

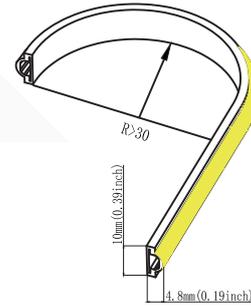
MINI Series Specification

NNT1005



【Features】

- Light source: High luminous efficiency, LM80 proved.
- Process & Material: High light transmittance, environmental silicone material, IP65.
- Optical Design: Unique optical light distribution structure design, tricolor extrusion process, uniform lighting surface and no shadow, clear clipping line.
- Appearance Design: Compared with the traditional neon tube, the silicone material has good flexibility and high degree of freedom, the simple and stylish appearance, which is exquisite and unique.
- Product Certification: UL, CE, ROHS, REACH, UKCA;
- Environmental Features: Resistance to saline solutions, acids & alkali, corrosive gases and UV.
- Working/Storage Temperature: Ta: -25~55°C / 0°C~60°C.
- Application: Furniture supporting lighting, indoor outline lighting, indoor furniture lighting.
- Indoor 3-year warranty, working life \geq 36000 hours, outdoor 2-year warranty.



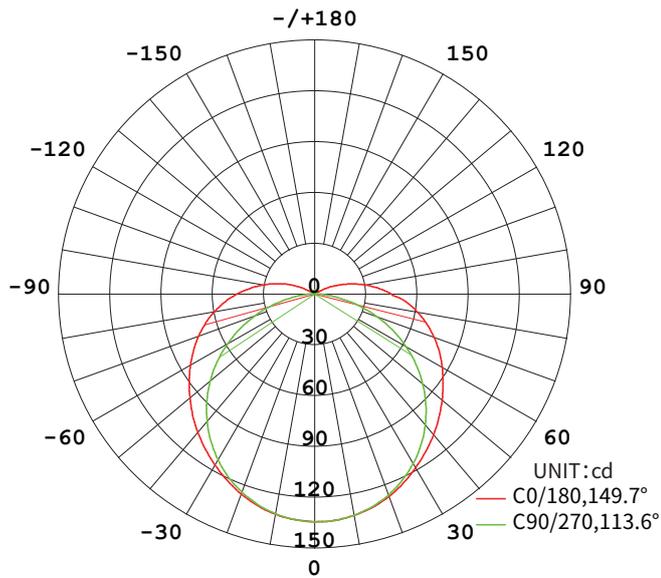
【Basic Parameters】

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (W/m)	MAX power (W/m)	Lumens (LM/m)	Length	Remark
NNTI005 -9XW24CSN050CC0500(LP)	2200K	2130-2380K	>90	24	0.3 (0.09A/ft)	10 (3.05W/ft)	11.2 (3.41W/ft)	460 (140.24LM/ft)	5000mm (16.4ft)	16LED/29.41mm
	2700K	2380-2785K						520 (158.54LM/ft)		
	3000K	2755-3205K						550 (167.68LM/ft)		
	4300K	3880-4780K						570 (173.78LM/ft)		
NNTI005 -9XW24CSN050CC0500	2200K	2100-2300K	>90	24	0.3 (0.09A/ft)	15 (4.57W/ft)	16.5 (5.03W/ft)	865 (263.72LM/ft)	5000mm (16.4ft)	7LED/25mm
	2700K	2600-2900K						995 (303.35LM/ft)		
	3000K	2900-3300K						1075 (327.74LM/ft)		
	4200K	4000-4700K						1075 (327.74LM/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.

