# TOP EMITTING STRIP LIGHT SPECIFICATION SHEET

## BLAZE™ NEON 24V LED Strip Light

**Item #**

**Project**

### Voltage/Wattage

<table>
<thead>
<tr>
<th>TE-NBL1</th>
<th>TE-NBL2</th>
<th>TE-NBL4</th>
</tr>
</thead>
<tbody>
<tr>
<td>24V / 1.22W/ft.</td>
<td>24V / 2.44W/ft.</td>
<td>24V / 4.4W/ft.</td>
</tr>
</tbody>
</table>

### Lumens

<table>
<thead>
<tr>
<th>Color</th>
<th>TE-NBL1</th>
<th>TE-NBL2</th>
<th>TE-NBL4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>86 Lm/ft.</td>
<td>173 Lm/ft.</td>
<td>248 Lm/ft.</td>
</tr>
<tr>
<td>3500K</td>
<td>89 Lm/ft.</td>
<td>178 Lm/ft.</td>
<td>273 Lm/ft.</td>
</tr>
<tr>
<td>6300K</td>
<td>88 Lm/ft.</td>
<td>174 Lm/ft.</td>
<td>266 Lm/ft.</td>
</tr>
<tr>
<td>Green</td>
<td>88 Lm/ft.</td>
<td>148 Lm/ft.</td>
<td>151 Lm/ft.</td>
</tr>
<tr>
<td>Blue</td>
<td>18 Lm/ft.</td>
<td>30 Lm/ft.</td>
<td>37 Lm/ft.</td>
</tr>
<tr>
<td>Purple</td>
<td>3.5 Lm/ft.</td>
<td>5.5 Lm/ft.</td>
<td>4 Lm/ft.</td>
</tr>
<tr>
<td>Pink</td>
<td>39 Lm/ft.</td>
<td>93 Lm/ft.</td>
<td>110 Lm/ft.</td>
</tr>
<tr>
<td>Red</td>
<td>31 Lm/ft.</td>
<td>61 Lm/ft.</td>
<td>64 Lm/ft.</td>
</tr>
<tr>
<td>Gold</td>
<td>70 Lm/ft.</td>
<td>157 Lm/ft.</td>
<td>184 Lm/ft.</td>
</tr>
</tbody>
</table>

### Max. Run

<table>
<thead>
<tr>
<th></th>
<th>TE-NBL1</th>
<th>TE-NBL2</th>
<th>TE-NBL4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>65 feet</td>
<td>32 feet</td>
<td>16 feet</td>
</tr>
</tbody>
</table>

### Cut Points

<table>
<thead>
<tr>
<th></th>
<th>TE-NBL1</th>
<th>TE-NBL2</th>
<th>TE-NBL4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 inch</td>
<td>2 inch</td>
<td>2 inch</td>
</tr>
</tbody>
</table>

### CRI

80+

### Diffusion

Zero Point Diffusion™

### Dimmable

Yes

### Field Cuttable

Yes

### Dimensions

0.59 x 0.65 in. (H x W) (Strip Only)

### Environment*

Outdoor / Wet Location / IP65

### Certification

UL Listed 2108

### Warranty

5-Year Warranty

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### SKU Builder

**DI** - 24V - **TE** - Model - Color - Length

<table>
<thead>
<tr>
<th>Model</th>
<th>Color</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBL1</td>
<td>27</td>
<td>16</td>
</tr>
<tr>
<td>NBL2</td>
<td>35</td>
<td>32</td>
</tr>
<tr>
<td>NBL4</td>
<td>63</td>
<td>65</td>
</tr>
</tbody>
</table>

**Example:** DI-24V-TE-NBL2-RD-32 = Diode, 24 Volt, BLAZE™ NEON, Top emitting, 2.44w/ft, Red, 32.8 foot spool.

**WARNING:** NOT FOR USE IN SUBMERSIBLE APPLICATIONS

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© 2018 Elemental LED, Inc. All rights reserved. Specifications are subject to change without notice. Toll Free: 877.817.6028 | Fax: 415.592.1596 | www.DiodeLED.com | info@DiodeLED.com
**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°F - 122°F (-20 ~ 50°C)
- Operating Temp*: -4°F - 176°F (-20 ~ 80°C)
- Flammability*: Flame retardant

**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 page 4-6 or on the Diode LED web site at: [www.DiodeLED.com](http://www.DiodeLED.com).

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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.
ADDIIONAL 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.

BLAZE™ NEON Top emitting
Straight wire entry connector
DI-TE-NB-STWC-EC (16 AWG)

BLAZE™ NEON Top emitting
Straight wire entry connector cover
(Included with straight wire entry connector)

BLAZE™ NEON Top emitting
Side wire entry connector
DI-TE-NB-SDWC-EC (16 AWG)

BLAZE™ NEON Top emitting
Side wire entry connector cover
(Included with side wire entry connector)

BLAZE™ NEON Top emitting
96” Male Connector
DI-NB-96M-CNCT (16 AWG)

BLAZE™ NEON Top emitting
Bottom wire entry connector
DI-TE-NB-BWC-EC (16 AWG)

BLAZE™ NEON Top emitting
Bottom wire entry connector cover
(Included with bottom wire entry connector)

BLAZE™ NEON Top emitting
End Cap
(Included with all Connectors)

BLAZE™ NEON Top emitting
Bottom U-Clip
DI-TE-NB-BUC-16

BLAZE™ NEON Top emitting
Top U-Clip
DI-TE-NB-TUC-16

BLAZE™ NEON Top emitting
Channel
DI-TE-NB-MTCH

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**BLAZE™ NEON 24V LED Strip Light**

**TOP EMITTING STRIP LIGHT SPECIFICATION SHEET**

### 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](https://www.diodeled.com/products/led-power-supplies.html)

### SWITCHEX® DRIVER + DIMMER SWITCH

SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

| Voltage & Power Output | | |
|------------------------|------------------------|
| DI                     | 0970                   |
| SE                     | LPS                    |

<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>

### 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>Voltage &amp; Power Output</th>
<th>Junction Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI</td>
<td>LPS</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>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

### 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>Voltage &amp; Power Output</th>
<th>Junction Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM</td>
<td>MW24V60W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>L - LENGTH</th>
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<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-MW-24V60W-0-10V-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-DM-MW-24V90W-0-10V-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>
LED DRIVERS Cont. (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

OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED's Compatibility List at: https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf/

<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>

©LUTRON. 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>SKU</th>
<th>L - LENGTH</th>
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<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-24V40W-L3D</td>
<td>4.89 in.</td>
<td>4.00 in.</td>
<td>2.62 in.</td>
</tr>
<tr>
<td>DI-DM-24V40W-LTE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

©LUTRON. 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>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-24V96W-L3D</td>
<td>5.50 in.</td>
<td>2.20 in.</td>
<td>10.50 in.</td>
</tr>
</tbody>
</table>
LED DRIVERS (Required)

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED’s product page at: https://www.dioted.com/products/led-power-supplies.html

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>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>
ADDITIONAL INFORMATION

- BLAZE™ NEON 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 submerged 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.