# BLAZE™ X  12V / 24V
# LED Tape Light

Precision-engineered tape light. Up to 350+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

Date

https://www.diodeled.com/blaze-x-led-tape-light.html

Project Notes

| 12 Year Warranty | IP20 | 12/24 VDC | NEC 410.16.A.3 & 410.10.C.1.3 CLOSET RATED | TITLE 24 |

## FEATURES

- 95+ CRI
- 12V and 24V
- Heavy-duty copper PCB for long lasting performance
- Precision color rendering with 90+ R9 value
- 100/200/300 lumen outputs
- 3M™ adhesive backing
- 12 Year limited warranty

## ORDERING CODES
**Order spools, and components for field assembly**

## OPTIONAL ORDERING CODES
**Add Length, Assembly Preferences, and Finish**

| Diode LED | Voltage | Model | CCT | | Length | Channels | | | Finish | Mounting | | Driver | | Delivery |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DI | | | | | | | | | | | | | | |
| | 12V | BLX1 | 20 (2000K) | 35 (3500K) | 016 (16.4 feet) | SL (Slim) | 45 (45°) | REC (Recessed) | AL (Aluminum) | 3M (3M Adhesive) | VC (Vertical Clip) | ELV (Electronic) | O/O (On / Off) | Field Assembly |
| | 24V | BLX2 | 24 (2400K) | 50 (5000K) | 100 (100 feet) | CA (Canal) | 45DCO (45° Deco) | SLR (Slim Recessed) | WH (White) | MC (Mounting Clip) | HNG (Hanging Hardware) | 010 (0-10V) | LUT (Lutron) | Factory + Field (Hybrid) |
| | | BLX3 | 27 (2700K) | 63 (6300K) | 400 (400 feet) | S1 (S1) | 90 (90° Sideview) | GZR (Grazer) | BL (Black) | UC (U-Clip) | RC (Rotating Clip) | MAG (Magnetic) | PoE (Power over Ethernet) | Factory Assembly |
| | | | 30 (3000K) | | | RC10 (10mm Round) | REF (Reflector) | WF (Waveform) | AL (Aluminum) | | | SWX (Switchex) | | |
| | | | | | | SQ10 (10mm Square) | ROD (Rod) | | | | | | | |
| | | | | | | SQ (Square) | MI1 (1-inch Mud-In) | | | | | | | |