【Light Distribution】



AVERAGE BEAM ANGLE(50%):131.7°

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:361.4 lm

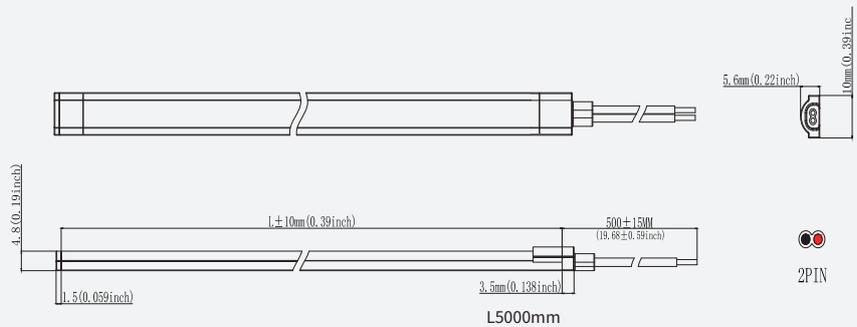
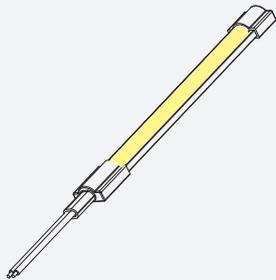
Height	Eavg, Emax	Angle:131.70	Diameter
1m	22.80,134.81x		446.06cm
2m	5.700,33.691x		892.12cm
3m	2.533,14.971x		1338.18cm
4m	1.425,8.4231x		1784.24cm
5m	0.9120,5.3911x		2230.30cm
6m	0.6334,3.7441x		2676.36cm
7m	0.4653,2.7501x		3122.43cm
8m	0.3563,2.1061x		3568.49cm
9m	0.2815,1.6641x		4014.55cm
10m	0.2280,1.3481x		4460.61cm

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

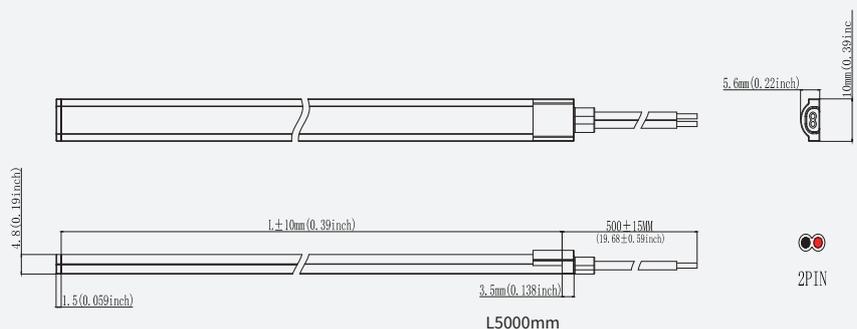
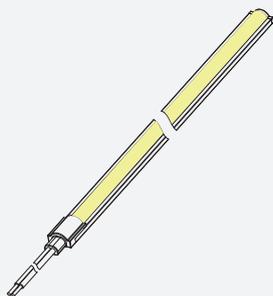
Effective average illuminance

【Product Mechanical Parameters】

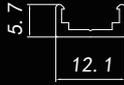
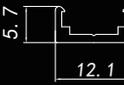
• IP65 Glued cap-top outlet



• IP65 mould pressing cap-top



[Accessory Information]

Name	Description	Image	Sectional size	Ordering code	Quantity case (PCS)	Net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Packing (mm)	Remark
Plastic carrier	Flat mounting slot			AS-NNTI005P-1000	150	0.0328	4.92	6.08	1180*125*115	Size: L1000*W121*H57mm
Plastic clip	Flat mounting clip			AS-NNTI005P-25	800	0.00075	0.6	0.9	250*250*150	Size: L25*W121*H57mm with screws
End cap set	End cap set, including end cap and plug (outlet from the bottom direction)			AS-NNTI005GHO-EC	600	0.00079	0.474	0.684	250*250*150	/
Glue	588G acidic glue		/	AS-PG-0002	150	0.014	2.1	2.4	250*250*150	10ml/pcs
Wire	2P hoary Wire(0.5m)		/	AS-WS-0009	200	0.0077	1.54	1.84	250*250*150	Suitable for white light strip
Wire	2P hoary Wire(2m)			AS-WS-0010	100	0.031	3.1	3.4		

[Solution Of Control System]

Product Image	Product Name	Product number	Order code	Product specifications	Applicable Products
	Monochrome remote	CK1-GBA	402-02-000000-00001	output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:0-30 °C-0+55 °C	Monochrome light strip (Use with CR1-GBA)
	Monochrome light controller	CR1-GBA	402-01-000000-00001	Input voltage:12-48VDC Output current:15A@12/24V-10A@36/48V Output Power:180W@12V-360W@24V 360W@36V-480W@48V Working temperature:Ta:0-30 °C-0+55 °C	Monochrome light strip (Use with CK1-GBA)

