



LED NEON LIGHT

NF-TBD-24V-5M-10X10MM-XXK-IP67

Feature

- Compact, high-impact resistant structure with matte dust-proof finish.
- Available in top-bend or side-bend with a 10mm square profile.
- Provides dot-free, uniform lighting up to 5 meters (16.4 ft).
- Waterproof (IP67/IP68) and impact-resistant (IK08) using silicone material.
- Custom die-cast endcaps for a premium appearance; field cuttable and easy to assemble.
- Dimmable via PWM signal.
- Long lifespan (50,000 hours) with CE/UL/RoHS certification and 5-year warranty.

Applications

- Suitable for decorative and contour lighting in commercial, architectural, and landscape environments.



Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
NF-TBD-24V-5M-10X10MM-27K-IP67	5000*10*10mm	2700k	SMD	24Vdc	9W/m	531lm/m	Ra≥90	Free-cutting	5m	IP67	120°
NF-TBD-24V-5M-10X10MM-30K-IP67	5000*10*10mm	3000k	SMD	24Vdc	9W/m	542.8lm/m	Ra≥90	Free-cutting	5m	IP67	120°
NF-TBD-24V-5M-10X10MM-35K-IP67	5000*10*10mm	3500k	SMD	24Vdc	9W/m	572.3lm/m	Ra≥90	Free-cutting	5m	IP67	120°
NF-TBD-24V-5M-10X10MM-40K-IP67	5000*10*10mm	4000K	SMD	24Vdc	9W/m	590lm/m	Ra≥90	Free-cutting	5m	IP67	120°
NF-TBD-24V-5M-10X10MM-50K-IP67	5000*10*10mm	5000K	SMD	24Vdc	9W/m	578.2lm/m	Ra≥90	Free-cutting	5m	IP67	120°
NF-TBD-24V-5M-10X10MM-60K-IP67	5000*10*10mm	6000K	SMD	24Vdc	9W/m	578.2lm/m	Ra≥90	Free-cutting	5m	IP67	120°



Parameters

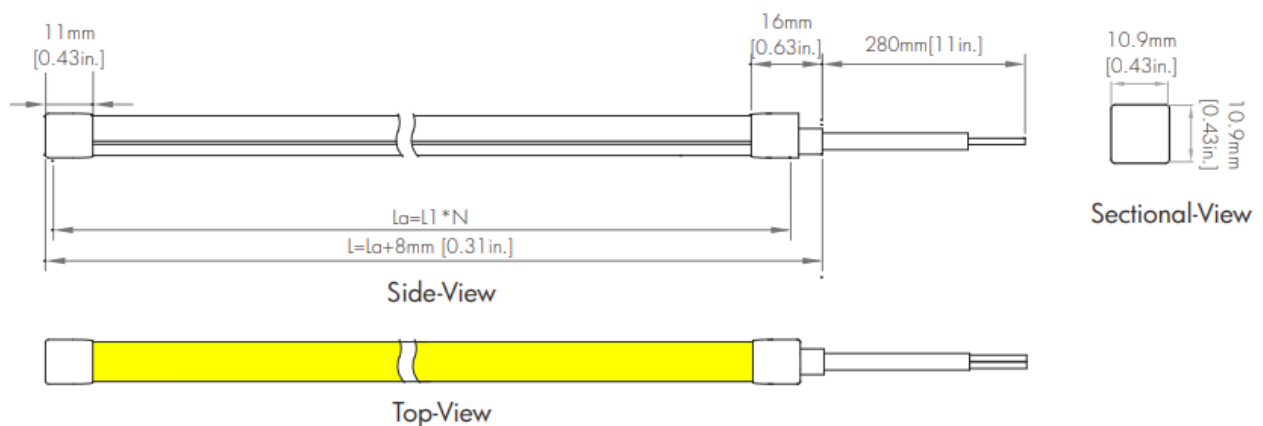
Style	Dimension	Max. Run Length (La) & Max. Shipping Length	Increment	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
Top-Bend (White)	W10xH10mm [W0.39xH0.39in.]	5M [16.4ft.] & 50M [164ft.]	Free-cutting to be any length	180LED/M [54LED/ft.]	IP67/IP68 (Optional) & IK08	Ta:-20~45°C [-4~113°F]	50,000h (L70@Tc<65°C [149°F] Tc is the temp of LED pin)	5 years (IP67 version) 3 years (IP68 version)
Side-Bend (White)								

