

# LED Neon Light - 3D NEON SINGLE COLOR

This LED 3D Neon Light is durable and flexible with 120mm minimum bending diameter. It has three-dimensional emitting output providing uniform and even light without any hotspots. It is good for damp location. Using 24VDC power input, the power connection and installation of this 3D neon light is as same as regular LED strip light.

## Features

- Top bend, 3 dimensional light emitting and looks beautiful from every angle.
- Dimmable with PWM, Forward phase, Triac, 0-10V, MLV, ELV.
- Soft bend flexibility, strong impact resistant and high weather resistance.
- Uniform, dot-free, smooth and comfortable luminary up to 16<sup>13</sup>/<sub>32</sub>ft run length.
- 50,000h long lifespan with 5 years limited warranty.
- UL listed.



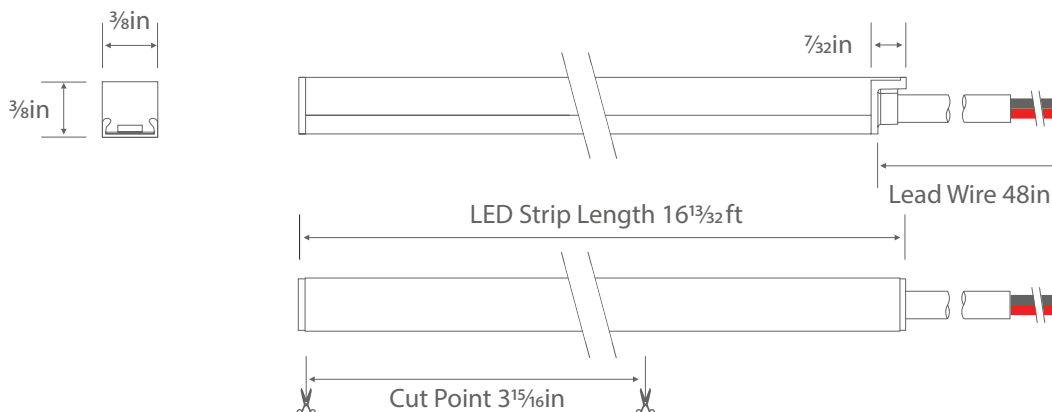
## Specification

<b>Input Voltage</b>	24VDC
<b>Dimmable</b>	PWM, Forward phase, Triac, 0-10V, MLV, ELV
<b>Lead Wire</b>	20 AWG, 2ft (2 wires)
<b>Color</b>	3000K, 6500K, Red, Blue
<b>Power Consumption/ft</b>	4.4W

<b>Dimensions</b>	3/8 x 3/8 in
<b>Maximum Run Length</b>	16 <sup>13</sup> / <sub>32</sub> ft
<b>LED Chip</b>	2216
<b>Operating Temperature</b>	-20°F~60°F
<b>Lumen Maintenance</b>	50,000 hrs

## Models

Model No.	Color	Brightness/ft	Power/ft	CRI	IP Rating	Length
GL-3DN-2216-240-3000K-24V-IP65	3000K	414lm	4.4W	90+	IP65 (Wet location)	16 <sup>13</sup> / <sub>32</sub> ft
GL-3DN-2216-240-3000K-24V-IP65	6500K	427lm	4.4W	90+	IP65 (Wet location)	16 <sup>13</sup> / <sub>32</sub> ft
GL-3DN-2216-240-R-24V-IP65	RED	54.7lm	4.4W	N/A	IP65 (Wet location)	16 <sup>13</sup> / <sub>32</sub> ft
GL-3DN-2216-240-B-24V-IP65	BLUE	103.4lm	4.4W	N/A	IP65 (Wet location)	16 <sup>13</sup> / <sub>32</sub> ft



## Voltage Drop Guidance Chart

This table provides general guidelines for determining Wire Gauge based on total load and distance from LED transformer to beginning of luminaire.

### 24V Voltage Drop & Wire Length Distance Chart (3% Drop or 23.28V)

Wire Gauge (AWG)	10W 0.42A	20W 0.83A	30W 1.3A	40W 1.7A	50W 2.1A	60W 2.5A	70W 2.9A	80W 3.3A	90W 3.75A	100W 4.2A
20	85ft	43ft	27ft	21ft	17ft	14ft	12ft	11ft	9ft	8ft
18	134ft	68ft	45ft	33ft	27ft	22ft	19ft	17ft	15ft	14ft
16	215ft	109ft	72ft	54ft	43ft	36ft	31ft	27ft	24ft	22ft

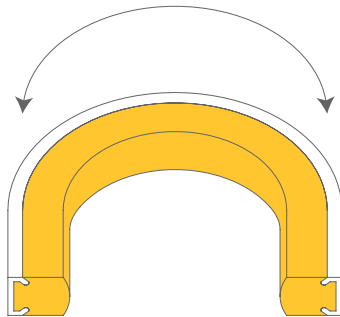
**Step 1:** Calculate Total Load: Check the power consumption of the LED light (e.g. 3W/ft). Calculate the total load of the LED light based on the light length (e.g. 10ft). The total load is 3W/ft x 10ft = 30W.

