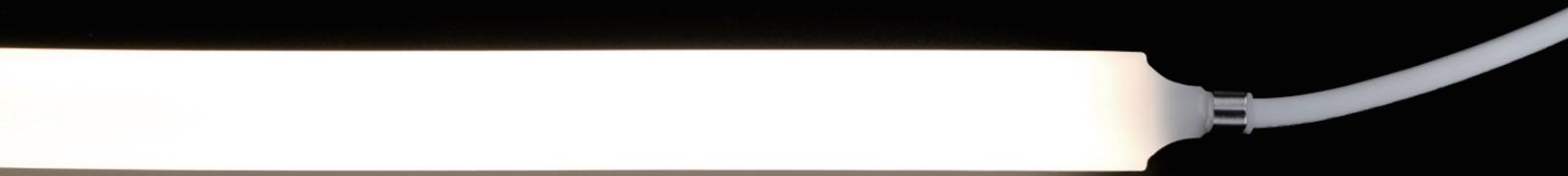


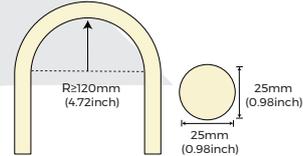
MAGIC 360 Series Specification

NNR25-IP



【Features】

- Light source: high luminous efficiency LED lamp beads, LM80 test certification;
- Process material: high light transmittance, high purity silica gel material, IP67 protection level;
- Optical design: unique optical light distribution structure design, 360° light output uniformly without shadows;
- Appearance design: skin-friendly surface treatment, comfortable touch, good flexibility, and simple shape;
- Product certification: CE, ROHS, REACH, UKCA;
- Environmental characteristics: salt solution resistance, acid and alkali corrosion resistance, flame retardant resistance, UV resistance;
- White light working/storage temperature: Ta: -40~60°C / 0°C~60°C;
Symphony working/storage temperature: Ta: -25~50°C / 0°C~60°C;
- DMX chip mode and pixel count: RGB: UCS512C1L, 10Pixels/m;
- Product application: office lighting, decorative lighting, artistic lighting, modeling contrast;
- 5 years warranty or working life =60000H,



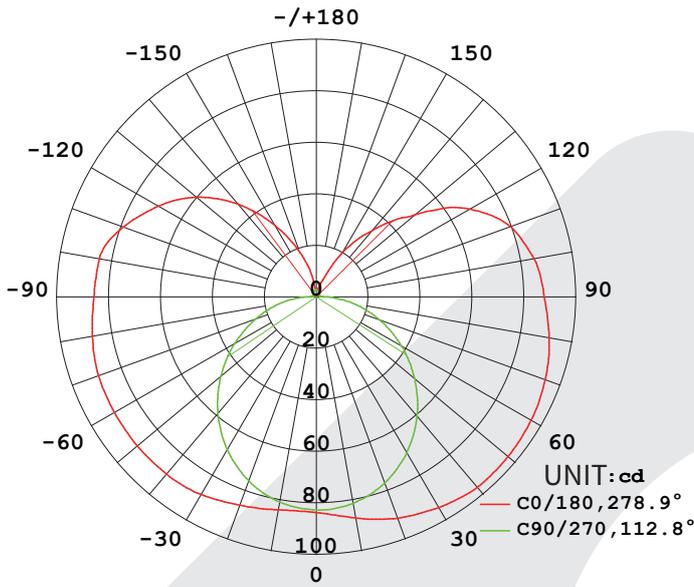
【Basic Parameters】

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
NNR25-9XX 24CSN050CCXXXX -IP-ESD	2300K	2200-2400K	>90	24V	0.57 (0.17A/ft)	13.7 (4.18W/ft)	16 (4.88W/ft)	560(171/ft)	5000mm (16.4ft)	No cutting 28LED/33.3mm
	2700K	2600-2800K						605(184/ft)		
	3000K	2800-3200K						640(195/ft)		
	4000K	3800-4200K						690(210/ft)		

Note:

1. The above parameters are tested based on 1m (3.28ft) standard products;
2. The luminous flux is allowed to have an error range of ±15%;
3. The above parameters are typical values;

[Light Distribution]



