LED
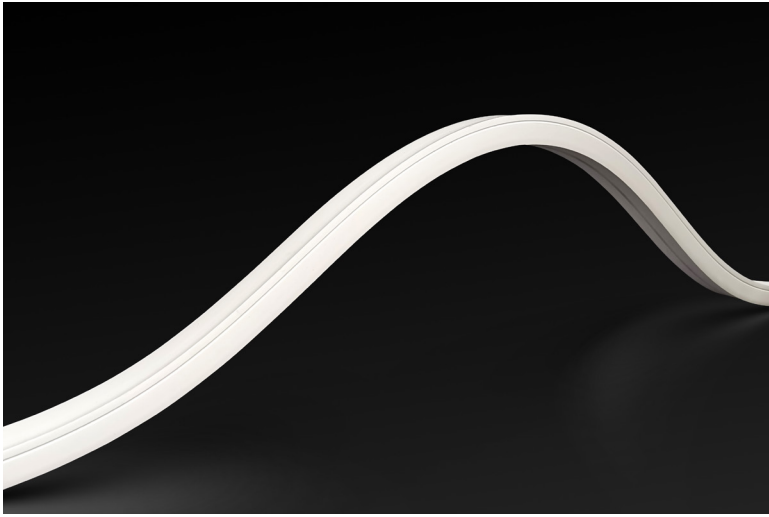## NEON FLEX

NDF3020

BLUEVIEW
Better Light Better View

LED NEON FLEX

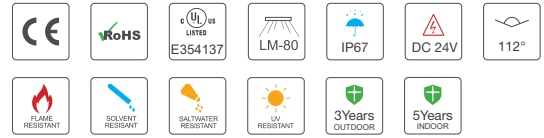## Features

- Color options: Single color, RGB;
- The circuit is designed with high quality electronic components;
- Silicone extrusion molding technology with stable performance;
- Better environmental adaptability;
- Top bending and easy to shape;
- Max run 15m(single feed) with no lumen drop;
- Warranty: 5 years indoors, 3 years outdoors;

CE | RoHS | UL LISTED E354137 | LM-80 | IP67 | DC 24V | 112°

FLAME RESISTANT | SOLVENT RESISTANT | SALTWATER RESISTANT | UV RESISTANT | 3Years OUTDOOR | 5Years INDOOR

Optical & Electrical Parameters

Model No.	Voltage	Ra	Color	Lm/m	Lm/W	Rated Power
NDF3020-Single color	24V DC	>80	3000K	498	43	11.52 W/m
		>80	4000K	495	43	
		>90	5000K	512	44	
		>80	6500K	513	44	
NDF3020-Single color	24V DC	/	Red	188	16	11.52 W/m
			Green	509	44	
			Blue	94	8	
			Yellow	464	40	
			Orange	175	15	
NDF3020-RGB	24V DC	/	Red	59	12	5.76 W/m
			Green	76	15	5.76 W/m
			Blue	25	4	5.76 W/m
			RGB	/	/	17.28 W/m

Other Parameters

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF3020-Single color	112	15000.0mm	62.5mm	-20~+60℃	-20~+70℃
NDF3020-RGB	72	5000.0mm	83.33mm		

Profile Drawings

Unit: mm[inch]

5016.0[197.48]

5000.0[196.85]
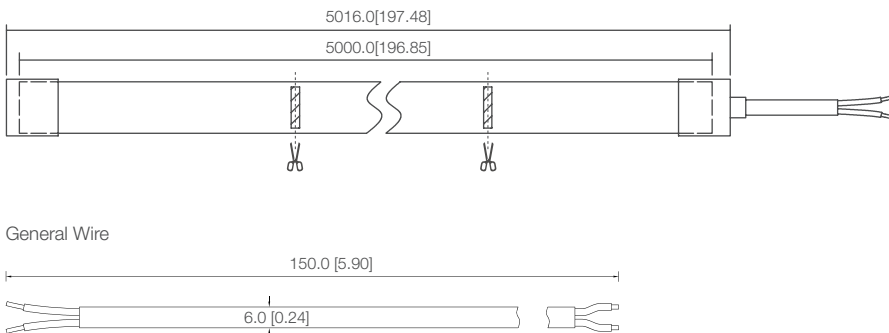
Glue process IP67

Front cap

22.0[0.86]

