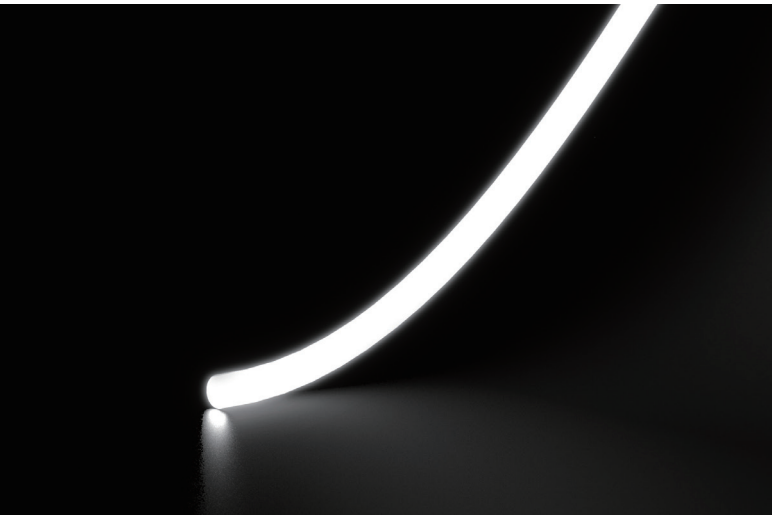


360°

LIGHT-EMITTING
NEON

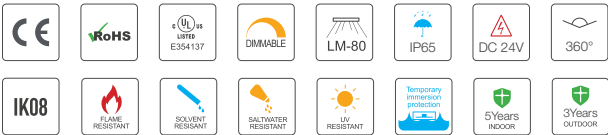
NCR23





Features

- Color options: **White/ Red/Green/Blue/Yellow/Orange/RGB.**
- Design: Superior design with exquisite craftsmanship ensure stable and reliable performance.
- 360° light-emitting with good flexibility.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.
- Single color supports PWM, 0-10V, DALI and DMX dimming.



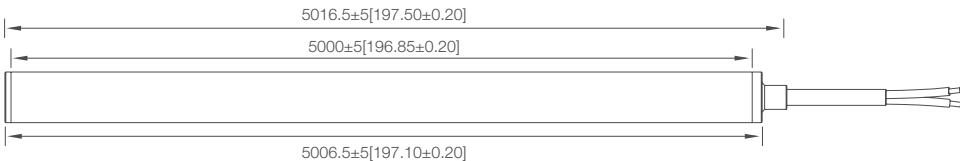
Optical & Electrical Parameters

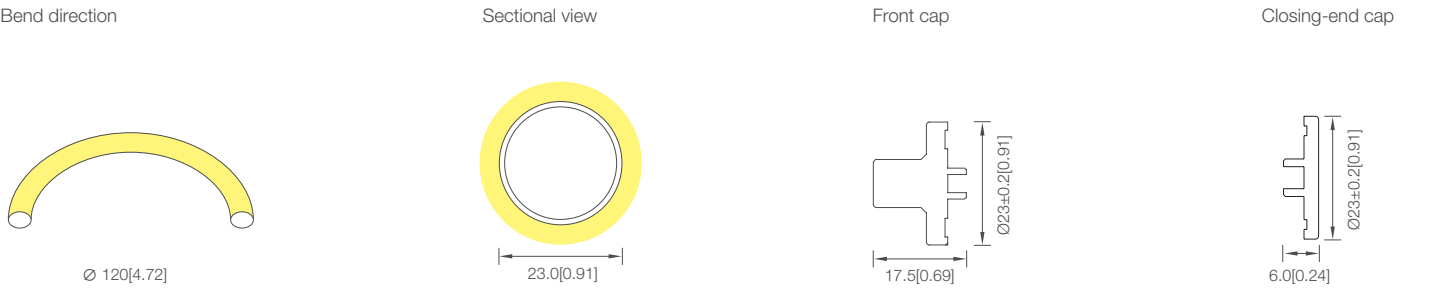
Model No.	Voltage	Ra	Color	Lm/m	Lm/W	W/m
NCR23-Single color	24V DC	>80	2400K	1156	71.6	16.0
			2700K	1270	84.3	
			3000K	1457	90.3	
			4000K	1466	90.5	
			5200K	1473	92.8	
			6500K	1362	85.1	
		/	Red	435	27.2	16.0
			Green	1338	83.6	
			Blue	315	19.7	
			Yellow	201	12.6	
			Orange	393	24.6	
NCR23-RGB	24V DC	/	Red	140	21.8	6.4
			Green	444	69.4	6.4
			Blue	94	14.6	6.4
			RGB	660	34.4	19.2

