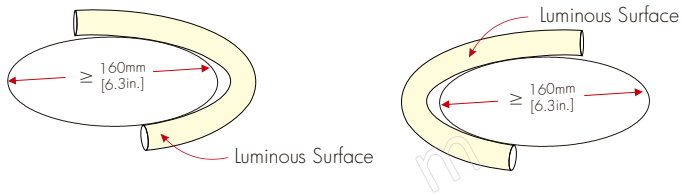
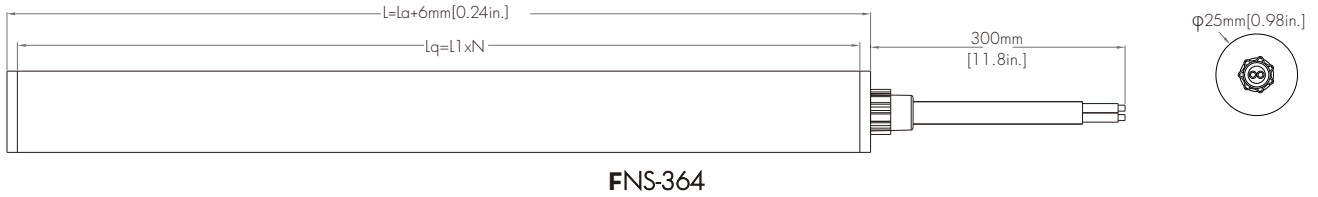


Diagram & Dimensions

Power Rear Feed

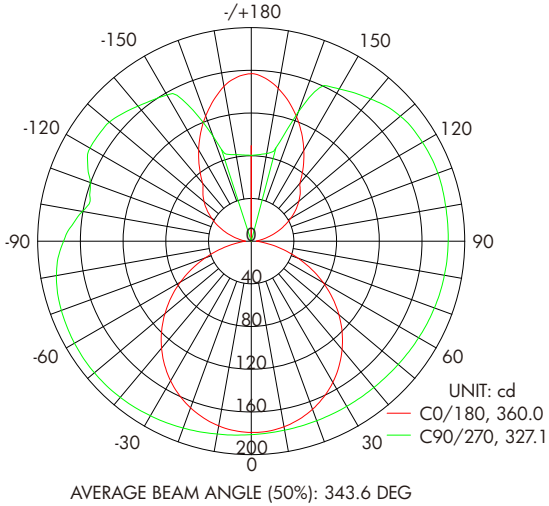


Power Rear Feed



▲ Max. Twist Angle is 360° per 1000mm[39.4in.]

Light Distribution

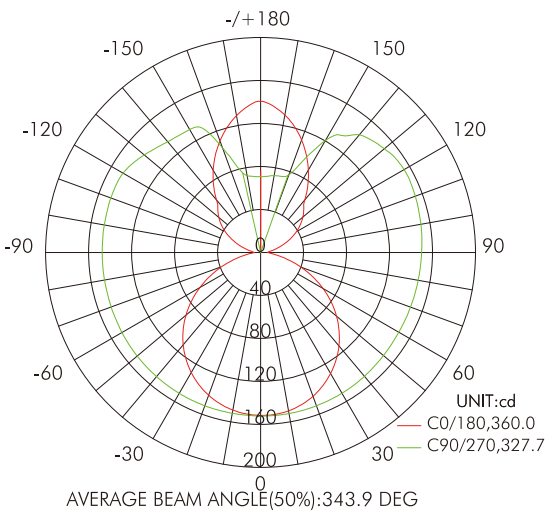


Flux out: 441.41m

Height	Eavg, Eavm	Angle	Diameter
1m	63.93, 181.31x	111.84deg	295.62cm
2m	15.98, 45.331x		591.24cm
3m	7.103, 20.151x		886.85cm
4m	3.996, 11.331x		1182.47cm
5m	2.557, 7.2521x		1748.09cm
6m	1.776, 5.0361x		1773.71cm
7m	1.305, 3.7001x		2069.32cm
8m	0.9989, 2.8331x		2364.94cm
9m	0.7892, 2.2381x		2660.56cm
10m	0.6393, 1.8131x		2956.18cm

