

Neon Specifications

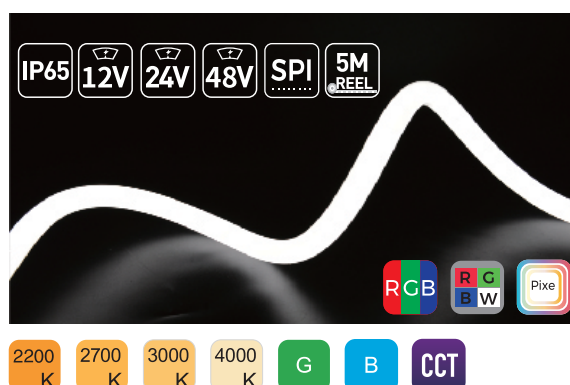
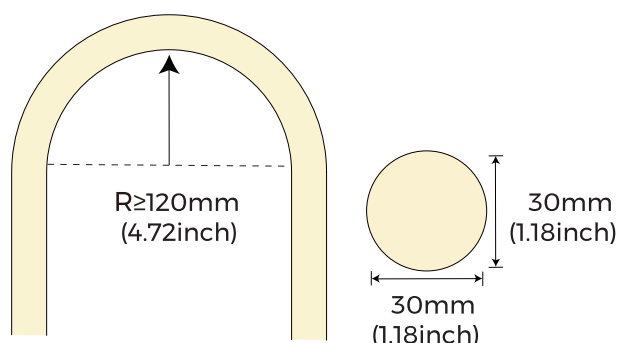
Jademar Lighting

JNNR30



Product Description

- 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, 360° light output uniformly without shadows;
- Appearance design: skin-friendly surface treatment, comfortable touch, good flexibility, and simple shape;
- Product certification: UL, ROHS, UKCA
- 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;
- SPI chip mode and pixel count: R/G/B/RGB: WS2815, 90Pixels/m;
- Product application: office lighting, decorative lighting, artistic lighting, modeling contrast;
- White/G/B/CCT/RGB with 5 years warranty or working life = 36000H, whichever comes first; SPI with warranty 5 years or working life = 20000H, whichever comes first.



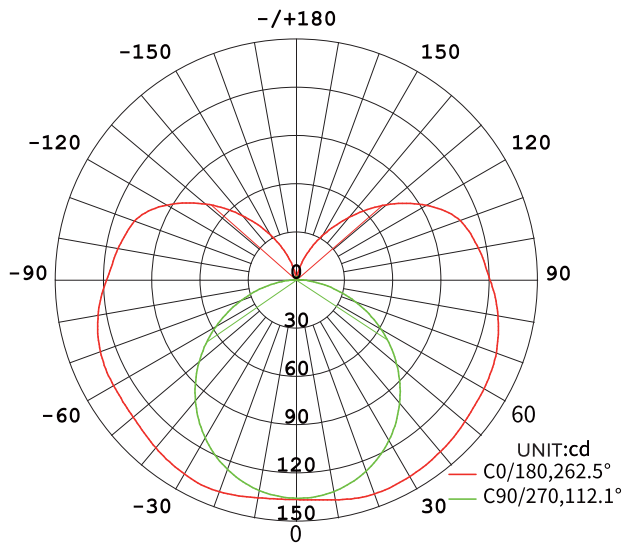
Photometry & Specifications

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
JNNR30-9XX 24CSN050CCXXX-ESD	2200K	>90	24V	0.6 (0.18A/ft)	14.4 (4.39W/ft)	15.8 (4.82W/ft)	850(259/ft)	1000mm (3.28ft) 2500mm (8.2ft) 5000mm (16.4ft)	Arbitrary cutting 4LED/11.97mm
	2700K						950(290/ft)		
	3000K						950(290/ft)		
	4000K						950(290/ft)		
JNNR30-0X 24CSN050CCXXX-ESD	G620-630nm	/		0.42 (0.13A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/		No cutting 14LED/41.67mm
	B465-470nm	/					/		
JNNR30-0RGB 24CSN050CCXXX-ESD	RGB	/		0.6 (0.18A/ft)	14.4 (4.39W/ft)	15.8 (4.82W/ft)	450(137/ft)		No cutting 14LED/50mm
JNNR30-9LWNW 24CSN050CCXXX-ESD	2200K~4000K	>90		0.6 (0.18A/ft)	14.4 (4.39W/ft)	15.8 (4.82W/ft)	950(290/ft)		No cutting 24LED/31.25mm
JNNR30-0RGBXX 24CSN050CC0500-ESD	RGB-2300K	/		0.72 (0.22A/ft)	17.2 (5.21W/ft)	19.8 (6W/ft)	/		No cutting 24LED/62.5mm
	RGB-2800K								
	RGB-3200K								
	RGB-4500K								
JNNR30-9XX 48CSN050CC2000-ESD	2200K	>90	48V	0.26 (0.08A/ft)	12.5 (3.81W/ft)	13.7 (4.18W/ft)	850(259/ft)	20000mm (65.6ft)	No cutting 28LED/83.33mm
	2700K						950(290/ft)		
	3000K						950(290/ft)		
	4000K						950(290/ft)		
JNNR30-0RGBXW 48CSN050CC1000-ESD	RGB-(2300K/2800K /3200K/4500K)	/		0.36 (0.11A/ft)	17.2 (5.21W/ft)	19.8 (6W/ft)	/	10000mm (3.28ft)	No cutting 48LED/125mm
JNNR30-0RGBX 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 90Pixels/m
	G						/		
	B						/		
	RGB						302(92.1/ft)		

