

LLN-L21S RGB / LED NEON SILICONE / 24V / Horizontal Bending

Description:

LED neon provides the look of traditional neon with all the advantages of LED lighting. Conventional glass neon is expensive, extremely fragile and dangerous if broken. Instead of glass, the rugged housing is made of silicone. It is durable, flexible, customizable and easy to install.

The use of modern LED technology allows LED neon to achieve effects that were never before possible with traditional glass neon, such as dimming and color-changing options. The captivating appearance of LED neon makes it the perfect choice for architectural, entertainment and hospitality installations..

















Light Dimension 0.45 x 1.14in (11.5x29mm)

Specifications are subject to change without notice.

LIGHT DIFFICUSION O. 10 X 1.1 IIII	(11.5x2511111) Opermedicing are subject to change without notice
Output	RGB
LED Light	SMD LED chips
Continuous Length	
Single Feed	Full Load: 26.22ft (8m)
Double Feed	Full Load: 52.44ft (15m)
Light Surface	Round profile 270°
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C
Electrical	
Input Voltage	24V DC
Power Consumption	3.66W/ft (12W/m)
Physical	
LED Count	18 LEDs / ft (60 LEDs/m)
LED Spacing	0.66in (16.67mm)
Cutting Unit Length	3.94in (100mm) (6 LEDs)
Thermal Management	Free air convection
Fixture Connections	End, side & bottom lead wires
Minimum Bend Diameter	4.72in (120mm) (Side Bending)
Temperature Ranges	
Installation	-40°F to 122°F (-40°C to 50°C)
Operating	-40°F to 131°F (-40°C to 55°C)
Humidity	0-95% non condensing
Dependability	
Warranty	5 Year Limited Warranty
Safety	
Certification	Tested to UL & CSA by Underwriters Laboratory for use in USA and Canada, complies with California Title 24 Requirements, Lighting Facts. Exceeds ANSI C78.377A, CE & RoHS Compliant.
IP Rating	IP68 with appropriately rated accessories



ORDERING CHART

Project:	
Туре:	
Model:	

Description:

LLN-L21S is the most reliable dot-free linear light on the market, offers seamless fittings built to preserve light uniformity. Engineered for on-site configuration and assembly makes our product the definite solution for architectural accents and signage. LLN-L21S flexibility is just one of the many outstanding features which allow designers to explore organic shapes and advanced patterns, previously not possible. This NEON system is RGB colors.













Example: LLN-L21S-X-RGB-26-CC-1-BM-05M-S

Series	Voltage	NEON Type	MAX Length (Nominal)	Connector Type	Fixture End	Exit Type	Length	Power / Signal
LLN-L21S Silicone NEON	X X = 24 Volts	RGB Red Blue Green	26 26.22 feet	CC Clamp	1 Input side	ED End	0M3 0.98ft (30cm)	P Power or for End Cap
				Connector IP67	2 Output side	BM Bottom	01M 3.28ft (1m)	S Signal and Power
				SM Seamless	0 Jumpers	SL Side Left	03M 9.84ft (3m)	
				Connector IP68	T-feeds/ Seamless (or submersible) Bottom/ Seamless	SR Side Right	05M 16ft (5m)	
					(or submersible) End	EJ End jumper	10M 32.81ft (10m)	
						BJ Bottom jumper	EC End Cap	
						TF Power T-Feed		

Enter configuration:

Dimensions and values shown are nominal. LuminosoLED continually works to improve products and reserves the right to make changes which may after the performance or appearance of products.

^{**} Special Order



LED NEON SILICONE / 24V / SPECIFICATIONS / DIMENSIONS

Specifications are subject to change without notice.

Available Color	Available Colors				
Color	CCT Wavelength				
Red	618-624nm				
Green	522-528nm				
Blue	468-474nm				
R+G+B (White)	N/A				

Lumen Count			
Color	Per Foot	Per Meter	
Red	>18.29lm	>60lm	
Green	>42.68lm	>140lm	
Blue	>9.14lm	>30lm	
R+G+B (White)	>70.12lm	>230lm	

*Color Jackets:

For standard or custom color jacket options, contact your Account Manager. Min. order quantity of 656ft (200m).







