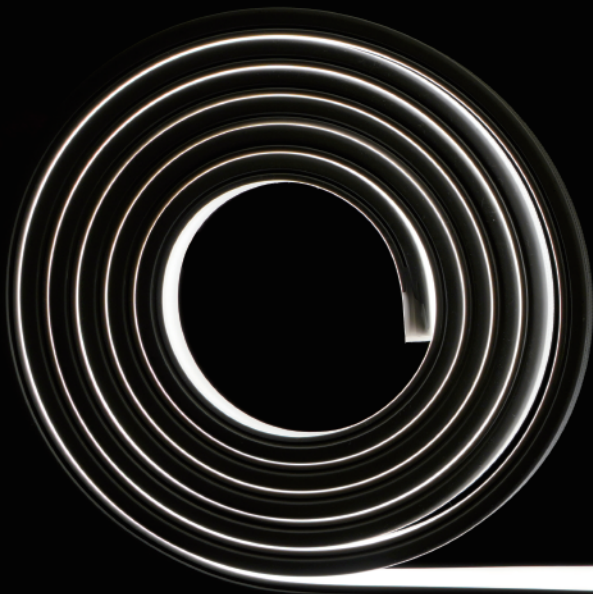


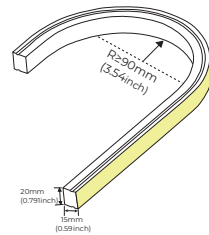
Neon Specification

# NMT2015



## 【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, uniform light emission on the surface without shadows;
- Appearance design: good flexibility, simple shape, exquisite and unique;
- Product certification: UL, CE, ROHS;
- 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;
- Product application: signboard lighting, outdoor/internal decorative lighting, architectural contour application;
- White/G/B/CCT/RGB with 3 years warranty or working life =36000H, whichever comes first; DMX512 with warranty 2 years or working life=20000H, 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	
NMT2015- 9XX24 CSS050CC0500 -ENP	2300K	>90	24V	0.58 (0.18A/ft)	14 (4.27W/ft)	16 (4.88W/ft)	800(240/ft)	5000mm (16.4ft)	7LED/41.67mm	
	2700K						950(285/ft)			
	3000K						1000(300/ft)			
	3500K						1000(300/ft)			
	4300K						1000(300/ft)			
NMT2015-0X24 CSS050CC0500- ENP	G 525-530nm	/		0.58 (0.18A/ft)	14 (4.27W/ft)	16 (4.88W/ft)	/	5000mm (16.4ft)	7LED/41.67mm	
	B 465-470nm									
NMT2015- 9XX24 CSS050CC2000-ENP	2300K	>90		24V	0.34 (0.1A/ft)	8 (2.44W/ft)	8.8 (2.68W/ft)	450(135/ft)	20000mm (65.6ft)	7LED/50mm
	2700K							500(150/ft)		
	3000K							500(150/ft)		
	3500K		550(165/ft)							
	4300K		550(165/ft)							
NMT2015-0RGB24 CSS050CC0500-ENP	RGB	/	0.58 (0.18A/ft)		14 (4.27W/ft)	16.1 (4.91W/ft)	/	5000mm (16.4ft)	7LED/50mm	
NMT2015- 8XX24CDS025CC050 0-ENP(DMX512)	2300K	>80	24V		0.75 (0.23A/ft)	18 (5.49W/ft)	20.2 (6.16W/ft)	850(255/ft)	5000mm (16.4ft)	7LED/83.33mm IC: (UCS512B3)
	2700K							900(270/ft)		
	3200K							950(285/ft)		
	4500K							950(285/ft)		
NMT2015-0RGBM24CDS 025CC0500-ENP(DMX512)	RGB	/		0.75 (0.23A/ft)	18 (5.49W/ft)	20.2 (6.16W/ft)	/	5000mm (16.4ft)	7LED/83.33mm IC: (UCS512B3)	
NMT2015- 0RGBXXM24CDS025 CC0500-ENP(DMX512)	RGB+2500K	/		24V	0.63 (0.19A/ft)	15 (4.57W/ft)	17.25 (5.26W/ft)	500(150/ft)	5000mm (16.4ft)	7LED/125mm IC: (UCS512B4L)
	RGB+3000K							500(150/ft)		
	RGB+3700K							500(150/ft)		
	RGB+5500K							500(150/ft)		

