

# LED Products

LED Solutions That Work



**MAGIC LITE LTD.**

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All MAGIC LITE LED products come with a 2 year limited warranty.  
Please contact MAGIC LITE for complete details.



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# LED NEON FLEX



Red, Green, Yellow and Blue LED NEON FLEX



Newly developed LED NEON FLEX in Orange and White

Finally, a true replacement for exposed neon! As the name suggests, LED NEON FLEX is a completely flexible, solid core tube imbedded with LED's that looks exactly like neon. LED NEON FLEX can be field cut ( low voltage only), is extremely low in power consumption, lasts up to 100,000 hours and comes in six brilliant colours.

## Features and Benefits:

- **Safe To Use Indoors and Outdoors:** LED NEON FLEX is available in low voltage (24 volts) and in 120 volts unlike traditional neon which works on extremely high voltage transformers. Low voltage LED NEON FLEX can be field cut while line voltage product is available in custom lengths.
- **High Output, Uniform Light:** LED NEON FLEX'S design incorporates high intensity LED's spaced 1/2" apart inside our solid core oval shaped jacket which results in an intense, uniform light along the length of the tube strip.
- **Long Life:** Up to 100,000 hours
- **Durable:** LED NEON FLEX is extremely durable so you don't have the breakage problems leading to high maintenance costs associated with Neon.
- **Energy Efficient:** LED NEON FLEX consumes as little as 1.44 watts per foot saving you as much as 70% in energy costs over traditional neon.
- **Flexibility:** LED NEON FLEX is highly flexible. It can be bent to a minimum radius of 4 cm, and can be cut to any length (to nearest cutting mark ).
- **Ease of Installation:** Transportation to the job site and installation of LED NEON FLEX is a breeze. The product comes spooled or coiled in the length you require and is easily installed with our simple to use mounting U-channel or mounting clips. This feature can mean huge savings in transportation and labour costs in any installation.



Night club

# LED NEON FLEX



Applications include: Building outlines, signage, hi-lighting architectural features, displays – anywhere that neon can be used and countless places where it can't be!



## ENERGY COST COMPARISON

between traditional glass neon and LED NEON FLEX

REGION	GLASS NEON	LED NEON FLEX	ANNUAL SAVINGS	CUMULATIVE SAVINGS
Canada (0.08 \$/kWh)	\$1,839.60	\$454.12	\$1,385.48	\$13,854.80 (In 10 years)

Based on 300 feet length for the colour Red. Energy savings are based on local costs per kilowatt hour, 24 hours per day, 365 days per year.

Energy usage - traditional glass neon: 8.75W/FT,

LED NEON FLEX: 2.40W/FT.

## LIGHT OUTPUT

	RED	YELLOW	ORANGE	GREEN	BLUE	WHITE
TOTAL OUTPUT (Lm/Ft)	7.22	5.42	5.33	6.25	3.79	9.36

## LED NEON FLEX SPECIFICATIONS

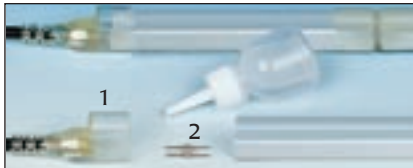
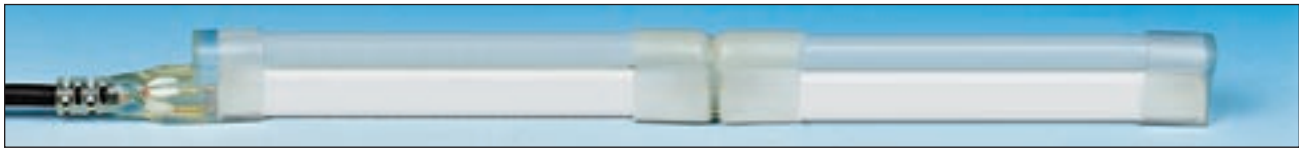
ITEM NO.	DIMENSION	LED SPACING	NO. OF LED PER UNIT	CUTTING UNIT	WATTS PER FOOT	LED Colour	MAX. LOADING LENGTH	LED LIFE
LN-FX-120V	14X27.5 mm	0.5"	60	2.5 FT	1.44W/FT	R, Y, O	96 FT (With 1.6A converter) 240 FT (With 4A converter)	Up to 100,000 hours
			36	1.5 FT	2.00W/FT	G, B, W		
LN-FX-24V	14X27.5 mm	0.5"	8	1/3 FT	2.16W/FT	R, Y, O	16 FT (With 1.6A converter) 40 FT (With 4A converter) 80 FT (With 8A converter)	Up to 100,000 hours
			6	1/4 FT	2.40W/FT	G, B, W		

Recommended storage & operating temperature: -20°C to 40°C, 100% humidity.

# LED NEON FLEX

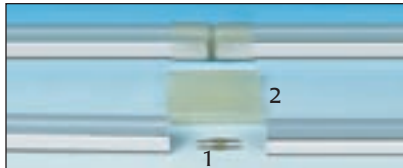
## Connecting Mode:

### 1. Easy Connector (24 volt version)



Front connector includes:

1. Female power connector LN-FX-CA-1
2. Male connecting pin LN-FX-CA-2
3. Heat shrink tube



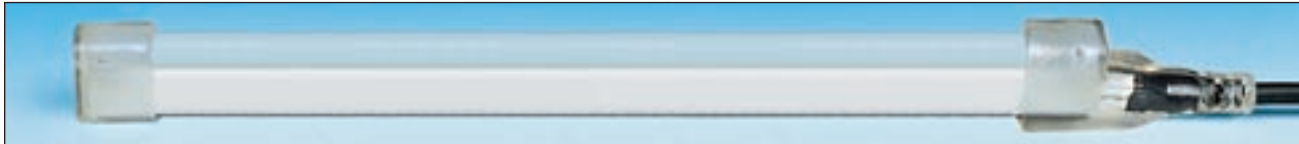
Splicable connector includes:

1. Male connecting pin LN-FX-CA-3
2. Heat shrink tube

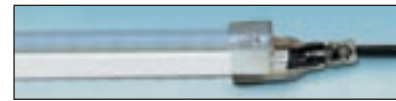


Attachable end cap: LN-FX-CA-4

### 2. Molded Connector – 120V version comes cut specified to your length with connections factory molded on.



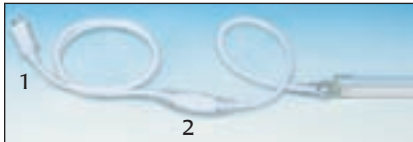
Molded end cap: LN-FX-M-2



Front connector includes:

Molded power connector LN-FX-M-1

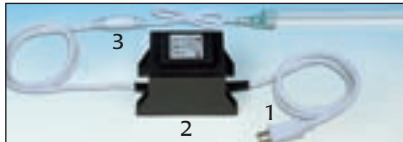
### 3. High Voltage Power Supply



Includes:

1. Power plug
2. AC/DC Converter

### 4. Low Voltage Power Supply

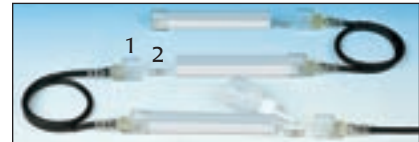


Please see Page 6 for complete list of available power supplies.

Includes:

1. Power plug
2. Transformer
3. AC/DC Converter

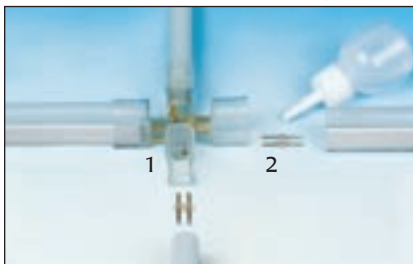
### 5. Middle connector with cable



Includes:

1. Female power connector LN-FX-CA-1
2. Male connector pin LN-FX-CA-2
3. Heat shrink tube

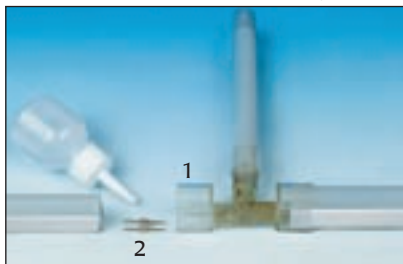
### 6. X Connector (24 volt only)



Includes:

1. X connector LN-FX-X
2. Male connector pin LN-FX-CA-2
3. Heat shrink tube

### 7. T Connector (24 volt only)



Includes:

1. T connector LN-FX-T
2. Male connector pin LN-FX-CA-2
3. Heat shrink tube

### 8. L Connector (24 volt only)



Includes:

1. L connector LN-FX-L
2. Male connector pin LN-FX-CA-2
3. Heat shrink tube

# LED NEON FLEX

## Installation Basics:

LED NEON FLEX is a versatile and user friendly lighting product. It can be cut, bent and easily installed in countless applications to meet your exact requirements.

