



Neon Flex RGB LED – Slim Series

NF-SBD-24V-5M-4X8MM-XXK-IP54

Feature

- Ultra-slim design with excellent bending flexibility
- Flush-mount support for furniture grooves
- Uniform, dot-free lighting up to 5 m (16.4 ft) per run
- Cuttable to any length
- IP54 rated for indoor use
- PWM dimmable
- Durable PVC sheathing with advanced silicone extrusion technology
- High brightness, soft light, strong flexibility, impact and weather resistance
- Long lifespan up to 50,000 hours
- 5-year warranty

Applications

- Indoor furniture decorative lighting



Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
NF-SBD-24V-5M-4X8MM-27K-IP54	20,000*4*8.5mm	2700K	SMD (Side Bend)	24Vdc	9W/m	180lm/m	Ra≥90	Free Cut	20m	IP54	120°
NF-SBD-24V-5M-4X8MM-30K-IP54	20,000*4*8.5mm	3000K	SMD (Side Bend)	24Vdc	9W/m	184lm/m	Ra≥90	Free Cut	20m	IP54	120°
NF-SBD-24V-5M-4X8MM-40K-IP54	20,000*4*8.5mm	4000K	SMD (Side Bend)	24Vdc	9W/m	200lm/m	Ra≥90	Free Cut	20m	IP54	120°
NF-SBD-24V-5M-4X8MM-50K-IP54	20,000*4*8.5mm	5000K	SMD (Side Bend)	24Vdc	9W/m	196lm/m	Ra≥90	Free Cut	20m	IP54	120°
NF-SBD-24V-5M-4X8MM-60K-IP54	20,000*4*8.5mm	6000K	SMD (Side Bend)	24Vdc	9W/m	196lm/m	Ra≥90	Free Cut	20m	IP54	120°
NF-SBD-24V-5M-4X8MM-65K-IP54	20,000*4*8.5mm	6500K	SMD (Side Bend)	24Vdc	9W/m	196lm/m	Ra≥90	Free Cut	20m	IP54	120°



Parameters

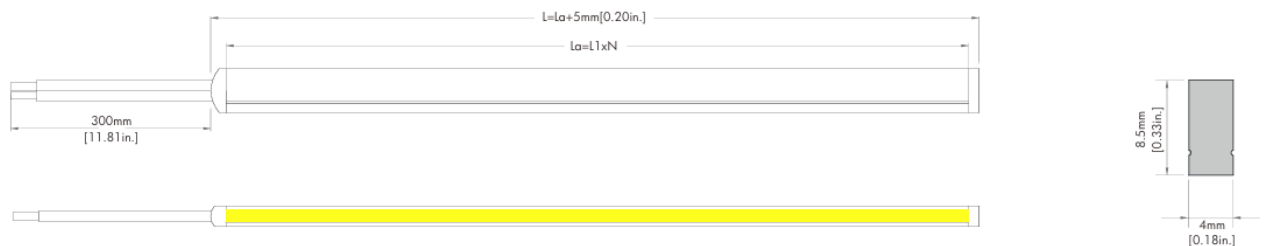
Style	Dimension	Max. Run Length (La) & Max. Shipping Length	Increment (L1)	LED Type	LED QTY	IP Rating	Operating Ambient	Lifespan	Warranty
Side-Bend (White)	W4xH8.5mm [W0.16xH0.33in.]	3M [9.84ft.] @12VDC 5M [16.4ft.] @24VDC & 30M [98.42ft.]	Free cut to be any length	SMD 2216	240LED/M [73LED/ft.]	IP54 [Damp] (indoor)	Ta: -20~45°C [-4~113°F]	50,000h (White) (L70@ Tc≤65°C[149°F], Tc is the temp. of LED pin.)	5 years (White)
	W6xH8.5mm [W0.24xH0.33in.]								
	W6xH8.5mm [W0.24xH0.33in.]	5M [16.4ft.] & 30M [98.42ft.]							

Style	Power ±10%	Operating Voltage	Finished Product CCT/ Wavelength	CRI80, 4000K		CRI90, 4000K		Beam Angle
				Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	Light Efficiency	
Side-Bend (White)	9W/M [2.74W/ft.]	12VDC / 24VDC	2700K±120K 3000K±150K 3500K±300K 4000K±300K 5000K±400K 6000K±500K (LED is 3-step SDCM in one bin)	\	\	200lm/M [61lm/ft.]	22lm/W	120°
		24VDC		\	\	315lm/M [96lm/ft.]	35lm/W	145°

Note:

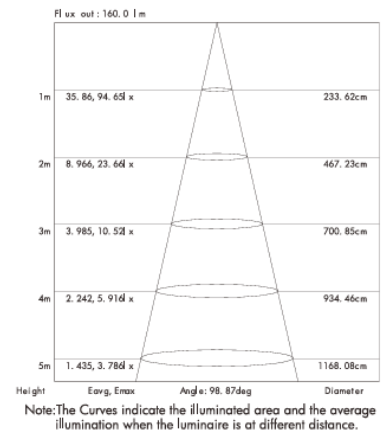
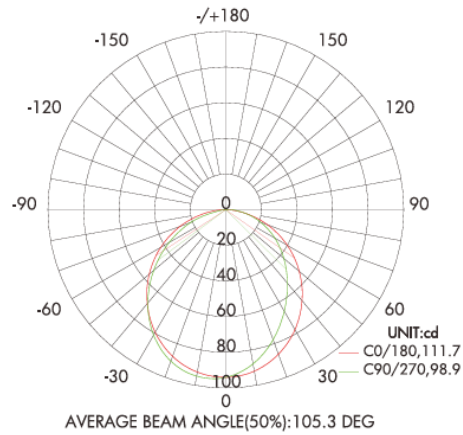
- (1) Luminous flux for CCT 2700K is 10% lower, for CCT 3000K is 8% lower, for CCT 3500K is 3% lower, for CCT 5000K/6000K is 2% lower, compared with 4000K.
- (2) The Max. Length (La) is defined as power fed on one side.
- (3) The power of the strip needs to be reduced to 6W/M[1.82W/ft.]@White and 8W/M[2.44W/ft.]@CCT/RGB for operating ambient temperature in -20~55°C[-4~131°F].
- (4) The standard packing length is fixed by default per reel without installation accessories; customized packing length is required to be evaluated.
- (5) Installation accessories pack should be ordered separately according to specific case.

Dimensions Diagram





Spectroscopic Data



Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	07 January 2026	Jesse Jankelowitz	Michael Xu