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NCR23-Single color	336	5000mm	35.71mm	-20~+60℃	-20~+70℃
NCR23-RGB	240	5000mm	50mm		

Profile Drawings

Unit:mm[inch]

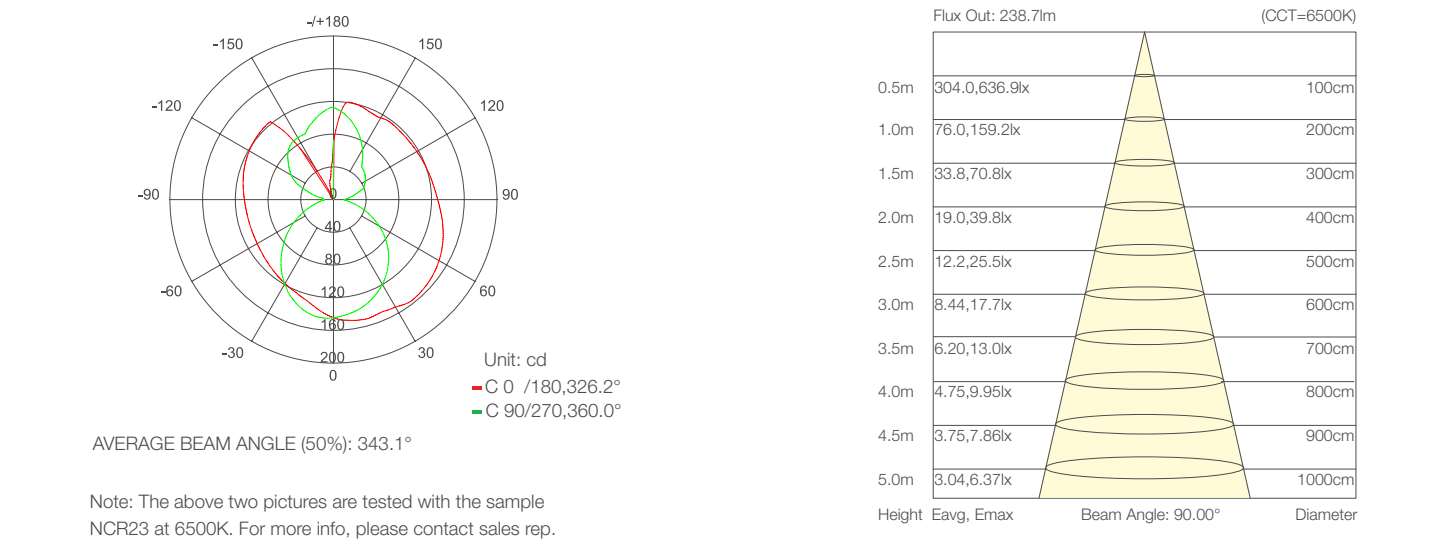




Note: the strip length supports customization within 5m

Luminous Intensity Distribution Diagram

Average Illumination

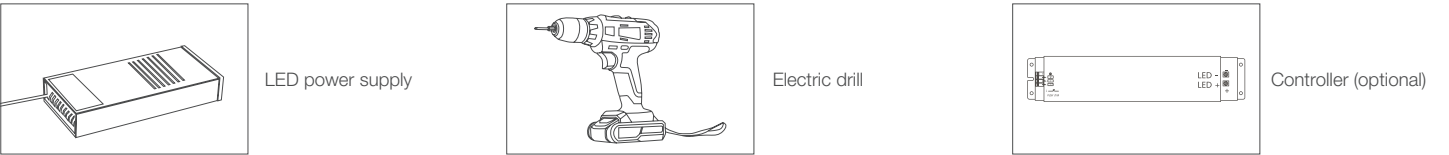


Recommended power supply upon working length

NCR23-Single color					
Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.67 A	24V DC	16.0 W	25 W	Single Feed
5m	2.80 A	24V DC	67.2 W	100 W	Single Feed

NCR23-RGB					
Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.84 A	24V DC	20.16 W	25 W	Single Feed
5m	3.85 A	24V DC	92.4 W	100 W	Single Feed