AVERAGE BEAM ANGLE(50%):195.8 DEG

Light distribution

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

Flux out: 412.8 lm

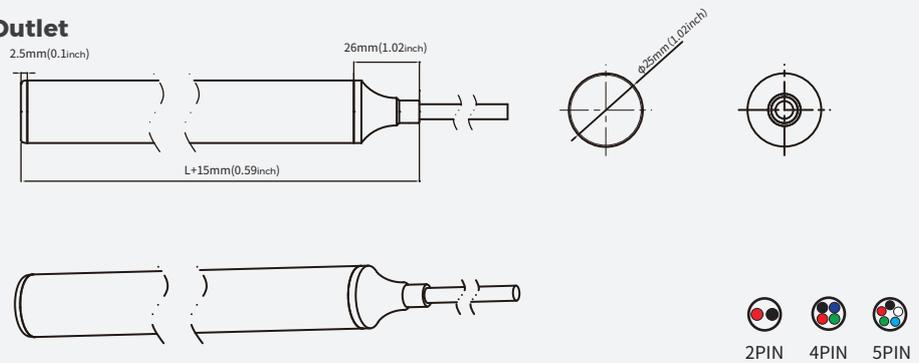
Height	Eavg, Emax	Angle:175.00deg	Diameter
1m	0.1602, 84.101x		4580.75cm
2m	0.0401, 21.031x		9161.50cm
3m	0.0178, 9.3451x		13742.26cm
4m	0.0100, 5.2571x		18323.01cm
5m	0.0064, 3.3641x		22903.76cm
6m	0.0045, 2.3361x		27484.51cm
7m	0.0033, 1.7161x		32065.26cm
8m	0.0025, 1.3141x		36646.01cm
9m	0.0020, 1.0381x		41226.77cm
10m	0.0016, 0.84101x		45807.52cm

Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

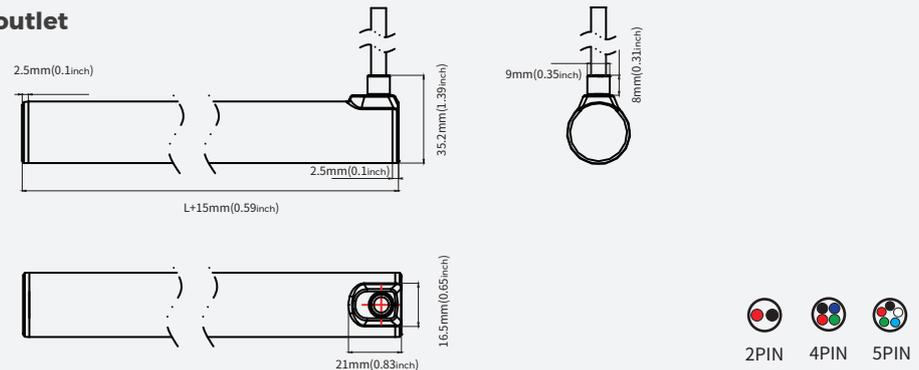
Effective average illuminance

[Product mechanical parameters]

• IP67 molded end cap(ENP) -Top Outlet



• IP67 molded end cap(ENP)-Side outlet



[Accessory information]

Installation schematic	Accessories Picture	name	Order model	quantity/	net	Per box	Gross	Gross	Remark
				case	weight	net	weight	weight	
				(PCS)	(kg)	(kg)	(kg)	(mm)	
		NNR25 ceiling Fixed installation components	AS-NNR25P1-25	100	0.01	1.00	1.20	250*250*150	Size: L25*W51.6*H27.8mm , With screws: 3pcs/1M;5pcs/2.5M;8pcs/5M
		Horizontal ceiling installation components	AS-NNR25LCX-1000	15	0.08	1.20	1.80	1180*125*115	NNR25-XXXXBC0100 NNR25-XXXXBC0500 PC slot:1M;
		2P DC wire (Male)	AS-FC-0009 (0.25m) AS-FC-0010 (0.5m) AS-FC-0011 (2m)	200 200 50	0.0193 0.031 0.1012	3.86 6.2 5.06	4.16 6.5 5.36	250*250*150	suitable for monochromatic led strip Wire lengths are optional: 0.25M/0.5M/2M
		2P DC wire (Female)	AS-FC-0012 (0.25M) AS-FC-0013(0.5M) AS-FC-0014(2M)	200 200 50	0.0212 0.0329 0.1031	4.24 6.58 5.155	4.54 6.88 5.48	250*250*150	suitable for monochromatic led strip Wire lengths are optional: 0.25M/0.5M/2M
		2P T-Connection Wire	AS-FC-0027	20	0.0652	1.304	1.604	250*250*150	suitable for monochromatic led strip Wire length 150mm
		4P DC wire (Male)	AS-FC-0015 (0.25M) AS-FC-0016(0.5M) AS-FC-0017(2M)	200 200 50	0.0196 0.0316 0.1036	3.92 6.32 5.18	4.22 6.62 5.48	250*250*150	suitable for RGB led strip Wire lengths are optional: 0.25M/0.5M/2M
		4P DC wire (Female)	AS-FC-0018 (0.25M) AS-FC-0019(0.5M) AS-FC-0020(2M)	200 200 50	0.0215 0.0354 0.1188	4.3 7.08 5.94	4.6 7.38 6.24	250*250*150	suitable for RGB led strip Wire lengths are optional: 0.25M/0.5M/2M
		4P T-Connection Wire	AS-FC-0028	20	0.0675	1.35	1.65	250*250*150	suitable for RGB led strip Wire length 150mm
		5P DC wire (Male)	AS-FC-0021 (0.25M) AS-FC-0022(0.5M) AS-FC-0023(2M)	200 200 50	0.0196 0.0316 0.1036	3.92 6.32 5.18	4.22 6.62 5.48	250*250*150	suitable for RGBW/DMX led strip Wire lengths are optional: 0.25M/0.5M/2M
		5P DC wire (Female)	AS-FC-0024 (0.25M) AS-FC-0025(0.5M) AS-FC-0026(2M)	200 200 50	0.0215 0.0354 0.1188	4.3 7.08 5.94	4.6 7.38 6.24	250*250*150	suitable for RGBW/DMX led strip Wire lengths are optional: 0.25M/0.5M/2M
		5P T-Connection Wire	AS-FC-0030	20	0.0698	1.396	1.696	250*250*150	suitable for DMX led strip Wire length 150mm