Note: 1. The above data is the testing result of 1M standard product;
2. The lumens of output data can be vary up to $\pm 15\%$;
3. The above parameters are all typical values



Photometry & Specifications



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:630.0 lm

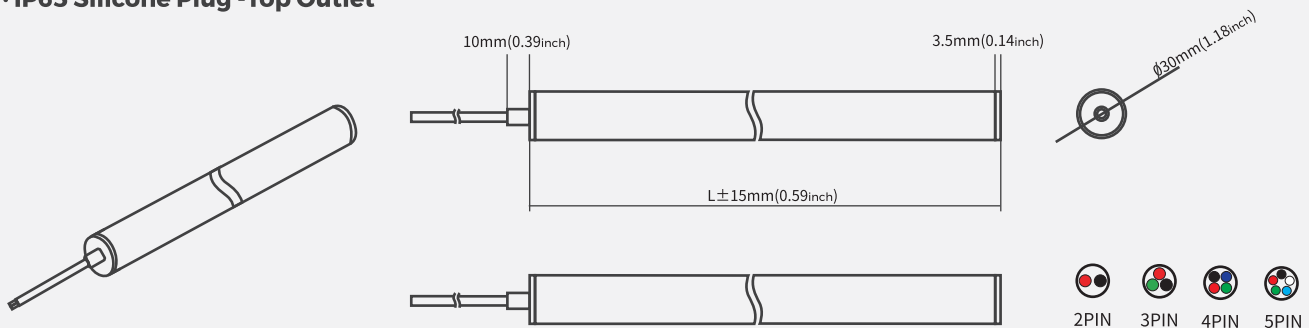
Height	Eavg,Emax	Angle:179.00deg	Diameter
1m	0.0000,136.61x		22917.70cm
2m	0.0000,34.151x		45835.40cm
3m	0.0000,15.181x		68753.09cm
4m	0.0000,8.5371x		91670.79cm
5m	0.0000,5.4641x		114588.49cm
6m	0.0000,3.7941x		137506.19cm
7m	0.0000,2.7881x		160423.89cm
8m	0.0000,2.1341x		183341.59cm
9m	0.0000,1.6861x		206259.28cm
10m	0.0000,1.3661x		229176.98cm