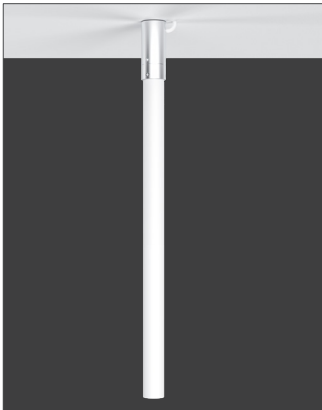
Products and Tools



Installation method



Plastic Clip
01.06.JS20070106



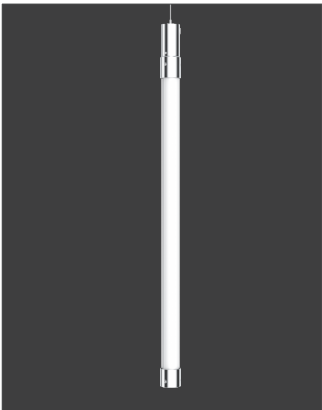
Ceiling Kit - hardware set
01.06.PJ21011401



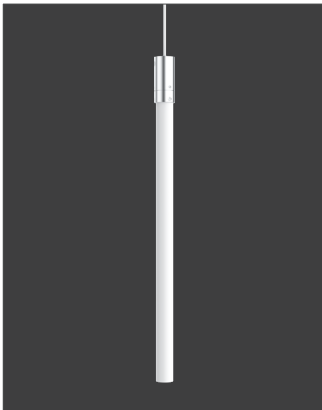
Ceiling Kit - hardware and PC tube set
01.06.PJ21011403



Ceiling Kit - PC groove
01.06.PJ20121504



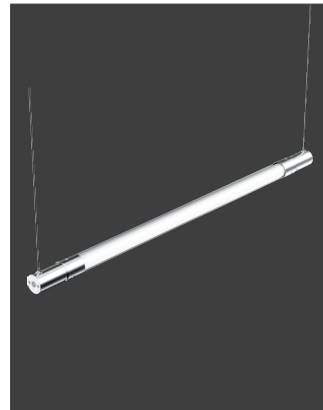
Pendant Kit - hardware and PC tube set
01.06.PJ21011404



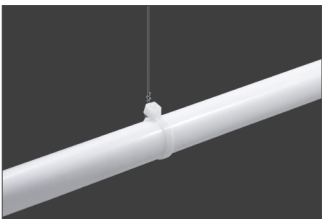
Pendant Kit - output wire two in one
01.06.PJ21011402



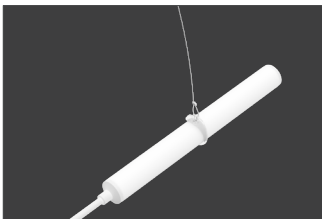
Pendant Kit - steel cable and PC groove
01.06.PJ20121503



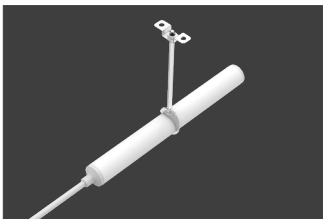
Pendant Horizontal Kit - hardware and PC tube set
01.06.PJ21012801



