



# LED PLEXEON<sup>TM</sup>

## CATALOGUE

2013-2014



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GUANGZHOU QUANYOU LIGHTING CO., LTD.

# INTRODUCTION

Sinoneon is the most professional manufacturer of LED PLEXEON ( flex neon) in China since 2004, as we manufacture only LED neon light. Now Sinoneon is also the biggest manufacturer of LED PLEXEON in China, own 4 extruding machine,10 LED welding machine and more than 100 staff and workers.

For more than 11 years experience in LED lighting industries, Sinoneon fully understand how to make quality LED lighting products. The quality will always be our first aim in production. Beside product quality, Sinoneon always try the best to teach people how to install LED PLEXEON in various application to avoid quality problem from non-professional installation.

As the market of LED PLEXEON is expanding fast recently, we believe Sinoneon will be the most famous brand in the world in next years. We have dreamed for that and the dream is coming true.

The core competence of Sinoneon:

- Advanced production technology
- Rapid response
- Fast delivery
- Continuous innovation



## Certificates



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C o n t e n t s  
C o n t e n t s

# LED PLEXEON™ Light Introduction

LED PLEXEON (Flex Neon) Light is a kind of light composed of solid-state Light Emitting Diodes (LEDs) in series and jacketed by an inner plastic extrusion core. An UV stable outer plastic jacket further protects the inner core. The plastic jacket could be transparent, opalescent, semi-transparent or transparent colored and the LED could be Red, Orange, Blue, Yellow, Green, Amber, White, Magenta and Violet etc. Based on our patented technology, we produce the LED PLEXEON Light with a continuously color linear effect as well as Glass Neon or Even much better effect when using RGB MULTI-COLOR LED PLEXEON Light.

Though Glass Neon has long been the mainstream of the outdoors linear lighting, it is also known for its technical weaknesses, including complicated installation, fragile glass nature, potential shock hazard, high maintenance cost and high power consumption. With over many years' advanced LED technological research and rich experience in mass production, we have developed LED PLEXEON Light to replace glass neon. Compared with glass neon, it is easier to cut and it is flexible can be bent into whatever angles by hand. Installation can be within minutes and most important, it gives no hot spot on appearance.

## FEATURES AND BENEFITS

### Flexibility

LED PLEXEON Light can be cut to desired and easily bent by hand, provided with cutting marks for accuracy. LED PLEXEON is very easy to shape various corners, curves, lettering, logos, patterns, motifs, and all other applications where traditional glass neon is applied.

### Long Life and Durability

LED PLEXEON Light is made by LED with long lifetime more than 100,000 hours. It is made by UV resistance, high inflammable class and suitable exposed outdoor location material. It is more durable, impact resistant and simply to maintain.

### Energy Saving

LED PLEXEON Light has been proven to save customers up to 70% or more in energy costs. By the way of comparison to glass neon:  
 LED PLEXEON : 4.4 watts per meter  
 Glass neon: 29 watts per meter

### Safety

Unlike glass neon lights that have to run on a very high voltage of 15,000 V, LED PLEXEON operates internally on 230V, 120V, 24V or 12V, LED PLEXEON is shatterproof, emits very little heat and is absolutely safe to use indoors and outdoors.

### Low voltage, low energy used and cuttable

The 230V LED PLEXEON consumes only 4.4W per meter. It can be cut according to our scissor mark through which end user an custom made their own length easily

### High and Even Brightness

LED PLEXEON comprised of a string of LED's spaced at a specific distance apart sufficient illuminate the specially designed oval-shaped encapsulating jacket to produce light with uniformity and neon-like brightness.

### Transportable and Easy to install

LED PLEXEON comes supplied in rolls in cartons which substantially reduces size and weight thus increasing ease of transport. LED PLEXEON saves customers considerable amounts of money in reducing installation time and Glass Neon is extremely fragile and heavy due to the need for supporting structures therefore it is expensive to package and ship. Because of the fragility and heavy weight primarily due to its supporting infrastructure, traditional neon light is expensive to package and ship. LED PLEXEON, with minimized size and light weight, provides the handling benefit so that it is easy to transport with its specially designed accessories, LED PLEXEON is easy to install and can save your tremendous labor costs, energy cost comparison between traditional glass neon and LED PLEXEON .

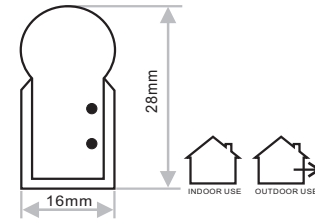


# LED PLEXEON™ Light Single Color Regular Type

## Features:

- Consistent and stringent wavelength control standards +/- 3nm
- Ultra-bright & Low Light attenuation LEDs
- Milky white diffuser
- White PVC base edge to increase luminosity
- 100% unbreakable
- 100% waterproof
- Low voltage safety, cool for touch
- Low heat
- Low maintenance cost
- 1/10 the energy consumption of glass neon
- Fully enclosed electronics: no exposed glass tubing as with neon
- Environmental protection
- Work temperature: -20°C~60°C

The LED could be Red(R) , Blue(B) , Lemon Yellow(LY) , Green(G) , Orange(O) , Cool White(CW) , Warm White (WW) , Magenta(MT) , Violet(VT) , Amber(A)