26.0[1.08]

Closing End-cap

22.0[0.86]

20.0[0.78]

General Wire

150.0 [5.90]

6.0 [0.24]
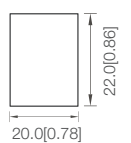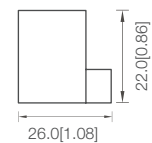
Luminous Intensity Distribution Diagram

Average Illumination

Unit: cd
C 0 /180,112.1°
AVERAGE BEAM ANGLE (50%): 112.3°   C 90/270,112.4°

Flux Out: 96.86lm

Height	Eavg, Emax	Beam Angle: 107.98°	Diameter
0.2m	406.9,1270lx		55.04cm
0.4m	101.7,317.4lx		110.07cm
0.6m	45.21,141.1lx		165.11cm
0.8m	25.43,79.36lx		220.14cm
1.0m	16.28,50.79lx		275.18cm
1.2m	11.30,35.27lx		330.21cm
1.4m	8.304,25.91lx		385.25cm
1.6m	6.358,19.84lx		440.28cm
1.8m	5.023,15.68lx		495.32cm
2.0m	4.069,12.70lx		550.35cm
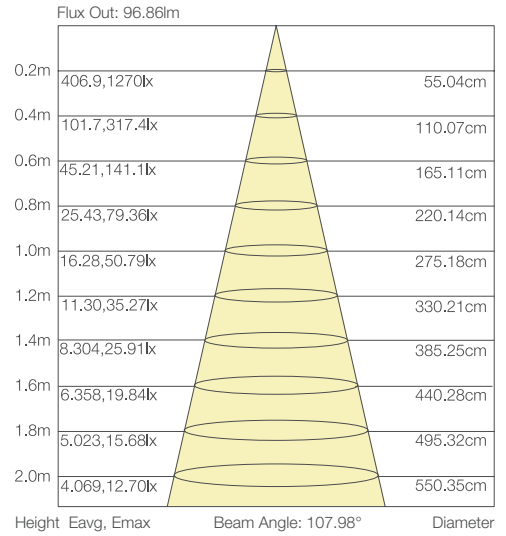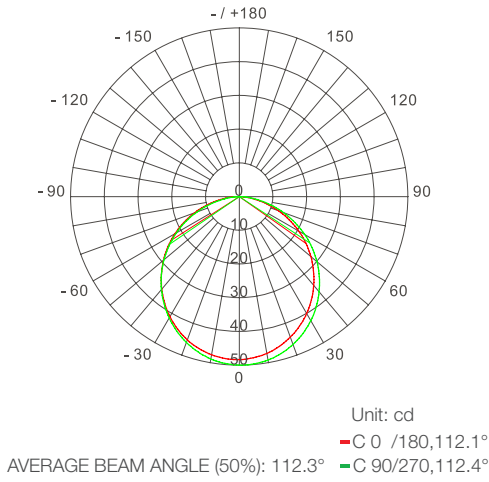
Note: The data is the test result of NDF3020-O. For other data, please consult sales rep.

Recommended power supply upon working length

NDF3020-Single color

| Working Length	Measured Current	Rated Voltage (DC)	Measured Power	Recommended Power Supply	Power Supply Mode
1 m	0.48 A	24 V	11.52 W	15 W	Single Feed
15 m	7.2 A	24 V	172.8 W	220 W	Single Feed

NDF3020-RGB

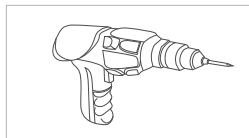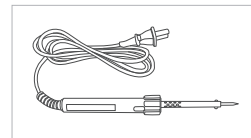| Working Length	Measured Current	Rated Voltage (DC)	Measured Power	Recommended Power Supply	Power Supply Mode
1 m	0.72 A	24 V	17.28 W	24 W	Single Feed
5 m	3.2 A	24 V	77 W	100 W	Single Feed

