### NEON BLAZE™ 24V LED Strip Light

**SIDE BENDING STRIP LIGHT SPECIFICATION SHEET**

![Image](https://via.placeholder.com/150)

**Product Information**
- **Item #**
- **Project**

**Specifications**
- **UL Listed 2108**
- **IP65 Certified**
- **Certified ROHS Compliant**
- **24VDC**
- **UV Resistant**
- **Dry/Wet Location**
- **Dimmable**

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<table>
<thead>
<tr>
<th>SE-NBL1</th>
<th>SE-NBL2</th>
<th>SE-NBL4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage/Wattage</strong></td>
<td>24V / 1.22W/ft.</td>
<td>24V / 2.44W/ft.</td>
</tr>
<tr>
<td><strong>Lumens</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2700K</td>
<td>62 Lm/ft.</td>
<td>134 Lm/ft.</td>
</tr>
<tr>
<td>3000K</td>
<td>65 Lm/ft.</td>
<td>146 Lm/ft.</td>
</tr>
<tr>
<td>3500K</td>
<td>60 Lm/ft.</td>
<td>120 Lm/ft.</td>
</tr>
<tr>
<td>6300K</td>
<td>59 Lm/ft.</td>
<td>116 Lm/ft.</td>
</tr>
<tr>
<td><strong>Green</strong></td>
<td>30 Lm/ft.</td>
<td>48 Lm/ft.</td>
</tr>
<tr>
<td><strong>Blue</strong></td>
<td>6 Lm/ft.</td>
<td>12 Lm/ft.</td>
</tr>
<tr>
<td><strong>Pink</strong></td>
<td>17 Lm/ft.</td>
<td>37 Lm/ft.</td>
</tr>
<tr>
<td><strong>Red</strong></td>
<td>11 Lm/ft.</td>
<td>21 Lm/ft.</td>
</tr>
<tr>
<td><strong>Gold</strong></td>
<td>31 Lm/ft.</td>
<td>61 Lm/ft.</td>
</tr>
<tr>
<td><strong>Max. Run</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>65 feet</td>
<td>32 feet</td>
</tr>
<tr>
<td><strong>Cut Points</strong></td>
<td>2 inch</td>
<td>2 inch</td>
</tr>
<tr>
<td><strong>CRI</strong></td>
<td>80+</td>
<td></td>
</tr>
<tr>
<td><strong>Diffusion</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimmable</strong></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Field Cuttable</strong></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>0.75 x 0.37 in. (H x W) (Strip Only)</td>
<td></td>
</tr>
<tr>
<td><strong>Environment</strong>&lt;sup&gt;*&lt;/sup&gt;</td>
<td>Outdoor / Wet Location / IP65</td>
<td></td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>UL Listed 2108</td>
<td></td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5-Year Warranty</td>
<td></td>
</tr>
<tr>
<td><strong>Direction</strong></td>
<td>Side bending</td>
<td></td>
</tr>
</tbody>
</table>

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<sup>*</sup>**WARNING: NOT FOR USE IN SUBMERSIBLE APPLICATIONS**

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Toll Free: 877.817.6028 | Fax: 415.592.1596 | [www.DiodeLED.com](http://www.DiodeLED.com) | info@DiodeLED.com

SPEC SHEET | NEON BLAZE™ 24V LED STRIP LIGHT | SS020320-10.0 | 1 OF 10
SKU BUILDER

DI - 24V - SE - Model - Color - Length - Driver* - Mounting*

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COLOR</th>
<th>LENGTH</th>
<th>DRIVER*</th>
<th>MOUNTING*</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBL1</td>
<td>27 63 PK</td>
<td>16 (Spool/NBL4 only)</td>
<td>CONSTANT VOLTAGE (CV)</td>
<td>SIDE BENDING BOTTOM CLIP (SBC)</td>
</tr>
<tr>
<td>NBL2</td>
<td>35 30 BL</td>
<td>32 (Spool/NBL2 only)</td>
<td>ELECTRONIC (ELEC)</td>
<td>SIDE BENDING TOP CLIP (STC)</td>
</tr>
<tr>
<td>NBL4</td>
<td>30 35 GN</td>
<td>65 (Spool/NBL1 only)</td>
<td>MAGNETIC (MAG)</td>
<td>ALUMINUM CHANNEL (CHN)</td>
</tr>
<tr>
<td></td>
<td>30 30 BL</td>
<td></td>
<td>TRIAC (TRI)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>27 30 BL</td>
<td></td>
<td>0-10V (010)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>27 30 BL</td>
<td></td>
<td>SWITCHEX (SWX)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>27 30 BL</td>
<td></td>
<td>LUTRON (LUT)</td>
<td></td>
</tr>
</tbody>
</table>

Example: DI-24V-SE-NBL2-35-16-CV-TBC = Diode LED, 24V NEON BLAZE™ 2.44 w/ft. 3500 CCT, 16.4' long, 96” Lead Wire, and with a Constant Voltage Driver, and Top Bending Bottom Clips.

