

# LUXNEON™ Mini Tape 0603

**TOP BEND**

Indoor/Outdoor Series

## SLIM LIKE AN LED TAPE LIGHT

**LUXNEON™ LED Mini Tape** is a cuttable, flexible LED neon tube light that acts like an LED tape light! This top bending lighting solution bends in an up and down, convex formation and features 90+ CRI, a wide beam angle, and hotspot-free illumination. This super slim like an LED tape light, it is provided with an adhesive backing that peels off to reveal short field cuttable segments. Simply place it in the mounting channel and plug it in for easy, fuss-free installation for your retail displays and compact applications!



The thinnest, hotspot-free neon tube lighting that acts like a tape light!

### KEY FEATURES


**FLEXIBLE  
TOP BEND**

**WIDE BEAM  
ANGLE**

**IP54 RATED**

**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**


PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

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## MECHANICAL

### PARAMETERS

**LED Count** 98 LEDs/ft (336 LEDs/m)

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

**Tube Dimensions** Tube cross-section: 0.12" (3mm) x 0.24" (6mm) • Front cap: 0.32" (8mm) x 0.98" (25mm) • Closing end cap: 0.32" (8mm) x 0.41" (10.5mm)

**Bending Diameter** 2.32" (60mm)

**Cutting Length** 0.82" (20.83mm)

### 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

**Channel Material** Aluminum

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

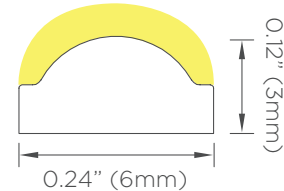
### COMPLIANCE & REGULATORY APPROVAL

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

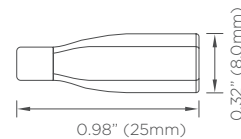
### COLORS

**Standard White Silicone Tubing** Milky white silicone

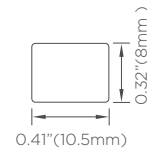
### SECTIONAL VIEW



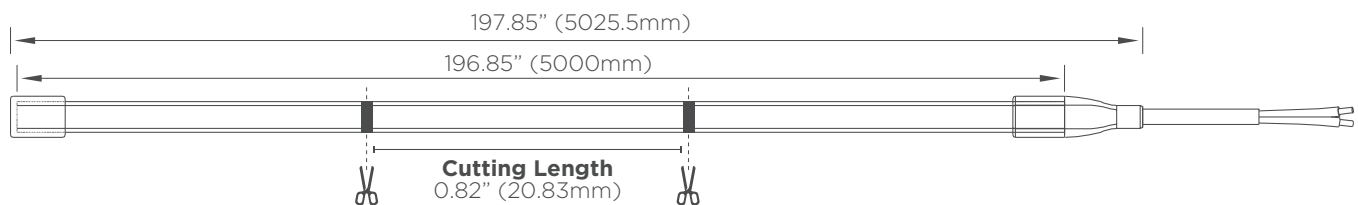
### FRONT CAP



### 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	24V	2.32" (60mm)	0.12" x 0.24" (3mm x 6mm)	0.82" (20.83mm)	7

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## ELECTRICAL

### PHOTOMETRICS

**Wide Beam Angle** 120°

**Lamp Life** 50,000+ hours

**Standard Color Temperatures** 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** 24VDC constant voltage

**Input Current** 0.10 mA/ft (0.31 mA/m)

**Power Consumption** White color temperatures 2.29 W/ft (7.5 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

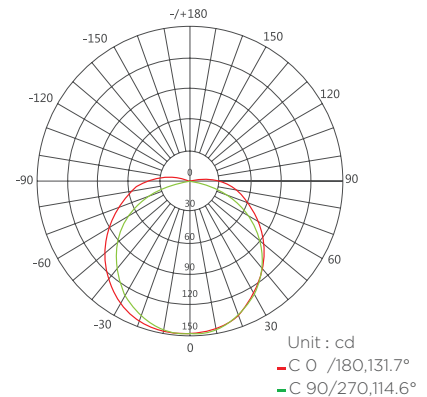
#### MAX LOAD 96 W CLASS 2 ONLY

# Power Supplies	Max. Tube Length
1	39.4ft (12m)

### PHOTOMETRIC DATA TABLE

	CCT	EFFICACY	BEAM ANGLE	LUMINOUS FLUX	POWER
	2700K Very Warm White	68 lm/W	120°	155.6 lm/ft 510.4 lm/m	2.29 W/ft 7.5 W/m
	3000K Warm White	72.9 lm/W	120°	166.6 lm/ft 546.6 lm/m	2.29 W/ft 7.5 W/m
	4100K Neutral White	73.2 lm/W	120°	166.6 lm/ft 551.8 lm/m	2.29 W/ft 7.5 W/m
	5300K Daylight	81.6 lm/W	120°	188.4 lm/ft 617.9 lm/m	2.30 W/ft 7.6 W/m
	6500K Cool White	79.5 lm/W	120°	185.7 lm/ft 609.0 lm/m	2.33 W/ft 7.7 W/m

### LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE (50%): 123.1°

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## INSTALLATION

**Field Cuttable** LUXNEON Mini Tape is fully field cuttable every 0.82" (20.83mm). Use scissors or straight edge cutting tool to cut along the LUXNEON's marked cut sections.

