

LUXNEON™ Classic

SIDE BEND

Indoor/Outdoor Series

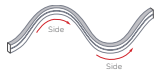
CURVABLE NEON-LIKE LIGHTING

LUXNEON™ LED Flexible Neon Tube Lighting is designed to provide a continuous, even line of light without hotspots to meet the needs of today's modern architectural and signage applications. With LUXNEON you can bend, flex, cut, and contour these beautiful tubes for your desired application. Simply plug it in and watch the lighting magic happen right before your eyes. Available in a myriad of colors for cove and embedded architectural lighting applications.



Create a modern, continuous line of light with LUXNEON!

KEY FEATURES


**BEND & FLEX
SIDEWAYS**

**CONSISTENT
LIGHT COLOR**

**IP67 RATED DUST
& TEMPORARY
IMMERSION SAFE**

WIDE BEAM ANGLE

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

**FIELD CUTTABLE
FOR CUSTOM
LENGTHS**
NEON
**HOTSPOT-FREE,
NEON-LIKE
ILLUMINATION**

UV SAFE

**EASY TO
INSTALL**

PLUG & PLAY

**LONG LED
LIFESPAN**

**CUSTOM
COLOR
TEMPS**

**OUTSTANDING
BRIGHTNESS**

ASSURED QUALITY


E477011

100% QC

**LIMITED
WARRANTY**


PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

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MECHANICAL

PARAMETERS

LED Count 33 pc/ft (112 pc/m)

LED Roll Length 13 ft 1-7/16" (4m) or built to order

Tube Dimensions Tube cross-section: 0.96" (24.4mm) x 0.47" (11.9mm) • Tube w/end cap: 1.05" (26.6mm) x 0.56" (14.1mm)

Flat Bend 1" (25mm)

Cutting Length 2" (51mm)

CONSTRUCTION & BASE MATERIAL

Tube Material Silicone

Tube Max. Run Length may be customized for your order

PCB Material Flexible PVC with SMD LEDs

End Cap Material Silicone

Diffuser Material Silicone

Substrate Material Silicone

Mounting Clip Material Aluminum

Mounting Channel Material Aluminum

Flammability Rated UL94 V-2 flame retardant

COMPLIANCE & REGULATORY APPROVAL

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

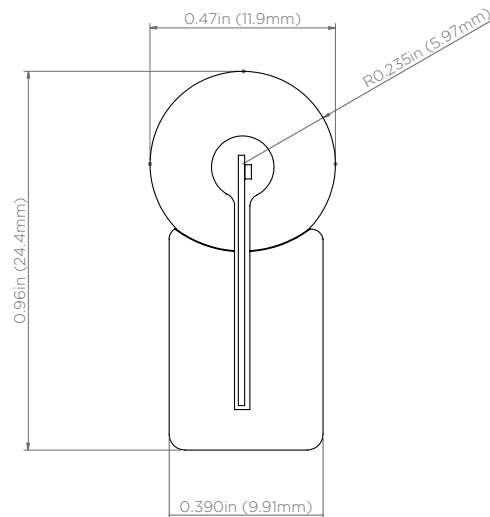
COLORS

Diffuser Milky white silicone

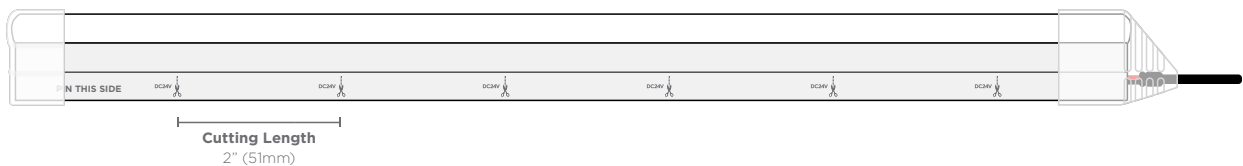
Standard White Silicone Tubing Stardust gray (white color temperatures only)

Colored Silicone Tubing (For single colored lights only.) • Red • Yellow • Green • Blue • Tubing color matches LED light color.

TUBE CROSS SECTION



TUBE CUTTING DIAGRAM



LED TYPE	OPERATING VOLTAGE	FLAT BEND minimum	DIMENSIONS tube cross-section	CUTTING LENGTH	# LEDs per cut section
NEON TUBE	24V	1" (25mm)	0.96" x 0.47" (24.5mm x 11.9mm)	2" (51mm)	6

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ELECTRICAL

PHOTOMETRICS

Wide Beam Angle 150°

Lamp Life 60,000+ hours

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

Standard Single Color Temperatures Red (625nm) • Yellow (588nm) • Green (525nm) • Blue (465nm)

Custom Color Temperatures Available Please inquire for more information

Lumen Output See Photometric Data Table

DIMMING

- 0-10V dimming
- Magnetic low voltage (MLV)