NOTE: All Fully Loaded Channels include 96” lead wires.

MECHANICAL DIAGRAMS

NEON BLAZE™ 24V LED Strip Light
Side bending

SPEC SHEET | NEON BLAZE™ 24V LED STRIP LIGHT | SS020320-10.0 | 2 OF 10
NEON BLAZE™ Side bending Accessories

**Accessories listed below are fully compatible with our BLAZE NEON™ 24V LED Strip Light product line. Further information on these products and more accessories can be found in our latest catalog or online at www.DiodeLED.com.**

**NEON BLAZE™ Side bending**
Straight wire entry connector
**DI-SE-NB-STWC-EC**
(16 AWG)
**NEON BLAZE™ Opaque and frosted** Side bending Straight wire entry connector covers included.

**NEON BLAZE™ Side bending**
**DI-SE-NB-SDWC-EC**
(16 AWG)
**NEON BLAZE™ Opaque and frosted** Side bending Side wire entry connector covers included.

**NEON BLAZE™ Side bending**
**DI-SE-NB-BWC-EC**
(16 AWG)
**NEON BLAZE™ Opaque and frosted** Top bending Bottom wire entry connector covers included.

**NEON BLAZE™ 96” Male Connector**
**DI-NB-96M-CNCT**
(16 AWG)
**NEON BLAZE™ Side bending**
End Cap
*(Included with all Connectors)*
**DI-SE-NB-EC-5**
**SIDE BENDING ACCESSORIES**

**NEON BLAZE™ Side bending**
Strip to Strip Frosted Connector
DI-SE-NB-TTT-2

**NEON BLAZE™ Side bending**
Jumper with Frosted Top Cap and End Cap
DI-SE-NB-3JPR  
DI-SE-NB-6JPR  
DI-SE-NB-12JPR  
DI-SE-NB-24JPR  
(16 AWG)

**NEON BLAZE™ Side bending**
Bottom U-Clip
DI-SE-NB-BUC-16

**NEON BLAZE™ Side bending**
Top U-Clip
DI-SE-NB-TUC-16

**NEON BLAZE™ Side bending**
Jumper length: 3", 6", 12", & 24"

**NEON BLAZE™ Side bending**
Flexible Channel
Material: Painted Steel
DI-SE-NB-FLCH-WH

**NEON BLAZE™ Side bending**
Straight wire entry with Frosted DC Barrel Plug
DI-SE-NB-SDWC-EC-FDC  
(16 AWG)

**NEON BLAZE™ Side bending**
Jumper length: 3", 6", 12", & 24"

**NEON BLAZE™ Side bending**
Material: Anodized Aluminum
DI-SE-NB-MTCH

**NEON BLAZE™ Side bending**
Flexible Channel
Material: Painted Steel
DI-SE-NB-FLCH-WH
SIDE BENDING ACCESSORIES

NEON BLAZE™ Side bending
Straight wire entry Frosted Top Cap and End Cap
DI-SE-NB-ST-FR-EC

NEON BLAZE™ Side bending
Side wire entry Frosted Top Cap and End Cap
DI-SE-NB-SD-FR-EC

NEON BLAZE™ Side bending
Bottom wire entry Frosted Top Cap and End Cap
DI-SE-NB-B-FR-EC
LED DRIVERS (Required)
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED’s product page at: https://www.diodeled.com/products/led-power-supplies.html

STAND ALONE

SWITCHEX® DRIVER + DIMMER SWITCH
SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-24V-SE-60W</td>
<td>1.40 in.</td>
<td>2.10 in.</td>
<td>4.10 in.</td>
</tr>
<tr>
<td>DI-24V-SE-100W</td>
<td>1.40 in.</td>
<td>2.10 in.</td>
<td>4.10 in.</td>
</tr>
</tbody>
</table>

Fits in Standard Switch Box

ON/OFF, DMX, & PWM CONTROL

LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER
Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-0970-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V60W-277-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V90W-277-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-0954-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>
LED DRIVERS Cont. (Required)

ON/OFF, DMX, & PWM CONTROL (cont.)

