# Plane Bend LED Neon Light

**HiLite LEDs**

Mimicking traditional neon light, this new generation of linear LED neon Lights features for its dot-free neon-like glow, very flexible and length could be customized. It is a perfect choice for building border lighting.

UL® | DIMMABLE | 50,000 HOURS | 5 YEAR WARRANTY | IP67 WATERPOOF 1M/3.3FT

| PRODUCT CODE | CCT | LUMENS/FT |
|---|---|---|
| HL-24V-NS24-30 | 3000K | 192 |
| HL-24V-NS24-60 | 6000K | 173 |
| HL-24V-NS24-R | Red | 60 |
| HL-24V-NS24-O | Orange | 73 |
| HL-24V-NS24-Y | Yellow | 180 |
| HL-24V-NS24-B | Blue | 8 |
| HL-24V-NS24-G | Green | 54 |

## PHYSICAL

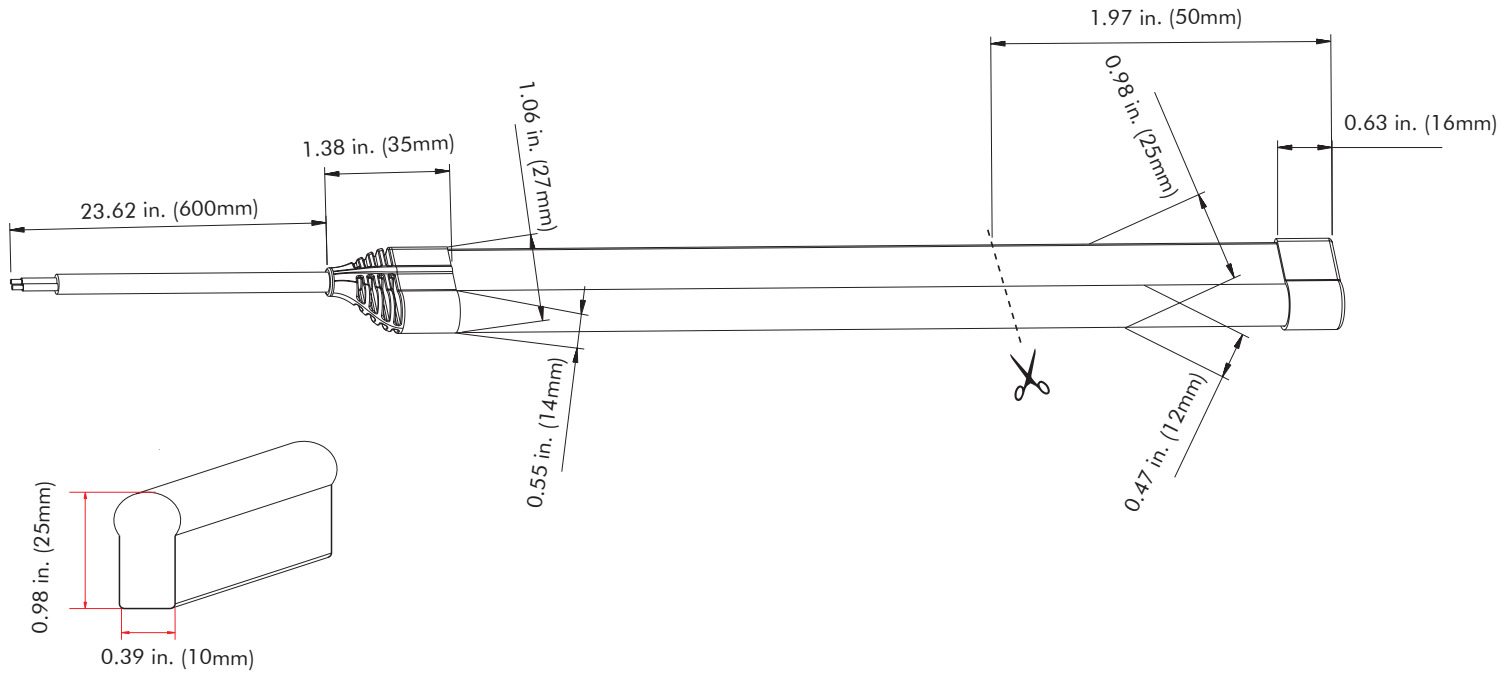| | |
|---|---|
| Operating Temp | -15°F to +140°F (-26°C to +60°C) |
| Class II Max Run | 27.8 ft. |
| Ra | 80+ |
| Cut Length | 1.97 in (50 mm) |
| Environment | IP67 |
| Mounting | Mounting Bracket |
| Package Length | 98.4 ft. (30m) |
| Width | 0.39 in (10mm) |
| Height | 0.98in (25mm) |

## ELECTRICAL

| | |
|---|---|
| Input Voltage | 24V DC |
| Power Consumption | <2.93 w/ft |
| Max. Run Length | 98.4 ft. |
| Lamp Life | 50,000+ hours |
| Wire Size | 2464 20 AWG, 2 wire |
| Dimming | MLV / ELV / 0-10V |
| Certifications | UL Listed |
| Warranty | 5 years |

1. Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.

2. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.

3. Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.

4. Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.

5. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
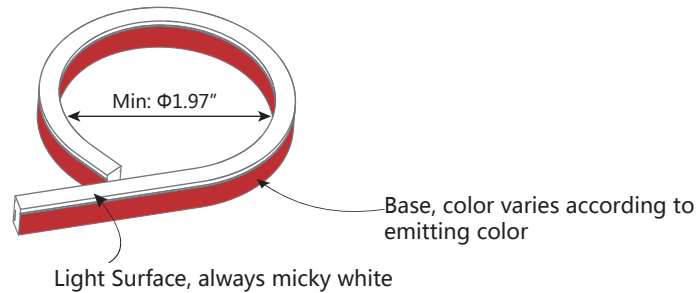
# Plane Bend LED Neon Light

HiLite LEDs

MECHANICAL DIAGRAMS



1.97 in. (50mm)

0.98 in. (25mm)

0.63 in. (16mm)

1.06 in. (27mm)

1.38 in. (35mm)

23.62 in. (600mm)

0.55 in. (14mm)

0.47 in. (12mm)

0.98 in. (25mm)

0.39 in. (10mm)

## Minimum Bending Radius



Min: Φ1.97"

Base, color varies according to emitting color

Light Surface, always micky white

## Choose Your Wire

| PRODUCT IMAGE | SKU | LENGTH AVAILABLE |
|---|---|---|
|  | 20 AWG 2 Cores Cable Wire HL-W20-2 | Custom ordered |

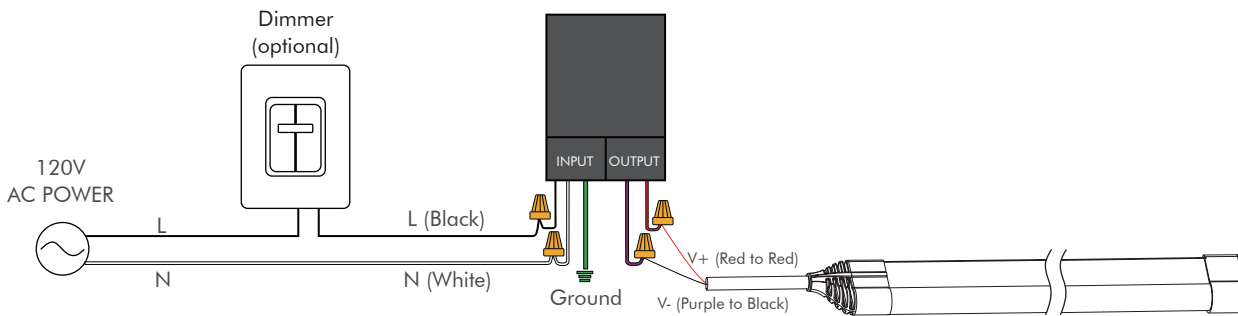**HiLite LEDs**

## Power Supply Options

The following Listed LED Power Supplies are recommended for compatibility. They are provided for <u>reference only</u>. For complete specifications of compatible products, please check on www.hiliteleds.com or ask your account manager.

### ELECTRONIC MLV DIMMABLE POWER SUPPLY

Dims from 100-1%. Compatible with MLV / Incandescent TRIAC dimmer switch.

| PRODUCT IMAGE | SKU | WATTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT VOLTAGE | DIMENSION | CERTIFICATIONS |
|---|---|---|---|---|---|---|---|
| | HL-PS-D20V24 | 20W | 24V DC | 0.87A | | | |
| | HL-PS-D40V24 | 40W | 24V DC | 1.75A | | | UL 8750 |
| | HL-PS-D60V24 | 60W | 24V DC | 2.63A | 120V AC | 6.77 x 2.67 x 1.30 in. | Class 2 |
| | HL-PS-D75V24 | 75W | 24V DC | 3.30A | | | Nema 3R |
| | HL-PS-D96V24 | 96W | 24V DC | 4.00A | | | |