## 12V BLAZE™ X - SPECIFICATION TABLE

| Models | 12V-BLX1 | 12V-BLX2 | 12V-BLX3 | 24V-BLX1 | 24V-BLX2 | 24V-BLX3 |
|---|---|---|---|---|---|---|
| **Voltage** | **12VDC** | **12VDC** | **12VDC** | **24VDC** | **24VDC** | **24VDC** |
| **Wattage** | **1.54W/ft.** | **3.1W/ft.** | **4.3W/ft.** | **1.54W/ft.** | **3.1W/ft.** | **4.3W/ft.** |
| 2000K | - | - | - | 92 Lm/ft. | 181 Lm/ft. | 261 Lm/ft. |
| 2400K | 110 Lm/ft. | 225 Lm/ft. | 318 Lm/ft. | 114 Lm/ft. | 224 Lm/ft. | 322 Lm/ft. |
| 2700K | 109 Lm/ft. | 221 Lm/ft. | 305 Lm/ft. | 112 Lm/ft. | 224 Lm/ft. | 318 Lm/ft. |
| Lumens  3000K | 122 Lm/ft. | 247 Lm/ft. | 339 Lm/ft. | 126 Lm/ft. | 253 Lm/ft. | 360 Lm/ft. |
| 3500K | 126 Lm/ft. | 241 Lm/ft. | 352 Lm/ft. | 131 Lm/ft. | 254 Lm/ft. | 357 Lm/ft. |
| 5000K | 128 Lm/ft. | 262 Lm/ft. | 358 Lm/ft. | 135 Lm/ft. | 264 Lm/ft. | 378 Lm/ft. |
| 6300K | 121 Lm/ft. | 262 Lm/ft. | 380 Lm/ft. | 123 Lm/ft. | 276 Lm/ft. | 393 Lm/ft. |
| Cut Points | 2 in. | 1 in. | 1 in. | 4 in. | 2 in. | 2 in. |
| Max Run (ft.) | 37 ft. | 22 ft. | 20 ft. | 70 ft. | 45 ft. | 40 ft. |
| CRI | 95+ | 95+ | 95+ | 95+ | 95+ | 95+ |
| Dimensions | 0.31 × 0.1 in. (W x H) | 0.31 × 0.1 in. (W x H) | 0.31 × 0.1 in. (W x H) | 0.31 × 0.1 in. (W x H) | 0.31 × 0.1 in. (W x H) | 0.31 × 0.1 in. (W x H) |
| TM-30 (LM-80) | >50,000 hours | >50,000 hours | >50,000 hours | >50,000 hours | >50,000 hours | >50,000 hours |
| Environment | Indoor / Damp Location (IP20) | Indoor / Damp Location (IP20) | Indoor / Damp Location (IP20) | Indoor / Damp Location (IP20) | Indoor / Damp Location (IP20) | Indoor / Damp Location (IP20) |
| Ambient Temperature | -4 ~ 122°F (-20 ~ 50°C) | -4 ~ 122°F (-20 ~ 50°C) | -4 ~ 122°F (-20 ~ 50°C) | -4 ~ 122°F (-20 ~ 50°C) | -4 ~ 122°F (-20 ~ 50°C) | -4 ~ 122°F (-20 ~ 50°C) |
| Operating Temperature | -4 ~ 176°F (-20 ~ 80°C) | -4 ~ 176°F (-20 ~ 80°C) | -4 ~ 176°F (-20 ~ 80°C) | -4 ~ 176°F (-20 ~ 80°C) | -4 ~ 176°F (-20 ~ 80°C) | -4 ~ 176°F (-20 ~ 80°C) |
| LED Chips | 18/ft. | 36/ft. | 36/ft. | 18/ft. | 36/ft. | 36/ft. |
| Chip Type | 2835 | 2835 | 2835 | 2835 | 2835 | 2835 |
| Certification | UL Listed 2108 | UL Listed 2108 | UL Listed 2108 | UL Listed 2108 | UL Listed 2108 | UL Listed 2108 |
| Warranty | 12 Year | 12 Year | 12 Year | 12 Year | 12 Year | 12 Year |

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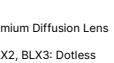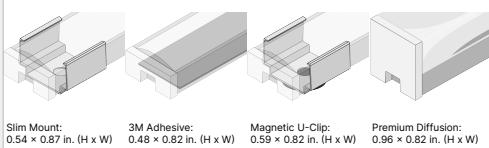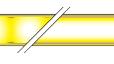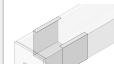
## RECOMMENDED CHANNELS

