

# Professional Vertical Bend LED Neon Flex - 24V - 13mm x 12mm - IP67

# tagra®

SKU: NEONSIDE1312/10MKIT-V2



- ▶ Vertical Bending
- ▶ IP67 Protection
- ▶ Great flexibility
- ▶ 6 Colour Options
- ▶ 10 Metre Kit
- ▶ 3YR Warranty

### Description

- ▶ High luminous efficiency
- ▶ High purity silica gel material
- ▶ Vertical Bending, Non-spotting
- ▶ UL, CE, RoHs, UKCA, CB certification
- ▶ Resistance to salt solutions, acids & alkali corrosion, flame retardant and UV rays

### Electrical Data

SKU	Voltage	Current Consumption			Power Consumption		
		Max.	Typ.	10m	Max.	Typ.	10m
NEONSIDE1312/10MKIT-WHITE-V2	24V	0.4A/m	0.4A/m	3.6A	10.6W/m	9.6W/m	96W
NEONSIDE1312/10MKIT-RGB-V2	24V	0.5A/m	0.5A/m	4.5A	13.2W/m	12W/m	120W
NEONSIDE1312/10MKIT-RGBW-V2	24V	0.6A/m	0.6A/m	5.4A	16W/m	14.4W/m	144W

### Photometric & Light Data

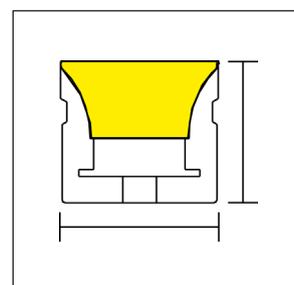
Colour Temperature	CRI	Beam Angle	Dimmable	LEDs / m	Lumens / m	Cut Points
2700K (VWW)	>90	120°	Yes	140 LEDs	710lm	50mm
3000K (WW)	>90	120°	Yes	140 LEDs	740lm	50mm
4000K (NW)	>90	120°	Yes	140 LEDs	760lm	50mm
5000K (CW)	>90	120°	Yes	140 LEDs	710lm	50mm
RGB	-	120°	Yes	84 LEDs	-	83.3mm
RGB+5000K	-	120°	Yes	192 LEDs	-	62.5mm

### Mechanical Data

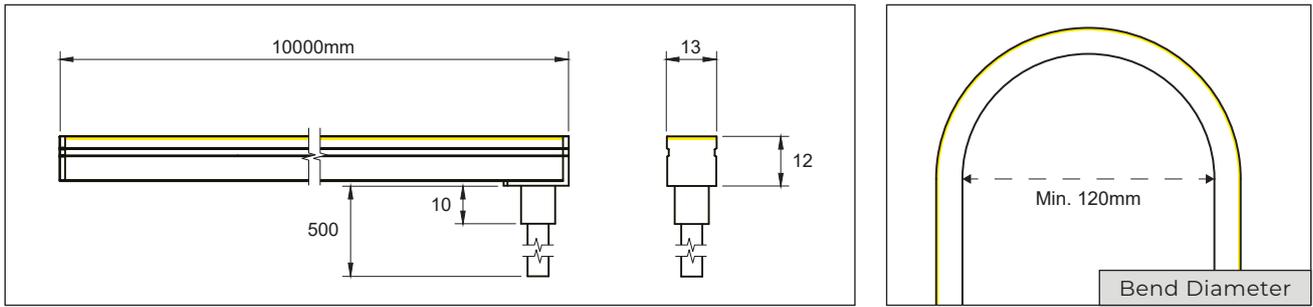
IP Rating	Bend Diameter	Cable Length	Cable End	IK Rating
IP67	120mm	500mm	Single End	IK08

Working Temp.	Storage Temp.	Lifespan	Warranty	Material
-25°C ~ +55°C	-0°C ~ +60°C	36,000 hours	3 Years	Silicone

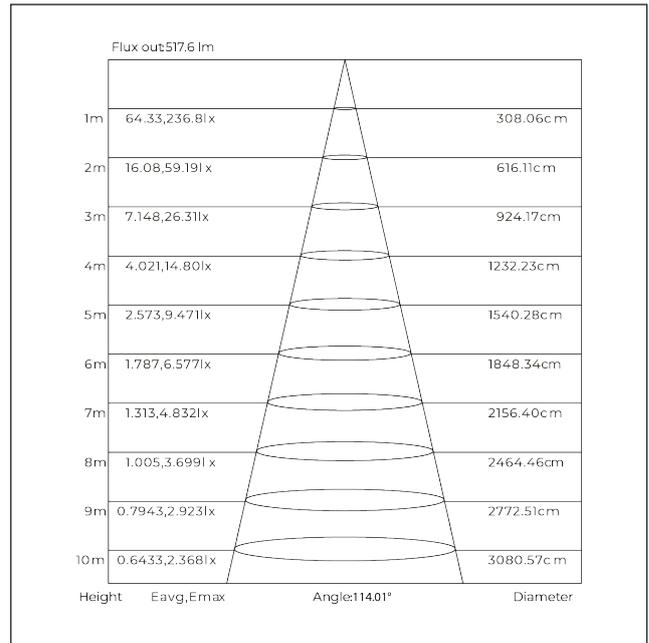
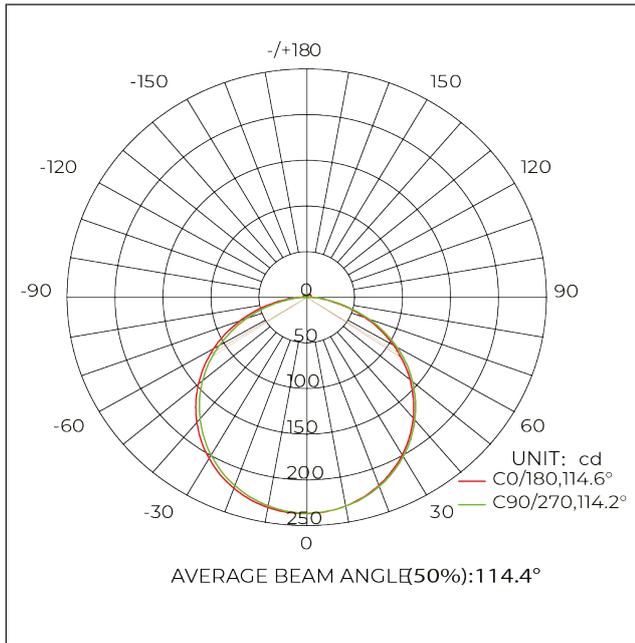
Length	Length Tolerance	Width	Height
10000mm	±3.5mm	13mm	12mm