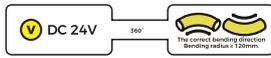
[Product control system solutions]

Product Image	product name	Product number	Order code	Product specifications	Applicable Products
	Monochrome remote	CK1-GBA	402-02-000000-00001	output signal: RF Working voltage: 3VDC(CR2032) Remote control distance: 30m Working temperature: Ta: 0-30 °C-0+55 °C	Monochrome light strip (Use with CR1-GBA)
	Monotone light controller	CR1-GBA	402-01-000000-00001	Input voltage: DC12-48V Output current: 15A@12V/24V, 10A@36V/48V Output Power: Max 180W@12V/Max 360W@24V/Max 360W@36V/Max 480W@48V Working temperature: -30°C— +55°C	Monochrome light strip (Use with CR1-GBA)
	RGB/RGBW remote control	CK4-GBA	402-02-000000-00003	output signal: RF Working voltage: 3VDC(CR2032) Remote control distance: 30m Working temperature: Ta: 0-30 °C-0+55 °C	RGB/RGBW light strip (Use with CR3-GBA)
	RGB controller	CR3-GBA	402-01-000000-00003	Input voltage: DC12-48V Output current: 18A Output Power: Max 216W@12V/Max 432W@24V/Max 648W@36V/Max 864W@48V Working temperature: -30°C— +55°C	RGB light strip (Use with CK4-GBA)
	Symphony Controller	K-8000C	23-01-00-0050	Power supply: DC 5V-24V input Power consumption: 5W Working temperature: Ta: 0-20 °C-0+85 °C	DMX/SPI magic lights with universal

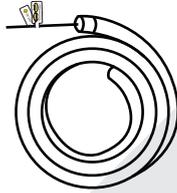
【Packaging Solutions】

· standard packaging

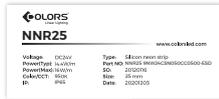
1. Line marking, the line marking is affixed at a distance of 80mm from the end of the line;



Voltage & bending warning signs



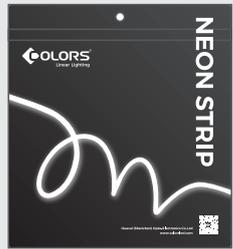
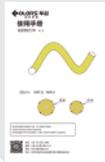
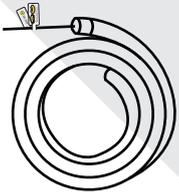
2. Put the product information label on the back of the static bag inside the marking line;



Product Information Label



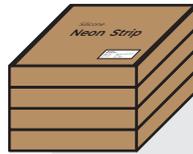
3. Put the light strip into an electrostatic bag, one roll per bag, and seal the bag;



4. Label the carton and pack it into the carton;



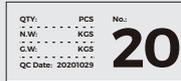
5. Pack 4 boxes of products in the carton;



6. Put the product information label and the box number label on the side of the carton, and the QC inspection stamp;



Product Information Label



Box number label



Model	Product size	Product Quantity/box	Product Quantity/case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size (m)
NNR25-XXXX24CSN050CC0500-IP-ESD	L5000*φ25mm	5M*1	20M	3.4	13.5	15	0.41*0.41*0.26
NNR25-ORGB24CSN050CC0500-IP-ESD	L5000*φ25mm	5M*1	20M	3.4	13.5	15	0.41*0.41*0.26
NNR25-ORGBM24CSN050CC0500-IP-ESD	L5000*φ25mm	5M*1	20M	3.4	13.5	15	0.41*0.41*0.26