POWER SUPPLY

Input Voltage 24VDC constant voltage

Input Current 120mA/ft (396mA/m)

Power Consumption 2.10 W/ft (6.9 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

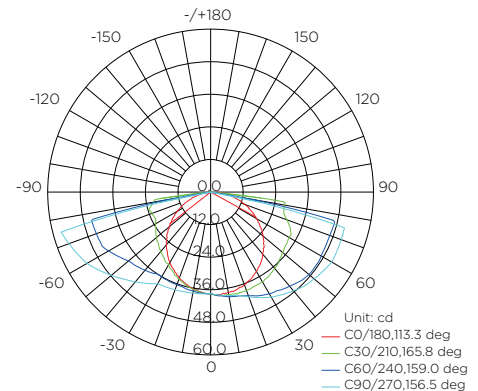
MAX LOAD 96 W

# Power Supplies	Max. Tube Length
1	32.8ft (10m)

PHOTOMETRIC DATA TABLE

	CCT	EFFICACY	BEAM ANGLE	LUMINOUS FLUX	POWER
	3000K Warm White	103.1 lm/W	150°	216.6 lm/ft 710.6 lm/m	2.1 W/ft 6.9 W/m
	4100K Neutral White				
	5300K Daylight				
	6500K Cool White				
	Red 625nm	44.5 lm/W		104.2 lm/ft 341.8 lm/m	2.1 W/ft 6.9 W/m
	Yellow 588nm	47.1 lm/W		110.5 lm/ft 362.3 lm/m	
	Green 525nm	34 lm/W		80 lm/ft 262.4 lm/m	
	Blue 465nm	15 lm/W		35.1 lm/ft 115.2 lm/m	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE (50%): 148.7 deg

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INSTALLATION

Field Cuttable LUXNEON is fully field cuttable every 2" (51mm). As seen in the installation guide, use a knife or recommended cutting tool.

Field Bendable LUXNEON is field bendable and may be laterally flexed or curved to fit your retail or architectural environment to create unique profiles, contours, and patterns. **LUXNEON is designed for lateral (left to right) side bending only.** Do not bend LUXNEON 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 -13°F ~ +140°F (-25°C ~ +60°C)

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

Mounting May be mounted with mounting clips or with a mounting channel. Mounting clips and channels must be secured onto a surface with screws before the LUXNEON product may be pushed into it to complete the installation. Mounting clips are ideal for indirect lighting applications. For direct lighting applications, the mounting channel is recommended. Mounting channels are also designed to help prevent the light engine from sagging when used for under shelf and cabinet applications.

Connecting Multiple Tubes LUXNEON may be purchased custom cut to your desired length or cut into smaller segments and connected with an interconnection connector to chain the tubes together. 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 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 32.8ft (10m). Applications requiring longer lengths than 32.8ft (10m) will require higher capacity drivers with multiple parallel connections between driver and LUXNEON or individual drivers for each 32.8ft (10m) run.

SAFETY DISCLOSURES

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

Outdoor Usage LUXNEON 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 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 32.8ft (10m) with a single power supply or 65.6ft (20m) with 2 power supplies. A fully Class 2 compliant LUXNEON 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.

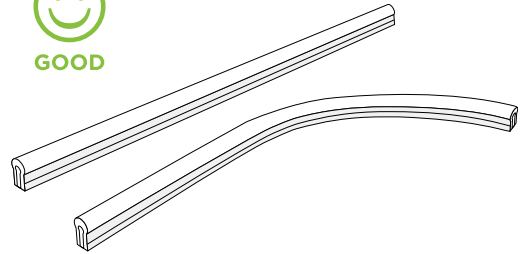
Actual Product Color May Vary Please note that the product color as seen in this specification sheet, photography, and related marketing material for this product may vary slightly from your actual customized product due to photographic and design limitations.

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.

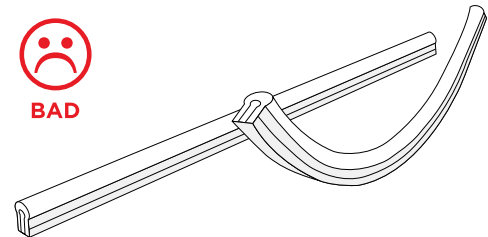
LATERAL SIDE BENDING

LUXNEON™ easily bends sideways from left to right.



CONVEX TOP BENDING

Never attempt a top bend with this product!*



*But we do offer a lighting solution designed for convex bending that is similar to the LUXNEON™ Side Bend Series. If interested, please reach out to one of our sales representatives for more information.