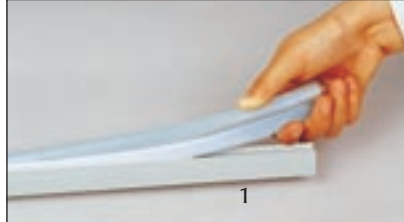
### 1. Cutting mark

(24 volt only, 120V factory cut)



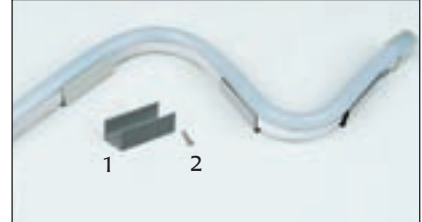
LN-FX Must be cut only on the indicated mark

### 2. Linear installation



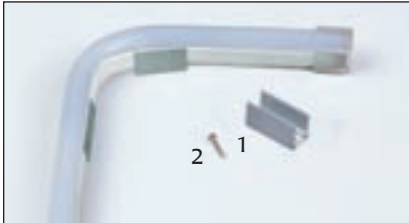
Includes:  
Channel LN-FX-CH

### 3. Curve installation



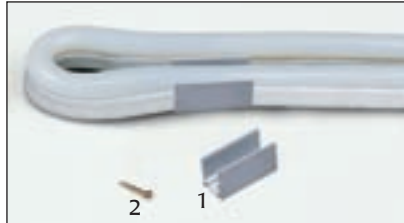
Includes:  
1. Mini channel LN-FX-5  
2. Screw

### 4. 90° Installation



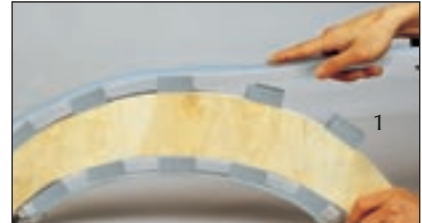
Includes:  
1. Mini channel LN-FX-5  
2. Screw

### 5. 180° Installation



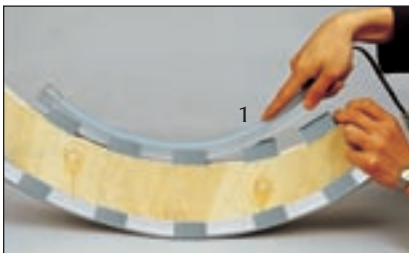
Includes:  
1. Mini channel LN-FX-5  
2. Screw

### 6. Convex installation



Includes:  
Mini channel LN-FX-5

### 7. Concave installation



Includes:  
Mini channel LN-FX-5

### 8. Recessed installation



Press LN-FX into the slot of the installation

## Transformers (for use with rectifiers)

MLTR/100	100 watt, 240V/120V to 24V/12V, magnetic
MLTR/240-24	240 watt, 120V to 24V, magnetic
MLTR-20MAG	20 watt, Class II, 120V to 24V, magnetic plug in
MLTR-75MAG	75 watt, Class II, 120V to 24V, magnetic
MLTR-CX250-24	250 watt, 120-24V, outdoor rated
MLTR-CX300-24	300 watt, 24V output, outdoor rated

## Driver

MLS-LP1060-24-GG-290	LED driver, 60 watt 24V outdoor rated
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## Rectifiers

MLS-CRNS-15-25	Rectifier, 2.5A, with SJTW 1.5 ft. wires and connector
MLS-CRPS-60-15	Rectifier, 8A, with SJTW 6.0 ft. wires and connector
NN-LN-FX-RT-10A	Rectifier, 10A, with SJTW 2.0 ft. wire and connector

# LED MINI TUBE

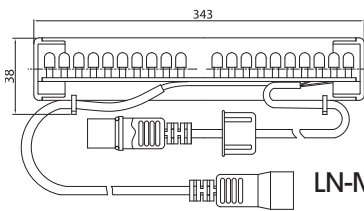


LED MINI TUBE is an advanced LED lighting system that is based on RGB (red, green, blue) LED technology. Controlled and powered by our SRC 181-24V controller, Magic Lite's LED MINI TUBE series gives a full range of colour changing effects. High quality circuit board design and components assure you of top line performance and value.

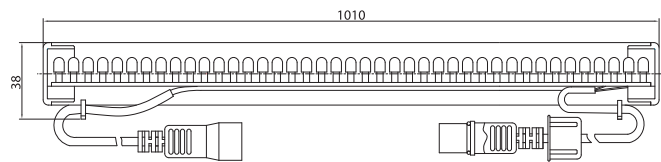
LED MINI TUBE is low voltage and waterproof and is suitable for a variety of both indoor and outdoor applications. Because of the clear protective tube, LED MINI TUBE projects light efficiently onto white surfaces creating fantastic colour wash effects in coves and behind raised surfaces.



## Indoor LED MINI TUBE



LN-MN-300-24V-M



LN-MN-1000-24V-M

## INDOOR LED MINI TUBE TECHNICAL PARAMETERS

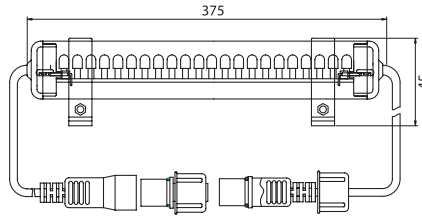
	LN-MN-300-24V-M	LN-MN-1000-24V-M
LED Quantity	R: 15, G: 15, B: 15	R: 45, G: 45, B: 45
Luminous Flux (lm)	21.3	64
Beam Angle	85° x 40°	85° x 40°
Wavelength (nm)	R: 620-630, G: 510-520, B: 470-480	R: 620-630, G: 510-520, B: 470-480
VF Value	R: 1.9-2.3, G: 3.0-3.8, B: 3.0-3.8	R: 1.9-2.3, G: 3.0-3.8, B: 3.0-3.8
Operating Power	3.8W	11.5W
Operating Current	0.16A	0.48A
Operating Voltage	24V DC	24V DC
Size (mm)	343 L x 30 W x 38 H	1010 L x 30 W x 38 H
Weight	0.2KG	0.35KG
Life Span	Up to 100,000 hours	Up to 100,000 hours
Operating Temperature	-20°C to 40°C	-20°C to 40°C
Humidity Range	0 - 95%	0 - 95%
Controller	SRC 181-24V	SRC 181-24V
Maximum Load	60 PCS	20 PCS

Indoor LED MINI TUBE is available in two different lengths and easily join together with our molded-on quick connectors.

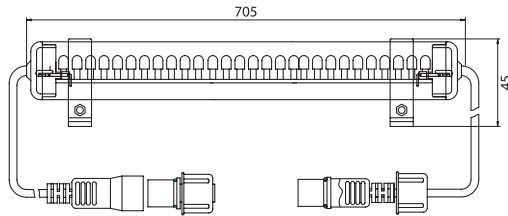
# LED MINI TUBE

## Outdoor LED MINI TUBE

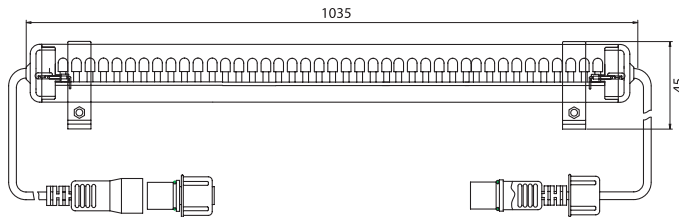
Outdoor LED MINI TUBE is available in three different lengths and easily join together with our molded-on quick connectors.



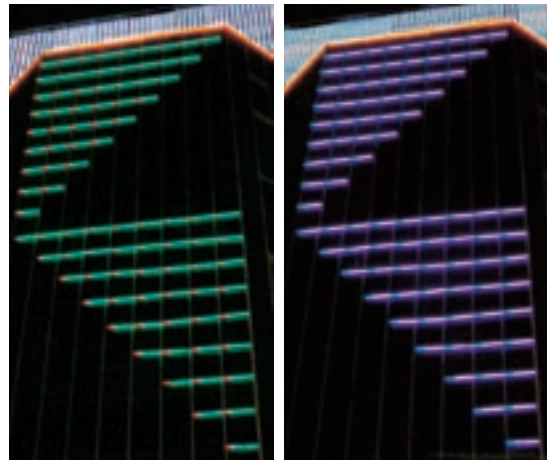
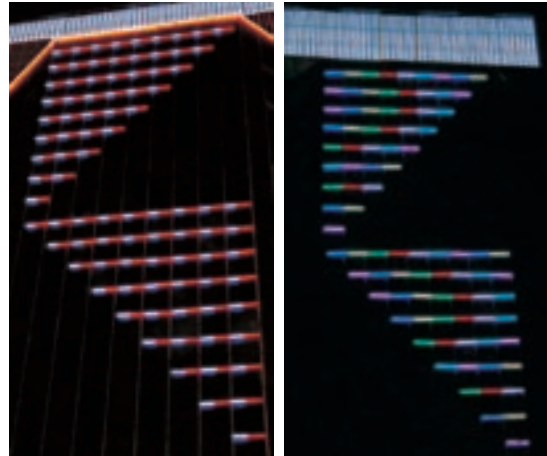
LN-MN-300-24V-M(W)