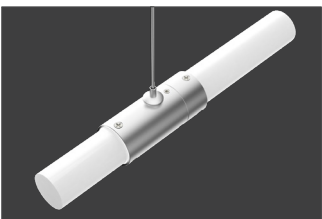
Pendant Kit - steel cable and ribbon
01.08.JS20080601



Pendant Kit - steel cable and hook
01.06.PJ20121501



Pendant Kit - pole and hook
01.06.PJ20121502

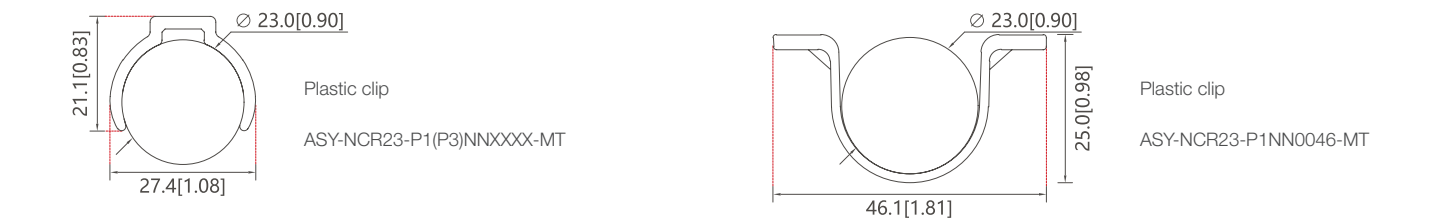


Splice set
01.06.PJ20121505

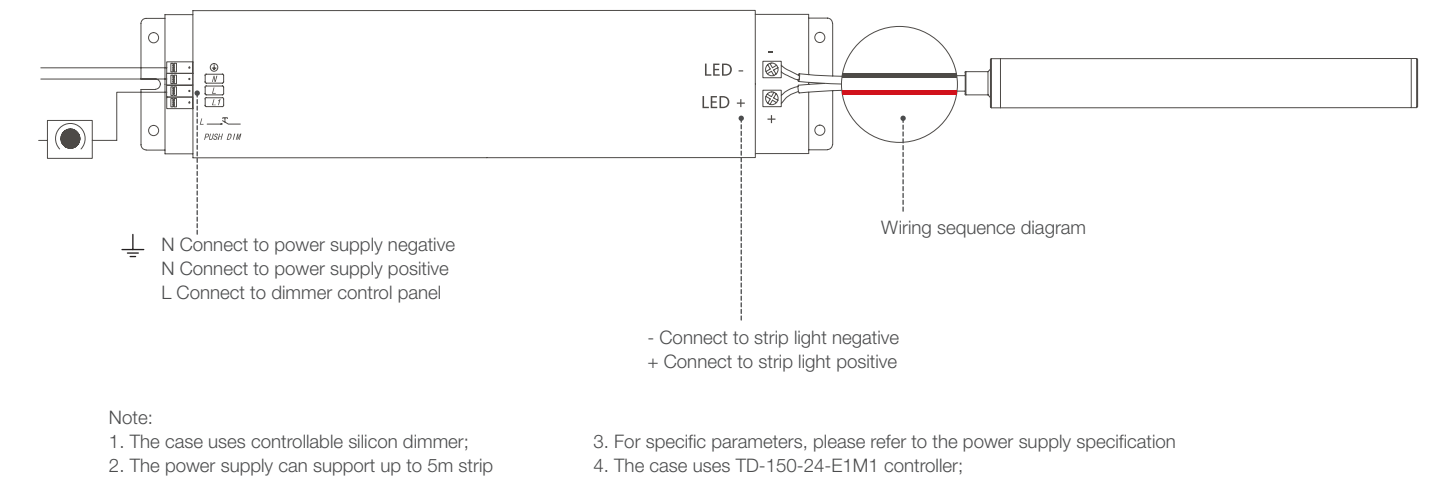


Hardware end-cap set
01.06.PJ21011405

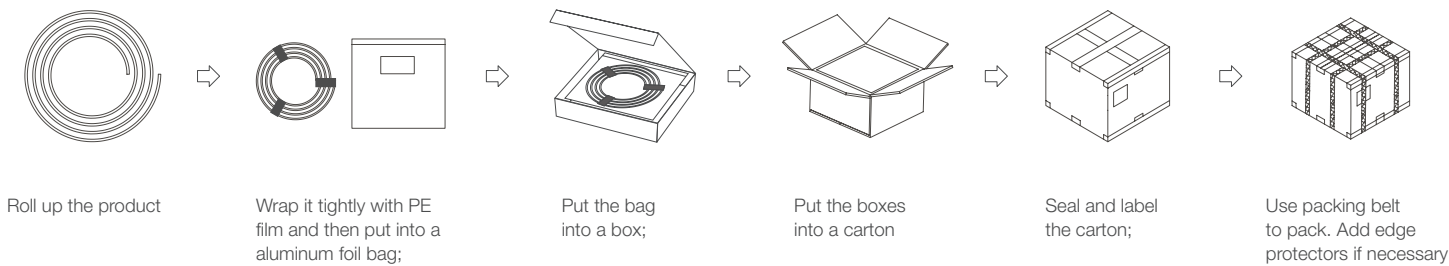
Profile Drawings (neon + aluminum channel)



Controller wiring diagram



Packaging Information



Packaging information

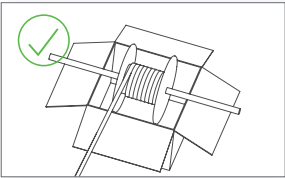
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NCR23	5000*23*23	480*445*370	5	6	15.35(1± 10%)
NCR23-RGB	5000*23*23	480*445*370	5	6	15.35(1± 10%)

- 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.

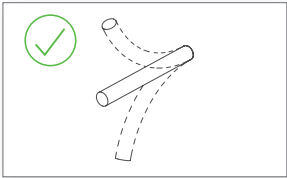
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60°C, continuous power on	
		Room temperature aging test	TH=25°C, continuous power on	