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

FNS-363, White, 4000K, CRI90

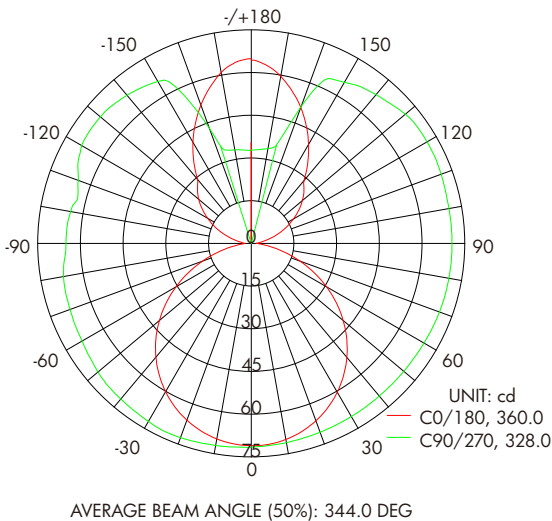


Flux out: 377.81m

Height	Eavg, Eavm	Angle	Diameter
1m	50.71, 152.11x	112.75deg	300.74cm
2m	12.68, 38.031x		601.47cm
3m	5.635, 16.901x		902.21cm
4m	3.170, 9.5071x		1202.94cm
5m	2.029, 6.0851x		1503.68cm
6m	1.409, 4.2251x		1804.41cm
7m	1.035, 3.1041x		2105.15cm
8m	0.7924, 2.3771x		2405.88cm
9m	0.6261, 1.8781x		2706.62cm
10m	0.5071, 1.5211x		3007.35cm

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

FNS-364, CCT, 2700-6000K, CRI90



Flux out: 171.71m

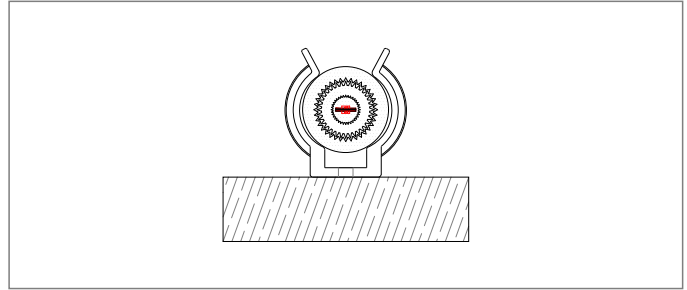
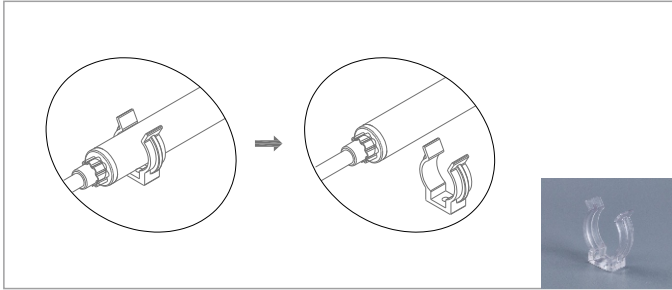
Height	Eavg, Eavm	Angle	Diameter
1m	24.87, 71.561x	111.71deg	294.90cm
2m	6.218, 17.891x		589.79cm
3m	2.764, 7.9511x		884.69cm
4m	1.554, 4.4731x		1179.59cm
5m	0.9949, 2.8621x		1474.48cm
6m	0.6909, 1.9881x		1769.38cm
7m	0.5076, 1.4601x		2064.28cm
8m	0.3886, 1.1181x		2359.17cm
9m	0.3071, 0.88351x		2654.07cm
10m	0.2487, 0.71561x		2948.97cm