LN-MN-600-24V-M(W)



LN-MN-1000-24V-M(W)



## OUTDOOR LED MINI TUBE TECHNICAL PARAMETERS

	LN-MN-300-24V-M(W)	LN-MN-600-24V-M(W)	LN-MN-1000-24V-M(W)
LED Quantity	R: 15, G: 15, B: 15	R: 30, G: 30, B: 30	R: 45, G: 45, B: 45
Luminous Flux (lm)	21.3	42	64
Beam Angle	85° x 40°	85° x 40°	85° x 40°
Wavelength (nm)	R: 620-630, G: 510-520, B: 470-480	R: 620-630, G: 510-520, B: 470-480	R: 620-630, G: 510-520, B: 470-480
VF Value	R: 1.9-2.3, G: 3.0-3.8, B: 3.0-3.8	R: 1.9-2.3, G: 3.0-3.8, B: 3.0-3.8	R: 1.9-2.3, G: 3.0-3.8, B: 3.0-3.8
Operating Power	3.8W	7.6W	11.5W
Operating Current	0.16A	0.32A	0.48A
Operating Voltage	24V DC	24V DC	24V DC
Size (mm)	375 L x 45 W x 45 H	705 L x 45 W x 45 H	1035 L x 45 W x 45 H
Weight	0.2KG	0.28KG	0.35KG
Life Span	Up to 100,000 hours	Up to 100,000 hours	Up to 100,000 hours
Operating Temperature	-20°C to 40°C	-20°C to 40°C	-20°C to 40°C
Humidity Range	0 – 95%	0 – 95%	0 – 95%
Protection Rating	IP65	IP65	IP65
Controller	SRC 181-24V	SRC 181-24V	SRC 181-24V
Maximum Load	60 PCS	30 PCS	20 PCS

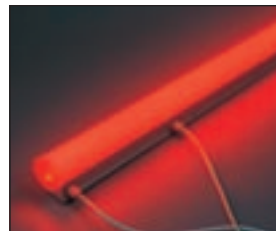
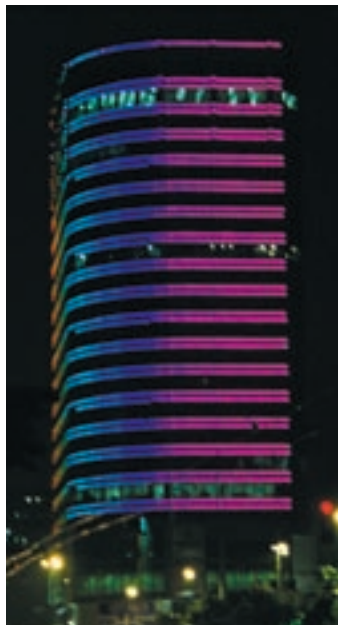
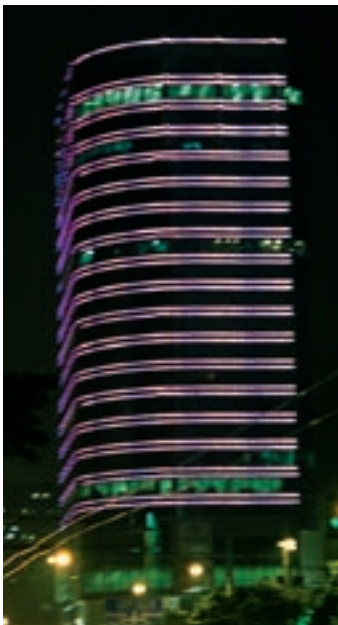


# LED PIPE MULTI COLOUR

LED PIPE multi colour tube series incorporates Red, Green and Blue LEDs integrated with micro-electronic and digital technology allowing us to produce a vast array of colours. Our simple to use controller provides dozens of effects, such as colour chasing, colour fading, flashing, rolling, static colour and more. All of this is available at the touch of a button. The speed control feature allows you to make these effects as dramatic or subdued as you wish, allowing you the flexibility to create the ambience required.



Suitable for indoor or outdoor use, LED PIPE creates dazzling displays of light in countless applications including building outlines, displays, billboards, architectural features and more. Each tube contains a switching power supply allowing easy installation in 120 volts without the need of additional power supplies.

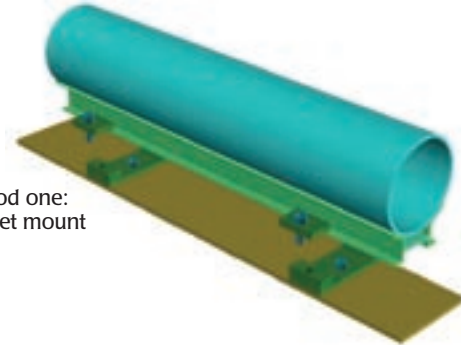


# LED PIPE MULTI COLOUR

## Functions

Static colours: red, green, yellow, blue, purple, cyan, white  
 Colour change: scrolls through all the static colours  
 Slow flow 1 (single directional flow)  
 Slow flow 2 (bi-directional flow)  
 Roll chase 1 (rolling backward and forward)  
 Roll chase 2 (scan backward and forward)  
 Multi colour  
 Fast flow 1  
 Fast flow 2  
 2 colour chase  
 2 colour flow  
 32 rate colour gradual change

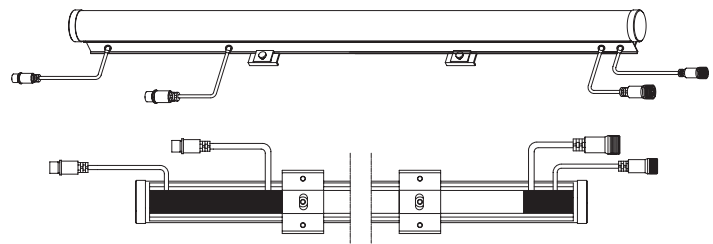
There are two easy methods of installation for the LED PIPE.



Method one:  
Bracket mount

## Parameters

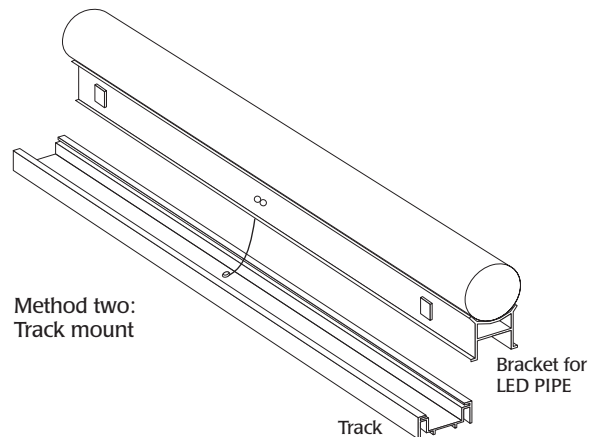
LED: 144 pcs (red 48, green 48, blue 48)  
 Luminous Flux: 64 lm  
 Operating Temperature: -20°C to 45°C  
 Operating Humidity: 0-95%  
 Protection Rating: IP 65



Bottom view

## Structural Specifications:

Tube: milky white polycarbonate  
 Channel: aluminum  
 Size: L1000 x W50 x H75mm  
 (does not include mounting channel)  
 Weight: 1.5kg  
 Controller: SDL-109C1 VER6.0 controller /  
 SDL-109C1 controller together with  
 DMX512  
 Signal Input Connector: 4-pin male connector  
 Signal Output Connector: 4-pin female connector  
 Maximum number of  
 pipes per controller: 600  
 One power supply, SDL-109P is required for every 8 pipes  
 One signal amplifier, SDL-109A-T1 is required for every 60 pipes

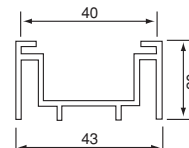
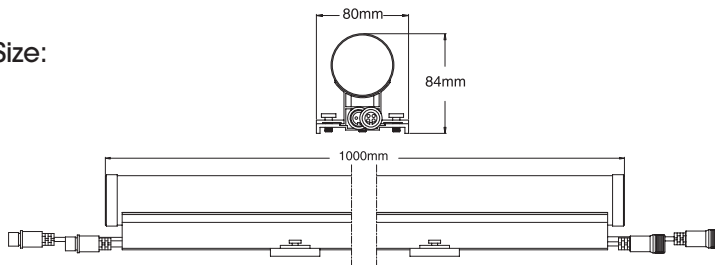


Method two:  
Track mount

## Electrical Specifications:

Input: AC100-240V  
 Operating Voltage: DC12V  
 Current: 1.4A at 12V  
 Power Consumption: Max. 16.8W

## Size:

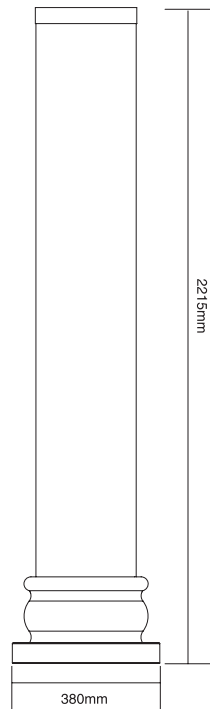


# LED TOWER

LED TOWER multi colour series incorporates Red, Green and Blue LEDs integrated with micro-electronic and digital technology allowing us to produce a vast array of colours in 360 degrees. Our simple to use controller provides dozens of effects, such as colour chasing, colour fading, flashing, rolling, static colour and more. All of this is available at the touch of a button. The speed control feature allows you to make these effects as dramatic or subdued as you wish, allowing you the flexibility to create the ambience required.