Note:

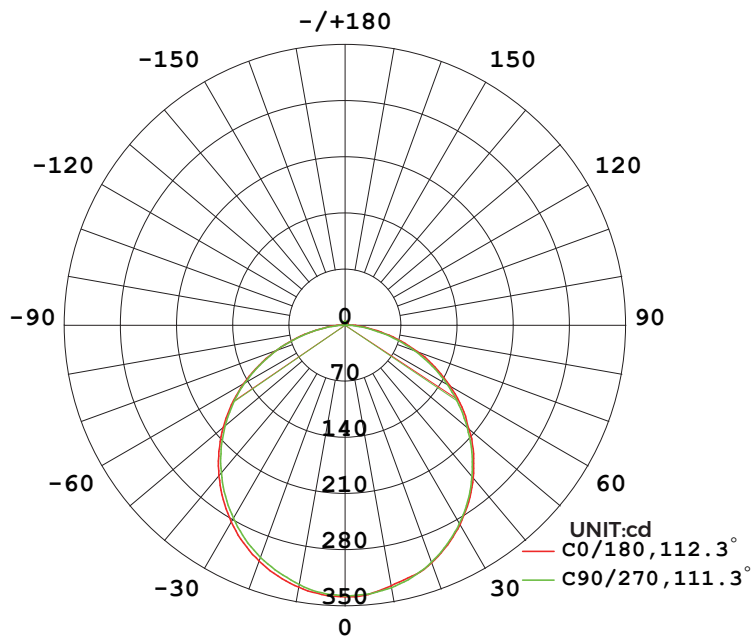
1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of  $\pm 10\%$ ;
3. The above parameters are typical values;

TEL: (619) 340-1203

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www.90pluslighting.com

## [Light Distribution]



AVERAGE BEAM ANGLE(50%):111.8DEG

Light distribution

Flux out:695.3 lm

1m	100.7, 338.71x	291.29cm
2m	25.17, 84.671x	582.59cm
3m	11.19, 37.631x	873.88cm
4m	6.293, 21.171x	1165.18cm
5m	4.027, 13.551x	1456.47cm
6m	2.797, 9.4081x	1747.76cm
7m	2.055, 6.9121x	2039.06cm
8m	1.573, 5.2921x	2330.35cm
9m	1.243, 4.1811x	2621.64cm
10m	1.007, 3.3871x	2912.94cm

Height Eavg,Emax Angle:111.05deg Diameter

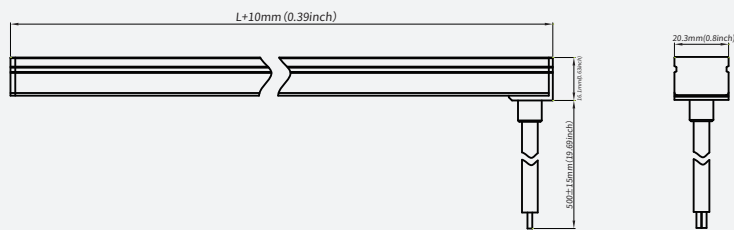
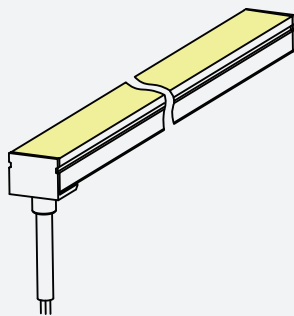
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Effective average illuminance

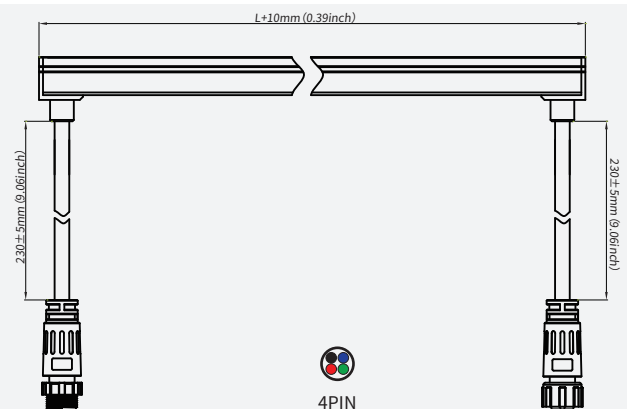
Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

