

# LUXNEON™ Slim 0612 Static White

## SIDE BEND

Indoor/Outdoor Series

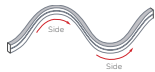
## SLIM, FRONT-FACING ACCENT LIGHTING

**LUXNEON™ Slim 0612 LED Neon Flex Tube** is a super slim neon tube that bends sideways in a lateral motion. Much slimmer than the average light tube, this light provides hotspot-free, front-facing directional accent lighting at 90+ CRI. Straightforward, fuss-free installation via plastic mounting clips means less hassle and labor costs. Fully field cuttable with short cutting segments for last minute on-site modifications every 0.98" (25mm) for 12V or every 1.97" (50mm) for 24V.



A super slim, easy to install neon tube solution featuring lateral side bending.

### KEY FEATURES



**BEND & FLEX  
SIDEWAYS**



**EASY TO  
INSTALL**



**IP67 RATED DUST  
& TEMPORARY  
IMMERSION SAFE**



**DIMMABLE**



**V-2 FLAME  
RETARDANT  
(UL94)**



**CUTTABLE**

**NEON**

**HOTSPOT-FREE,  
NEON-LIKE  
ILLUMINATION**



**UV SAFE**



**CUSTOM COLOR  
TEMPS**



**PLUG & PLAY**



**CONSISTENT  
LIGHT COLOR**



**LONG LED  
LIFESPAN**



**OUTSTANDING  
BRIGHTNESS**



**SLIM**

### ASSURED QUALITY



E477011



100% QC



LIMITED  
WARRANTY



**LOOKING FOR  
DYNAMIC/TUNABLE WHITE?**

Call us for product specs or a quote today—(714) 256-2111

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

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## MECHANICAL

### PARAMETERS

**LED Count** 72 LEDs/ft (240 LEDs/m)

**LED Roll Length** 16 ft  $\frac{3}{8}$ " (5m) or built to order

**Tube Dimensions** Tube cross-section: 0.47" (12mm) x 0.24" (6mm) • Front cap: 0.55" (14mm) x 1.10" (28mm) • Closing end cap: 0.55" (14mm) x 0.51" (13mm)