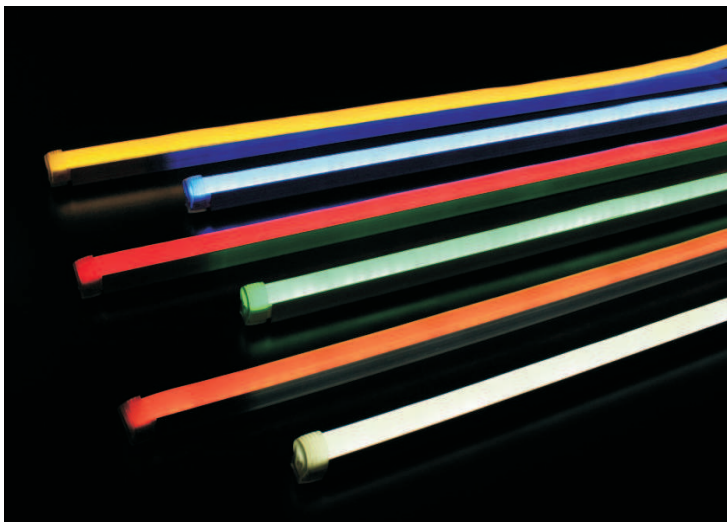


## Specifications

Item No .	LSN-230V			LSN-120V			LSN-24V			LSN-12V		
	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT
Length per roll in Meters	50	50	50	50	50	50	50	50	50	50	50	50
Size (mm)	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	1000	1000	625	500	500	125	75	75	62.5	37.5	37.5
LED quantity per unit	100	80	80	50	40	40	10	6	6	5	3	3
Power consumption per meter	3.7W	4.6W	4.6W	3.8W	4.8W	4.8W	3.8W	6.4W	6.4W	3.8W	6.4W	6.4W
Total units	40	50	50	80	100	100	400	667	667	800	1333	1333
Max Loading Length (meter)	250	200	200	125	100	100	25	15	15	12.5	7.5	7.5
Operating voltage	230V DC			120V DC			24V DC			12V DC		

## Minimum luminous

LED color	R	A	O	LY	WW	CW	B	G
Lumen/meter	40	40	46.5	142.7	130.3	155.7	22.1	107



# Connection

## Simple Connector(Indoor)



# Installation

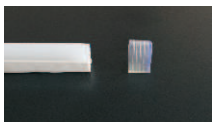
## Optional accessories



Power Connector  
LSN-PCR



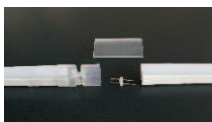
Pin Connector  
LSN-MRF



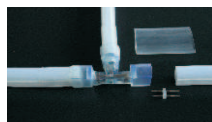
End Cap  
LSN-ECR



L Connector  
LSN-LR1



Straight Connector  
LSN-MR



T Connector  
LSN-TR



Mounting Channel  
LSN-MC



PACKAGE IN ROLL

## Installation Notes

- A Catalog is not a substitute for user manual. The installation illustrations to the right are for reference only
- Always follow the cut marks provided user manual
- Cut only on the cut marks provided on the fixture housing
- When applying linear solutions to a channel make certain to use an appropriate silicone adhesive between the base of the channel profile and the fixture housing to eliminate stretching over time.



Cutting Mark



Linear Installation



Curve Installation includes

LSN must be cut only on the indicated mark place

Aluminum Channel LSN-MC

1. Aluminum Channel LSN-MC
2. Screw



180° Installation includes

1. Aluminum Channel LSN-MC
2. Screw



90° Installation includes

1. Aluminum Channel LSN-MC
2. Screw



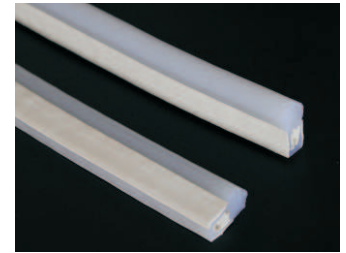
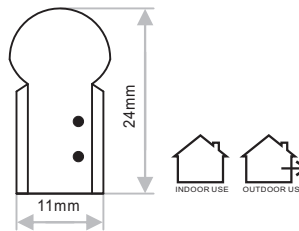
## LED PLEXEON™ Light Single Color Economic Type

This type offers a kind of economic LED PLEXEON light for clients based on chinese origin high quality LED chip.

### Features:

- Milky white diffuser
- White PVC base edge to increase luminosity

The LED could be Red(R) ■, Blue(B) ■, Lemon Yellow(LY) ■, Green(G) ■, Orange(O) ■, Cool White(CW) , Warm White (WW) , Magenta(MT) ■, Violet(VT) ■, Amber(A) ■



### Specifications

Item No .	LSE-230V			LSE-120V			LSE-24V			LSE-12V		
	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT
Length per roll in Meters	50	50	50	50	50	50	50	50	50	50	50	50
Size (mm)	11X24	11X24	11X24	11X24	11X24	11X24	11X24	11X24	11X24	11X24	11X24	11X24
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	1000	1000	625	500	500	125	75	75	62.5	37.5	37.5
LED quantity per unit	100	80	80	50	40	40	10	6	6	5	3	3
Power consumption per meter	3.7W	4.6W	4.6W	3.8W	4.8W	4.8W	3.8W	6.4W	6.4W	3.8W	6.4W	6.4W
Total units	40	50	50	80	100	100	400	667	667	800	1333	1333
Max Loading Length (meter)	250	200	200	125	100	100	25	15	15	12.5	7.5	7.5
Operating voltage	230V DC			120V DC			24V DC			12V DC		