## [Product mechanical parameters]


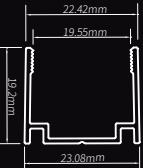


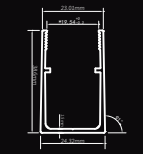
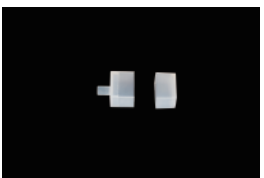

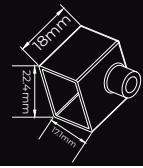

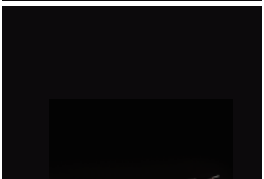
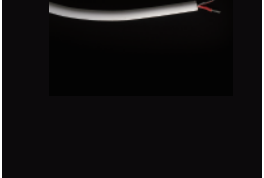
- IP67No dark cap(NP/ENP)-bottom outlet






- IP67No dark cap(NP/ENP)-bottom outlet








## [Accessory information]

name	describe	Accessories Picture	Section size	Order model	quantity/ case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
Alumina carrier	Flat mounting slot		 <p>27.42mm 19.55mm 19.2mm 23.08mm</p>	AS-NMT2015A- 1000	40	0.187	7.48	8.48	1180*125*115	Size: L1000*W23.2*H16mm with screws
Aluminium clip	Flat mounting clip			AS-NMT2015A- 25	400	0.0046	1.84	1.99	250*250*150	Size: L25*W23.2*H16mm with screw
Alumina carrier	Reserved outlet slot installation aluminum slot		 <p>23.25mm 23.25mm 17.1mm 22.4mm</p>	AS- NMT2015A3- 1000	16	0.26	4.16	5.16	1180*125*115	Size: L1000*W24.3*H38.6mm with screws
End cap set	End cap set, including end cap and plug (outlet from the bottom direction)			AS- NMT2015GH0- EC	200	0.005	1	1.3	250*250*150	/
End cap set	End cap set, including end cap and plug (outlet from the bottom direction)		 <p>18mm 22.4mm 17.1mm</p>	AS- NMT2015GD0- EC	200	0.005	1	1.3	250*250*150	/
Glue	588G acidic glue			AS-PG-0001	150	0.014	2.1	2.4	250*250*150	10ml/pcs
Wire	2P PVC wire (0.5M)		/	AS-WS-0001	150	0.01541	2.31	2.61	250*250*150	Suitable for white light strip
Wire	2P PVC wire (2M)			AS-WS-0002	125	0.0616	7.7	8	250*250*150	
Wire	4P PVC wire (0.5M)		/	AS-WS-0003	150	0.0194	0.0194	3.21	250*250*150	Suitable for RGB light strip
Wire	4P PVC wire (2M)			AS-WS-0004	125	0.0776	9.7	10	250*250*150	

## [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)	
Connector	2PIN IP68 waterproof connector		/	AS-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for white light strip
Connector	4PIN IP68 waterproof connector			AS-FC-0003	288	0.03	8.64	9.6	365*365*190	Suitable for RGB light strip
Wire	4P female connector wire (0.25M)			AS-FC-0005	50	0.025	1.25	1.7	250*250*150	Suitable for DMX512 lamp with cascade connection,IP67
Wire	4P T-type PVC wire (0.15M*2)			AS-FC-0004	20	0.075	1.5	1.95	250*250*150	Suitable for DMX512 lamp with cascade connection,IP67

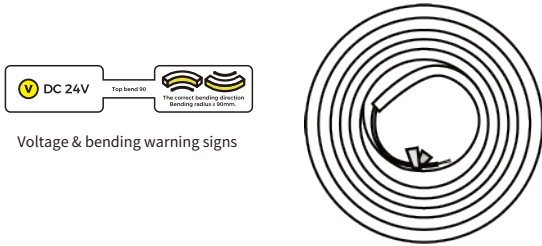
## [Product control system solutions]

