



LED

NEON FLEX

NSR0817





Features

- Color options: Single color/WN/RGB.
- High-quality constant current components with stable performance.
- Single color supports PWM dimming within 10KHz.
- Side bending with great flexibility.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.

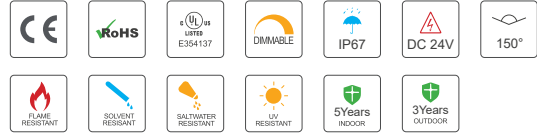


Photo-electric Parameters

Model No.	Voltage	Ra	Color	Lm/m	Lm/W	W/m
NSR0817-Single color	24V DC	>90	2400K	486	50	9.84
			2700K	468	49	
			3000K	494	51	
			3500K	506	52	
			4000K	508	53	
			5000K	528	55	
			6000K	512	53	
NSR0817-Single color	24V DC	/	Red	164	17	
			Green	514	53	
			Blue	114	12	
			Yellow	98	10	
			White	164	17	
NSR0817-WN	24V DC	>90	2400K	220	44	4.92
			6000K	238	47	4.92
			W+N	456	45	9.84
NSR0817-RGB	24V DC	/	Red	38	12	3.28
			Green	142	40	3.28
			Blue	28	8	3.28
			RGB	206	20	9.84

Note: the error of luminous flux and power is ±10%

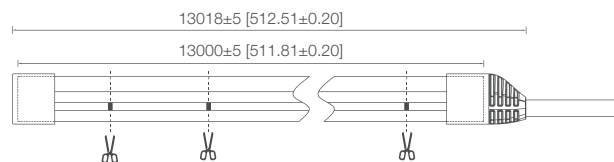
Other Parameters

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NSR0817-Single color	140	13.0m	50.0mm	-20 +60°C	-20~+70°C
NSR0817-WN	240	5.0m			
NSR0817-RGB	120	5.0m			

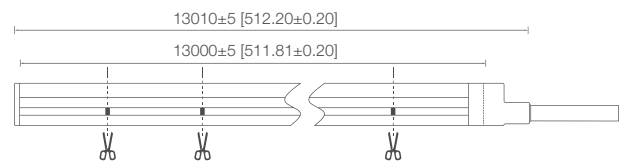
Profile Drawings

Unit:mm[inch]

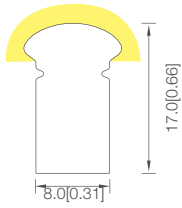
Glue Process (IP67)



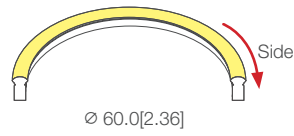
Molding Pressed (IP67)



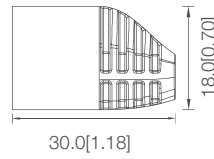
Sectional view



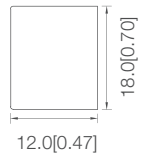
Bend direction



Front cap



Closing End-cap

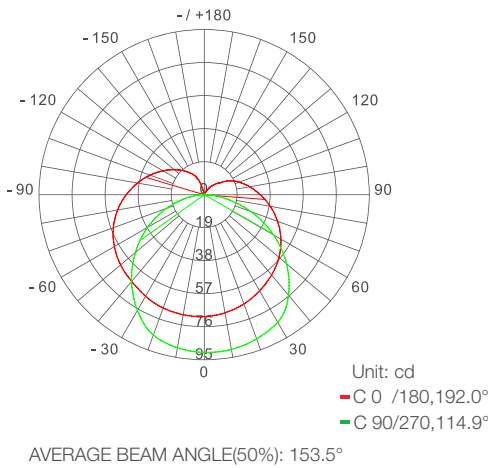


Remarks:

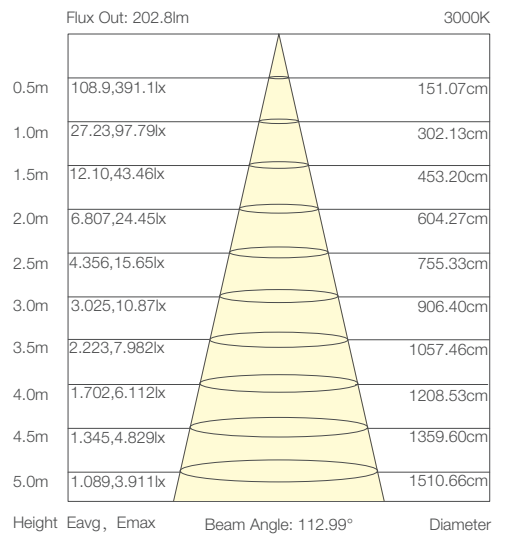
The strip length supports customization within 13m.

IP67 rating: suitable for humid environments, can be soaked for a short period of time, depth ≤ 1m, duration ≤ 1h.(Factory assembly only)

Luminous Intensity Distribution Diagram



Average Illumination



Note: Above data is based on NSR0817 Single color-3000K. For more info, please contact sales rep.