**Step 2:** Find Distance from Transformer to the Light Beginning: Check the distance between the transformer to the beginning of the light onsite. Let's assume it is 40ft. Round up to the nearest one on the table (Column 30W), which is 45ft.

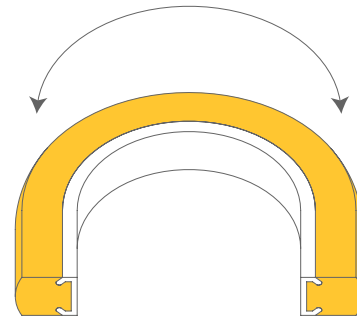
**Step 3:** Choose Suitable Wire Gauge: According to the table (Column 30W & Row 45ft), it's recommended to use 18AWG or up wire between the transformer and LED light to eliminate voltage drop.

Note: This table is calculated based on the theoretical voltage drop formula. The wire quality, the LED light technology and environment conditions affect the result also. This table is only for reference.

## Bending Options

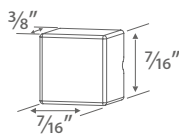


Top Bend

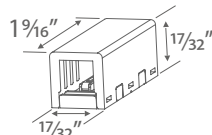


## Accessories (Sold Separately)

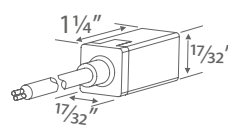
### Connecting Accessories



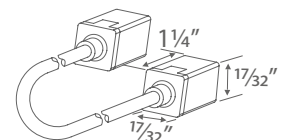
End Cap  
GL-3DN-EC-W



Splice Connector  
GL-3DN-EX-S



Power Lead  
GL-3DN-PC-S



Jumper Connector  
GL-3DN-JP-S



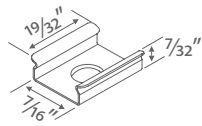
End Cap

Jumper Connector

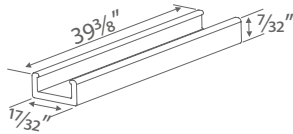
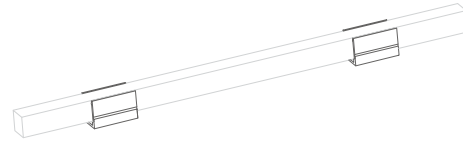
Splice Connector

Power Lead

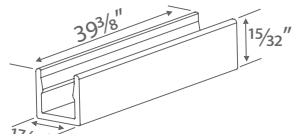
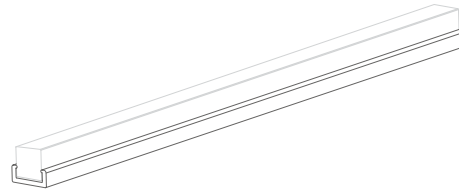
## Mounting Accessories