Up to 125 towers can be controlled by a single controller up to 1KM away. Applications include plazas, shopping malls, park areas, airports and other public places.



## Functions

- Fixed colour: red, green, yellow, blue, purple, green, white and other single colour display
- Colour changing: 16.7million colour changing
- Unidirectional slow flow
  - Two-way slow flow
  - Rolling chasing (rolling back and forth)
  - Colour rolling (scanning back and forth)
  - Multi-colour chasing
  - Unidirectional fast flow
  - Two-way fast flow
  - Bi-colour chasing
  - Bi-colour flow
  - Colour fading

## Technical Parameters

- Luminance: 485.5LM.
- Operating Temperature: -20°C to 40°C
- Working Humidity: 0-95%
- Protection Rating: IP65

## Communication Specifications

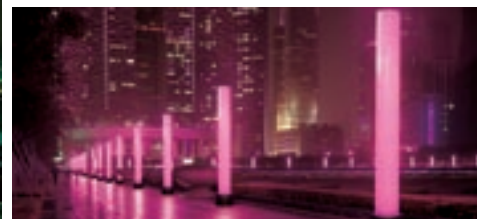
- Communication Protocols: DMX512
- Controller: SDL-109C-W VER6.0
- Signal Input Connector: 4-pin male connector
- Signal Output Connector: 4-pin female connector

## Electrical Specifications

- Input Voltage: AC100-240V
- Max Power Consumption: 135W
- Operating Voltage: 12V DC

## Structure Specifications

- LED: 1152 pcs  
(red 384, green 384, blue 384)
- Outer Tube Material: PMMA plastic
- Base Material: aluminium
- Product Size: Ø250 x H2000mm
- Overall Height: 2215mm
- Net Weight: 29.5kgs



# LED PANE

LED PANE incorporates red, green and blue LEDs integrated with micro-electronic and digital technology allowing us to produce a vast array of colours. LED PANE use LEDs as the light source, each at a certain angle to the inner surface of the cover. Emitted light provides a colour mix through the cover. The outcome produced is a soft, uniform light and polychrome vision effect all at the fingertips of the LED PANE controller.



## LP-LR-60\*60-120V/240V

LED PANE, with its waterproof characteristics, is ideal for both indoor and outdoor use. Create various lighting effects, such as colour changing, colour chasing, colour fading and colour flashing. It is widely used in bars, dance halls, etc.

### Functions

- Static Colours: Red, green, yellow, blue, purple, cyan, white  
 Colour Change: Single direction slow flow  
 Double direction slow flow  
 Roll chase  
 Roll colour  
 Multi colour chase  
 Single direction fast flow  
 Double direction fast flow  
 Bi-colour chase  
 Bi-colour flow  
 32 rate colour gradual change

### Product Technical Parameters

- LED: 288 pcs (red 96, green 96, blue 96)  
 Luminous Flux: 141lm  
 Operating Temperature: -20°C to 45°C  
 Operating Humidity: 0-95%  
 Protection Rating: IP65

### Control Mode

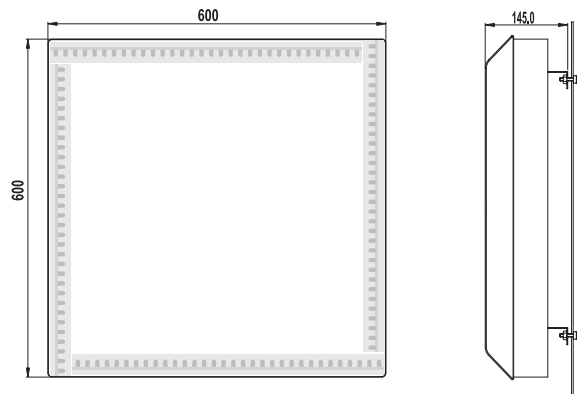
- Controller: SDL-109C1 VER6.0 controller  
 Input Signal Connecting End: Four pin male connector  
 Output Signal Connecting End: Four pin female connector  
 Maximum number of panels from one controller: 300  
 One signal amplifier, SDL-109A-T1 is required for every 30 panes.

### Electrical Specifications

- Input Voltage: AC100-240V  
 Operating Voltage: DC12V  
 Operating Current: 2.8A at 12V  
 MAX Power: 33.6W

### Product Specifications

- Material of Cover: milky ABS  
 Material of Frame: white powder coated steel  
 Structure Measure: L600 x W600 x H145mm  
 Net Weight: 7.2kg

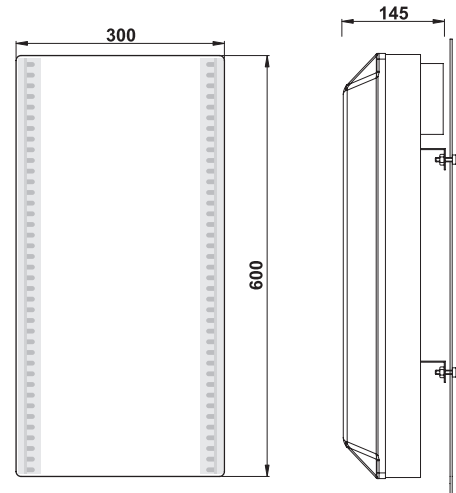


LED PANES were installed at several Laurentian Bank branches creating a unique architectural feature.

# LED PANE

## LP-LR-30\*60-120V/240V

This rectangular version of LED PANE is suitable for indoor and outdoor applications. Its shape allows for many interesting configurations.



### Functions

Static Colours: Red, green, yellow, blue, purple, cyan, white

Color Change: Single direction slow flow

Double direction slow flow

Roll chase

Roll color

Multi color chase

Single direction fast flow

Double direction fast flow

Bi-color chase

Bi-color flow

32 rate color gradual change

### Product Technical Parameters

LED: 144 pcs (red 48, green 48, blue 48)

Luminous Flux: 70 lm

Operating Temperature: -20°C to 40°C

Operating Humidity: 0 – 95%

Protection Rating: IP65

### Control Mode

Controller: SDL-109C1 VER6.0 controller

Input Signal Connecting End: Four pin male connector

Output Signal Connecting End: Four pin female connector

Maximum number of panes from one controller: 500

One signal amplifier, SDL-109A-T1 is required for every 60 panes.

### Electrical Specifications

Input Voltage: AC100-240V

Operating Voltage: DC12V

Operating Current: 1.4A at 12V

MAX Power: 16.8W

### Product Specifications

Material of Cover: milky ABS

Material of Frame: white powder coated steel

Structure Measure: L600 x W300 x H145mm

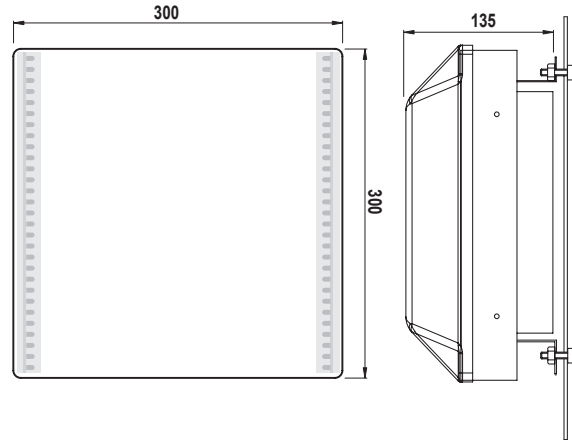
Net Weight: 4.1kg



# LED PANE

## LP-LR-30\*30-120V/240V-DMX (OUTDOOR)

This smaller version of LED PANE is suitable for indoor and outdoor applications and is controlled by a DMX console for more dramatic and various lighting effects.



### Functions

Static Colours: Red, green, yellow, blue, purple, cyan, white  
Colour Change: Colour flashing  
32 rate colour gradual change

### Product Technical Parameters

LED: 76 pcs (red 24, green 26, blue 26)  
Luminous Flux: 38 lm  
Operating Temperature: -20°C to 45°C  
Operating Humidity: 0-95%  
Protection Rating: IP65

### Control Mode

Controller: SRC-174, DMX console  
Input Signal Connecting End: Four pin male connector  
Output Signal Connecting End: Four pin female connector  
Maximum number of panes from one SRC-174 controller: 48  
One signal amplifier, SDL-109A-T1 is required for every 20 panes.