Recommended power supply upon working length

NSR0817-Single color

Working Length	Measured Current	Rated Voltage (DC)	Measured Power	Recommended Power Supply	Power Supply Mode
1 m	0.4 A	24 V	9.6 W	15 W	Single Feed
13 m	5.0 A	24 V	120 W	150 W	Single Feed

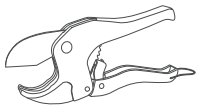
NSR0817-WN

Working Length	Measured Current	Rated Voltage (DC)	Measured Power	Recommended Power Supply	Power Supply Mode
1 m	0.41 A	24 V	9.9 W	15 W	Single Feed
5 m	1.9 A	24 V	45.6 W	60 W	Single Feed

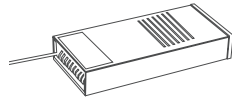
NSR0817-RGB

Working Length	Measured Current	Rated Voltage (DC)	Measured Power	Recommended Power Supply	Power Supply Mode
1 m	0.41 A	24 V	10.0 W	15 W	Single Feed
5 m	2.0 A	24 V	48.0 W	60 W	Single Feed

Products and Tools



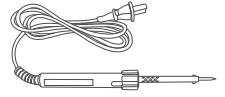
Cutter



LED power supply



Electric drill



Electric iron

Product accessories

Free



Front cap
Model No.:
Quantity:
Dimensions (L*W*H): 30*12*19mm



Closing-end cap
Model No.:
Quantity:
Dimensions (L*W*H): 12*12.5*18mm

Optional



Front cap (left outlet)
Model No.:
Dimensions (L*W*H):



Front cap (right outlet)
Model No.:
Dimensions (L*W*H):



Front cap (bottom outlet)
Model No.:
Dimensions (L*W*H): 16.5*12*33mm



Aluminum Channel 25mm
Model No.:
Dimensions (L*W*H): 25*10.6*15.5mm



Aluminum Channel
Model No.:
Dimensions (L*W*H): 1000*10.6*15.5mm

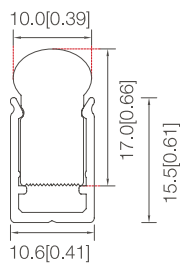


Screws
Model No.: PA3
Dimensions: PA3*10mm



Silicone Glue
Model No.: WR-7516
Dimensions: 45g/pc

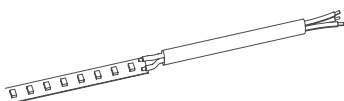
Profile Drawings (neon + aluminum channel)



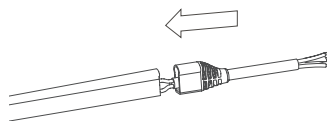
Aluminum Channel
ASY-NSR0817-A1(A3)NNXXX-MT

Installation

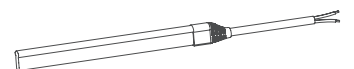
Front cap installation



Weld the wire to the PCB board.

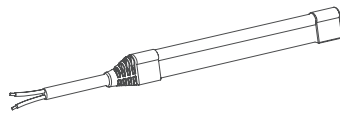
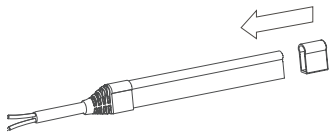


Fill the end cap with glue, then install it to the strip



Wipe off the excess glue and wait for drying

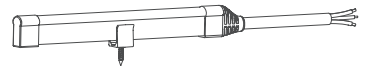
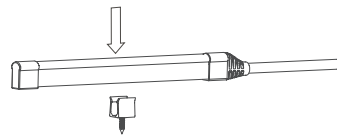
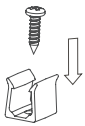
Closing-end cap installation



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

Wipe off the excess glue and wait for drying

Plastic clip installation



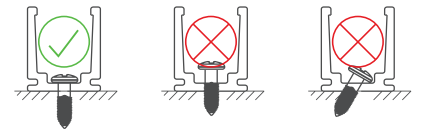
Fix the installation clip with screws

Put the strip into the clip

Finished

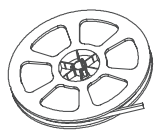
Note:

- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please choose suitable operation steps according to the actual needs;
- During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
- More information, please feel free to consult us;

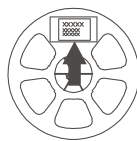


Packaging Information

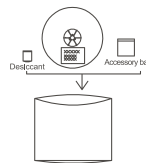
5m standard run length



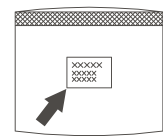
Roll the product to a reel



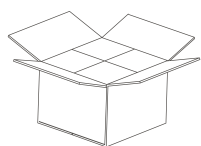
Label the reel;



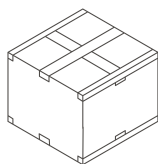
Put reel, accessory bag and desiccant together into static shielding bag;



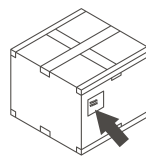
Seal and label the static shielding bag;



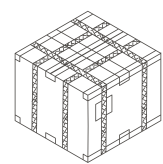
Put the packed static shielding bag into carton box;



Seal the carton box;

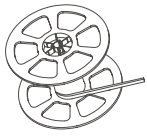


Label the box;

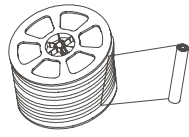


Use packing belt to pack. Add edge protectors if necessary.