| MODEL | DIAGRAM | INCLUDED ACCESSORIES | CONNECTION OPTIONS | IN CHANNEL DIFFUSION | TECHNICAL RATINGS | MOUNTING OPTIONS WITH DIMENSIONS |
|---|---|---|---|---|---|---|
| **Slim Channel** DI-CPCHB-SL (SL) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller | Height (H): 0.38 in. Width (W): 0.82 in. Interior Depth (ID): 0.3 in. Interior Width (IW): 0.67 in. | • 48 in. channel & lens • 2x surface mounting clips • End caps: 1x open, 1x closed • 96 in. channel & lens • 4x surface mounting clips • end caps: 2x open, 2x closed | • 8mm Terminal Block • Soldered Lead | With Architectural Frosted Lens BLX1, BLX2, BLX3: Runway Diffusion / With Premium Diffusion Lens BLX1, BLX2, BLX3: Dotless | • Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 20% • CCT Shift: -45K Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -35K Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K • IP Rating Shift: IP40 | Slim Mount: 0.54 × 0.87 in. (H x W)    3M Adhesive: 0.48 × 0.82 in. (H x W)    Magnetic U-Clip: 0.59 × 0.82 in. (H x W)    Premium Diffusion: 0.96 × 0.82 in. (H x W) |
| **Canal Channel** DI-CPCHB-CAN (CA) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller | Height (H): 0.59 in. Width (W): 0.69 in. Interior Depth (ID): 0.54 in. Interior Width (IW): 0.61 in. | • 48 in. channel & opal lens • 2x surface mounting clips • End caps: 1x open, 1x closed. • 96 in. channel & opal lens • 4x surface mounting clips • End caps: 2x open, 2x closed. | • 8mm Terminal Block • Soldered Lead | With Opal Lens BLX1: Semi-Diffused BLX2, BLX3: Dotless | • Beam Angle: 120° Opal Lens • Light Loss: 55% • CCT Shift: • IP Rating Shift: IP40 | U-Clip: 0.6 × 0.7 in. (H x W) |
| **S1 Channel** DI-CHB-S1 (S1) 48", 96", 90" Aluminum For 14mm Tape Lights or smaller | Height (H): 0.31 in. Width (W): 0.67 in. Interior Width (IW): 0.58 in. | • 48 in. channel & frosted cover • 2x surface mounting clips • End caps: 1x open, 1x closed. • 90 in. channel & frosted cover • 4x surface mounting clips • End caps: 2x open, 2x closed. | • 8mm Terminal Block • Soldered Lead | With Classic Frosted Lens BLX1: Runway Diffusion BLX2, BLX3: Semi-Diffused | • Beam Angle: 120° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | U-Clip: 0.32 × 0.68 in. (H x W) |
| **10mm Round Channel** DI-CPCHB-RC10 (RC10) 48", 96" Aluminum For 8mm Tape Lights or smaller | Height (H): 0.63 in. Width (W): 0.63 in. Interior Width (IW): 0.39 in. | • 48 in. channel & frosted cover • Mounting hardware • End caps: 1x open, 1x closed. • 96 in. channel & frosted cover • Mounting hardware • End caps: 2x open, 2x closed. | • 8mm Terminal Block • Soldered Lead | With Classic Frosted Lens BLX1: Runway Diffusion BLX2, BLX3: Semi-Diffused | • Beam Angle: 180° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | U-Clip: 0.64 × 0.64 in. (H x W) |

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Project Notes

**12** Year Warranty | **IP20** | **12/24 VDC** | **NEC** 410.16.A.3 & 410.16.C.1.3 CLOSET RATED | **TITLE 24**

## RECOMMENDED CHANNELS

| MODEL | DIAGRAM | INCLUDED ACCESSORIES | CONNECTION OPTIONS | IN CHANNEL DIFFUSION | TECHNICAL RATINGS | MOUNTING OPTIONS WITH DIMENSIONS |
|---|---|---|---|---|---|---|
| **10mm Square Channel** DI-CPCHB-SQC10 (SQ10) 48", 96" Aluminum For 8mm Tape Lights or smaller | Height (H): 0.63 in. Width (W): 0.63 in. Interior Width (IW): 0.39 in. | • 48 in. channel & frosted cover • Mounting hardware • End caps: 1x open, 1x closed. • 96 in. channel & frostedcover • Mounting hardware • End caps: 2x open, 2x closed. | • 8mm Terminal Block • Soldered Lead | With Classic Frosted Lens BLX1: Runway Diffusion BLX2, BLX3: Semi-Diffused | • Beam Angle: 180° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | U-Clip: 0.64 × 0.64 in. (H x W) |
| **Square Channel** DI-CPCHB-SQ (SQ) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller | Height (H): 0.55 in. Width (W): 0.82 in. Interior Depth (ID): 0.27 in. Interior Width (IW): 0.67 in. | • 48 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects • 96 in. channel & clear, or frosted lens • 8x surface mounted clips • 4x End-to-end interconnects | • 8mm Terminal Block • Soldered Lead | With Architectural Frosted Lens BLX1, BLX2, BLX3: Runway Diffusion · · · With Premium Diffusion Lens BLX1, BLX2, BLX3: Dotless | • Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 20% • CCT Shift: -45K Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K • IP Rating Shift: IP40 | Chromapath Surface Mount: 0.61 × 0.82 in. (H x W) Vertical Mount: 0.61 × 0.82 in. (H x W) Rotating Mount: 1.29 × 0.82 in. (H x W) Hanging Mount: 1.51 × 0.82 in. (H x W) Premium Diffusion: 1.13 × 0.82 in. (H x W) |
| **45° Channel** DI-CPCHB-45 (45) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller | Height (H): 0.94 in. Width (W): 0.67 in. Interior Depth (ID): 0.32 in. Interior Width (IW): 0.67 in. | • 48 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects • 96 in. channel & clear, or frosted lens • 8x surface mounted clips • 4x End-to-end interconnects | • 8mm Terminal Block • Soldered Lead | With Architectural Frosted Lens BLX1, BLX2, BLX3: Runway Diffusion · · · With Premium Diffusion Lens BLX1, BLX2, BLX3: Dotless | • Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 20% • CCT Shift: -45K Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K • IP Rating Shift: IP40 | Chromapath Surface Mount: 1 × 0.67 in. (H x W) Vertical Mount: 1 × 0.67 in. (H x W) Rotating Mount: 1.68 × 0.67 in. (H x W) Hanging Mount: 1.9 × 0.67 in. (H x W) Premium Diffusion: 1.52 × 0.67 in. (H x W) |
| **45° Deco Channel** DI-CPCHB-45DCO (45DCO) 48", 96" Aluminum For 10mm Tape Lights or smaller | Height (H): 0.73 in. Width (W): 0.73 in. Interior Depth (ID): 0.42 in. Interior Width (IW): 0.47 in. | • 48 in. channel & frosted cover • Mounting hardware • End caps: 1x open, 1x closed. • 96 in. channel & frosted cover • Mounting hardware • End caps: 2x open, 2x closed. | • Soldered Lead Only | With Classic Frosted Lens BLX1: Runway Diffusion BLX2, BLX3: Dotless | • Beam Angle: 120° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | Mounting Clip: 0.73 × 0.73 in. (H x W) |

