# 24V DOUBLE BLAZE™ LED Tape Light

## SPECIFICATION SHEET

**DI-24V-DB**

<table>
<thead>
<tr>
<th>Voltage/Wattage</th>
<th>DI-24V-DB</th>
<th>Color Temperature</th>
<th>DI-24V-DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>24VDC / 5.75W/ft.</td>
<td>2700K</td>
<td>500 Lm/ft.</td>
<td>2,700 K</td>
</tr>
<tr>
<td>2700K</td>
<td>3000K</td>
<td>500 Lm/ft.</td>
<td>3,000 K</td>
</tr>
<tr>
<td>3000K</td>
<td>3500K</td>
<td>510 Lm/ft.</td>
<td>3,500 K</td>
</tr>
<tr>
<td>3500K</td>
<td>4200K</td>
<td>520 Lm/ft.</td>
<td>4,200 K</td>
</tr>
<tr>
<td>4200K</td>
<td>5000K</td>
<td>525 Lm/ft.</td>
<td>5,000 K</td>
</tr>
<tr>
<td>5000K</td>
<td>Max. Run²</td>
<td>16.4 feet</td>
<td></td>
</tr>
<tr>
<td>Cut Points</td>
<td>2 in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LED Chips</td>
<td>72/foot</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lumens**

- 2700K: 500 Lm/ft.
- 3000K: 500 Lm/ft.
- 3500K: 510 Lm/ft.
- 4200K: 520 Lm/ft.
- 5000K: 525 Lm/ft.

**Cut Points**

- 2 in.

**LED Chips**

- 72/foot

**Max. Run²**

- 16.4 feet

**SKU Builder**

DI - 24V - DB - Color Temp - Length

- 27: 16'
- 30: 100'
- 35: CSTM²
- 42: (Length)
- 50: (Length)

### FEATURES

- High Lumen output
- Extended run lengths

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*WARNING: NOT FOR USE IN SUBMERSIBLE APPLICATIONS*

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Example: DI-24V-DB35-16 = Diode, 24 Volt, DOUBLE BLAZE™ Tape Light, 3,500° CCT, 80+ CRI, 16.4 foot spool.
SPECIFICATIONS

• Input: 24VDC Constant Voltage
• LED Chip Type: 3528
• LED Chip Beam Angle: 120°
• Luminous Efficacy (lm/w): 87-91
• Mounting: 3M™ 55280 Adhesive
• Connections: 3 ft. Female DC plug on end. 3 ft. hard-wire lead opposing end. Leads: 20/2 AWG.
• Ambient Temp: -4°F - 122°F (-20 ~ 50°C)
• Operating Temp: -4°F - 176°F (-20 ~ 80°C)

CHANNEL MOUNTING?

Note: Double Blaze LED Tape Light is compatible with all Chromapath Builder and Bundle Channels with the exception of Chromapath Builder DUO Channels, and Chromapath Bundle SCONCE Channels.

COMPLIANCE & REGULATORY APPROVALS

Safety

• UL Listed 2108. UL 1598 / CSA 250.0-08. UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. E469769 (UL Listed), E469770 (Component Recognized).

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 5-6 or on the Diode LED web site at: www.DiodeLED.com.

SPECIFYING?

Note: The compatible products listed in this Specification Sheet are provided for reference only. For complete specifications of compatible products, click on the SPEC SHEET links provided.

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.
3. Requests for custom lengths of Strip Light will be cut to the nearest (lower) cut point. (Example: DI-24V-DB35-CSTM-15’ 3” would be cut to 182 inches (ie. 15’ 2”)
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. 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.
6. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
MECHANICAL DIAGRAMS

24V DOUBLE BLAZE™ LED Tape Light
DI-24V-DB

ADDITIONAL ACCESSORIES

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

DOUBLE BLAZE™ Splice Connector
Connects DOUBLE BLAZE™ LED Tape Light to power supply. Refer to Installation Guide for further information.
Dimensions: 3.0 x 0.8 in. (L x W)
DI-0811