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

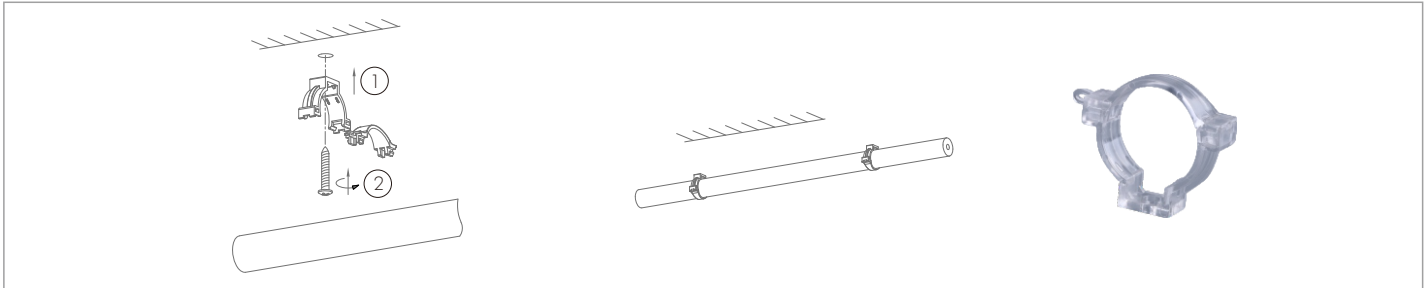
FNS-364, RGB

Installation

Surface mounting by bracket.



Ceiling mounting by clip.

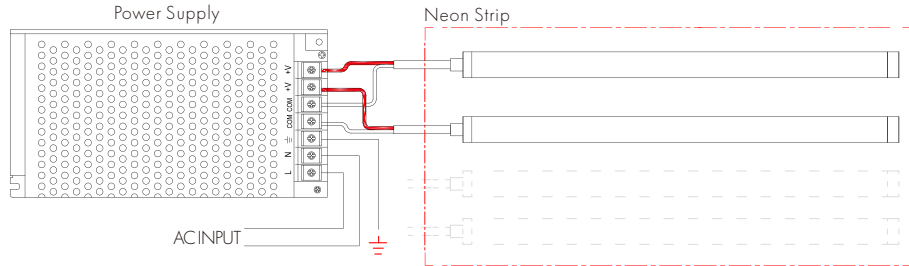


Ceiling mounting by suspension kit.

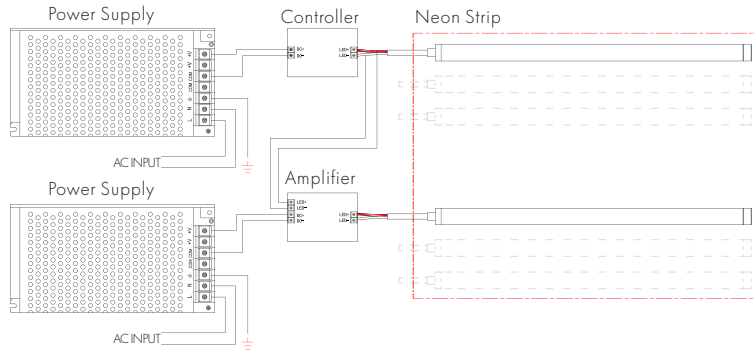
<p>1</p> <p>① ② ③</p>	<p>2</p> <p>① ②</p>	<p>3</p> <p>① ② ③</p>	<p>4</p> <p>① ②</p>	
<p>Drill a hole and fix the sleeve to the ceiling by screw.</p>	<p>Screw in the suspension rope to the sleeve, and then adjust the rope's length.</p>	<p>Mount the clip to the suspension rope.</p>	<p>Place the neon strip into the clip, and then fasten the clip by clamping.</p>	<p>The length of suspension rope is field adjustable when pressing the sleeve as shown.</p>

Connection

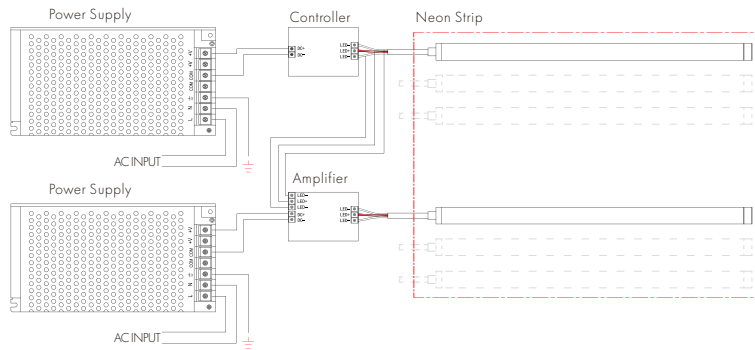
Non-Dimming Status for Single Color



Dimming Status for Single Color



CCT-Tunable Status for Dual Colors



Dimming and tuning status for RGB