Products and Tools
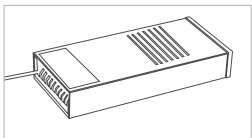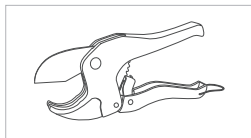
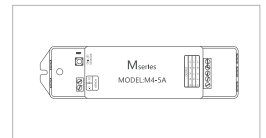| LED power supply | Cutter | Electric drill | Electric iron | Controller(optional) |

Product accessories

Front cap

Model No.:
Quantity (5/15m):
Dimensions (L*W*H): 32*22*22mm

Closing End-cap

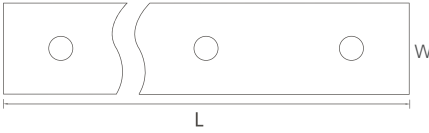Model No.:
Quantity (5/15m):
Dimensions (L*W*H): 32*16*22mm

Screws

Model No.: PA3
Quantity (5/15m):
Dimensions (L*W*H): PA3*10mm

Silicone Glue
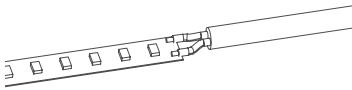
Model No.: WR-7516
Quantity(5/15m):
Dimensions: 45g/pc

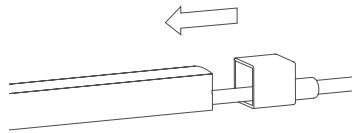| Model	L(mm)	W(mm)	Type
Aluminum Channel	29	23	Optional
Aluminum Channel X	X	--	Customized

Note: The accessory quantity is changeable according to customers' needs.
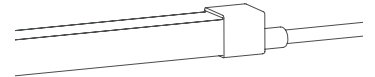
Installation

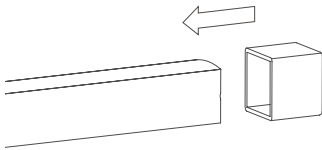**Front cap installation**

Weld the wire to the PCB board.

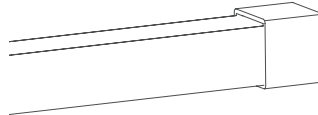Fill the end cap with glue, then install it to the strip.

Wipe off the excess glue and wait for drying
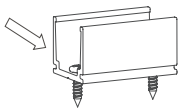
Closing end-cap installation

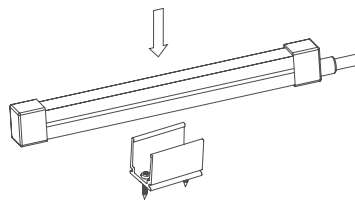Fill the end cap with glue, then install it to the strip.

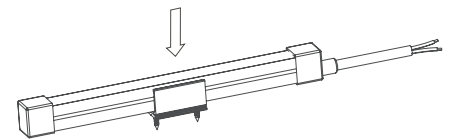Wipe off the excess glue and wait for drying

Aluminum track installation

Fix the aluminum track with screws.

Press the strip into the aluminum track

Finished

Note:
- At the welding place, pay attention to the positive and negative of the line and the strip; they must be connected correctly.
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The mounting screws must be vertical to the mounting surface and must be fastened, as shown in the figure on the right;
- The customer can choose the appropriate operation steps according to the actual needs;
- During the mounting, pay attention to the minimum bending diameter of the product at the corners. It's better to use our matching accessories to install, so as to avoid unnecessary losses;
- More information, please feel free to consult us.
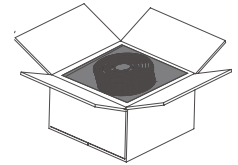
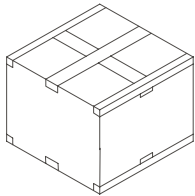## Packaging Information
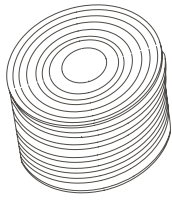
Roll up the product
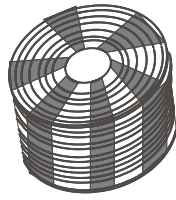
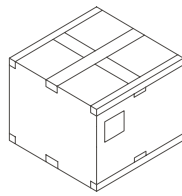Wrap the product with PE film
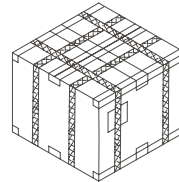