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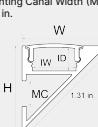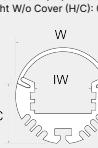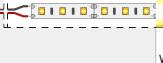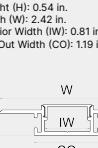
# RECOMMENDED CHANNELS

| MODEL | DIAGRAM | INCLUDED ACCESSORIES | CONNECTION OPTIONS | IN CHANNEL DIFFUSION | TECHNICAL RATINGS | MOUNTING OPTIONS WITH DIMENSIONS |
|---|---|---|---|---|---|---|
| **90° Sideview Channel** DI-CPCHB-90SD (90) 48", 96" Aluminum For 12mm Tape Lights or smaller | Height (H): 0.92 in. Width (W): 0.92 in. Interior Depth (ID): 0.3 in. Interior Width (IW): 0.48 in. Mounting Canal Width (MC): 0.25 in. | • 48 in. channel & frosted cover • Mounting hardware • End caps: 1x open, 1x closed. • 96 in. channel & frosted cover • Mounting hardware • End caps: 2x open, 2x closed. | • Soldered Lead Only | With Classic Frosted Lens BLX1: Runway Diffusion BLX2, BLX3: Semi-Diffused | • Beam Angle: 120° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | Mounting Clip: 0.92 × 0.92 in. (H x W) |
| **Reflector Channel** DI-CPCHB-RFCTR (REF) 48", 96" Aluminum For 12mm Tape Lights or smaller | Height (H): 2.75 in. Width (W): 1 in. Interior Depth (ID): 0.29 in. Interior Width (IW): 0.54 in. Cut Out Width (CO): 2.35 in. Recessed Wing (RW): 0.2 in. | • 48 in. channel & frosted cover • End caps: 1x open, 1x closed. • 96 in. channel & frosted cover • End caps: 1x open, 1x closed. | • Soldered Lead Only | With Classic Frosted Lens BLX1: Runway Diffusion BLX2, BLX3: Semi-Diffused | • Beam Angle: 120° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | Recessed Mount: 2.75 × 1 in. (H x W) |
| **Rod Channel** DI-CPCHB-RDCL (ROD) 48", 96" Aluminum For 12mm Tape Lights or smaller | Height (H): 0.95 in. Width (W): 0.95 in. Interior Width (IW): 0.48 in. Height W/o Cover (H/C): 0.72 in. | • 78.74 in. channel & frosted lens • 1x open end-cap, 1x closed end-cap • 4× 180° swivel brackets • 2x Closet Mounting Brackets • 2x Support Brackets | • Soldered Lead Only | With Classic Frosted Lens BLX1: Semi-Diffused BLX2, BLX3: Dotless | • Beam Angle: 180° Classic Frosted Lens • Light Loss: 17% • CCT Shift: -40K • IP Rating Shift: IP40 | Rotating Mount: 1.69 × 0.95 in. (H x W)  Closet Mount: 1.28 × 3.25 in. (H x W)  Art Lighting Arm: 2.72 × 10.15 in. (H x W)  Wall Arm: 4.5 × 2.15 in. (H x W) |
| **1-inch Mud-In Channel** DI-CPCHB-MUD1 (MI1) 48", 96" Aluminum For 14mm Tape Lights or smaller | Height (H): 0.54 in. Width (W): 2.42 in. Interior Width (IW): 0.81 in. Cut Out Width (CO): 1.19 in. | • 96 in. channel & opal lens • 2x surface mounting clips • End caps: 2x open, 2x closed. | • 8mm Terminal Block • Soldered Lead | With Opal Lens BLX1: Runway Diffusion BLX2, BLX3: Dotless | • Beam Angle: 120° Opal Lens • Light Loss: 55% • CCT Shift: • IP Rating Shift: IP40 | Recessed Mount: 0.54 × 2.42 in. (H x W) |