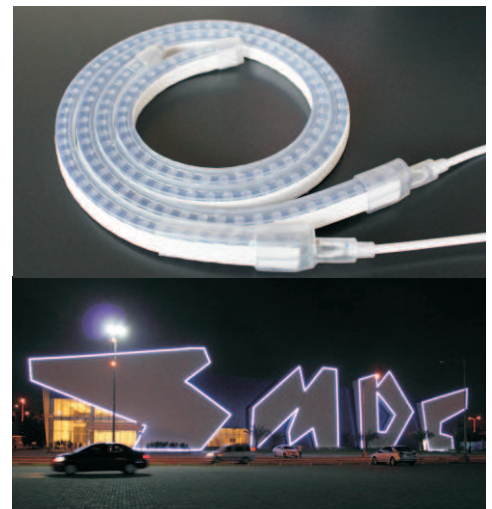
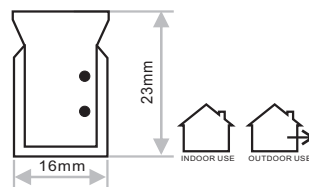
## LED PLEXEON™ Light Single Color Clear Type

Clear LED PLEXEON was designed with an optically transparent PVC jacket to increase the brightness of the product to enhance far field viewing. Clear LED PLEXEON applied to structures that are intended to be viewed from long distances such as bridges and high-rise skyscraper type structures offers greater luminosity at distance. Up close the Crystal LED PLEXEON appears spotted however at far field viewing distances, say 40 meters, it appears solid just like the PLEXEON regular type.

### Features:

- Optically transparent PVC jacket offers brighter results in areas that are far from the viewing public;
- Unique Optically clear PVC jacket
- White PVC base edge to increase luminosity

The LED could be Red(R) ■, Blue(B) ■, Lemon Yellow(LY) ■, Green(G) ■, Orange(O) ■, Cool White(CW) , Warm White (WW) , Magenta(MT) ■, Violet(VT) ■, Amber(A) ■



### Specifications

Item No .	CLN-230V			CLN-120V			CLN-24V			CLN-12V		
	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT	R,A,O	B,G,CW, WW, LY	MT,VT
Length per roll in Meters	50	50	50	50	50	50	50	50	50	50	50	50
Size (mm)	16X23	16X23	16X23	16X23	16X23	16X23	16X23	16X23	16X23	16X23	16X23	16X23
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	1000	1000	625	500	500	125	75	50	62.5	37.5	37.5
LED quantity per unit	100	80	80	50	40	40	10	6	6	5	3	3
Power consumption per meter	3.7W	4.6W	4.6W	3.8W	4.8W	4.8W	3.8W	6.4W	6.4W	3.8W	6.4W	6.4W
Total units	40	50	50	80	100	100	400	667	667	800	1333	1333
Max Loading Length (meter)	250	200	200	125	100	100	25	15	15	12.5	7.5	7.5
Operating voltage	230V DC			120V DC			24V DC			12V DC		

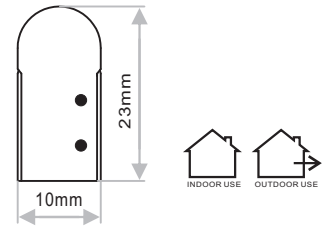
## LED PLEXEON™ Light Single Color Ultra-thin Type

Ultra-thin LED PLEXEON embodies all the features and benefits of LED PLEXEON single color regular type however the physical profile is engineered smaller to facilitate additional types of applications where a smaller profile is required.

### Features:

- Smaller product size to enable new applications such as neon sign etc.
- Smaller bend angle
- Milky white diffuser
- White PVC base edge to increase luminosity
- DIP LED  $\phi$ 3mm

The LED could be Red(R) , Blue(B) , Lemon Yellow(LY) , Green(G) , Orange(O) , Cool White(CW) , Warm White (WW) , Amber(A)



### Specifications

Item No .	ULN-230V		ULN-120V		ULN-24V		ULN-12V	
	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
Length per roll in Meters	50	50	50	50	50	50	50	50
Size (mm)	10X23	10X23	10X23	10X23	10X23	10X23	10X23	10X23
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	1000	625	500	125	75	62.5	37.5
LED quantity per unit	100	80	50	40	10	6	5	3
Power consumption per meter	3.7W	4.6W	3.8W	4.8W	3.8W	6.4W	3.8W	6.4W
Total units	40	50	80	100	400	667	800	1333
Max Loading Length (meter)	250	200	125	100	25	15	12.5	7.5
Operating voltage	230V DC		120V DC		24V DC		12V DC	