VLM SERIES CONSTANT VOLTAGE DRIVER
Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

<table>
<thead>
<tr>
<th>SKU</th>
<th>Wattage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLM60W-24</td>
<td>60W</td>
<td>24V</td>
</tr>
<tr>
<td>VLM100W-24</td>
<td>100W</td>
<td>24V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLM60W-24</td>
<td>5.1 in.</td>
<td>.75 in.</td>
<td>.77 in.</td>
</tr>
<tr>
<td>VLM100W-24</td>
<td>5.38 in.</td>
<td>1 in.</td>
<td>.77 in.</td>
</tr>
</tbody>
</table>

OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

Voltage & Power Output

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-OD2-24V24W</td>
<td>13.75 in.</td>
<td>3.00 in.</td>
<td>1.60 in.</td>
</tr>
<tr>
<td>DI-OD2-24V60W</td>
<td>13.75 in.</td>
<td>3.00 in.</td>
<td>1.60 in.</td>
</tr>
<tr>
<td>DI-OD2-24V96W</td>
<td>15.00 in.</td>
<td>3.10 in.</td>
<td>2.40 in.</td>
</tr>
<tr>
<td>DI-OD2-24V120W</td>
<td>15.00 in.</td>
<td>3.10 in.</td>
<td>2.40 in.</td>
</tr>
<tr>
<td>DI-OD2-24V200W</td>
<td>16.10 in.</td>
<td>3.40 in.</td>
<td>2.40 in.</td>
</tr>
</tbody>
</table>
# LED DRIVERS (Required)

## LUTRON OPTIONS

### Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.

<table>
<thead>
<tr>
<th>Voltage &amp; Power Output</th>
<th>3-Wire or 2-Wire Dimmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM - 24V40W</td>
<td>L3D</td>
</tr>
</tbody>
</table>

**SKU**

- DI-DM-24V40W-L3D: 4.89 in. x 4.00 in. x 2.62 in.
- DI-DM-24V40W-LTE

### Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.

<table>
<thead>
<tr>
<th>Voltage &amp; Power Output</th>
<th>3-Wire or 2-Wire Dimmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM - 24V96W</td>
<td>L3D</td>
</tr>
</tbody>
</table>

**SKU**

- DI-DM-24V96W-L3D: 5.50 in. x 2.20 in. x 10.50 in.

### 0-10V

**LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER**

Compatible with 0-10V controls and dimming systems.

<table>
<thead>
<tr>
<th>Junction Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM - MW24V60W - 0-10V - LPS</td>
</tr>
</tbody>
</table>

**SKU**

- DI-DM-MW-24V60W-0-10V-LPS: 11.25 in. x 3.75 in. x 1.90 in.
- DI-DM-MW-24V90W-0-10V-LPL: 13.5 in. x 4.5 in. x 2.37 in.
SPECIFICATIONS

- Input: 24VDC Constant Voltage
- Material: UV/IR resistant silicone
- Mounting (sold separately): Bottom U-Clip, Top U-Clip
- Connections: **Sold Separately (See page 3 for details)**
- Ambient Temp*: -4 - 122°F (-20 ~ 50°C)
- Operating Temp*: -4 - 176°F (-20 ~ 80°C)
- Flammability*: Flame retardant
- UV Resistance: Yes but may still degrade over time

COMPLIANCE & REGULATORY APPROVALS

Safety

Performance
- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED’s Innovation Lab.

COMPATIBLE DRIVERS

Additional information on compatible Drivers can be found on the Diode LED web site at: [www.DiodeLED.com](http://www.DiodeLED.com).

1. Lumen value measured in accordance to IES LM-79. 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.
3. Actual efficacy value is dependent on specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
4. 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.
5. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
6. This product has been tested and passed glow-wire flammability tests (GWFI index) at 650°C/1200°F, providing an extra level of safety for common areas, hospitality, and areas of high risk fire.
NEON BLAZE™ 24V LED Strip Light

ADDITIONAL INFORMATION

- NEON BLAZE™ 24V LED STRIP LIGHT Installation Guide

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 LED Driver.
4. Not for use in or on walls of pools, fountains, or other partially or fully submersed locations.
5. Do not modify or disassemble product beyond instructions or this warranty will be void.
6. Actual color may vary from what is pictured above and on other print materials due to the limitations of photographic processes.
7. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty
This product has a five (5) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment
Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from an Elemental LED employee or agent regarding a customer’s bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer’s responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.