Current @ Compatible



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

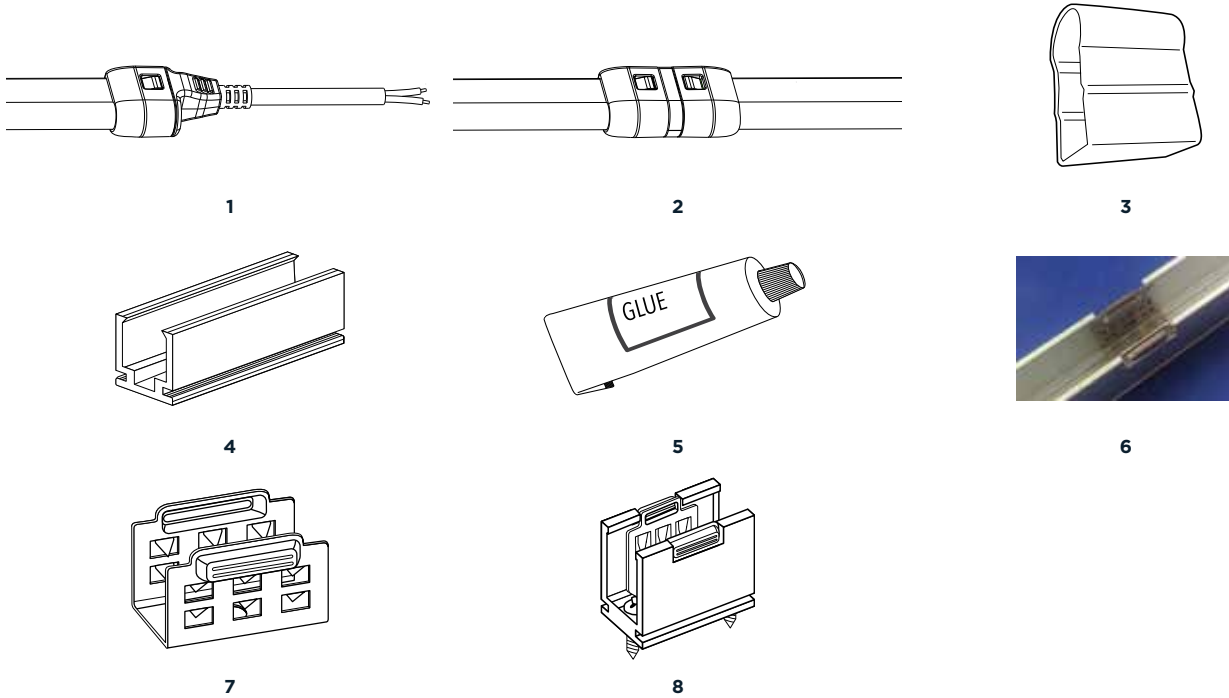
Contact us to inquire about other compatible controls

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AVAILABLE ACCESSORIES

#	PART NO.	COMPONENT	MATERIAL	PURPOSE
1	N24-PC	Power Supply Connector Set	Polypropylene	To help connect power supplies to the product.
2	N24-ICS	Interconnection Connector Set	Polypropylene	To connect multiple LUXNEON LED tubes together.
3	N24-EC	Silicone End Cap	Silicone	Protects the open wiring of the LED strip within the tube.
4	N24-AS	1.4" (3.5cm) Aluminum Installation Channel	Anodized aluminum	Smaller installation profile for applications where product needs to be visibly seen.
5	N24-G	1.52 fl. oz (45ml) Silicone Glue	N/A	Used to glue end caps, mounting clips and additional installation components to install the product.
6	N24-ACL	3.28 ft(1m) Aluminum Installation Channel with Embedded Clip	Anodized aluminum	Aids in the installation of longer LUXNEON LED tubes. Embedded clips prevent tubes from moving freely.
7	N24-ACS	1.4" (3.5cm) Aluminum Installation Channel	Anodized aluminum	Allows for surface mounting of product with screws.
8	N24-MC	Mounting Clip	Polypropylene	Allows for mounting the product.

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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™ CLASSIC PART NUMBER

EXAMPLE

NSSR24ZAB

LUXNEON™

NSSR

PRODUCT
LINE

24"

24

LENGTH

3000K

Z

COLOR

FROSTED
SILICONE

A

DIFFUSED
OPTION

DC BARREL

B

CONNECTOR

BUILD IT!

PRODUCT LINE

NSSR LUXNEON™ CLASSIC SIDE BEND

LENGTH (IN INCHES)

LL LENGTH (VARIES)

COLOR

W	6500K
V	5300K
Y	4100K
Z	3000K
R	RED
B	BLUE
G	GREEN
S	YELLOW
C	CUSTOM

DIFFUSED OPTION

A FROSTED SILICONE

CONNECTOR

B	DC BARREL JACK
H	HARDWIRE
M	MOLEX
C	SPECIAL

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