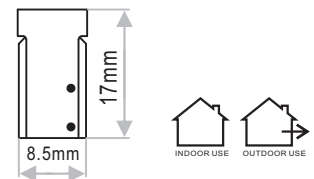


## LED PLEXEON™ Light SMD Micro-Flex Type

### Features

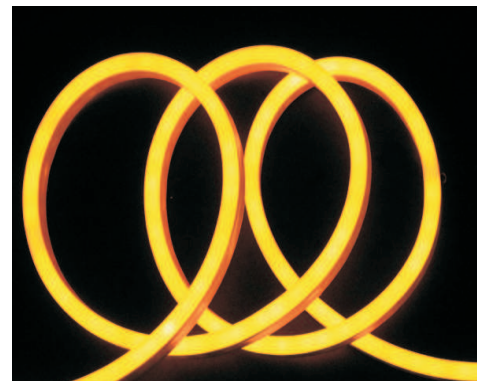
- single color micro size for indoor use only, more flexible to bend
- SMD3528 LED
- Milky white diffuser
- White PVC base edge to increase luminosity
- New Ultra-bright & Low Light attenuation LEDs

The LED could be Red(R) , Blue(B) , Lemon Yellow(LY) , Green(G) , Orange(O) , Cool White(CW) , Warm White (WW) , Amber(A)



### Specifications

Item No .	SMG-230V		SMG-120V		SMG-24V		SMG-12V	
	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
Length per roll in Meters	50	50	50	50	50	50	50	50
Size (mm)	8.5X17	8.5X17	8.5X17	8.5X17	8.5X17	8.5X17	8.5X17	8.5X17
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	1000	625	500	125	75	62.5	37.5
LED quantity per unit	100	80	50	40	10	6	5	3
Power consumption per meter	3.7W	4.6W	3.8W	4.8W	3.8W	6.4W	3.8W	6.4W
Total units	40	50	80	100	400	667	800	1333
Max Loading Length (meter)	250	200	125	100	25	15	12.5	7.5
Operating voltage	230V DC		120V DC		24V DC		12V DC	



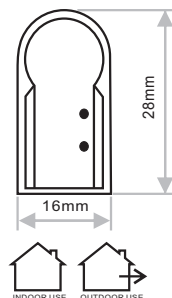


## LED PLEXEON™ Light Single Color Anti-UV Jacket Type

### Features

- Covered with an anti-UV jacket to protect from sun and weather
- Special 2 years warranty for outdoor application
- New Ultra-bright & Low Light attenuation LEDs
- Milky white diffuser

The LED could be Red(R) ■, Blue(B) ■, Lemon Yellow(LY) ■, Green(G) ■, Orange(O) ■, Cool White(CW) , Warm White (WW) , Magenta(MT) ■, Violet(VT) ■, Amber(A) ■



### Specifications

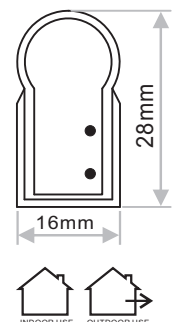
Item No .	LSS-230V			LSS-120V			LSS-24V			LSS-12V		
	R,A,O	B,G,CW,WW,LY	MT,VT	R,A,O	B,G,CW,WW,LY	MT,VT	R,A,O	B,G,CW,WW,LY	MT,VT	R,A,O	B,G,CW,WW,LY	MT,VT
Length per roll in Meters	50	50	50	50	50	50	50	50	50	50	50	50
Size (mm)	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	100	100	625	500	500	125	75	75	62.5	37.5	37.5
LED quantity per unit	100	80	80	50	40	40	10	6	6	5	3	3
Power consumption per meter	3.7W	4.6W	4.6W	3.8W	4.8W	4.8W	3.8W	6.4W	6.4W	3.8W	6.4W	6.4W
Total units	40	50	50	80	100	110	400	667	667	800	1333	1333
Max Loading Length (meter)	250	200	200	125	100	100	25	15	15	12.5	7.5	7.5
Operating voltage	230V DC			120V DC			24V DC			12V DC		

## LED PLEXEON™ Light Single Color Colored Jacket Type

### Features

- Covered with a color diffuser to be easily recognized when the tube is powered off
- Pure pantone color diffuser same with LED color
- New Ultra-bright & Low Light attenuation LEDs
- White PVC base edge to increase luminosity

The LED could be Red(R) ■, Blue(B) ■, Lemon Yellow(LY) ■, Green(G) ■, Orange(O) ■, Cool White(CW) , Warm White (WW) , Magenta(MT) ■, Violet(VT) ■, Amber(A) ■