### Electrical Specifications

Input Voltage: AC100-240V  
Operating Voltage: 5V DC  
Operating Current: 1A  
MAX Power: 5W

### Product Specifications

Material of Cover: milky ABS  
Material of Frame: white powder coated steel  
Structure Measure: L300 x W300 x H135mm  
Net Weight: 2.2kg



# LED ROTARY SHELF LIGHT



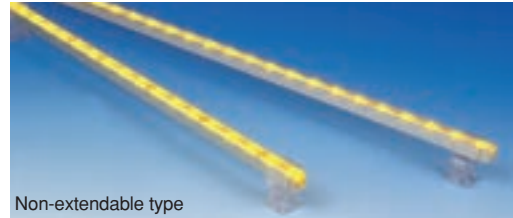
LED rotary shelf light is a widely used illuminating strip for store windows and shelves as well as under cabinet lighting and coves. Ultra bright LEDs and high quality circuitry give this sleek light source incomparable advantages over traditional light sources.

- Long Life – Up to 100,000 hours
- High brightness
- Low power consumption
- Multi colours available – red, green blue, white and yellow
- White LED's available in standard colour temperature of 3000K as well as an extra bright 5000K version.
- Easy to install
- Adjustable 180 degrees with our pivotal mounting clips
- Can be surface mounted without pivotal clips for cove applications
- Safe – operates at 24 volts

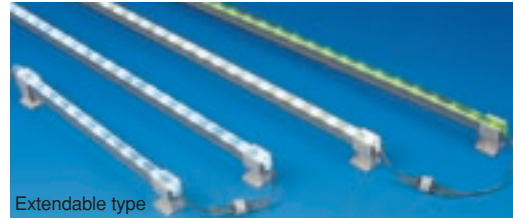
## CaroLED rotary shelf light



CaroLED rotary shelf light adds a professional design element to Magic Lite's LED shelf light. Our sleek anodized aluminum extrusion provides a professional appearance to this highly effective product. Our mounting brackets allow the light bar to swivel for precise aiming and can be easily secured to wood with screws or to glass surfaces with double sided tape.



Non-extendable type



Extendable type

### Power Supply

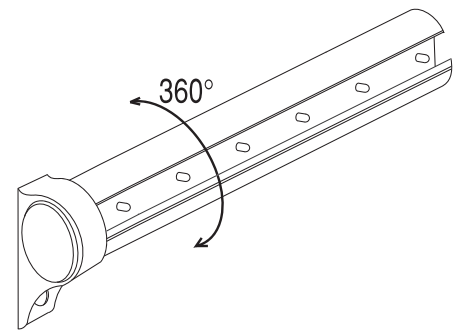
18W switching power supply for extendable LED Rotary Shelf Light

2.5W class II transformer for 12" non-extendable LED Rotary Shelf Light

2.5W class II transformer for 18" non-extendable LED Rotary Shelf Light

3.5W class II transformer for 30" non-extendable LED Rotary Shelf Light

4.5W class II transformer for 48" non-extendable LED Rotary Shelf Light



## LED ROTARY SHELF LIGHT AND CAROLED ROTARY SHELF LIGHT SPECIFICATIONS

ITEM NO.	BULBS SPACING	NO. OF BULBS	LENGTH	CaroLED LENGTH	COLOUR	VOLTAGE	POWER CONSUMPTION	MAX. FIXTURES PER 18W POWER SUPPLY	LIFESPAN
LED-RSL-12-24V-Z-EX	1"	12	12"	13"	R, Y, W, B, G	24V	1W	18	Up to 100,000 hours
LED-RSL-18-24V-Z-EX	1"	18	18"	19"	R, Y, W, B, G	24V	2W	9	Up to 100,000 hours
LED-RSL-30-24V-Z-EX	1"	30	30"	31"	R, Y, W, B, G	24V	3W	6	Up to 100,000 hours
LED-RSL-48-24V-Z-EX	1"	48"	48"	49"	R, Y, W, B, G	24V	4W	4	Up to 100,000 hours
LED-RSL-12-24V-Z	1"	12	12"	13"	R, Y, W, B, G	24V	1W	–	Up to 100,000 hours
LED-RSL-18-24V-Z	1"	18	18"	19"	R, Y, W, B, G	24V	2W	–	Up to 100,000 hours
LED-RSL-30-24V-Z	1"	30	30"	31"	R, Y, W, B, G	24V	3W	–	Up to 100,000 hours
LED-RSL-48-24V-Z	1"	48"	48"	49"	R, Y, W, B, G	24V	4W	–	Up to 100,000 hours

Z refers to colour. EX means this product is extendable. Extendable version includes standard 4" connector. Custom lengths are available. Recommended storage & operating temperature: -20°C to 40°C, up to 95% humidity.

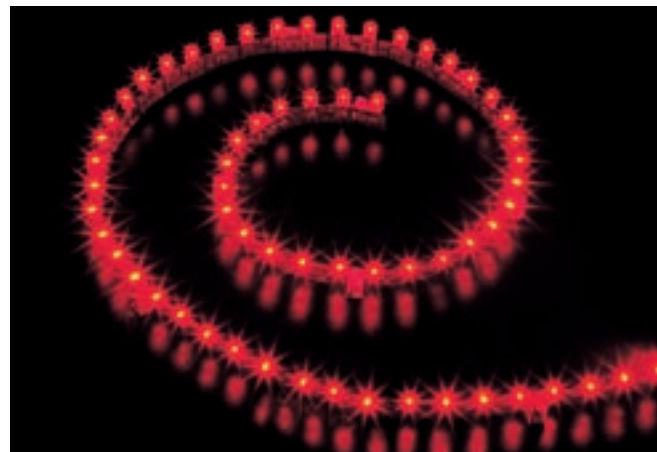
# LED CHANNEL FLEX PCB TYPE VERTICAL

LED CHANNEL FLEX PCB TYPE VERTICAL is one of our most versatile products and is designed primarily as an alternative to neon for use in back lighting channel letters. It is made with a flexible circuit board which can be bent at any angle allowing for installation into any sign configuration. LEDs are soldered onto the flexible board guaranteeing quality and reliability.

## Why use LED CHANNEL FLEX PCB TYPE VERTICAL instead of neon?

LED CHANNEL FLEX PCB TYPE VERTICAL is:

- field cuttable – can be cut every 3 LEDs
- safe – operates on 12 volts
- easily connectable – has built in connectors along the side (every six LEDs)
- long lasting – up to 100,000 hours
- available in 7 brilliant colours – red, yellow, orange amber, green, blue & white
- flexible – can be bent 360 degrees
- low in power consumption – 1.92 watts per linear foot
- can be run continuously up to a maximum of 12.5 feet
- easy to install – comes with simple to use mounting clips
- not fragile like neon and is easily transported to job sites
- a fraction of the cost of neon



## Set up:



Straight line



Right Angle



Curve



1. Cut only at the cutting mark.



2. Channels can be connected by extension cord



3. Connect the transformer and LED CHANNEL FLEX PCB TYPE VERTICAL together with connector.



4. Fix with screw and clip if necessary.



5. Stick with double sided tape.

## TECHNICAL PARAMETERS

ITEM NO.	BULB NO.	VOLTAGE	POWER CONSUMPTION	MAXIMUM LENGTH	COLOUR	LED LIFE
LBLU (FX)-V-1-12V	24 per ft	12V DC	1.92 W/Ft	12.5Ft	R, G, Y, B, W	Up to 100,000 hours

Colour wavelengths: Red 620-630nm, Orange: 600-608nm, Amber: 592-596nm, Yellow: 584-592nm, Green: 504-516nm.  
One mounting clip recommended every 1.5'.

## Drivers

- LS-PE-L10-1012 LED Driver, 12V requires 6 ft power feed with connector (LBLU(FX)-V-12V-1), powers up to 6 ft.  
LP-1060-12-GG-290 LED Driver, 60W, 12V, requires 6 ft power feed with connector (LBLU(FX)-V-12V-1), powers up to 25 ft (2 x 12.5 ft runs)

## Transformer

- MLTR-20MAG-12 20W, 12V plug in transformer, requires power feed with rectifier and connector (LBLU(FX)-V-12V-2), powers up to 10 ft.