Style	Power ±10% (L1x20)	Operating Voltage	Finished Product CCT/ Wavelength	IP67 CRI80, 4000K		IP67 CRI90, 4000K		Beam Angle
				Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	Light Efficiency	
Top-Bend (White)	9W/M [2.74W/ft.]	DC24V	2700K±120K 3000K±150K 3500K±300K 4000K±300K 5000K±400K 6000K±500K (LED is 3-step SDCM in one bin)	684lm/M [208lm/ft.]	76lm/W	590lm/M [180lm/ft.]	65lm/W	120°
	*8W/M [2.44W/ft.]			612lm/M [187lm/ft.]	76lm/W	522lm/M [159lm/ft.]	65lm/W	
Side-Bend (White)	9W/M [2.74W/ft.]			612lm/M [187lm/ft.]	68lm/W	522lm/M [159lm/ft.]	58lm/W	

Note:

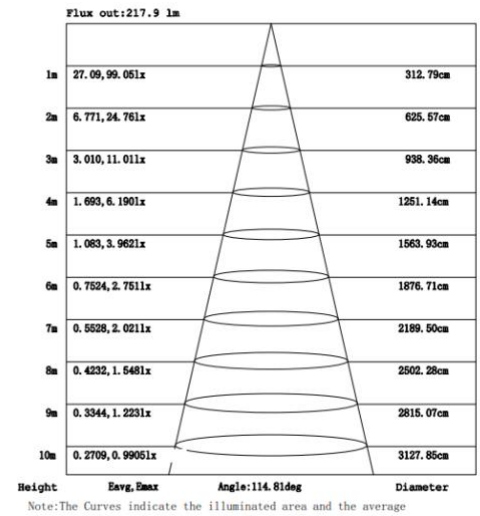
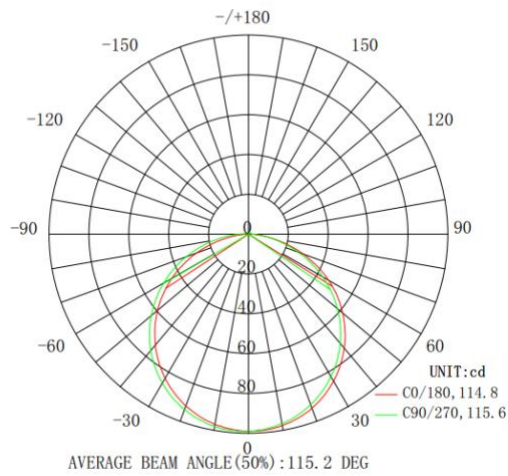
- (1) The luminous flux varies by colour temperature (CCT): 2700K is 10% lower, 3000K is 8% lower, 3500K is 3% lower, and 5000K/6000K are 2% lower compared with 4000K.
- (2) The maximum length (La) refers to the strip powered from one side.
- (3) The strip's power must be reduced to (6/5.3) W/m [(1.83/1.62) W/ft] for White & Top-bend, and 6 W/m [1.62 W/ft] for White & Side-bend when operating within an ambient temperature range of -20~55°C (-4~131°F).
- (4) The standard packing length is fixed per reel by default and does not include installation accessories; customized lengths require evaluation.
- (5) Installation accessory packs should be ordered separately based on specific requirements.

Dimensions Diagram





Spectroscopic Data



Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	13 November 2025	Jesse Jankelowitz	Michael Xu