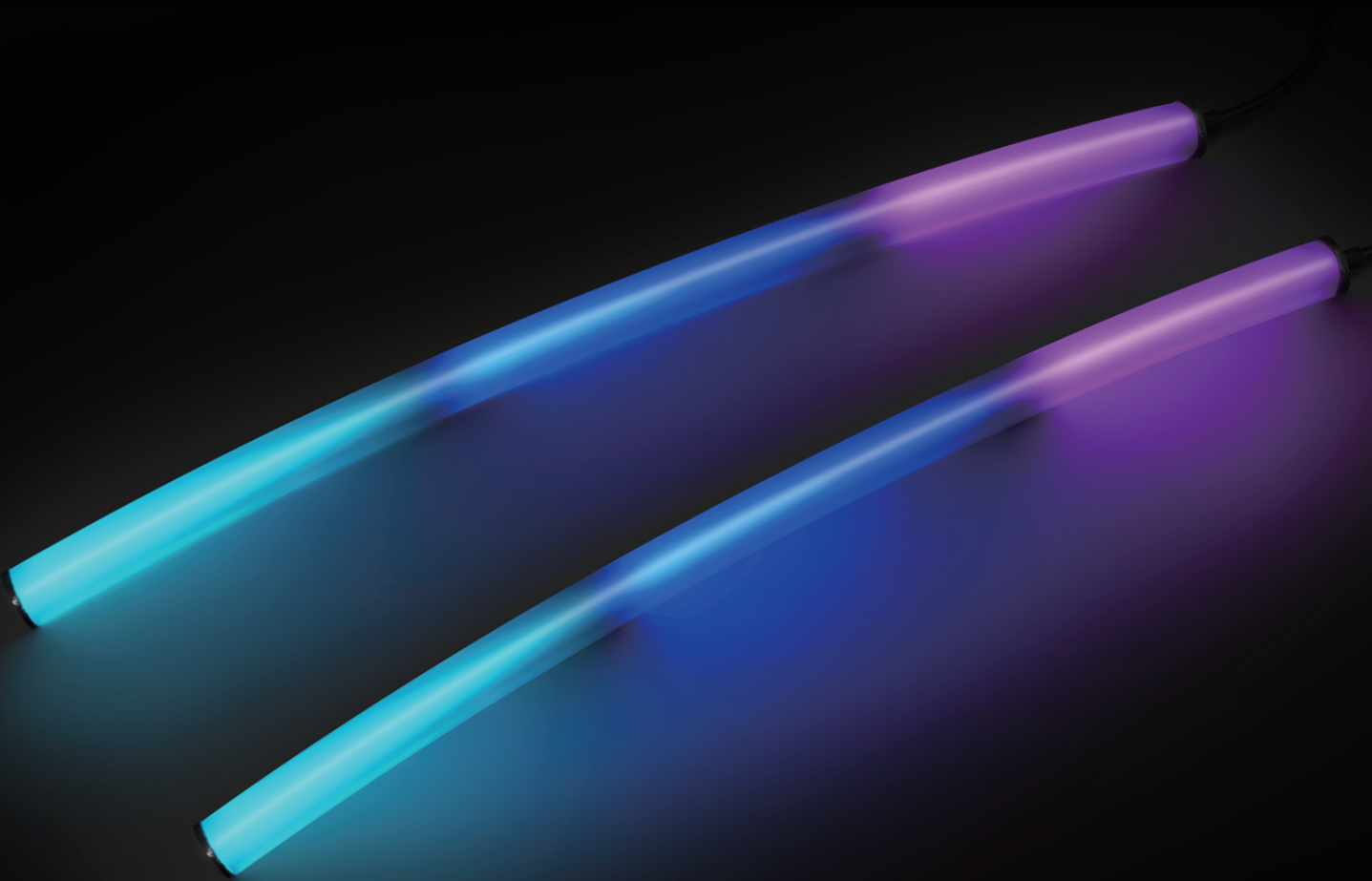


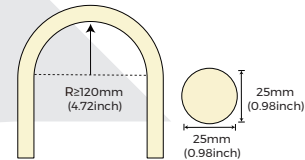
Neon Specification

NNR25BLK



【Features】

- Light source: high luminous efficiency LED lamp beads, LM80 test certification;
- Process material: high light transmittance, high purity silica gel material, IP65 protection level;
- Optical design: unique optical light distribution structure design;
- Appearance design: skin-friendly surface treatment, comfortable touch, good flexibility, and simple shape;
- Environmental characteristics: salt solution resistance, acid and alkali corrosion resistance, flame retardant resistance, UV resistance;
- Working/storage temperature: Ta: -25~55°C / 0°C~60°C;
Symphony working/storage temperature: Ta: -20~40°C / 0°C~60°C;
- Product application: decorative lighting, artistic lighting, modeling contrast;
- RGB with 3 years warranty or working life =36000H, whichever comes first; SPI with warranty 2 years or working life=24000H, whichever comes first.