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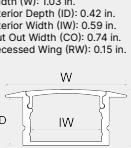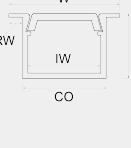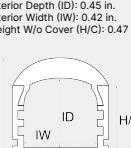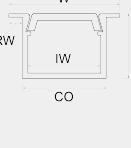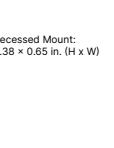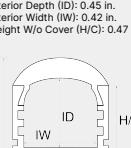
## RECOMMENDED CHANNELS

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|---|---|---|---|---|---|---|
| **Recessed Channel**<br>DI-CPCHB-REC<br><br>(REC)<br>48", 96"<br>Aluminum<br>For 14mm Tape Lights or smaller | Height (H): 0.49 in.<br>Width (W): 1.03 in.<br>Interior Depth (ID): 0.42 in.<br>Interior Width (IW): 0.59 in.<br>Cut Out Width (CO): 0.74 in.<br>Recessed Wing (RW): 0.15 in.<br><br>W / ID / IW / H / CO | • 48 in. channel & frosted lens<br>• 2x surface mounted clips<br>• end caps: 1x open, 1x closed<br><br>• 96 in. channel & frosted lens<br>• 4x surface mounted clips<br>• end caps: 2x open, 2x closed | • 8mm Terminal Block<br>• Soldered Lead | With Classic Frosted Lens<br><br>BLX1: Runway Diffusion<br>BLX2: Semi-Diffused<br>BLX3: Dotless | • Beam Angle: 120°<br><br>Classic Frosted Lens<br>• Light Loss: 17%<br>• CCT Shift: -40K<br><br>• IP Rating Shift: IP40 | 3M Adhesive:<br>0.59 × 1.03 in. (H x W)<br><br>Recessed Mount:<br>0.49 × 1.03 in. (H x W) |
| **Slim Recessed Channel**<br>DI-CPCHB-SLR<br><br>(SLR)<br>48", 96"<br>Aluminum<br>For 10mm Tape Lights or smaller | Height (H): 0.38 in.<br>Width (W): 0.65 in.<br>Interior Width (IW): 0.43 in.<br>Cut Out Width (CO): 0.49 in.<br>Recessed Wing (RW): 0.08 in.<br><br>W / RW / IW / H / CO | • 48 in. channel & frosted lens<br>• End caps: 1x open square, 1x open round, 1x closed square.<br><br>• 96 in. channel & frosted lens<br>• End caps: 1x open square, 1x open round, 1x closed square. | • Soldered Lead Only | With Classic Frosted Lens<br><br>BLX1: Runway Diffusion<br>BLX2, BLX3: Semi-Diffused | • Beam Angle: 120°<br><br>Classic Frosted Lens<br>• Light Loss: 17%<br>• CCT Shift: -40K<br><br>• IP Rating Shift: IP40 | Recessed Mount:<br>0.38 × 0.65 in. (H x W) |
| **Grazer Channel**<br>DI-CPCHB-GZRNB<br><br>(GZR)<br>48", 96"<br>Aluminum<br>For 10mm Tape Lights or smaller | Height (H): 0.69 in.<br>Width (W): 0.62 in.<br>Interior Depth (ID): 0.45 in.<br>Interior Width (IW): 0.42 in.<br>Height W/o Cover (H/C): 0.47 in.<br><br>H / ID / H/C / IW / W | • 48 in. channel & clear matte optic lens<br><br>• 96 in. channel & clear matte optic lens | • Soldered Lead Only | With Clear Matte Optics Lens<br><br>BLX1, BLX2, BLX3: Dotless | • Beam Angle: 24°<br><br>• IP Rating Shift: IP40 | Mounting Clip:<br>0.69 × 0.62 in. (H x W) |
| **Waveform Channel**<br>DI-CPCHB-WF<br><br>(WF)<br>48"<br>Aluminum<br>For 12mm Tape Lights or smaller | Height (H): 0.3 in.<br>Width (W): 0.71 in.<br>Interior Width (IW): 0.49 in.<br>Height W/o Cover (H/C): 0.2 in.<br><br>H/C / IW / H / W | • 48 in. channel & frosted lens<br>• 2x surface mounting clips<br>• End caps: 1x open, 1x closed. | • Soldered Lead Only | With Classic Frosted Lens<br><br>BLX1, BLX2, BLX3: Runway Diffusion | • Beam Angle: 120°<br><br>Classic Frosted Lens<br>• Light Loss: 17%<br>• CCT Shift: -40K<br><br>• IP Rating Shift: IP40 | 3M Adhesive:<br>0.4 × 0.71 in. (H x W)<br><br>U-Clip:<br>0.31 × 0.72 in. (H x W) |