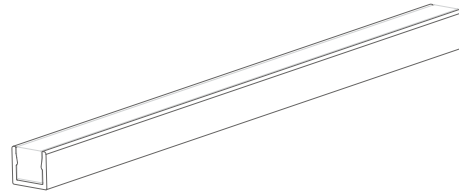
Mounting Clip  
**GL-3DN-MCL**



Mounting Channel  
**GL-3DN-SMCH**



Deep Mounting Channel  
**GL-3DN-DMCH**



## Recommended Transformer (Sold Separately)

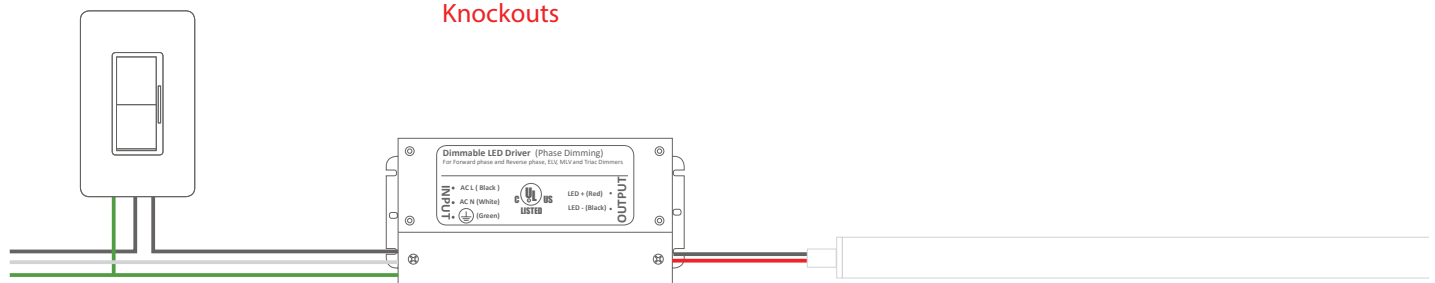
### LED Dimmable Transformer - Triac

#### F Series



Knockouts

Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
F-30W-24V	24V	30W	6.49x3.72x1.02in	FCC, UL, Class 2
F-60W-24V	24V	60W	7.40x3.72x1.02in	FCC, UL, Class 2
F-96W-24V	24V	96W	8.66x3.72x1.57in	FCC, UL, Class 2
F-150W-24V	24V	150W	10.24x4.13x1.77in	FCC, UL
F-200W-24V	24V	200W	10.24x4.13x1.77in	FCC, UL
F-300W-24V	24V	300W	10.94x4.33x1.77in	FCC, UL



F Series Wiring Diagram

\*This diagram is for references only. Please see LED Dimmable Transformer F Series Specification for a more accurate diagram.

P Series (Junction Box Sold Separately)

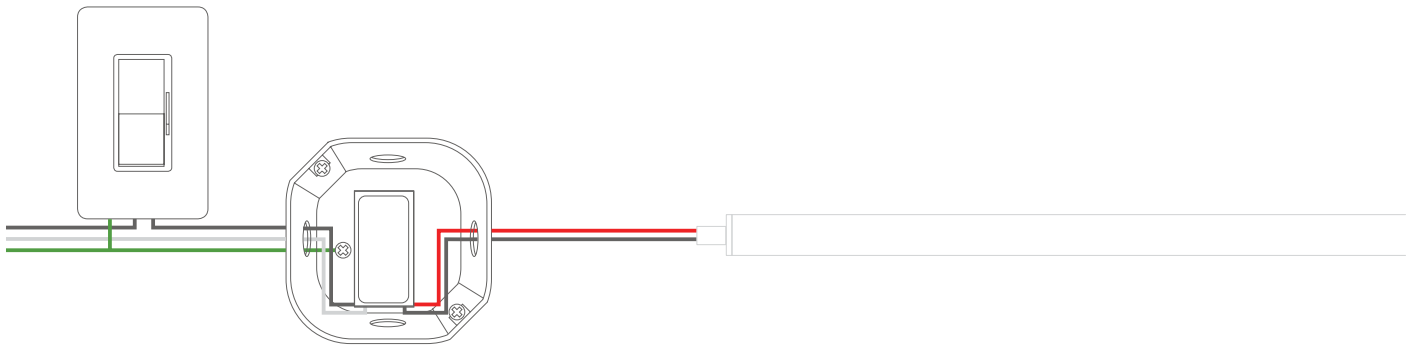


Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
P-25W-24V	24V	30W	6.10x2.10x0.80in	FCC, ETL, Class 2
P-50W-24V	24V	60W	13.80x3.00x1.00in	FCC, ETL, Class 2
P-96W-24V	24V	96W	15.00x3.00x2.20in	FCC, ETL, Class 2
P-150W-24V	24V	150W	10.00x3.10x1.90in	FCC, ETL
P-200W-24V	24V	200W	10.00x3.10x1.90in	FCC, ETL

LED Mini Dimmable Transformer - ELV



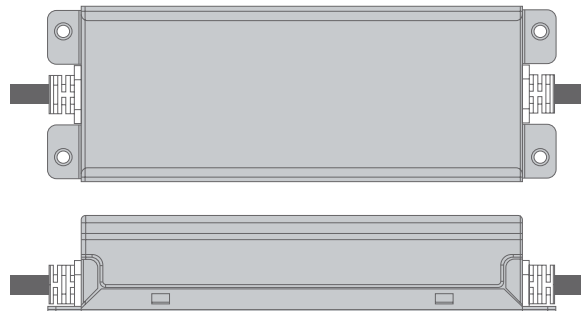
Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
MINI- TA-60-24V	24V	60W	2.70x1.29x0.84in	RU, Class 2



Mini Transformer Wiring Diagram (In Junction Box)

\*This diagram is for references only. Please see LED Mini Dimmable Transformer Specification for a more accurate diagram.

LED Non-Dimmable Transformer



Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
APV-8W-24V	24V	8W	2.30x1.20x0.90in	CE, RU, Class 2
APV-35W-24V	24V	35W	3.30x2.20x1.20in	CE, RU, Class 2
XLG-150W-24V	24V	150W	5.51x2.48x1.26in	CE, RU
XLG-200W-24V	24V	200W	7.09x2.48x1.40in	CE, RU