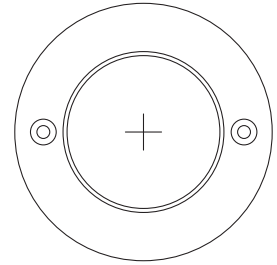
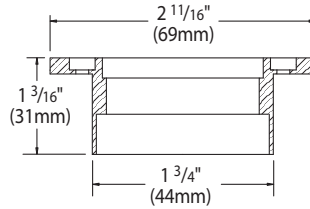


# LED FIXTURES

LED-2.7RDFL-8-XX



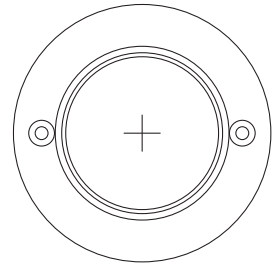
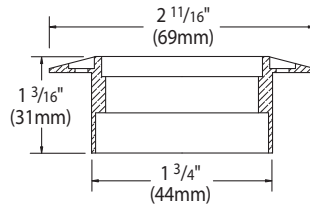
2 11/16" (69mm) diameter, round flat trim with 8 LEDs



LED-2.7RDBV-8-XX



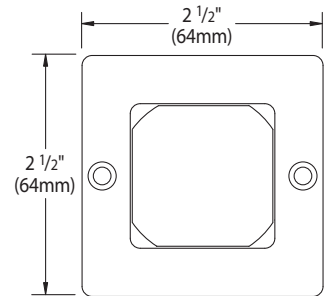
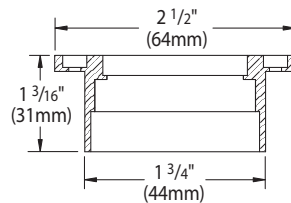
2 11/16" (69mm) diameter, round bevelled trim with 8 LEDs



LED-2.5SQFL-8-XX



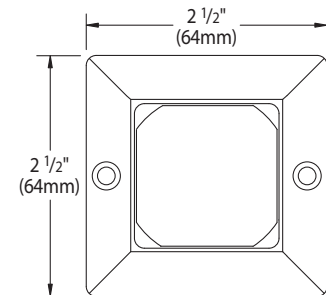
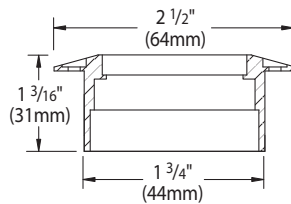
2 1/2" (64mm) square flat trim with 8 LEDs



LED-2.5SQBV-8-XX



2 1/2" (64mm) square bevelled trim with 8 LEDs

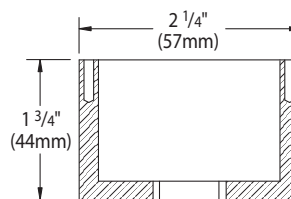


## SPECIFICATIONS

Machined aluminum construction  
 Clear anodized finish  
 Quantity of LEDs: 8  
 LED Colours available (XX):  
 White (WH), Red (RD), Yellow (YW),  
 Green (GR), Blue (BL)  
 Power Consumption: 0.7W

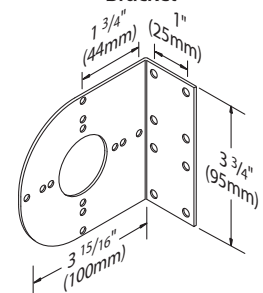
Total input current: 70mA  
 Input voltage: 10V nominal  
 Number of fixtures powered by  
 LS-PE-L10-1012, 10W driver: 12  
 Number of fixtures powered  
 by LP-1060-10-GG-290,  
 50W driver: 60

Base – required for  
 ground installation



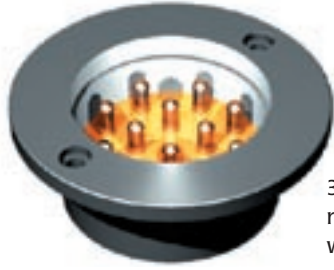
Threaded hole in bottom of base  
 for strain relief and power feed

Universal Mounting  
 Bracket

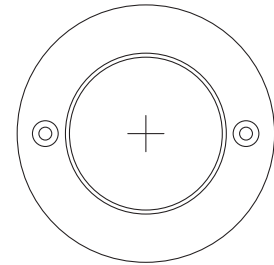
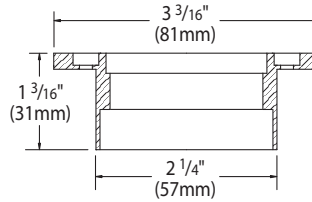


# LED FIXTURES

LED-3.2RDFL-12-XX



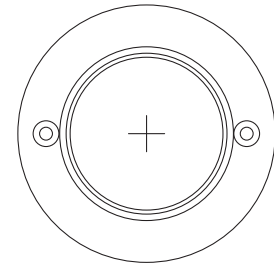
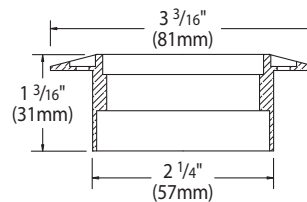
3 3/16" (81mm) diameter, round flat trim with 12 LEDs



LED-3.2RDBV-12-XX



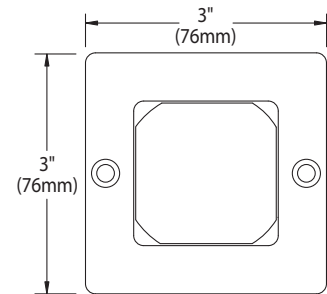
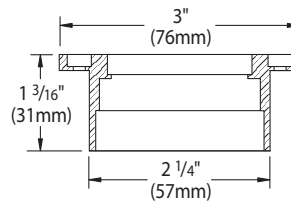
3 3/16" (81mm) diameter, round bevelled trim with 12 LEDs



LED-3SQFL-12-XX



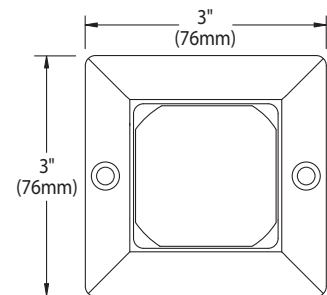
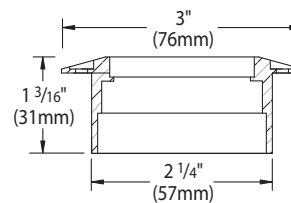
3" (76mm) square flat trim with 12 LEDs



LED-3SQBV-12-XX



3" (76mm) square bevelled trim with 12 LEDs

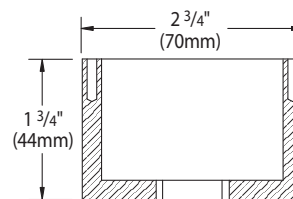


## SPECIFICATIONS

Quantity of LEDs: 12  
 LED Colours available (XX):  
 White (WH), Red (RD), Yellow (YW),  
 Green (GR), Blue (BL)  
 Power Consumption: 1.0W  
 Total input current: 100mA

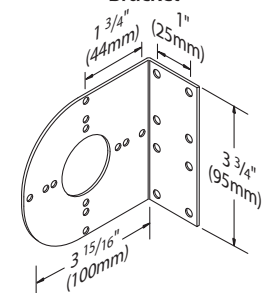
Input voltage: 10V nominal  
 Number of fixtures powered by  
 LS-PE-L10-1012, 10W driver: 8  
 Number of fixtures powered  
 by LP-1060-10-CG-290,  
 50W driver: 45

Base – required for  
 ground installation



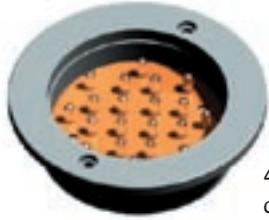
Threaded hole in bottom of base  
 for strain relief and power feed

Universal Mounting  
 Bracket

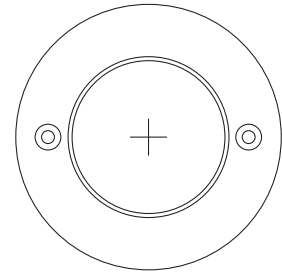
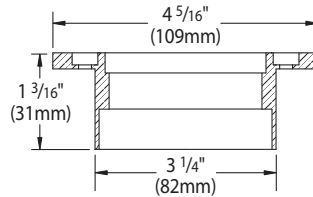


# LED FIXTURES

## LED-4.3RDFL-20-XX



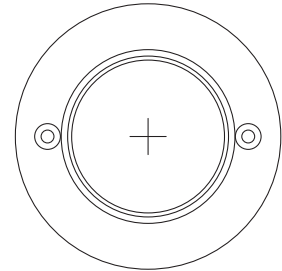
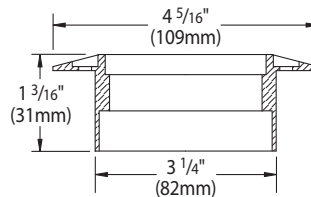
4 5/16" (109mm) diameter, round flat trim with 20 LEDs



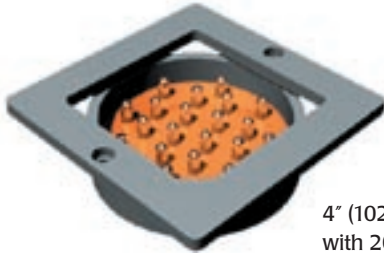
## LED-4.3RDBV-20-XX



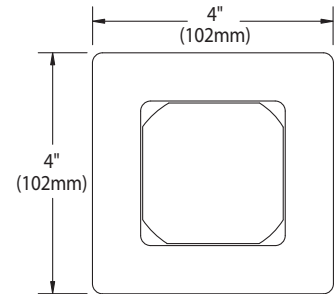
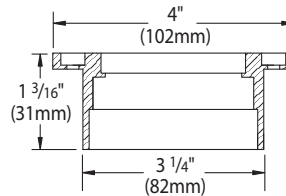
4 5/16" (109mm) diameter, round bevelled trim with 20 LEDs