**Bending Diameter** 1.18" (30mm)

**Cutting Length** 12V 0.98" (25mm) • 24V 1.97" (50mm)

### CONSTRUCTION & BASE MATERIAL

**Tube Material** Silicone

**Tube Max. Run** 16.4ft (5m). Length may also be customized for your order

**PCB Material** Triple layered Polyimide film with SMD LEDs.

**End Cap Material** Silicone

**Diffuser Material** Silicone

**Substrate Material** Silicone

**Mounting Clip Material** Plastic

**Flammability Rated** UL94 V-2 flame retardant

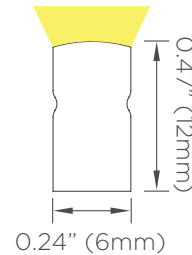
### COMPLIANCE & REGULATORY APPROVAL

UL E477011 • cUL E477011 • RoHs • CE • Lead Free • Warranty 5 years

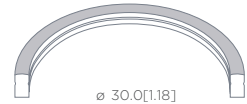
### COLORS

**Standard White Silicone Tubing** Milky white silicone

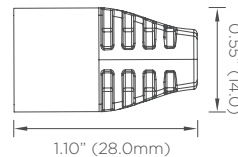
### SECTIONAL VIEW



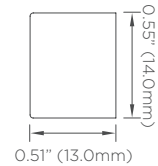
### BENDING DIAMETER



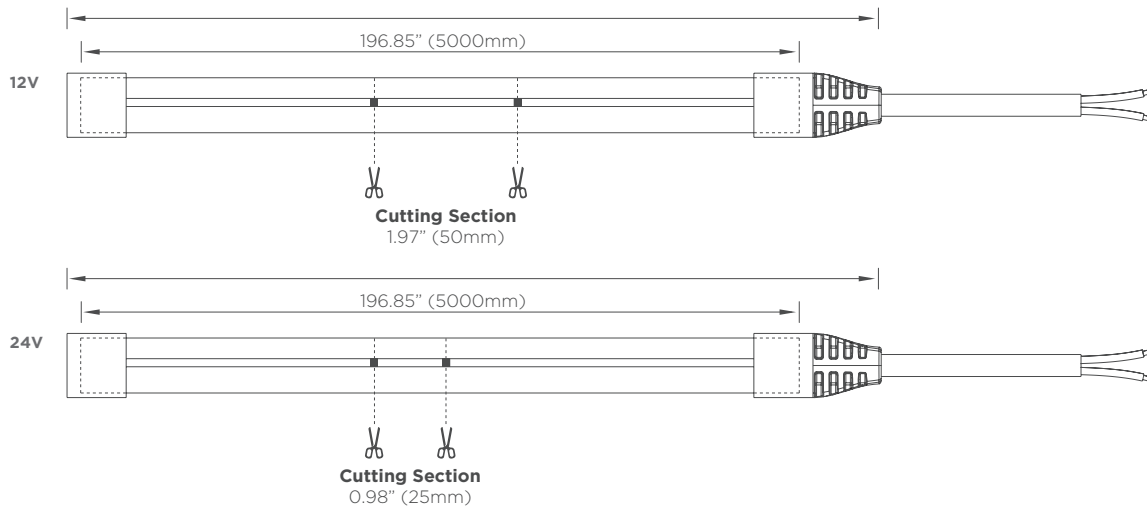
### FRONT CAP



### CLOSING END CAP



### TUBE CUTTING DIAGRAM



LED TYPE	OPERATING VOLTAGE	BENDING DIAMETER minimum	DIMENSIONS tube cross-section	CUTTING LENGTH	# LEDs per cut section
NEON TUBE	12V	1.18" (30mm)	0.47" x 0.24" (12mm x 6mm)	0.98" (25mm)	3
NEON TUBE	24V	1.18" (30mm)	0.47" x 0.24" (12mm x 6mm)	1.97" (50mm)	6

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## ELECTRICAL

### PHOTOMETRICS

**Wide Beam Angle** 113°

**Lamp Life** 50,000+ hours

**Standard Color Temperatures** 2700K • 3000K • 4100K • 5300K • 6500K

**Custom Color Temperatures Available** Please inquire for more information

**Lumen Output** See Photometric Data Table

### DIMMING

- Pulse-width modulation dimming (PWM)
- 0-10V dimming
- Magnetic low voltage (MLV)

### POWER SUPPLY

**Input Voltage** 12VDC & 24VDC constant voltage

**Input Current** 12V 0.3 A/ft (0.98 A/m) • 24V 0.15 A/ft (0.50 A/m)

**Power Consumption** 3.66 W/ft (12 W/m)

**Wire Size** 20 AWG 2 Wire



**Please Use Only with Class 2 Power Supply**
**Max. No. of Wire Connections** 2

**Connector Type** Molex® • DC Barrel Jack • Hardwire

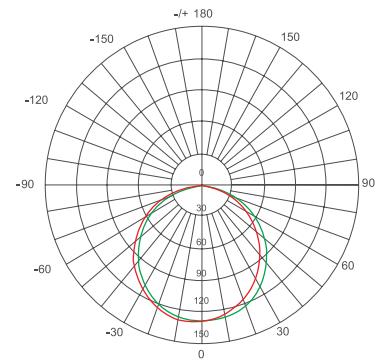
### MAX. LOAD & MAX LENGTH

Voltage	# Power Supplies	Max. Load	Max. Tube Length
12V	1	60W	16ft (4.88m)
24V	1	96W	26ft (7.92m)