D:120mm Bending Diameter



Flame Resistant



Resistant



Solvents Resistant



Saltwater Resistant



IP68 Protection

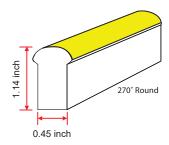


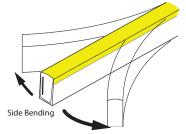
IK08 Protection



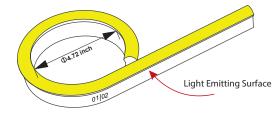
5 Year Warranty

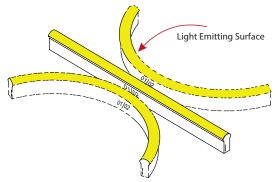
Dimensions





Minimum Bending Diameter





01 and 02 Explanation

There are 01 and 02 marks on light body and connector. Since the PCB is not centralized and pins are separated for positive and negative, the 01-pin connector can only fit into 01 end marked on light body and likewise for 02-pin connector, please see below drawings for more details.



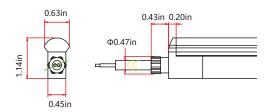
SEAMLESS CONNECTORS

Specifications are subject to change without notice.

(Connectors)
IP68: Rated for outdoor use.
Factory Assembly or DIY.

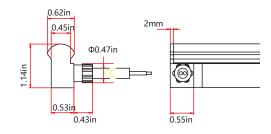


Seamless End Exit LLN-L21S-X-RGB-HB-SM-0-ED-XXX-S



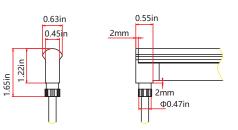


Seamless Side Exit LLN-L21S-X-RGB-HB-SM-1-SR-XXX-S LLN-L21S-X-RGB-HB-SM-2-SL-XXX-S



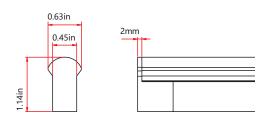


Seamless Bottom Exit LLN-L21S-X-RGB-HB-SM-0-BM**-XXX**-S



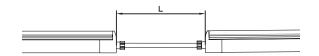


Seamless End Cap LLN-L21S-X-RGB-HB-SM-1-EC-P LLN-L21S-X-RGB-HB-SM-2-EC-P





Seamless Jumper
LLN-L21S-X-RGB-HB-SM-0-EJ-XXX-S





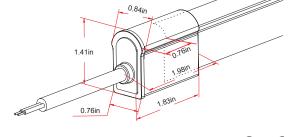
CLAMP CONNECTORS

(Connectors)
IP67: Rated for outdoor use.
Factory Assembly or DIY.



Clamp End Exit

LLN-L21S-X-RGB-HB-CC-1-ED-XXX-S LLN-L21S-X-RGB-HB-CC-2-ED-XXX-S

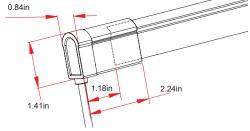


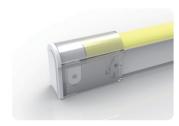
Specifications are subject to change without notice.



Clamp Bottom Exit

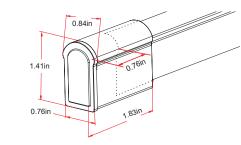
LLN-L21S-X-RGB-HB-CC-1-BM**-XXX**-S LLN-L21S-X-RGB-HB-CC-2-BM**-XXX**-S





Clamp End Cap

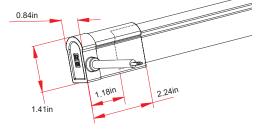
LLN-L21S-X-RGB-HB-CC-1-EC-P LLN-L21S-X-RGB-HB-CC-2-EC-P





Clamp Side Exit

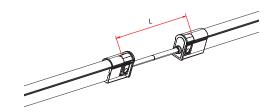
LLN-L21S-X-RGB-HB-CC-1-SL-XXX-S LLN-L21S-X-RGB-HB-CC-2-SL-XXX-S LLN-L21S-X-RGB-HB-CC-1-SR-XXX-S LLN-L21S-X-RGB-HB-CC-2-SR-XXX-S





Clamp Jumper

LLN-L21S-X-RGB-HB-CC-0-EJ-XXX-S





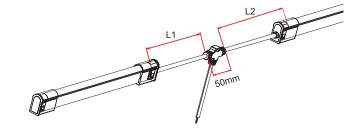
CLAMP CONNECTORS / BARREL CONNECTORS

Specifications are subject to change without notice.