### Specifications

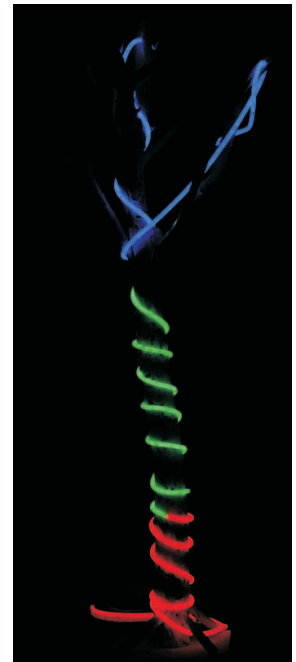
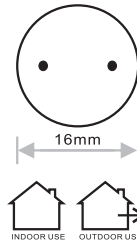
Item No .	LSC-230V			LSC-120V			LSC-24V			LSC-12V		
	R,A,O	B,G,CW,WW,LY	MT,VT	R,A,O	B,G,CW,WW,LY	MT,VT	R,A,O	B,G,CW,WW,LY	MT,VT	R,A,O	B,G,CW,WW,LY	MT,VT
Length per roll in Meters	50	50	50	50	50	50	50	50	50	50	50	50
Size (mm)	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28	16X28
LED spacing (mm)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
LED quantity per meter	80	80	80	80	80	80	80	80	80	80	80	80
Cutting Unit length (mm)	1250	1000	1000	625	500	500	125	75	75	62.5	37.5	37.5
LED quantity per unit	100	80	80	50	40	40	10	6	6	5	3	3
Power consumption per meter	3.7W	4.6W	4.6W	3.8W	4.8W	4.8W	3.8W	6.4W	6.4W	3.8W	6.4W	6.4W
Total units	40	50	50	80	100	100	400	667	667	800	1333	1333
Max Loading Length (meter)	250	200	200	125	100	100	25	15	15	12.5	7.5	7.5
Operating voltage	230V DC			120V DC			24V DC			12V DC		

# LED PLEXEON™ Light Single Color Round ONEON Type

## Features

- Round LED flexible neon can be bent at any angle
- Milky white jacket and colored jacket available

The LED could be Red(R) , Blue(B) , Lemon Yellow(LY) , Green(G) , Orange(O) , Cool White(CW) , Warm White (WW) , Amber(A)

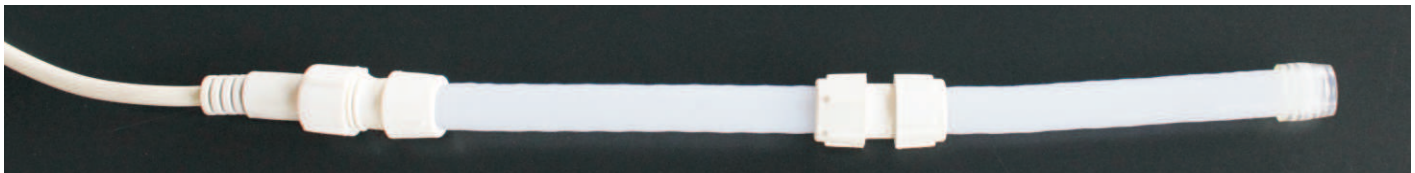


## Specifications

Item No .	LON-230V		LON-120V		LON-24V		LON-12V	
	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
Length per roll in Meters	50	49.6	50	49.6	50	49.6	50	49.6
Size (mm)	Φ16	Φ16	Φ16	Φ16	Φ16	Φ16	Φ16	Φ16
LED spacing (mm)	10	10	10	10	10	10	10	10
LED quantity per meter	100	100	100	100	100	100	100	100
Cutting Unit length (mm)	1000	800	500	400	100	70	50	30
LED quantity per unit	100	80	50	40	10	7	5	3
Power consumption per meter	4.6W	5.7W	4.8W	6W	4.8W	6.8W	4.8W	8W
Total units	50	62	100	124	500	709	1000	1654
Max Loading Length (meter)	200	160	100	80	20	14	10	6
Operating voltage	230V DC		120V DC		24V DC		12V DC	

## Connection

### Simple Connector(Indoor)



## Installation

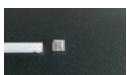
### Optional accessories



Power Connector  
LON-PCR



Straight Connector  
LON-MR



End Cap  
LON-ECR



Mounting Clip  
LON-MCL



## LED FLEX-Ribbon type

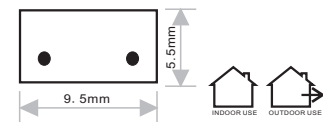
The LED could be Red(R) , Blue(B) , Lemon Yellow(LY) , Green(G) , Orange(O) , Cool White(CW) , Warm White (WW) , Amber(A)

### Specifications(60 LEDs per meter)

Item No .	FRA-230V		FRA-120V		FRA-24V		FRA-12V	
	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
LED color	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
Length per roll in Meters	100	100	100	100	100	100	100	100
Size (mm)	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5
LED spacing (mm)	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
LED quantity per meter	60	60	60	60	60	60	60	60
Cutting Unit length (mm)	2000	1336	1000	668	167	117	83.5	50.1
LED quantity per unit	120	80	60	40	10	7	5	3
Power consumption per meter	2.3W	3.4W	2.4W	3.5W	2.9W	4.1W	2.9W	4.8W
Total units	50	75	100	150	600	875	1200	1650
Max Loading Length (meter)	400	267	200	134	25	20	20	10
Operating voltage	230V DC		120V DC		24V DC		12V DC	

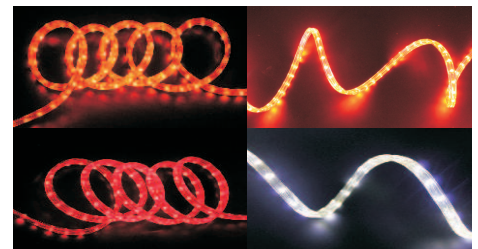
### Features

- Single color flex ribbon offers more flexibility
- Small size easy to bend
- Model offers super flex and mini ribbon with SMD3528 for indoor and outdoor application such as edge of furnitures, office decoration and hotel decoration etc that requires small object to decorate
- Non FPC
- Optically transparent PVC jacket