Product Image	product name	Product number	Order code	Product specifications	Applicable Products
	Monochrome remote	CK1-GBA	402-02-000000-00001	output signal:RF(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)
	Monotone 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 CR1-GBA)
	RGB/RGBW remote control	CK4-GBA	402-02-000000-00003	output signal:RF(2.4GHz) 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:12-36VDC Output current:3CH 6A/CH Output Power:3 x (72-216)W Working temperature:Ta:0-30 °C-0+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

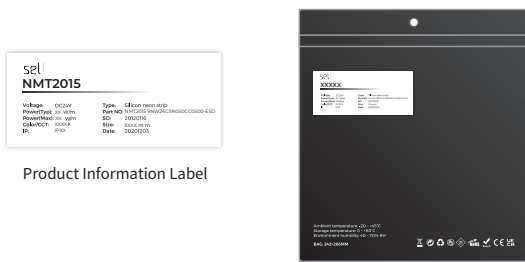
# [Packaging Solutions]

· standard packaging

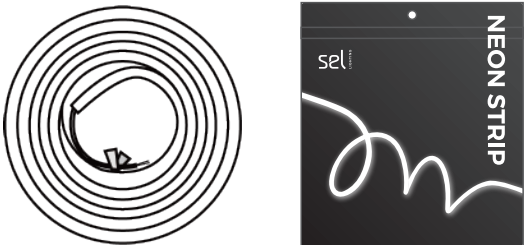
1. Line marking, the line marking is affixed at a distance of 80mm from the end of the line;



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



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



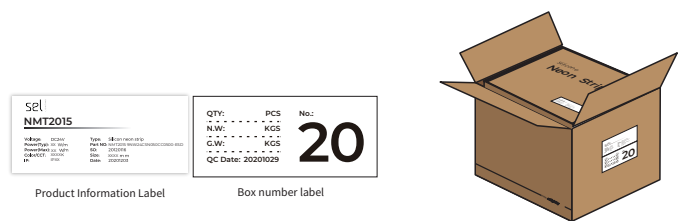
4. Label the carton and pack it into the carton;



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;



Model	Product size	Product Quantity/ box	Product Quantity/ case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size (m)
NMT2015-9XX24CSS050C C0500- ENP	L5000*20*14.3mm	5M*2	40M	1.42	11.36	13.06	0.41*0.41*0.26
NMT2015-0X24CSS050C C0500- ENP	L5000*20*14.3mm	5M*2	40M	1.42	11.36	13.06	
NMT2015- 0RGB24CSS050CC0500-ENP	L5000*20*14.3mm	5M*2	40M	1.42	11.36	13.06	
NMT2015-9XX24CSS050C C2000- ENP	L20000*20*14.3mm	20M*1	20M	5.68	5.68	7.38	
NMT2015-8XX24CDS025CC0500- ENP(DMX512)	L5000*20*14.3mm	5M*2	40M	1.42	11.36	13.06	
NMT2015-0RGBM24 CDS025CC0500-ENP(DMX512)	L5000*20*14.3mm	5M*2	40M	1.42	11.36	13.06	
NMT2015-0RGBXXM24 CDS025CC0500-ENP(DMX512)	L5000*20*14.3mm	5M*2	40M	1.42	11.36	13.06	

## 【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 0.7J
	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】

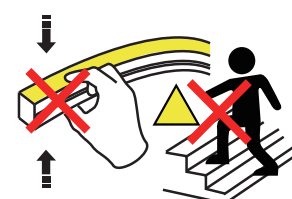
- Please use an isolated power supply to drive the LED light bar, and the ripple of the constant voltage source is less than 5%. Do not use resistance-capacitance step-down, non-isolated power supplies to drive the LED light bar.
- In actual applications, the power supply should reserve a margin of 20% (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 less than 90mm. 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.).
- IP67 protection products are not suitable for swimming pool underwater.
- 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 must be confirmed before use.
- When the IP67 protection product is installed and applied, the waterproof level needs to be downgraded after self-processing and cutting.
- Please use professional cutting tools when cutting.



No stretching



No distortion



No trampling