## Dimensions



## Light Distribution

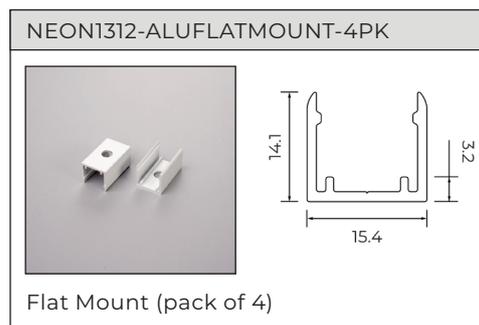


► Note: the above data is based on 24V 4000K colour temperature. If you require other IES files please get in touch.

## Available SKUs

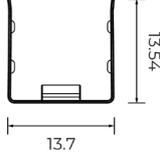
SKU	Length	Colour
NEONSIDE1312/10MKIT-VWW-V2	10000mm	2700K
NEONSIDE1312/10MKIT-WW-V2	10000mm	3000K
NEONSIDE1312/10MKIT-NW-V2	10000mm	4000K
NEONSIDE1312/10MKIT-CW-V2	10000mm	5000K
NEONSIDE1312/10MKIT-RGB-V2	10000mm	RGB
NEONSIDE1312/10MKIT-RGBW-V2	10000mm	RGB+5000K

## Accessories



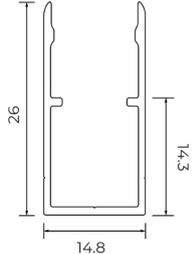
Accessories (continued)

NEON1312-MOLDCHAN05M



Moldable Aluminium Track (500mm)

NEON1312-ALURAISEDMOUNT-4PK



Raised Mount (pack of 4)

NEON1312ENDCAP-BOT



End cap bottom (pack of 4)

NEON1312ENDCAP-LEFT



End cap left (pack of 4)

NEON1312ENDCAP-STRAIGHT



End cap straight (pack of 4)

NEON1312-IPCONNBOTT



IP Connector (500mm)

NEON1312-IPCONNLEFT



IP Connector (500mm)

NEON1312-IPCONNRIGHT



IP Connector (500mm)

NEON1312-IPCONNTOP



IP Connector (500mm)

NEON1312-IPCONNCABLE



Mid-joint connector (300mm)

NEON1312-IPCONNE2E



End-end connector (pack of 2)

## Reliability Testing

Test	Classification	Reference	Test method or condition
Safety Tests	Mechanical Strength	IEC 60598-1 IEC 60598-2-21	Hammer spring impact energy, 0.7J
	IP	IEC 60598-1 IEC 60598-2-21	IP67
	Winding Test	IEC 60598-1 IEC 60598-2-21	∅150mm cylinder, 60N pull, winding 10 times at (-25°C±2°C), and 10 times after (-15°C±2°C, 16h).
	Cold Bend Test	IEC 60598-1 IEC 60598-2-21	Wound on mandrel, low-temp (-15°C±2°C, 16h), around the mandrel for two turns.
	Cold Impact Test	IEC 60598-1 IEC 60598-2-21	Low-temp (-15°C±5°C, 16h), hammer falls from height of 100mm.
	Insulation Resistance	IEC 60598-1 IEC 60598-2-21	≤2MΩ
	Electrical Strength	IEC 60598-1 IEC 60598-2-21	500V
Mechanical Tests	Bending Test	-	Each 200mm, bending up and down 100 times.
	Bending Test	-	Each 200mm, bending left and right 100 times.
	Torsion Test	-	Twist clockwise 5 times and then release, repeat 200 times.
	Disassembly & Assembly Test	-	Repeat disassembly and assembly, 10 times
Environment Tests	High Temp. Storing Test	IEC 60068-2-2	80°C, 168h
	Low Temp. Storing Test	IEC 60068-2-1	-40°C, 168h
	High Temp. & Humidity Impact	IEC 60068-2-78	60°C, 85% RH
	Salt Spray Test	IEC 60068-2-11	5% salt solution concentration, 24h
	IK	IEC 62262	5 times of impact on each exposed surface
	Lifetime Aging Test	-	35°C, 6000h
	Switch Test	-	10s on, 10s off, 10000 times