### PHOTOMETRIC DATA TABLE

	CCT	EFFICACY	BEAM ANGLE	LUMINOUS FLUX	POWER
	2700K Very Warm White	34 lm/W	113°	75 lm/ft 245 lm/m	3.66 W/ft 12 W/m
	3000K Warm White	36 lm/W	113°	79 lm/ft 259 lm/m	3.66 W/ft 12 W/m
	4100K Neutral White	38 lm/W	113°	83 lm/ft 274 lm/m	3.66 W/ft 12 W/m
	5300K Daylight	42 lm/W	113°	92 lm/ft 302 lm/m	3.66 W/ft 12 W/m
	6500K Cool White	44 lm/W	113°	97 lm/ft 317 lm/m	3.66 W/ft 12 W/m

### LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Unit: cd

 AVERAGE BEAM ANGLE (50%): 113.3°  
 — C 0°/180, 113.5°  
 — C 90°/270, 113.1°


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## INSTALLATION

**Field Cuttable** LUXNEON Slim 0612 is fully field cuttable every 0.98" (25mm) for 12V & every 1.97" (50mm) for 24V. Use scissors or straight edge cutting tool to cut along the LUXNEON's marked cut sections.

**Field Bendable** LUXNEON Slim 0612 is field bendable and is designed to create unique profiles, contours, and patterns. **LUXNEON Slim 0612 is designed for lateral side bending only.** Do not bend LUXNEON Slim 0612 against its natural curvature, which will cause the internal LED light engine to snap and render it unusable.

**Environment** Indoor and outdoor location safe. Light colors will retain their hue in daylight even over extended periods of time when installed outdoors. Tubes are UV safe, hydrocarbon insensitive, and resistant to fading.

**IP67 Waterproof** LUXNEON is fully IP67 compliant. Tubes are protected from total dust ingress and are temporary immersion safe.

**Operating Temperature** -4°F - +140°F (-20°C - +60°C)

**Ambient Temperature** -4°F - +158°F (-20°C - +70°C)

**Heat Sink** Not required for installation. LUXNEON Slim illuminates spaces with reduced thermal consumption and output.

**Mounting** May be mounted using the provided plastic clips. The plastic clips must be fastened onto the mounting surface and cleared of debris prior to clipping in the LUXNEON product to complete the installation.

**Connecting Multiple Tubes** LUXNEON Slim 0612 may be purchased custom cut to your desired length ordered in 5 meter reels and field cut to size. Keep in mind the max load restrictions enforced by Class 2 regulations when determining the number of power supplies needed for your tube. In compliance with Class 2, LUXNEON Slim 0612 lighting solutions that are fully customized by LEDCONN may be mounted side by side if extra length is required beyond the max compliant length of 26 ft (7.92m). Applications requiring longer runs than 26 ft (7.92m) will require higher capacity drivers with multiple parallel connections between driver and LED neon or individual drivers for each 26 ft (7.92m) runs.

### SAFETY DISCLOSURES

**Electric Code Compliance** Please make sure to install LUXNEON Slim 0612 in accordance with standard national and local electrical codes.

**Outdoor Usage** LUXNEON Slim 0612 is suitable for indoor and outdoor location applications. For wet location installations, please make sure to seal the entry points completely with silicone to prevent water from entering the product. Failure to do this may render the product unusable or defective.

**Class 2 Compliance** When cutting your LUXNEON Slim 0612 tube, keep in mind that Class 2 compliance restricts the max load of the product to 96W, which in turn prevents the maximum cut length from exceeding 26 ft (7.92m) with a single power supply. A fully Class 2 compliant LUXNEON Slim 0612 lighting solution should never exceed these lengths and may only support up to 2 Class 2 power supplies at a time.

**Avoid Electrical Shock** Always disconnect the power supplies before installing or servicing to avoid electrical shock.