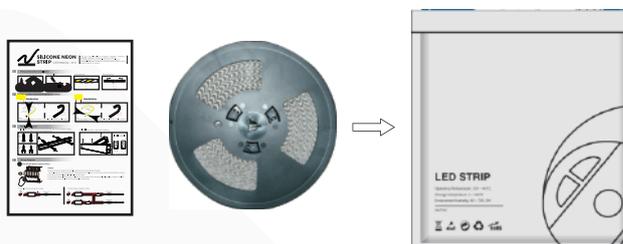
【Packaging Solutions】

• Standard Packaging

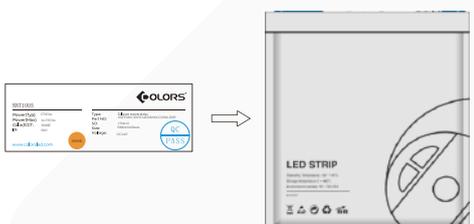
1. Paste pressing label and information label;



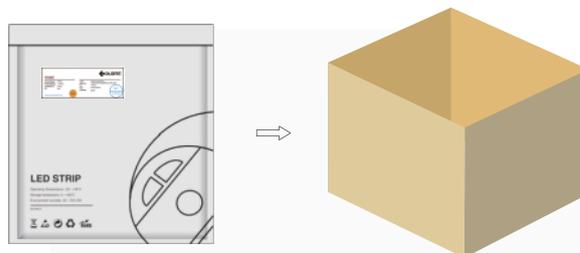
2. Put the reel and instructions into the electrostatic bag, Pay attention to distinguishing instructions;



3. COLORS information label and color temperature label are pasted on the electrostatic tape,



4. Put the static bag into the outer box



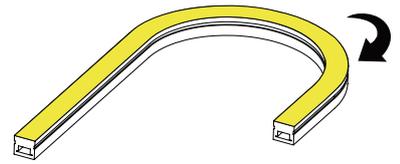
Model	Size	Product Quantity (case)	Net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size(m)
NNT1005-9XW24CSN050CC0500(LP)	L5000*10*5mm	200M	0.26	10.4	11.95	0.41*0.41*0.26
NNT1005-9XW24CSN050CC0500	L5000*10*5mm	200M	0.26	10.4	11.95	
NNT1005-9XW24CSN050CC0500(LP)	L10000*10*5mm	150M	0.48	7.2	8.75	0.41*0.41*0.26
NNT1005-9XW24CSN050CC0500	L10000*10*5mm	150M	0.48	7.2	8.75	

[Reliability Test]

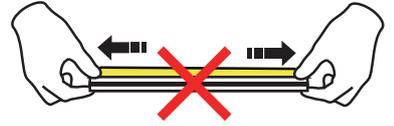
Test Item	Classification	Reference	Test method or condition
Safety test	Mechanical strength	IEC 60598-1; IEC 60598-2-21	The hammer spring Impact energy 0.35J
	IP	IEC 60598-1; IEC 60598-2-21	IP65
	Winding Test	IEC 60598-1; IEC 60598-2-21	φ150mm cylinder, 60N pull, winding 10 times at (-25°C ±2°C), and 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】

- Use a 24V DC isolated power supply to drive the neon lamp strip and the ripple wave of constant voltage source shall be less than 5%. It is not allowed to use RC voltage reduction or non-isolated power supply to drive the neon lamp strip.
 - In actual applications, 20% of the power supply shall be kept (only 80% of the power is used) to guarantee that sufficient voltage is available to drive the product.
 - Attention shall be paid to safe operation. After powering on, it is not allowed to touch the AC power supply to avoid an electric shock.
 - Attention shall be paid to the positive and negative poles of the wires during installation and whether the power supply conforms to required voltages to avoid damages.
 - Avoid scratching, distortion and irregular bending of the product during installation; otherwise it may cause irreparable damage to the product.
 - Please do not bend the strip into an arc with a diameter less than 30mm to ensure the longevity and reliability, the bending diameter too small will damage the product itself.
 - If the actual length of application exceeds the specified using length, it will lead to overload heating and uneven brightness.
 - To keep the eyes from being harmed, try to avoid staring at the glowing side of the LED strip for a long time.
 - Non-professionals are prohibited from installing, disassembling and repairing the product.
 - Do not use any acid or alkaline adhesive to fix products (including not limited to glass cement, etc.)
 - Products with different IP grade should be used in different environments, the product with IP65 is not suitable for use in water-immersed environment .
 - The final color of products with different sizes and specifications is slightly deviated due to structural differences under the same color temperature, which should be confirmed before use.
 - 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.
- .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.



Top bending error bending ❌



No stretching



No trampling