**Field Bendable** LUXNEON Mini Tape is field bendable and is designed to create unique profiles, contours, and patterns. **LUXNEON Mini Tape is designed for convex (up and down) "U" bending only.** Do not bend LUXNEON Mini Tape against its natural curvature, which will cause the internal LED light engine to snap and render it unusable.

**Environment** Indoor and general outdoor location safe. For outdoor installations, avoid prolonged exposure to water and install and secure end caps to LUXNEON with silicone. 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.

**IP54 Rated** LUXNEON Mini Tape is provided with IP54 protection. Tubes are protected from limited dust ingress and water sprayed from any direction.

**Operating Temperature** -13°F ~ +140°F (-25°C ~ +60°C)

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

**Mounting** May be mounted using the provided adhesive backing or retained in an aluminum channel. The aluminum channel must be fastened onto the mounting surface and cleared of debris prior to adhering the LUXNEON product to complete the installation. The aluminum channels are designed to prevent the LUXNEON from sagging and provide optimal retention to textured mounting surfaces.

**Connecting Multiple Tubes** LUXNEON Mini Tape may be purchased custom cut to your desired length or 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 Mini Tape 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 39.4 ft (12m). Applications requiring longer runs than 39.4ft (12m) will require higher capacity drivers with multiple parallel connections between driver and LED neon or individual drivers for each 39.4ft (12m) runs.

### SAFETY DISCLOSURES

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

**Outdoor Usage** LUXNEON Mini Tape 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 Mini Tape 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 39.4ft (12m) with a single power supply. A fully Class 2 compliant LUXNEON Mini Tape 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.

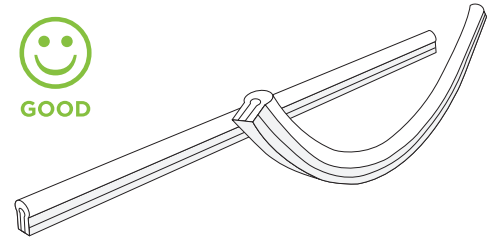
**Actual Product Color May Vary** Please note that the product color as seen in this specification sheet, photography, and related marketing material for this product may vary slightly from your actual customized product due to photographic and design limitations.

**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.

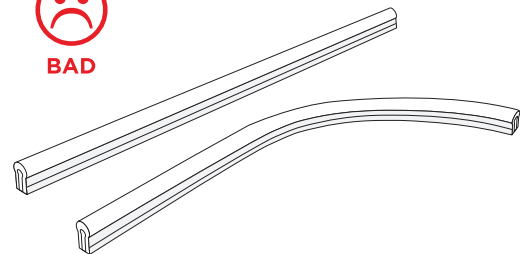
### TOP (CONVEX) BEND

LUXNEON is designed to bend in a top (convex/up and down) formation.


**GOOD**


### SIDE (LATERAL) BENDING

**Never attempt a side (lateral/left to right) bend with this product!\***


**BAD**


\*We do offer other LUXNEON options designed for lateral "S" bending. Please visit our website or reach out to our sales representatives for more information.

### CUTTING SEGMENTS

Peel back the adhesive backing to reveal cutting segments every 0.82" (20.83).



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**1**

**2**

**3**

**4**

**5**

## AVAILABLE ACCESSORIES

#	PART NO.	COMPONENT	MATERIAL	PURPOSE
1	<b>NDR0603-PCIS</b>	Front Cap	Silicone	Seals the input side of LUXNEON.
2	<b>NDR0603-ECS</b>	Closing End-cap	Silicone	Seals the end of a cut section.
3	<b>NDR0603-AC</b>	Aluminum Channel	Anodized aluminum	Optional mounting surface for LED neon.
4		Screws	Zinc coated steel	Secures the aluminum channel to mounting surface.
5		1.52 fl. oz (45ml) 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™ 0603	24"	3000K	DIFFUSED	DC BARREL
<b>NSMT24ZAB</b>	<b>NSMT</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

**NSMT** LUXNEON™ MINI PROFILE 0603  
TOP BENDING

### LENGTH (IN INCHES)

**LL** LENGTH (VARIES)

### COLOR

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

### DIFFUSED OPTION

**A** DIFFUSED

### CONNECTOR

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

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