



Neon Flex RGB LED – Slim Series

NF-SBD-24V-XXM-6X12MM-RGB-IP67

Feature

- Easy and flexible installation (surface or flush mount; cabinet, shelf, etc.)
- Uniform, dot-free lighting up to 10 m (32.8 ft) per run
- Cuttable to any length with sealed end caps
- Dimmable via PWM signal
- Durable PVC sheathing with silicone extrusion technology
- High brightness, flexibility, impact and weather resistance
- Long lifespan up to 50,000 hours
- 5-year warranty

Applications

- Showcase and advertising display lighting
- Hotel, garden, and bridge lighting
- Corridor, ceiling, stair, and pathway lighting
- Signage and architectural lighting



Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
NF-SBD-24V-5M-6X12MM-RGB-IP67	5000*6*12mm	RGB	SMD (Side Bend)	24Vdc	12W/m	125lm/m	Ra≥90	50mm	5m	IP67	120°
NF-SBD-24V-20M-6X12MM-RGB-IP67	20,000*6*12mm	RGB	SMD (Side Bend)	24Vdc	12W/m	125lm/m	Ra≥90	50mm	10m	IP67	120°



Parameters

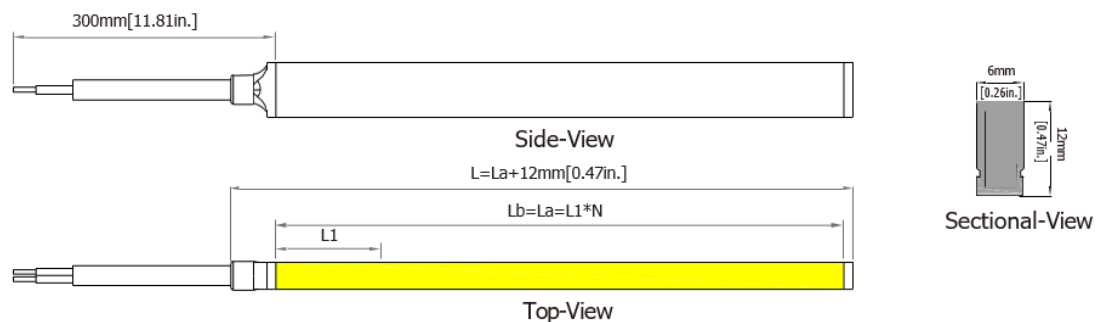
Style	Dimension	Max. Run Length (La) & Max. Shipping Length	Increment	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
Side-Bend (White)	W6xH12mm [W0.23xH0.47in.]	5M [16.4ft.] & 50M [164ft.]	Free cutting to be any length	SMD 2835	120LED/M [36LED/ft]	IP67 & IK06	Ta: -20~45°C [4~113°F]	50,000h (L70@ Tc≤65°C[149°F], Tc is the temp. of LED pin.)	5 years
Side-Bend (CCT)		10M [32.8ft.] & 50M [164ft.]							
Side-Bend (RGB)		5M [16.4ft.] & 50M [164ft.]	50mm [1.97in.]	SMD 2835	240LED/M [73LED/ft]				
			50mm [1.97in.]	SMD 4040	120LED/M [36LED/ft]				

Style	Power ±10%	Operating Voltage	Finished Product CCT/ Wavelength	CRI80, 4000K		CRI90, 4000K	Beam Angle
				Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	
Side-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)	260lm/M [80lm/ft.]	\	220lm/M [67lm/ft.]	120°
	6W/M [1.83W/ft.]		180lm/M [55lm/ft.]	\	150lm/M [46lm/ft.]		
Side-Bend (CCT)	12W/M [3.66W/ft.]		2700K~6000K CCT-tunable (LED is 3-step SDCM in one bin)	2700K:154lm/M [47lm/ft.] 6000K:169lm/M [52lm/ft.] Mix:323lm/M [98lm/ft.]	\	2700K:131lm/M [40lm/ft.] 6000K:144lm/M [44lm/ft.] Mix:275lm/M [84lm/ft.]	
Side-Bend (RGB)	12W/M [3.66W/ft.]		R:650-630nm G:515-525nm B:460-470nm	R:28lm/M [8.5lm/ft.], G:81lm/M [24.7lm/ft.] B:16lm/M [4.9lm/ft.], Mix:125lm/M [38lm/ft.]			

Note:

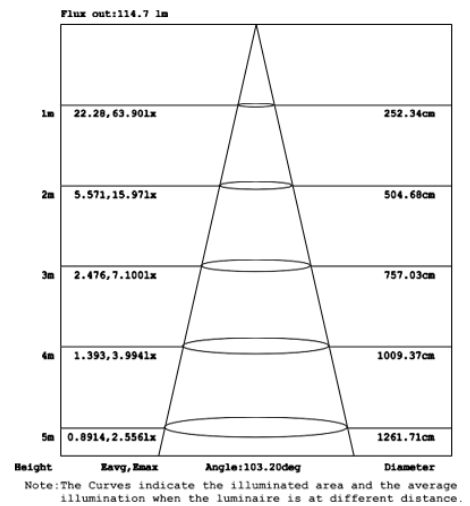
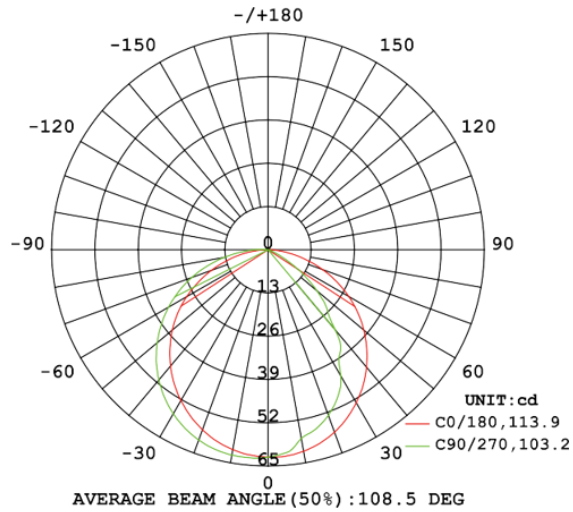
- (1) Luminous flux for CCT 2700K is 10% lower, for CCT 3000K is 8% lower, for CCT 3500K is 3% lower, for CCT 5000K/6000K is 2% lower, compared with 4000K.
- (2) The Max. Length (La) is defined as power fed on one side.
- (3) The power of the strip needs to be reduced to 6W/M[1.82W/ft.]@White and 8W/M[2.44W/ft.]@CCT/RGB 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
1.1	Initial release	22 July 2026	Jesse Jankelowitz	Michael Xu