### Specifications(30 LEDs per meter)

Item No .	FRB-230V		FRB-120V		FRB-24V		FRB-12V	
	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
LED color	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
Length per roll in Meters	100	100	100	100	100	100	100	100
Size (mm)	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5	9.5X5.5
LED spacing (mm)	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
LED quantity per meter	30	30	30	30	30	30	30	30
Cutting Unit length (mm)	4000	2000	2000	1000	333	233	166.5	99.9
LED quantity per unit	120	60	60	30	10	7	5	3
Powerconsumptionpermeter	1.2W	2.3W	1.2W	2.4W	2.9W	2W	1.4W	2.4W
Total units	25	50	50	100	300	428	600	1000
Max Loading Length (meter)	600	400	400	200	30	25	25	15
Operating voltage	230V DC		120V DC		24V DC		12V DC	

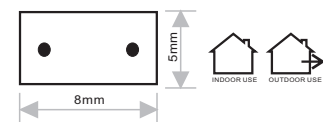


### Specifications(90 LEDs per meter)

Item No .	FRC-230V		FRC-120V		FRC-24V		FRC-12V	
	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
LED color	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY	R,A,O	B,G,CW, WW, LY
Length per roll in Meters	100	100	100	100	100	100	100	100
Size (mm)	8X5	8X5	8X5	8X5	8X5	8X5	8X5	8X5
LED spacing (mm)	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
LED quantity per meter	90	90	90	90	90	90	90	90
Cutting Unit length (mm)	1000	800	667	400	111	77.7	55.5	33.3
LED quantity per unit	90	72	60	36	10	8	5	4
Powerconsumption permeter	4.6W	5.8W	3.6W	6W	4.3W	6.2W	4.3W	7.2W
Total units	100	125	150	250	900	1286	1200	1654
Max Loading Length (meter)	200	160	133	80	20	15	15	7
Operating voltage	230V DC		120V DC		24V DC		12V DC	

### Features

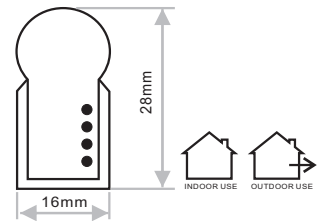
- Smaller size for better flexibility
- IP67 waterproof



# LED PLEXEON™ Light Multi-color SMD Type

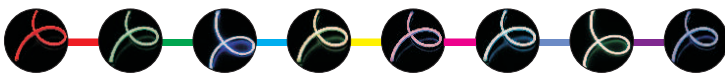
RGB LED PLEXEON embodies all the benefits of LED PLEXEON regular type with the additional of RGB color changing technology. RGB LED PLEXEON provides complete RGB color changing through intensity changes of the R, G, B LEDs chips.

RGB LED PLEXEON is a perfect replacement where traditional glass neon is applied in various colors to achieve a color changing appearing effect. RGB PLEXEON provides virtually 16.7 million colors of linear color changing.



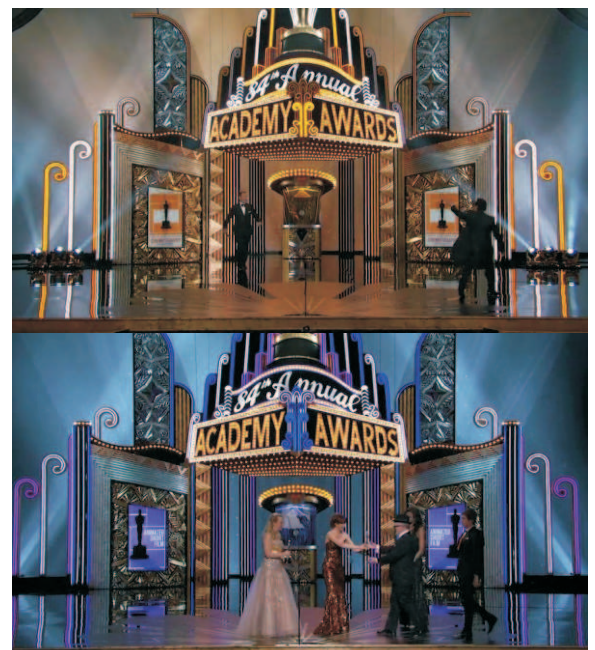
## Features:

- Full RGB linear color control of up to 16.7 million color
- Consistent and stringent wavelength control standards +/- 3nm for R, G, B LED
- New ultra-bright SMD 3-in-1 RGB LED 5050
- White PVC base edge to increase luminosity
- Milky white diffuser
- Same size with LSN single color regular type to be compatible in some accessory application
- Even & unique mixed colors
- Controlled with 4 wires 3 circuited general controller, it can emit 7 mixed or single colors: Red, Green, Blue, Yellow, Magenta, Cyan, White.
- Cation: Never Light R, G & B full on for more than 30 minutes to avoid LED damages.