Wrap again with pearl cotton

Put the product into a carton box

Seal the carton box;

Label the carton box;

Use packing belt to pack. Add edge protectors if necessary

Packaging information

Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF3020-Single color	15000*30*20	545*515*350	15	4	/(1±10%)
NDF3020-RGB	5000*30*20	480*445*370	5	6	/(1±10%)

- 5/15m per reel, finally put into a carton box
- For other customized length packaging, please ask our sales rep.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

Reliability test

| Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	TH=-40°C~60°C, cycle every 2h (holding 15min, heating and cooling 45 min)	Pass
		High temperature resistance test	Simulated TH=80 °C, continuous power on	
		UV test	UV wavelength: 315-400nm; radiation intensity: 0.83W/m2 TH=50°C/ 5h; spray:1h	

Warning Mark
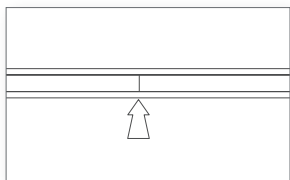
Cuttable identifier
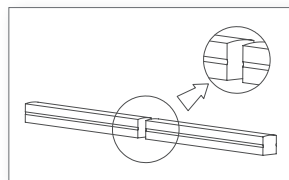
Neat and smooth cut
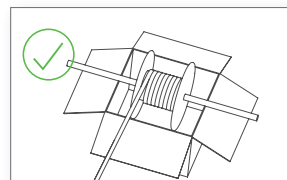
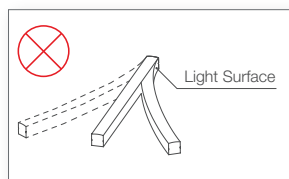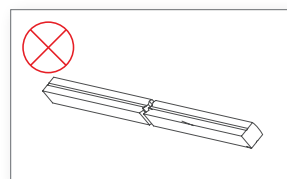Insert a stick on the reel and place it on the packing box,and rotate the reel to get the product.
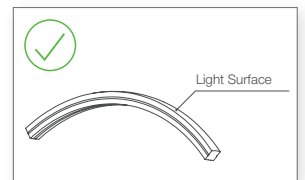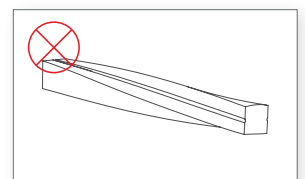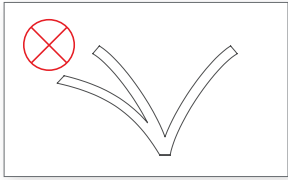

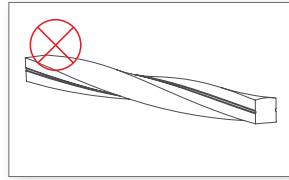use in convex direction
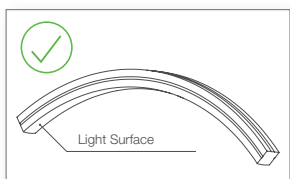
Use in concave direction
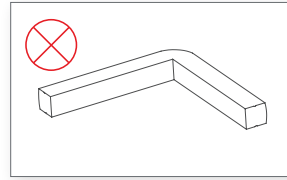

Side bending

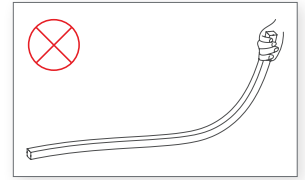Do not make irregular cuts.

Do not use in distortions

Do not bend many times,for it can endanger electronic lines.

Do not use on wringing(twist)

Do not bend at right angles

Do not throw or pull when taking products

Note:

1. There are cutting marks on the PCB;
2. Please pay attention to above warnings during transportation and using;

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm2 cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.

Statements and Recycling

Packaging information

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.