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

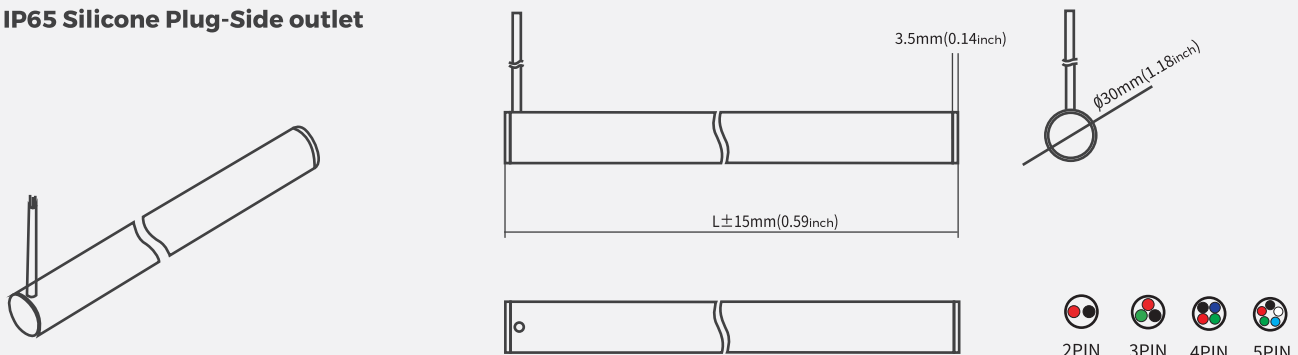
Effective average illuminance

IP Process Information

· IP65 Silicone Plug -Top Outlet



· IP65 Silicone Plug-Side outlet

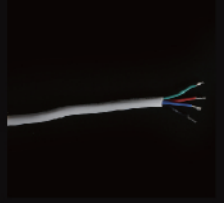


Accessory Information

Cross Section	Name	Accessories Picture	Part Number	quantity/ case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
	JNNR30 N-buckle accessory		JAS-NNR30P1-25	100	0.01	1.00	1.20	250*250*150	Appearance size: W53.4*H33.3*L25mm 3pcs/1M;5pcs/2.5M;8pcs/5M
	JNNR40 N-groove accessory		JAS-NNR30LCX1000	8	0.31	2.48	3.58	1180*125*115	Appearance size: W53.4*H33.3*L1000mm
	JNNR30 Hole Diameter 4.6mm top cap		JAS-NNR30GH0-EC	540	0.01	5.4	6.4	410*410*260	suit to: JNNR30 white/monochrome light/ CCT/RGB/RGBW
	JNNR30 Hole Diameter 4.6mm side cap		JAS-NNR30GS0-EC	540	0.01	5.4	6.4	410*410*260	suit to: JNNR30 white/monochrome light/ CCT/RGB
	JNNR30 Hole Diameter 5.6mm top cap		JAS-NNR30GH1-EC	540	0.01	5.4	6.4	410*410*260	suit to: JNNR30 SPI
	JNNR30 Hole Diameter 5.6mm side cap		JAS-NNR30GS1-EC	540	0.01	5.4	6.4	410*410*260	suit to: JNNR30, SPI, RGBW
	JNNR30 invisible buckle		JAS-NNR30DCX-XX	600	0.01	6	6.6	250*250*150	Appearance size: PC:W14.3*H4.9*L32.2mm SUS304:W12.1*H1.5*L17.1mm Recommended dosage:1PCS/0.5M
	JNNR30 Ceiling mounting accessory		JAS-NNR30VCC-XX-2	36	0.125	4.5	6.8	410*410*260	Appearance size: φ39.6mm*47.2mm
	JNNR30 Trimless embedded accessory		JAS-NNR30VTD-XX-2	36	0.11	3.96	6.4	410*410*260	Appearance size:φ67.2*H20.2 Mounting hole size:φ45mm
	JNNR30 Embedded accessory		JAS-NNR30VRD-XX-2	36	0.18	6.48	8.9	410*410*260	Appearance size:φ69.5*H20.2 Mounting hole size:φ45mm



Accessory Information

Name	Description	Image	Cross Section	Part Number	quantity/ case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
Glue	588G acidic glue		/	JAS-PG-0002	150	0.014	2.1	2.4	250*250*150	10ml/pcs
Wire	2P PVC wire (0.5M)		/	JAS-WS-0001	150	0.01541	2.31	2.61	250*250*150	Suitable for monochromatic light strips (Use the top-out line)
Wire	2P PVC wire (2M)			JAS-WS-0002	125	0.0616	7.7	8	250*250*150	
Wire	4P PVC wire (0.5M)		/	JAS-WS-0003	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB strips (Use the top-out line)
Wire	4P PVC wire (2M)			JAS-WS-0004	125	0.0776	9.7	10	250*250*150	

Product System Control Solutions

Product Image	product name	Part#	SKU	Product specifications	Applicable Products
	Monochrome remote	JCK1-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 JCR1-GBA)
	Monochrome light controller	JCR1-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 JCR1-GBA)
	CCT remote control	JCK2-GBA	402-02-000000-00002	Output signal: RF Working voltage: 3VDC(CR2032) Remote control distance: 30m Working temperature: Ta: 0~30°C - 0~55 °C	CCT Light Strip (Use with JCR2-GBA)
	Color temperature controller	JCR2-GBA	402-01-000000-00002	Input voltage: DC12-48V Output current: 8A Output Power: Max 192W@12V/Max 284W @24V/Max 576W@36V/Max 768W@48V Working temperature: -30°C— +55°C	CCT Light Strip (Use with JCK2-GBA)
	RGB/RGBW remote control	JCK4-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 JCR3-GBA)
	RGB controller	JCR3-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 JCK4-GBA)
	Symphony Controller	JK-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



Reliability Test & Certifications

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	φ 150mm 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

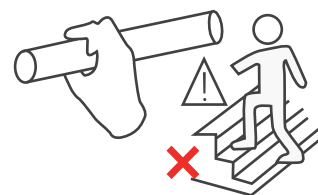
- Please use an isolated power supply to drive the LED light bar, and the ripple of the constant voltage source is less than 5%. Do not use resistance-capacitance step-down, non-isolated power supplies to drive the LED light bar.
- In actual applications, the power supply should reserve 20% of the margin (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 forbidden to wrap objects less than 120mm



No Stretching



No Stepping