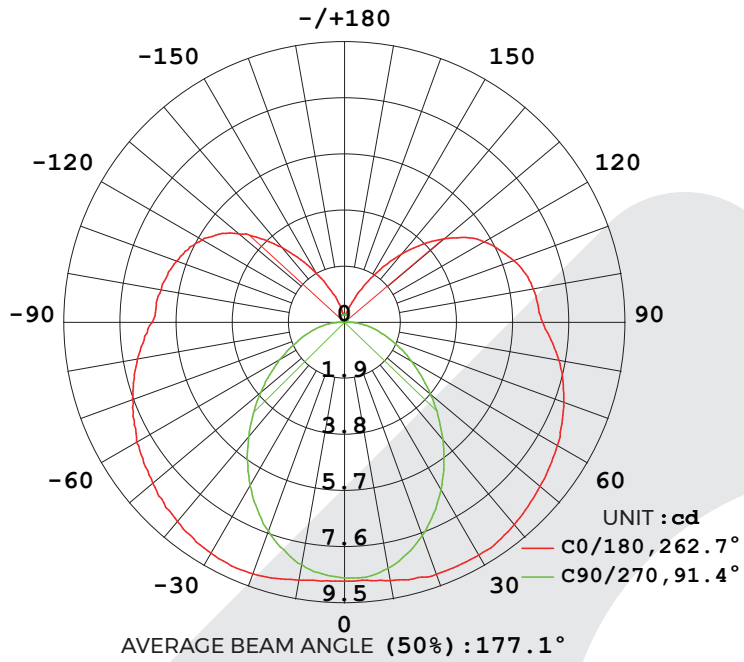
【Basic Parameters】

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
NNR25BLK-ORGB 24CSN050CCXXX-ESD	RGB	/	24V	0.6 (0.18A/ft)	14.4 (4.39W/ft)	16.5 (5.03W/ft)	74(22.56/ft)	5000mm (16.4ft)	No cutting 14LED/50mm
NNR25BLK-ORGBX 12CSN050CC0500-ESD	R	/	12V	1.8 (0.55A/ft)	21.6 (6.5W/ft)	23.8 (7.2W/ft)	/	5000mm (16.3ft)	Arbitrary cutting 2LED/11.11mm IC:(WS2815)
	G						/		
	B						/		
	RGB						47(14.33/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;
4. The standard size of 24V is 5m (16.4ft); the standard size of 12V is 5m (16.4ft)

[Light Distribution]



Light distribution

Flux out: 22.75 lm

1m	0.2252, 6.3231x	1095.10cm
2m	0.0563, 1.5811x	2190.19cm
3m	0.0250, 0.70261x	3285.29cm
4m	0.0141, 0.39521x	4380.38cm
5m	0.0090, 0.25291x	5475.48cm
6m	0.0063, 0.17561x	6570.58cm
7m	0.0046, 0.12901x	7665.67cm
8m	0.0035, 0.09881x	8760.77cm
9m	0.0028, 0.07811x	9855.86cm
10m	0.0023, 0.06321x	10950.96cm

Height Eavg, Emax Angle: 159.30deg Diameter

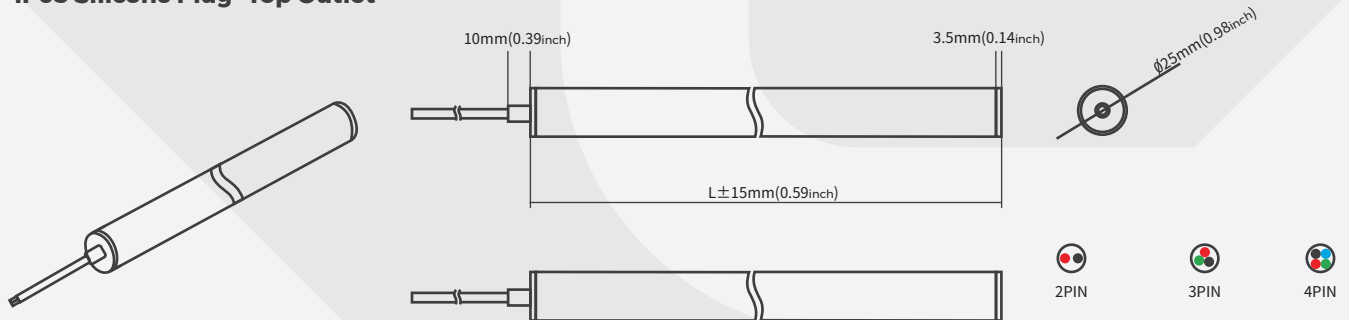
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Effective average illuminance