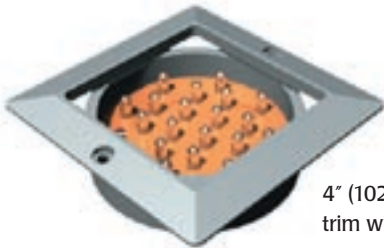
## LED-4SQFL-20-XX



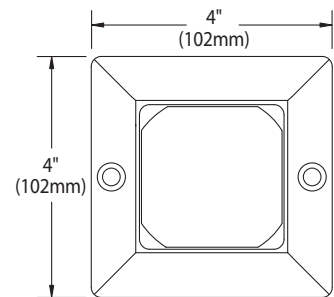
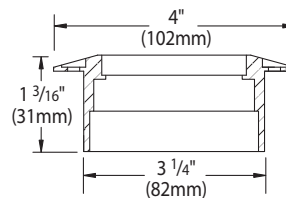
4" (102mm) square flat trim with 20 LEDs



## LED-4SQBV-20-XX



4" (102mm) square bevelled trim with 20 LEDs

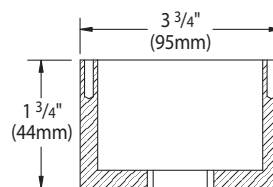


## SPECIFICATIONS

Quantity of LEDs: 20  
 LED Colours available (XX):  
 White (WH), Red (RD), Yellow (YW),  
 Green (GR), Blue (BL)  
 Power Consumption: 1.7W  
 Total input current: 170mA

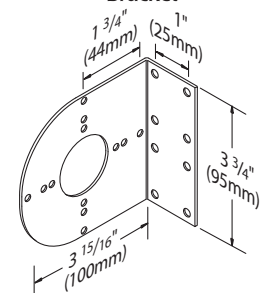
Input voltage: 10V nominal  
 Number of fixtures powered by  
 LS-PE-L10-1012, 10W driver: 5  
 Number of fixtures powered  
 by LP-1060-10-GG-290,  
 50W driver: 25

Base – required for  
 ground installation



Threaded hole in bottom of base  
 for strain relief and power feed

Universal Mounting  
 Bracket



# LED PANEL LIGHTS

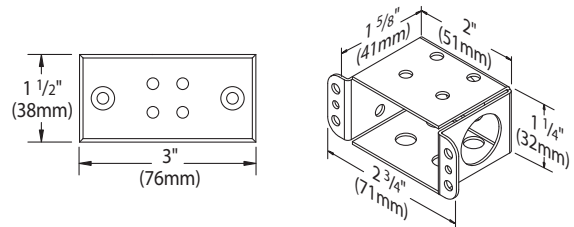
Magic Lite's LED PANEL LIGHTS are ideal for riser plates on stairs, hallways, wall lights architectural décor, ambient lighting and security lighting. Available in 3 sizes, LED PANEL LIGHTS provide excellent lighting for many applications.



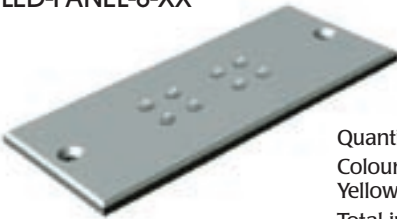
## LED-PANEL-4-XX



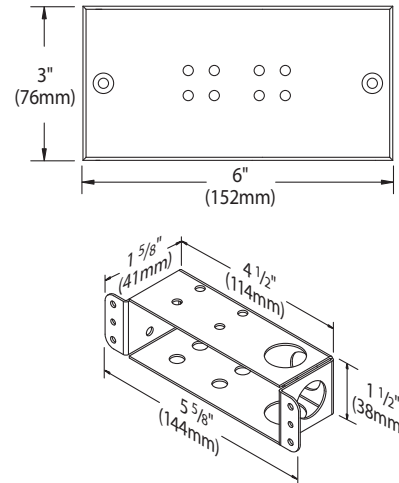
Quantity of LEDs: 4  
 Colours available: White (WH), Red (RD), Yellow (YW), Green (GR), Blue (BL)  
 Total input power: 0.35W  
 Total input current: 35mA  
 Input voltage: 10V nominal  
 Number of fixtures powered by LS-PE-L10-1012, 10W driver: 25  
 Number of fixtures powered by LP-1060-10-GG-290, 50W driver: 130



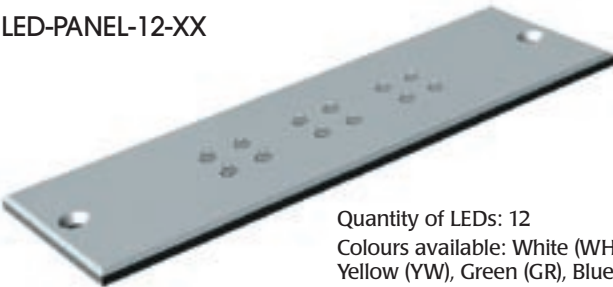
## LED-PANEL-8-XX



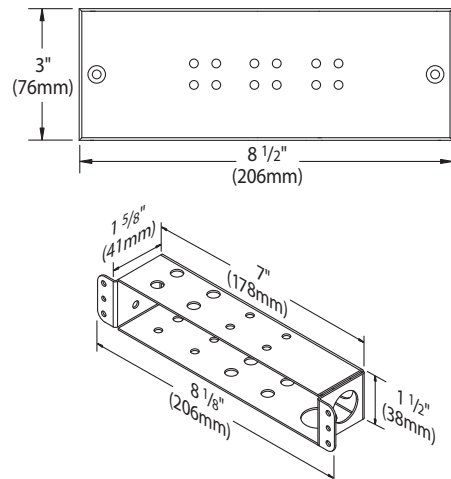
Quantity of LEDs: 8  
 Colours available: White (WH), Red (RD), Yellow (YW), Green (GR), Blue (BL)  
 Total input power: 0.7W  
 Total input current: 70mA  
 Input voltage: 10V nominal  
 Number of fixtures powered by LS-PE-L10-1012, 10W driver: 12  
 Number of fixtures powered by LP-1060-10-GG-290, 50W driver: 60



## LED-PANEL-12-XX



Quantity of LEDs: 12  
 Colours available: White (WH), Red (RD), Yellow (YW), Green (GR), Blue (BL)  
 Total input power: 1.0W  
 Total input current: 100mA  
 Input voltage: 10V nominal  
 Number of fixtures powered by LS-PE-L10-1012, 10W driver: 8  
 Number of fixtures powered by LP-1060-10-GG-290, 50W driver: 45



# LED PATH & GARDEN LIGHTS

Low voltage PATH LAMP and WATER COLOUR LAMP are advanced LED lighting systems that are based on RGB technology. Controlled and powered by our SRC-181 controller for a full range of colour changing effects. Due to the energy saving and long lasting features, the PATH LAMP and WATER COLOUR LAMP are ideal for applications such as stairs, walkways, parks, nightclubs and gardens.

## Specifications

Colour Range: RGB combined to give a colour variety of  $16.7 \times 10^6$   
 Light Source: High Brightness LED  
 Number of LEDs: LG-100 = 46, LG-102 = 23  
 Beam Angle:  $30^\circ$   
 Protection Rating: LG-100 = IP67, LG-102 = IP68  
 Connector: 4-pin cable output (with individual clip at each wire's end).

## Communication Specifications

Data Connector: DMX512  
 Controller: Stand-alone SRC-181 or with DMX512 together

## Electrical Specifications

Operating Voltage: 24V DC  
 Power Consumption: LG-100 = 2.88W, LG-102 = 1.44W

## Display Instructions

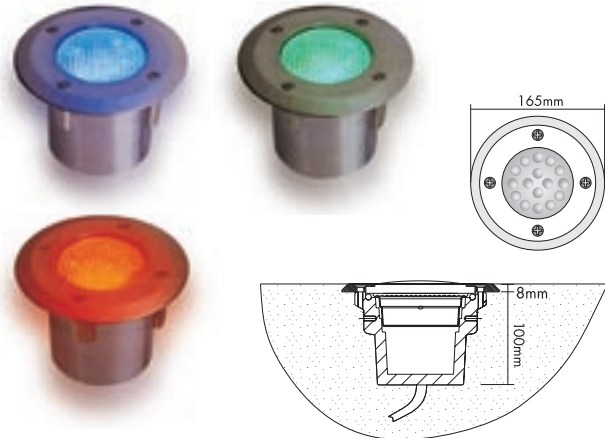
Static Colour Display: Monochromatic Static Display  
 Multi-colour Changing Display: Controlled by SRC-181 or DMX 512  
 Automatic Colour Changing: Press the "Mode" button to enter the "Automatic Mode".