## Specifications

Item No .	LSM-230V	LSM-120V	LSM-24V
LED color			
Length per roll in Meters	50M	50M	50M
Size (mm)	16X28	16X28	16X28
LED spacing (mm)	14.3mm	14.3mm	14.3mm
LED quantity per meter	70	70	70
Cutting Unit length (mm)	1000mm	500mm	100mm
LED quantity per unit	70	35	7
Power consumption per unit	MAX 16W	MAX 8W	MAX 1.44W
Total units	50	100	500
Max Loading Length (meter)	100	50	10
Operating voltage	230V DC	120V DC	24V DC



## Connection Simple Connector(Indoor)



## Installation Optional accessories



Front Connector  
LSM-PCR



Straight Connector  
LSM-MR



End Cap  
LSM-ECR

## Installation Notes

- A Catalog is not a substitute for user manual. The installation illustrations to the right are for reference only
- Always follow the cut marks provided user manual
- Cut only on the cut marks provided on the fixture housing
- When applying linear solutions to a channel make certain to use an appropriate silicone adhesive between the base of the channel profile and the fixture housing to eliminate stretching over time.



Cutting Mark

LSM must be cut only on the indicated mark place



Linear Installation

Aluminum Channel  
LSM-MC



Curve Installation includes

1. Aluminum Channel  
LSM-MC  
2. Screw



180° Installation includes

1. Aluminum Channel  
LSM-MC  
2. Screw



90° Installation includes

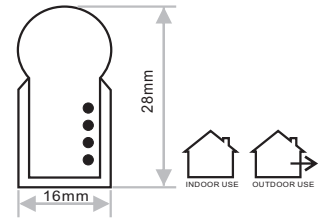
1. Aluminum Channel  
LSM-MC  
2. Screw

## LED PLEXEON™ Light Multi-color DIP Type

DIP RGB LED PLEXEON offers a cheaper color changing LED neon though it is mixed color is not so good compared with SMD 5050 type

### Features:

- Full RGB linear color control of up to 16.7 million color
- Consistent and stringent wavelength control standards  
+/- 3nm for R, G, B LED
- New ultra-bright DIP RGB LED
- White PVC base edge to increase luminosity
- Milky white diffuser
- Same size with LSN single color regular type to be compatible in some accessory application
- The shape & size is same with LSM series



### Specifications

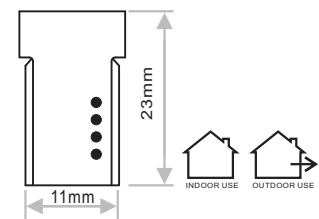
Item No .	LSD-230V	LSD-120V	LSD-24V
LED color			
Length per roll in Meters	50M	50M	50M
Size (mm)	16X28	16X28	16X28
LED spacing (mm)	14.3	14.3	14.3
LED quantity per meter	210	210	210
Cutting Unit length (mm)	1000	500	100
LED quantity per unit	210	105	21
Power consumption per unit	MAX 16W	MAX 8W	MAX 1.44W
Total units	50	100	500
Max Loading Length (meter)	100	50	10
Operating voltage	230V DC	120V DC	24V DC



## LED PLEXEON™ Light Multi-color SMD Thin Type

### Features:

- Ultra thin in size 11X23MM for R, G, B color changing more flexible compared with LSM & LSD
- Full RGB linear color control of up to 16.7 million color
- Consistent and stringent wavelength control standards  
+/- 3nm for R, G, B LED
- New ultra-bright SMD RGB LED
- White PVC base edge to increase luminosity
- Milky white diffuser
- IP65 waterproof



### Specifications

Item No .	ULM-230V	ULM-120V	ULM-24V
LED color			
Length per roll in Meters	50	50	50
Size (mm)	11x23	11x23	11x23
LED spacing (mm)	16.7	16.7	16.7
LED quantity per meter	60	60	60
Cutting Unit length (mm)	1000	601	100
LED quantity per unit	72	36	6
Power consumption per unit	MAX 14.4W	MAX 7.2W	MAX 1.44W
Total units	41	83	500
Max Loading Length (meter)	120	60	10
Operating voltage	230V DC	120V DC	24V DC



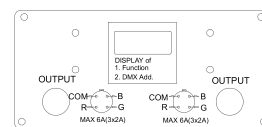
## CONTROLLER

This controller is used for RGB LED lights (four wires and three loops) two group parallel DC output. It includes seven color jumping, seven color fading, seven color flashing and seven color class gray degree dimmer and remote control. Output voltage of the controller is depended on the input voltage. Small size, versatile functions, remote controlling mode provide your various options in application and projects.