		Water-spray test	Exposed to the rain:12h/day, switch cycle lights up every hour	
Mechanical strength testing	Blueview standard	Room temperature bending test	Bending diameter 10cm, Ta=25°C, continuously light on	Pass
		Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

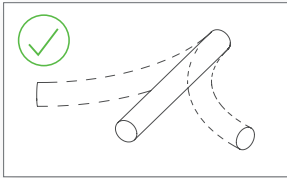
Warning Mark



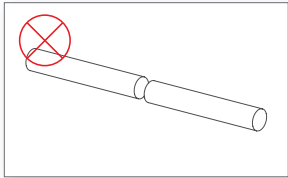
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



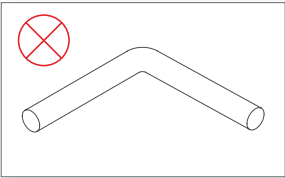
Correct usage



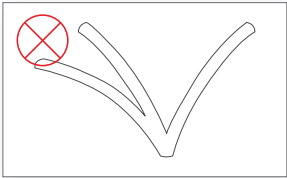
Correct usage



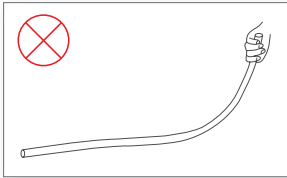
Do not make cuts.



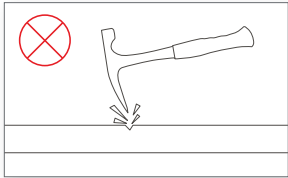
Do not bend at right angles



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



Do not throw or pull when taking products



Avoid touching sharp objects

Note: Please pay attention to above warnings when 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.

Version	Content	Date
A2.7	Update: Basic Parameters, Recommended power supply	2023-12-12