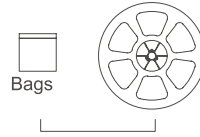
13m standard run length



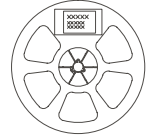
Roll the product to a reel



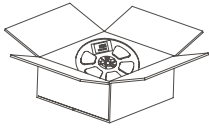
Wrap the reel with PE film



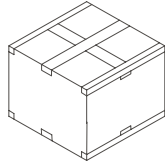
Put the reel and accessories bag on the work table



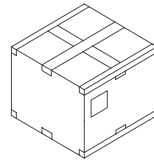
Label the reel;



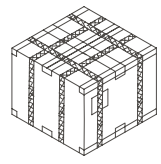
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



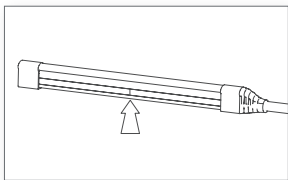
Use packing belt to pack. Add edge protectors if necessary

Packaging information

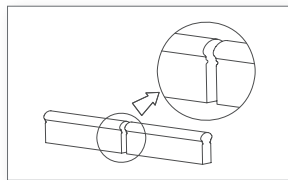
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NSR0817-Single color (W/G/B)	13000*8*17	390*390*325	26	3	16.20(1± 10%)
NSR0817-WN	5000*8*17	390*390*325	5	10	11.00(1± 10%)
NSR0817-RGB	5000*8*17	390*390*325	5	10	11.00(1± 10%)

- 26 m/reel means 2 pieces of 13m neon on a reel.
- 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.

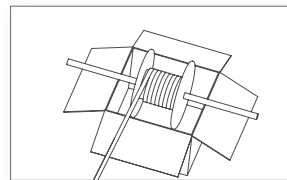
Warning Mark



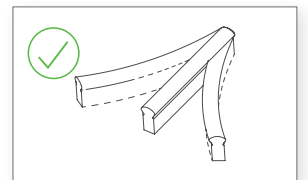
Cuttable identifier



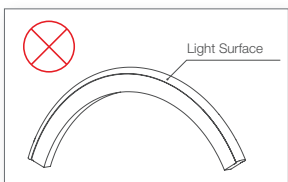
Neat and smooth cut



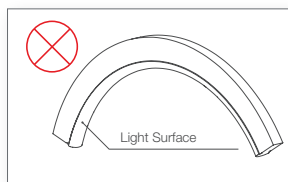
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



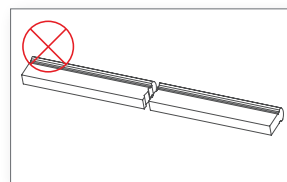
Side bending



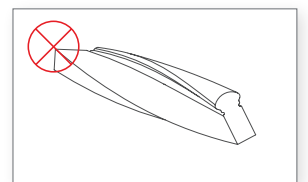
Use in convex direction



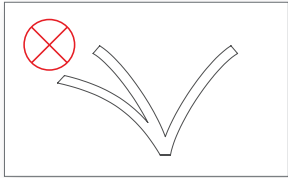
Use in concave direction



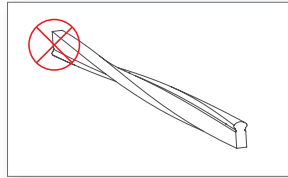
Do not make irregular cuts.



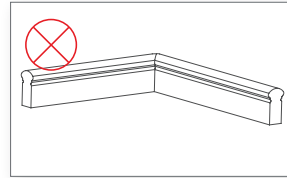
Do not use in distortions



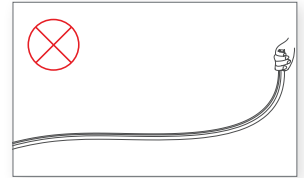
Do not bend many times, for it can endanger electronic lines.



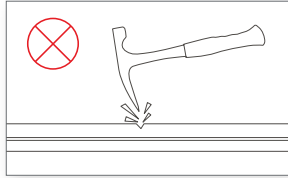
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Note:

There are cutting marks on the FPCB;

Please pay attention to the above warnings during transportation and mounting;

Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Lumbient 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=60°C, continuous power on	
		Room temperature aging test	TH=25°C, continuous power on	
Mechanical strength testing	Lumbient standard	Tensile test	Fix the ends of the sample on the tension machine, then power on and record the tension value when the sample is turned off.	Pass
		Twisting test	24V light on; rotate 360° forward and reverse, if the sample still OK, increase the degree of rotation until the sample broken.	

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

Statements

- 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.
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Version	Content	Date
A1.2	Upgrade: Profile Drawings (neon + aluminum channel)	2023-8-31

Lumbient

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- Email: sales@lumbientled.com