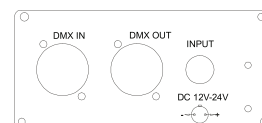
### Technical Parameters

#### ■ CTR-RM-LV

Size: L202 \*W147 \*H56mm  
 Weight: 0.95kg  
 Working temperature: -20°C~ 45°C  
 Input volt.: 12 / 24V DC  
 Output volt.: 12 / 24V DC(related to input volt.)  
 Output power: 144W(12V), 288W(24V)  
 Output Current: 12A (Each Output 6A)  
 Power: 5W  
 Remote distance: 20m

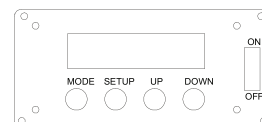


CTR-RM-LV

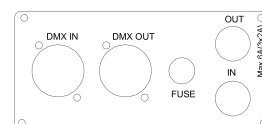


#### ■ CTR-RM-HV

Size: L202 \*W147 \*H56mm  
 Weight: 1 kg  
 Working temperature: -20 °C~ 45°C  
 Input volt.: 120 / 240V AC  
 Output volt.: 120 / 240V DC(related to input volt.)  
 Output power: 720 / 1440W(total)  
 Output Current: 6A  
 Power: 5W  
 Remote distance: 20m



CTR-RM-HV



## DMX512 Console

### Features:

- Universal DMX512 controller
- Controls 12 intelligent lights up to 16 channels
- 30 banks of 8 scenes, total 240 scenes
- 6 sets of chases containing 240 scenes
- Execute multiple chases simultaneously
- Re-assignable channels
- Wheel assignable Pan/Tilt and 16 bit control
- Beat-activation, tap sync, auto run
- Grab any fixture on the fly
- Polarity selector
- Midi compatible

DMX-240A



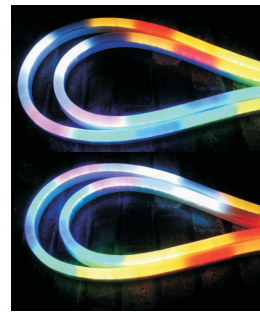
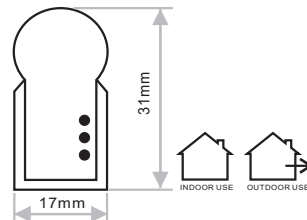
## LED PLEXEON™ Digi-Flex

Compared with LED digital tube, it can be bent and cut at a small length to fit different usage like LOGO, patterns, letters, or screens etc. LED digital tube is rigid and in a fixed length, so it cannot be used in many areas especially when the bending is necessary.

There is IC put inside the tube to designate each address, which controlled by outer control system to make all different function like flash, chasing letters, or video through DMX512 CONSOLE, computer or our intelligent control system.

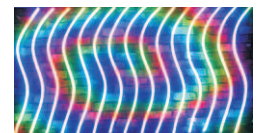
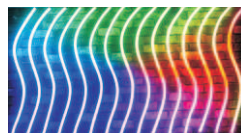
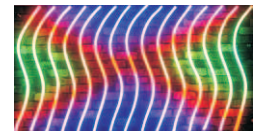
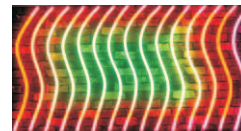
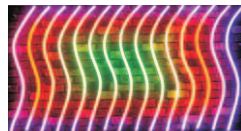
### Features:

- Inbuilt IC in the tube
- SMD 5050 LED
- White PVC base edge to increase luminosity
- Milky white diffuser
- 3 main wires



### Specifications

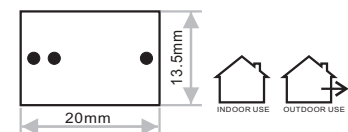
Item No .	DLSM-24V
Length per roll in Meters	20
Size (mm)	17mm(W) x 31mm(H)
Operating voltage	24V DC
LED spacing (mm)	14.3
Number of LED per unit	7
LED quantity per meter	70
Cutting Unit length (mm)	200
LED quantity per unit	14
Power consumption per meter	MAX 14.4W
Total units	100
Max Loading Length (meter)	10



## LED PLEXEON™ Pixel-Flex

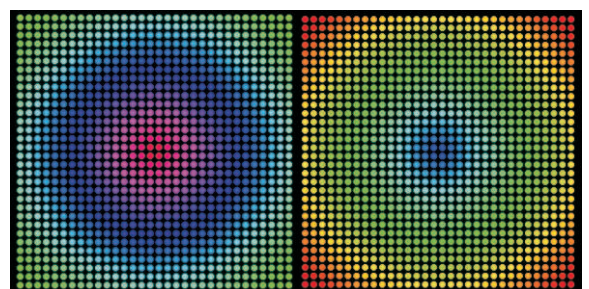
### Features:

- every LED per pixel
- DMX 512 compatible IC.
- cut mark: every 2 pixels
- Led lamps specification: SMD5050
- tube material: transparent PVC
- Jacket material: anti-weather plastic
- 3 wires
- Max continues length: 320 pixels
- 2 years warranty for outdoor use



### Specifications

Item No .	LPF-48	LPF-32	LPF-24	LPF-16	LPF-12
Operating voltage	5V	5V	5V	5V	5V
Length per roll in Meters	10	10	10	10	10
Size (mm)	20X13.5	20X13.5	20X13.5	20X13.5	20X13.5
LED spacing (mm)	20.8	31.3	41.6	62.5	83.3
LED quantity per meter	48	32	24	16	12
Cutting Unit length (mm)	20.8	31.3	41.6	62.5	83.3
LED quantity per unit	1	1	1	1	1
Power consumption per unit	0.3W	0.3W	0.3W	0.3W	0.3W
Total units	480	320	240	160	120





# 广州市权友照明灯具有限公司

GUANGZHOU QUANYOU LIGHTING CO., LTD.

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