[Reliability test]

test item	Classification	Reference	Test method or condition
Safety test	Mechanical strength	IEC 60598-1; IEC 60598-2-21	The hammer spring Impact energy 0.35J
	IP	IEC 60598-1; IEC 60598-2-21	IP67
	Winding Test	IEC 60598-1; IEC 60598-2-21	φ150mm 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-temperature (-15°C±2°C, 16h), around the mandrel for two turns
	Cold Impact test	IEC 60598-1; IEC 60598-2-21	Low-temperature (-15°C±5°C, 16h), hammer falls from a height of 100mm.
	Insulation Resistance	IEC 60598-1; IEC 60598-2-21	≤ 2MΩ
	Electrical strength	IEC 60598-1; IEC 60598-2-21	500V
Mechanical reliability testing	Bending test	Colors	Each 200mm, bending up and down 100 times
	Bending test	Colors	Each 200mm, bending left and right 100 times
	Torsion test	Colors	Twist clockwise 5 times and then release, repeat 200 times
	Disassembly and assembly test	Colors	Repeat disassembly and assembly, 10 times
Environment Reliability testing	High temperature storing test	IEC 60068-2-2	80°C, 168h
	Low temperature storing test	IEC 60068-2-1	-40°C, 168h
	High temperature and 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	Colors	35°C, 6000h
	switch test	Colors	10s On, 10s Off, 10000 times

[Precautions]

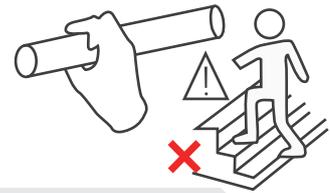
- Please use an isolated power supply to drive the LED light bar, and the ripple of the constant voltage source is less than 5%. Do not use resistance-capacitance step-down, non-isolated power supplies to drive the LED light bar.
- In actual applications, the power supply should reserve 20% of the margin (it is recommended to use only 80% of the power) to ensure sufficient voltage to drive the product.
- Please operate carefully, do not touch the AC power terminal when the power is on to prevent electric shock.
- Pay attention to the positive and negative poles of the power cord, and do not connect it wrongly. Whether the voltage of the power supply and the product are the same, so as to avoid damage to the product.
- During the installation process, please avoid scratching, twisting and irregular bending of the product, otherwise it may cause irreparable damage to the product.
- In order to ensure the life and reliability of the light strip, please do not bend it in an arc with a radius of 120mm or less. A too small bending radius will damage the product itself.
- If the actual application length exceeds the specified use length, it will cause the lamp belt to overload and heat, and the brightness is uneven.
- In order to prevent your eyes from being hurt, try to avoid staring at the light-emitting surface of the light bar for a long time.
- Non-professionals are prohibited from installing, disassembling and repairing the product.
- It is strictly forbidden to use any acidic or alkaline adhesives to fix products (including but not limited to glass glue, etc.).
- Different IP grades are used in different scenarios, and IP65 is not suitable for immersed environments.
- Products of different sizes and specifications under the same color temperature value due to structural differences, the final color of the product is slightly deviated, and it needs to be confirmed before use.
- Light strips that can be cut arbitrarily need to be glued or plugged after cutting. Colored light and color temperature are strictly prohibited to be cut to avoid damage to the lamp due to cutting.
- Please use professional cutting tools when cutting.
- Due to the characteristics of the silicone material, it is normal for the color of the colloid to change slightly after the neon product is used for a long time.
- It is strictly forbidden to use 502/705 and other adhesives that are prone to chemical reactions with silica gel during construction and installation. It is recommended to use silicone sealant for bonding.
- Long-term storage and the remaining products after cutting and use must be sealed to avoid exposure to organic environments such as aldehydes/benzenes.
- When the product is installed and used, it is recommended that the product as a whole be in the same environmental conditions to avoid inconsistent color changes of the product colloid due to differences in product exposure and environmental conditions.
- It is a normal situation which consistent yellowing is due to take place during the use, the same as accumulation of yellowing at the cap position.
- When using dimmer and dimming power supplies like Triac, etc, conduct compatibility tests on the product, dimmers and power supplies to ensure full compatibility. If any issues arise, contact COLORS for technical support.
- When using dimmer and dimming power supplies like Triac, etc, conduct compatibility tests on the product, dimmers and power supplies to ensure full compatibility. If any issues arise, contact COLORS for technical support.



It is forbidden to wrap objects less than 120mm



NO stretching



No trampling