(Connectors)
IP67: Rated for outdoor use.
Factory Assembly or DIY.



Snap Power T Feed
LLN-L21S-X-RGB-HB-CC-0-TF-XXX-S

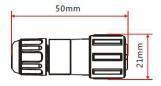


(Barrel Connectors)



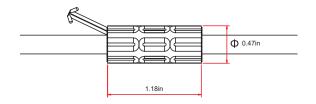
Barrel Connectors

BA-XX-BC-DC-CXX-F BA-XX-BC-DC-CXX-M BA-XX-BN-XXA-CXX-F BA-XX-BN-XXA-CXX-M BA-XX-PL-XXA-CXX-F BA-XX-PL-XXA-CXX-M



Anti-Wicking Ferrule





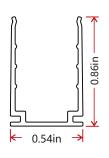


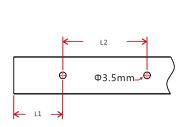
CLAMP CONNECTORS / BARREL CONNECTORS

Specifications are subject to change without notice.

Standard Anodized Aluminum Channel



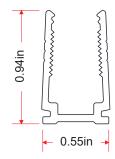


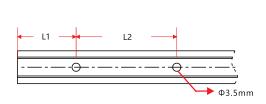


WxH	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.54 x 0.87in	1.38in (35mm)	AL-11-R-AL-3C5-SD	0.69in (17.5mm)	/	0.39x0.16in(10x4mm)	1
(13.8 x 22mm)	19.69in (500mm)	AH-11-R-AL-OM5-SD	1.97in (50mm)	7.87in (200mm)	0.39x0.16in(10x4mm)	3
	39.37in (1000mm)	AH-11-R-AL-01M-SD	3.94in (100mm)	7.87in (200mm)	0.39x0.16in(10x4mm)	5
	78 74in (2000mm)	AH-11-R-AL-02M-SD	3 94in (100mm)	7.87in (200mm)	0.39x0.16in(10x4mm)	10

Plastic Channel







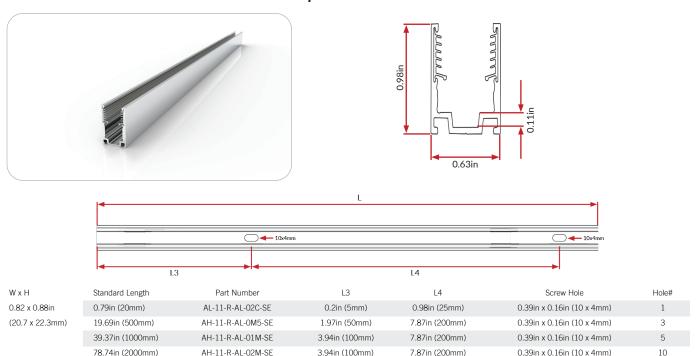
WxH	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.55 x 0.94in	19.69in (500mm)	AH-11-R-PL-0M5-SD	1.97n (50mm)	7.87in (200mm)	0.14in (3.5mm)	3
(14 x 24mm)	39.37in (1000mm)	AH-11-R-PL-01M-SD	3.94in (100mm)	7.87in (200mm)	0.14in (3.5mm)	5
	78.74in (2000mm)	AH-11-R-PL-02M-SD	3.94in (100mm)	7.87in (200mm)	0.14in (3.5mm)	10



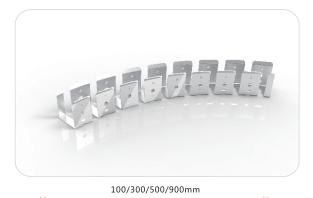
CLAMP CONNECTORS / BARREL CONNECTORS

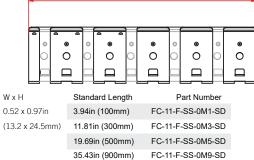
Specifications are subject to change without notice.