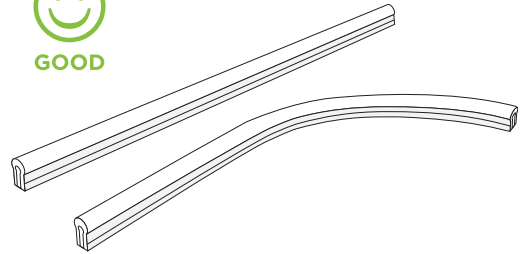
**Actual Product Color May Vary** Please note that the product color as seen in this specification sheet, photography, and related marketing material for this product may vary slightly from your actual customized product due to photographic and design limitations.

**Specifications are Subject to Change Without Notice** While we try to make every effort to inform customers of updates to our products, we reserve the right to make modifications and improvements to our fixture specifications and designs without advance notice.

**Manufacturer is Not Liable for Matching Fixtures to Pre-Existing Fixture Installations** We cannot guarantee matching the CCT appearance, product design, or lumen output for pre-installed fixtures or reorders.

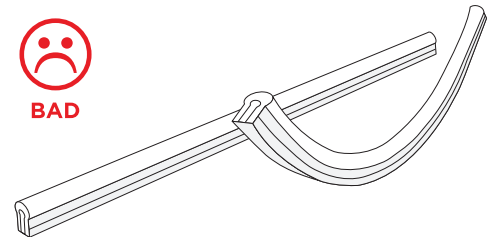
## LATERAL BENDING

LUXNEON easily bends laterally from left to right.



## CONVEX BENDING

**Never attempt a convex bend with this product!\***



\*But we do offer a lighting solution designed for convex bending that is similar to the LUXNEON Lateral "S" Flex. If interested, please reach out to one of our sales representatives for more information.

## CUTTING SEGMENTS

Peel back the adhesive backing to reveal cutting segments every 0.98" (25mm) for 12V & every 1.97" (50mm) for 24V.



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**1**

**2**

**3**

**4**

**5**

## AVAILABLE ACCESSORIES

#	PART NO.	COMPONENT	MATERIAL	PURPOSE
1	NSF0612-PCIS	Front Cap	Silicone	Seals the input side of LUXNEON.
2	NSF0612-ECS	Closing End-Cap	Silicone	Seals the end of a cut section.
3	NSF0612-PMC	Plastic Clip	Plastic	Mounting accessory.
4		Screws	Zinc coated steel	Secures the aluminum track to mounting surface.
5		Silicone Glue	N/A	Used to glue end caps, mounting clips and additional installation components to install the product.

## Current@ Compatible



- Energy Savings
- Versatile
- Scalable
- Outdoor Rated
- Wired, Wireless or Hybrid

Contact us to inquire about other compatible controls

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## APPLICATIONS

- Outdoor/Indoor Decorative Lighting
- Cove Lighting
- Awning Lighting
- Wall Wash Lighting
- Architectural Lighting
- Curved Embedded Lighting
- Decorative Linear Lighting
- Channel Letters
- Signage
- Border Tubing
- Accent Lighting
- Compact, Space-Sensitive Applications
- Retail Applications
- ...And Many More!



## LUXNEON™ SILICONE FLEX PART NUMBER

### EXAMPLE

	LUXNEON™ 0612	24"	3000K	DIFFUSED	DC BARREL
<b>NSSS24ZAB</b>	<b>NSSS</b>	<b>24</b>	<b>Z</b>	<b>A</b>	<b>B</b>
	PRODUCT LINE	LENGTH	COLOR	DIFFUSED OPTION	CONNECTOR
<b>BUILD IT!</b>					

### PRODUCT LINE

**NSSS** LUXNEON™ SLIM PROFILE 0612  
SIDE BENDING

### LENGTH (IN INCHES)

**LL** LENGTH (VARIES)

### COLOR

**W** 6500K  
**V** 5300K  
**Y** 4100K  
**Z** 3000K  
**C** CUSTOM CCT

### DIFFUSED OPTION

**A** DIFFUSED

### CONNECTOR

**B** DC BARREL JACK  
**H** HARDWIRE  
**C** SPECIAL  
**M** MOLEX



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