WIRING DIAGRAM



### 0-10V DIMMABLE POWER SUPPLY

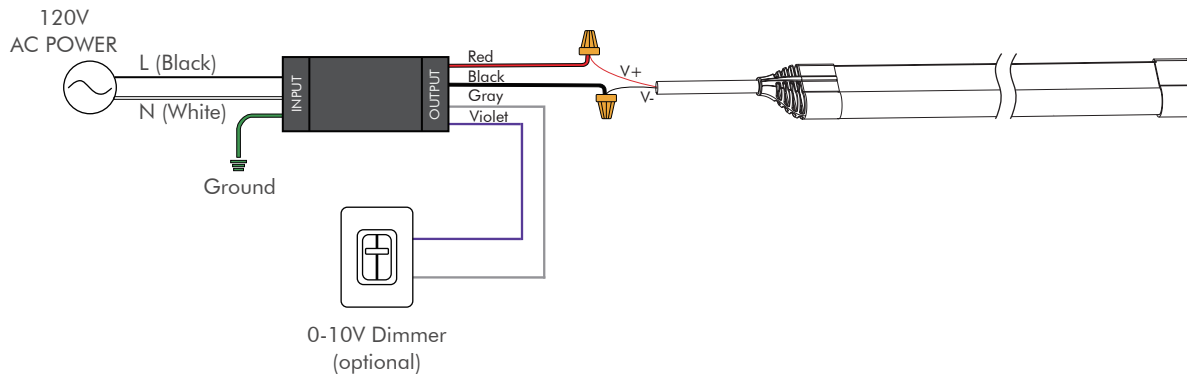Flicker-Free Dimming down to 1% (0-10V). Integrated Junction Box with Multiple $^7/_8$" Knock-Outs.

| PRODUCT IMAGE | SKU | WATTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT VOLTAGE | DIMENSION | CERTIFICATIONS |
|---|---|---|---|---|---|---|---|
| | HL-PS-030V24 | 30W | 24V DC | 1.30A max | | | UL 8750 |
| | HL-PS-060V24 | 60W | 24V DC | 2.60A max | 120V - 277V AC | 11.4 x 2.36 x 1.4 in. | Class 2 |
| | HL-PS-096V24 | 96W | 24V DC | 4.10A max | | | Class P |

# Plane Bend LED Neon Light

**HiLite LEDs**

WIRING DIAGRAM



## ON/OFF POWER SUPPLY (can be paired with a PWM single color dimmer)

24V DC Contant Voltage power supply, compatible with HL-M1+M3.

| PRODUCT IMAGE | SKU | WATTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT VOLTAGE | DIMENSION | CERTIFICATIONS |
|---|---|---|---|---|---|---|---|
| | HL-PS-L35V24 | 35W | 24V DC | 1.50A | 90V - 264VAC | 5.83 x 1.57 x 1.18 in. | UL Class 2 |
| | HL-PS-L60V24 | 60W | 24V DC | 2.50A | | 6.40 x 1.67 x 1.26 in. | |
| | HL-PS-L96V24 | 96W | 24V DC | 4.10A | 120V - 277VAC | 11.40 x 2.36 x 1.4 in. | UL 8750/ Class 2/ Class P |

## ON/OFF POWER SUPPLY (can be paired with a PWM dimmable controller)

| PRODUCT IMAGE | SKU | WATTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT VOLTAGE | DIMENSION | CERTIFICATIONS |
|---|---|---|---|---|---|---|---|
| | HL-PS-A24V24 | 24W | 24V DC | 1.00A | | 3.19 x 1.93 x 2.32 in. | ETL Class 2 |
| | HL-PS-A36V24 | 36W | 24V DC | 1.50A | 100V - 240VAC | 3.98 x 2.01 x 2.13 in. | |
| | HL-PS-A60V24 | 60W | 24V DC | 2.50A | | 4.61 x 2.05 x 1.38 in. | |

## Mounting Options

| PRODUCT IMAGE | SKU | DESCRIPTION |
|---|---|---|
| | HL-NS24-AMC | 1.37 inch. long, with self-locking clip |
| | HL-NS24-AMT | 4 ft. long, with 3pcs self-locking clips |

SAFETY / WARNINGS / DISCLOSURES

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only install with a listed Class 2 DC Constant Voltage LED Driver.
4. Tape light, and attached wire leads, are not rated for inwall installation unless otherwise noted.
5. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
6. Do not modify or disassemble product beyond instructions or the warranty will be void.
7. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
8. Do not install indoor LED tape light products in outdoor/ wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
9. Uncoil flexible light prior operation, failure to do so may cause excessive heat which will damage the product.
10. We reserve the right to modify and improve the design of our fixtures without prior notice. We can not guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.