## Life Span

LED Path Lamp use solid LED as illuminator. Under normal conditions and environments (operating temperature range:  $-20^\circ\text{C}$  to  $40^\circ\text{C}$ , humidity: 0 – 95%), LED will last for up to 100,000 hours.



LED PATH LAMP: LG-100-24V-M



LED WATER COLOUR LAMP: LG-102-24V-M

Can be submerged up to maximum of 1M



## MAXIMUM NUMBER OF FIXTURES

FIXTURE	LAMP SPACING 1.5M	LAMP SPACING 2.0M	LAMP SPACING 3.0M
LG-100	50	44	30
LG-102	70	64	40
LG-103	70	64	40
LG-104	60	50	30
LG-105	70	64	40

# LED GARDEN LAMP

Low voltage GARDEN LAMP is an advanced LED lighting system that is based on RGB technology. Controlled by our SRC-181 controller, the LED GARDEN LAMP is capable of providing a full range of colour changing effects. Energy Efficient and functional, the LED GARDEN LAMP is suitable for applications such as paths, walkways and gardens.



## Specifications

Colour Range: RGB combined to give a colour variety of  $16.7 \times 10^6$   
 Light Source: High Brightness LED  
 Number of LEDs: LG-103 = 22, LG-104 = 35, LG-105 = 22  
 Beam Angle:  $30^\circ$   
 Protection Rating: IP65  
 Housing: Aluminum base and acrylic lens  
 Connector: 4-pin output  
 (with individual clips at each wire's end)

## Communication Specifications

Data Connector: DMX512  
 Controller: Stand-alone SRC-181 or together with a DMX 512 controller

## Electrical Specifications

Voltage: 24V DC  
 Power Consumption: LG-103 = 1.44W, LG-104 = 2.4W,  
 LG-105 = 1.44W

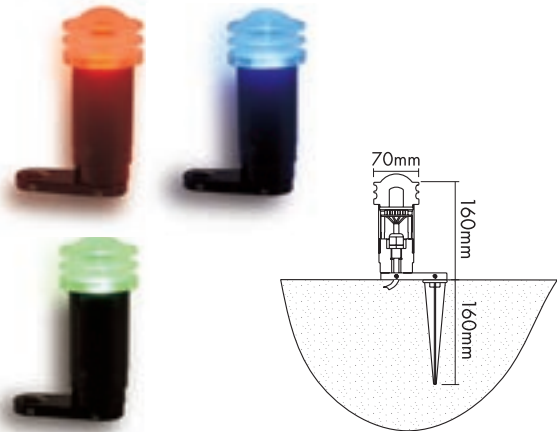
## Display Specifications

Static Colour Display: Monochromatic Static Display  
 Multi-colour Display: Controlled by SRC-181  
 Automatic Colour Changing: Press the "Mode" button to enter the "Automatic Mode"

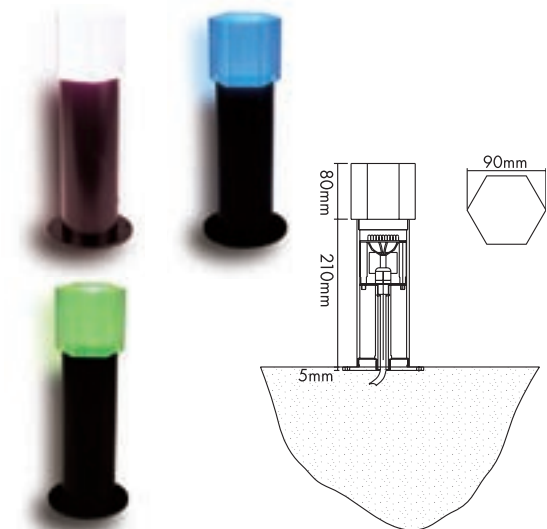
## Life Span

LED Garden Light uses solid LED as an illuminator. Under normal conditions and environments (operating temperature range:  $-20^\circ\text{C}$  to  $40^\circ\text{C}$ , humidity: 0 – 95%), LED will last for up to 100,000 hours.

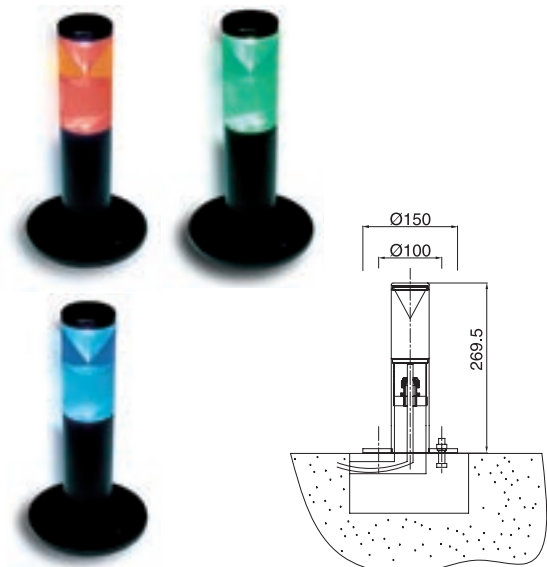
LG-103-24V-M



LG-104-24V-M



LG-105-24V-M



# LED CONTROLLERS

## SDL-109C 1 DMX VER6.0



The SDL-109C controller series is specially designed for controlling the LED Pipe Multi Colour, LED Tower and LED Panes. The SDL-109C controllers provide 20 different light effects for dazzling multi-colour changing displays. It is capable of working alone or together with a DMX 512 console.

The SRC-174-12V/24V is a 192 DMX channel controller allowing multiple scenes to be programmed. It is designed for use with the small (30 x 30) version of the LED Panes. The use of a joystick, provides easy and more accurate control of the movement of a fixture.

## SDL-109C-W VER6.0



The SRC-181-12V/24V waterproof controller is specially designed for controlling the LED MINI TUBE and the LED Path and Garden Light products. It provides the system with various colour changing effects: dynamic, static, flashing and fading. It also consists of flashing frequency adjusting, DMX address setting and power-off protection functions. A number of SRC-181 can be controlled through interface with a standard DMX512.

## SDL-109P



## SRC-174-12V/24V



## SRC-181-12V/24V



### CONTROLLER SPECIFICATIONS

ITEM NO.	SIZE	WEIGHT	DATA INTERFACE	INPUT VOLTAGE	OUTPUT VOLTAGE	SIGNAL CONNECTOR	DMX 512 CONNECTOR	PROTECTION RATING	HOUSING	PARALLELED SIGNAL CHANNEL OUTPUTS
SDL-109C1 DMX VER6.0	210 X 125.2 X 44.2mm	1.14kg	proprietary Neo-Neon data protocol/DMX-512	9V-12V DC/500mA	-	4-Pin female connector	3-Pin connector	IP20	Aluminum	1
SDL-109C-W VER6.0	143 X 103 X 72.5mm	0.35kg	proprietary Neo-Neon data protocol/DMX-512	9V-12V DC/500mA	-	4-Pin female connector	3-Pin connector	IP65	ABS UL94-V1	4
SCR-174-12V/24V	482 x 134 x 85mm	2.7kg	proprietary Neo-Neon data protocol/DMX-512	9V-12V DC/500mA	-	3-Pin male/female XRL	3 pin female/male SLR socket x1	-	Metal	1
SRC-181-12V/24V	235 x 145 x 112.5mm	2.5kg	proprietary Neo-Neon data protocol/DMX-512	24V DC/ 12V DC	24V DC/ 12V DC	4-Pin female connector	3-Pin connector	IP65	ABS UL94-V0	2

# LED SIGNAL AMPLIFIER

## SDL-109A-T1



The SDL-109A-T1 is a signal amplifier designed to amplify the control signal generated from a controller (SDL109C series) and sent to the various LED fixtures. This allows larger numbers of LED products to be linked in series without compromising the lighting effects. Caution: Avoid impact to unit. Do not submerge in water. Avoid temperatures above 45°C.

### SIGNAL AMPLIFIER SPECIFICATIONS

ITEM NO.	SIZE	WEIGHT	INPUT VOLTAGE	SIGNAL INPUT CONNECTOR	SIGNAL OUTPUT CONNECTOR	PROTECTION RATING	HOUSING
SDL-109A-T1	144 X 104 X 65mm	1.25kg including the transformer	240V AC 50Hz 120V AC 60Hz	5-Pin male connector	5-Pin female connector †	IP65	ABS UL94-V1

† Converting connector to connect to 3-pin or 4-pin connector

# LED DRIVERS

## LP-1060-10-GG-290



## LS-PE-L10-1012



### DRIVER SPECIFICATIONS

ITEM NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	MAXIMUM DISTANCE FROM FIXTURES
LP-1060-10-GG-290	90 – 264V AC	10V DC	5 AMP, 50 watts	50'
LP-1060-12-GG-290	90 – 264V AC	12V DC	5 AMP, 50 watts	50'
LS-PE-L10-1012	120 – 240V AC	10V DC	1 AMP, 10 watts	50'
		12V DC	1 AMP, 12 watts	

Please call **MAGIC LITE LTD.** for complete specification details.

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