DOUBLE BLAZE™ DC Plug Connector
Connects DOUBLE BLAZE™ LED Tape Light to plug in adapter.
Dimensions: 3.0 x 0.8 in. (L x W)
DI-0812

DOUBLE BLAZE™ Flexible Extension
Attaches two sections of tape light together. Wire lead allows for turns around tight corners.
Dimensions: 3.0 x 0.8 in. (L x W)
DI-0813

DOUBLE BLAZE™ Tape Link
Attaches two sections of tape light together.
Dimensions: 0.5 x 0.8 in. (L x W)
DI-0814
24V DOUBLE BLAZE™ LED Tape Light

COMPATIBLE CHANNELS

CHROMAPATH® BUNDLE
20mm ROUNDED CORNER Channel
DI-CPCHB-RC20-48

CHROMAPATH® BUNDLE
20mm SQUARE CORNER Channel
DI-CPCHB-SQC20-48

CHROMAPATH® BUNDLE
DOME Channel
DI-CPCHB-DOME-48

CHROMAPATH® BUNDLE
RECESSED Channel
DI-CPCHB-REC-48

Chromapath® Bundle: RECESSED Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only.
DOUBLE BLAZE™ connectors will not fit within this channel.

Chromapath® Bundle: DOME Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only.
DOUBLE BLAZE™ connectors will not fit within this channel.

Chromapath® Bundle: SCONCE Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only.
DOUBLE BLAZE™ connectors will not fit within this channel.
COMPATIBLE CHANNELS

**CHROMAPATH® BUILDER**

**SLIM Channel**

**DI-CPCHA-SL**

Chromapath® Builder: SLIM Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only. DOUBLE BLAZE™ connectors will not fit within this channel.

**SQUARE Channel**

**DI-CPCHA-SQ**

Chromapath® Builder: SQUARE Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only. DOUBLE BLAZE™ connectors will not fit within this channel.

**45 DEGREE Channel**

**DI-CPCHA-45**

Chromapath® Builder: 45 DEGREE Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only. DOUBLE BLAZE™ connectors will not fit within this channel.

**BUNDLE**

**DUO Channel**

**DI-CPCHB-REC-48**

Chromapath® Builder: DUO Channel is compatible with custom cut and soldered DOUBLE BLAZE™ LED Tape Light only. DOUBLE BLAZE™ connectors will not fit within this channel.
## 24V DOUBLE BLAZE™ LED Tape Light

### SPECIFICATION SHEET

## COMPATIBLE PRODUCTS

### 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.diodied.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.

<table>
<thead>
<tr>
<th>Voltage &amp; Power Output</th>
<th>Switch Box (Sold Separately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-24V-SE-60W</td>
<td>11.25 in. 2.10 in. 4.10 in.</td>
</tr>
<tr>
<td>DI-24V-SE-100W</td>
<td>11.25 in. 2.10 in. 4.10 in.</td>
</tr>
</tbody>
</table>

Fits in Standard Switch Box

### 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-0970-LPS</td>
<td>11.25 in. 3.75 in. 1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V60W-277-LPS</td>
<td>11.25 in. 3.75 in. 1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V90W-277-LPS</td>
<td>11.25 in. 3.75 in. 1.90 in.</td>
</tr>
<tr>
<td>DI-0954-LPL</td>
<td>13.5 in. 4.5 in. 2.37 in.</td>
</tr>
</tbody>
</table>

### 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-MW24V60W-0-10V-LPS</td>
<td>11.25 in. 3.75 in. 1.90 in.</td>
</tr>
<tr>
<td>DI-DM-MW24V90W-0-10V-LPL</td>
<td>13.5 in. 4.5 in. 2.37 in.</td>
</tr>
</tbody>
</table>
COMPATIBLE PRODUCTS
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>
<th>W - WIDTH</th>
<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>
</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>
ADDITIONAL INFORMATION
• 24V DOUBLE BLAZE™ LED TAPE 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 Constant Voltage LED Driver.
4. Do not modify or disassemble product beyond instructions or this warranty will be void.
5. Actual color may vary from what is pictured above and on other print materials due to the limitations of photographic processes.
6. 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 twelve (12) 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.