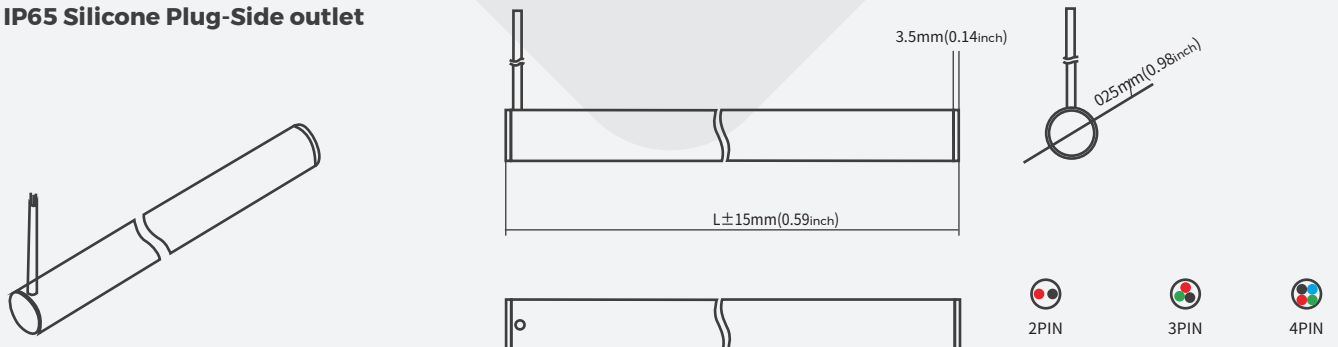
Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

[Product mechanical parameters]

• IP65 Silicone Plug - Top Outlet



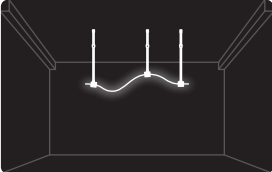





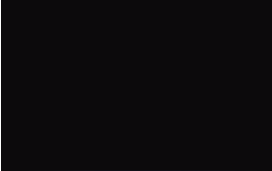
• IP65 Silicone Plug - Side outlet








[Accessory information]

Installation schematic	Accessories Picture	name	Order model	quantity/ case	net weight (PCS)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
		NNR25 ceiling Fixed installation components	AS-NNR25PI-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
		Single-ended vertical ceiling Install accessory kit (1m)	AS-NNR25VCC1- 1000	16	0.23	3.63	4.52	1285*160*160	NNR25-XXXXBC0100 Round tube:1M;
		Single-ended vertical ceiling Install accessory kit (2.5m)	AS-NNR25VCC1- 2500	16	0.47	7.57	9.29	2580*165*165	NNR25-XXXXBC0250 Round tube:2.5M;
		Horizontal ceiling installation components	AS-NNR25LCX- 1000	15	0.08	1.20	1.80	1180*125*115	NNR25-XXXXBC0100 NNR25-XXXXBC0500 PC slot:1M;
		Horizontal hoisting Install components (38mm)	AS-NNR25LHX- 0038	96	0.07	6.75	7.35	365*365*190	NNR25-XXXXBC0100 NNR25-XXXXBC0250 NNR25-XXXXBC0500 Round tube:38mm; Wire rope 2pcs, L:2M;
		Horizontal hoisting Install components (1M)	AS-NNR25LHX- 1000	16	0.18	2.88	3.48	1180*125*115	NNR25-XXXXBC0100 Round tubeL:1M; Wire rope 2pcs, L:2M;
		Horizontal hoisting Install components (2.5M)	AS-NNR25LHX-2500	16	0.33	5.28	6.28	2580*165*165	Round tubel:2.5M; Wire rope 2pcs 2pcs, L:2M;
		Double-ended vertical ceiling Kits	AS-NNR25VCC1-XX-2	48	0.13	6.05	6.65	365*365*190	NNR25-XXXXBC0100 NNR25-XXXXBC0250 NNR25-XXXXBC0500
		Can be spliced Install components	AS-NNR25DHS-XX	48	0.05	2.30	2.91	365*365*190	NNR25-XXXXBC0100 NNR25-XXXXBC0250 NNR25-XXXXBC0500
		Concealed Install components	AS-NNR25DCX-XX	480	0.01	2.40	3.13	365*365*190	NNR25-XXXXBC0100 NNR25-XXXXBC0250 NNR25-XXXXBC0500




[Accessory information]