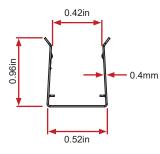
Standard Aluminum Channel with Silicone Grip

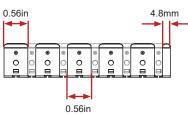


Stainless Steel Flexible Channel



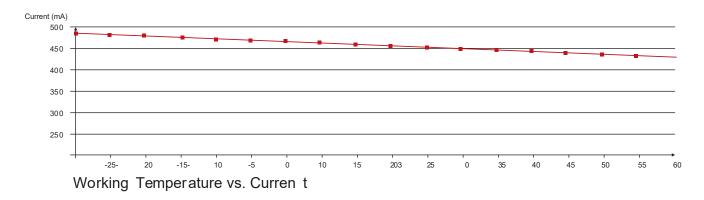


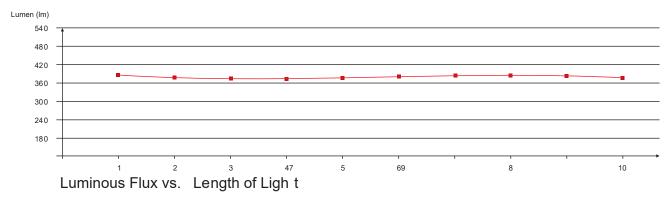


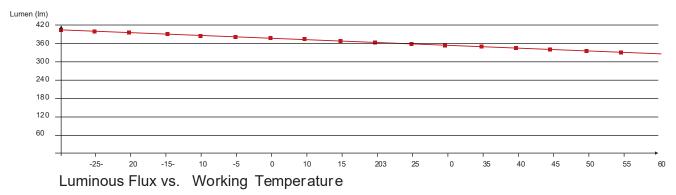


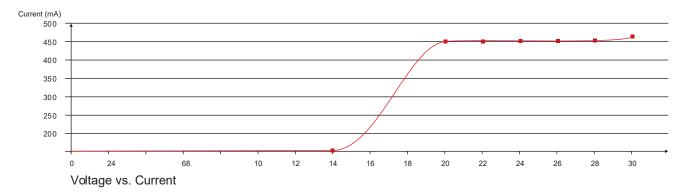
This profile can be mounted using screws in any gaps where the channel bends.

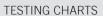














ANSI STANDARD

Nominal CCT Categories

Nominal CCT	Target CCT and tolerance(K)	Target D.,,	D., Tolerance Range
2200K	2238 ±102	0.0000	Tx:CCT of the source
2500K	2460±120	0.0000	For Tx < 2870K
2700K	2725 ±145	0.0000	0.000±0.0060
3000K	3045±175	0.0001	For Tx≥2870K
3500K	3465±245	0.0005	Duv(Tx)±0.0060
4000K	3985±275	0.0010	where
4500K	4503±243	0.0015	Duv(Tx)=57700 x (1/Tx)2
5000K	5029±283	0.0020	-44.6 x (1/Tx)
5700K	5667±355	0.0025	+0.00854
6500K	6532±510	0.0031	

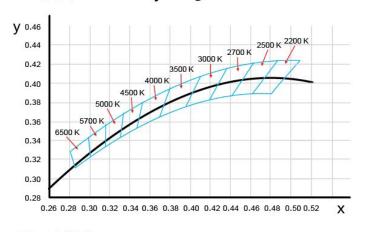
Flexible CCT $T_F^{\ 1)} \pm \Delta T^{\ 2)}$ $D_{uv} T_F^{\ 3)}$

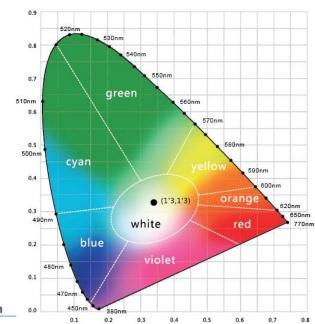
(2200-6500K)

Remark:

- T_r is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
- 2) $\Delta T = 1.1900 \times 10^8 \times T^3 1.5434 \times 10^4 \times T^2 + 0.7168 \times T 902.55$
- 3) Same as in the D_{uv} Tolerance Range.

(X,Y) Chromaticity Diagram





Light Color



Blue 465-475nm