Installation schematic	name	Accessories Picture	Order model	quantity/	net	Per box	Gross	Gross	Remark
				case	weight	net	weight	weight	
				(PCS)	(kg)	(kg)	(kg)	(mm)	
	Can be shaped and hoisted. Install components.		AS-NNR25DHX-0038	15	0.20	3.00	3.62	415*250*230	NNR25-XXXXBC0100 NNR25-XXXXBC0250 NNR25-XXXXBC0500 Round tube L:38mm; Telescopic rod L:0.6M
/	NNR25 Plug set		AS-NNR25BLKGH0-EC	500	0.0004	0.20	1.00	250*250*150	Suitable for SPI strips (Use the top-out line)
/	NNR25 Plug set		AS-NNR25BLKGS0-EC	500	0.0004	0.20	1.00	250*250*150	Suitable for SPI strips (Use the side-out line)
/	NNR25 Plug set		AS-NNR25BLKGH1-EC	500	0.0004	0.20	1.00	250*250*150	Suitable for RGB strips (Use the top-out line)
/	NNR25 Plug set		AS-NNR25BLKGS1-EC	500	0.0004	0.20	1.00	250*250*150	Suitable for RGB strips (Use the side-out line)
/	Connector		AS-FC-0001	512	0.018	9.216	10.2	365*365*190	Suitable for monochromatic light strip
/	Connector		AS-FC-0002	512	0.018	9.216	10.2	365*365*190	Suitable for CCT light strip
/	Connector		AS-FC-0003	512	0.018	9.216	10.2	365*365*190	Suitable for RGB light strips

[Accessory information]

name	describe	Accessories Picture	Section size	Order model	quantity/	net	Per box	Gross	Gross	Remark
					case	weight	net	weight	weight	
					(PCS)	(kg)	(kg)	(kg)	(mm)	
Glue	588G acidic glue		/	AS-PG-0002	150	0.014	2.1	2.4	250*250*150	10ml/pcs
Wire	3P PVC wire (0.5M)		/	AS-WS-0040	150	0.01541	2.31	2.61	250*250*150	Suitable for SPI strips (Use the top-out line)
Wire	3P PVC wire (0.5M with anti-pulling block)		/	AS-WS-0041	125	0.0616	7.7	8	250*250*150	Suitable for SPI strips (Use the side-out line)
Wire	4P PVC wire (0.5M)		/	AS-WS-0042	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB strips (Use the top-out line)
Wire	4P PVC wire (2M)			AS-WS-0044	125	0.0776	9.7	10	250*250*150	
Wire	4P PVC wire (0.5M with anti-pulling block)		/	AS-WS-0043	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB strips (Use the side-out line)
Wire	4P PVC wire (2M with anti-pulling block)			AS-WS-0045	125	0.0776	9.7	10	250*250*150	

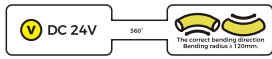
[Product control system solutions]

Product Image	product name	Product number	Order code	Product specifications	Applicable Products
	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

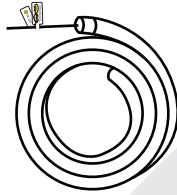
【Packaging Solutions】

· standard packaging

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



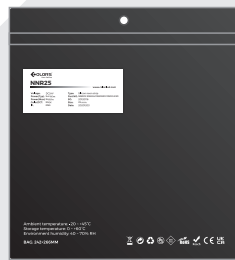
Voltage & bending warning signs



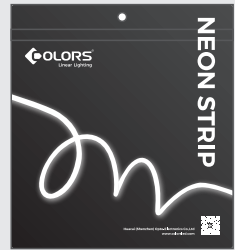
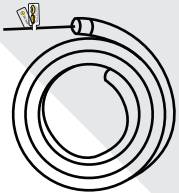
2. Put the product information label on the back of the static bag inside the marking line;



Product Information Label



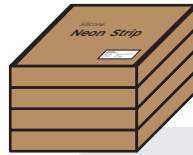
3. Put the light strip into an electrostatic bag, one roll per bag, and seal the bag;



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)
NNR25BLK-ORGB24CSN050CC0500-ESD	L5000*φ25mm	5M*1	20M	3.4	13.5	15	0.41*0.41*0.26
NNR25BLK-ORGBX12CSN050CC0500 -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	IP65
	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]

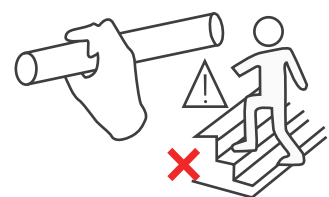
- Please use an isolated power supply to drive the LED light bar, and the ripple of the constant voltage source is less than 5%. Do not use resistance-capacitance step-down, non-isolated power supplies to drive the LED light bar.
- In actual applications, the power supply should reserve 20% of the margin (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.



It is forbidden to wrap objects less than 120mm



NO stretching



No trampling