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Date     https://www.diodeled.com/blaze-x-led-tape-light.html

Project Notes

| 12 Year Warranty | IP20 | 12/24 VDC | NEC 410.16.A.3 & 410.16.C.1.3 CLOSET RATED | TITLE 24 |

## RECOMMENDED 24V DRIVERS

| SKU | INPUT VOLTAGE / FREQUENCY | OUTPUT VOLTAGE | MAXIMUM LOAD | MINIMUM LOAD | CLASS 2 | DIMMABLE | LENGTH | WIDTH | HEIGHT | DERATION |
|---|---|---|---|---|---|---|---|---|---|---|
| **OMNIDRIVE® X Dimmable Driver**<br>Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems. | | | | | | https://www.diodeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf/ | | | | |
| DI-ODX-24V30W-J | 120-277V | 24V | 30W | No minimum load | Yes | Yes | 6.5 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| DI-ODX-24V60W-J | 120-277V | 24V | 60W | No minimum load | Yes | Yes | 7.4 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| DI-ODX-24V96W-J | 120-277V | 24V | 96W | No minimum load | Yes | Yes | 8.66 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| DI-ODX-24V120W-J | 120-277V | 24V | 120W | No minimum load | No | Yes | 8.66 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| **0-10V Dimmable LED Driver**<br>Driver for cost-effective dimming on 0-10V control systems. | | | | | | https://www.diodeled.com/custom/download/productFile/filename/DI-DM-0-10V-Specificaton%20Sheet.pdf/ | | | | |
| DI-DM-MW24V60W-0-10V-LPS | 120 ~ 277VAC 50/60Hz | 24V | 60W | No minimum load | Yes | Yes, with any 0-10V dimmer or control. | 11.25 in. | 3.75 in. | 1.9 in. | See Driver Specification Sheet for Deration Curves. |
| DI-DM-MW24V90W-0-10V-LPL | 120 ~ 277VAC 50/60Hz | 24V | 90W | No minimum load | Yes | Yes, with any 0-10V dimmer or control. | 13.5 in. | 4.5 in. | 3.75 in. | See Driver Specification Sheet for Deration Curves. |
| **OMNIDRIVE® Electronic Dimmable Driver**<br>Our classic electronic dimmable (ELV) driver. Superior dimming and wide compatibility with popular dimmers. | | | | | | https://www.diodeled.com/custom/download/productFile/filename/omnidrive-indoor-electronic-dimmable-driver-specification-sheet.pdf/ | | | | |
| DI-TD-24V-30W-LPS | 90~135VAC at ~50/60Hz | 24V | 30W | Load at least 60% labeled load | Yes | Yes | 11.25 in. | 3.75 in. | 1.9 in. | See Driver Specification Sheet for Deration Curves. |
| DI-TD-24V-45W-LPL | 90~135VAC at ~50/60Hz | 24V | 45W | Load at least 60% labeled load | Yes | Yes | 13.5 in. | 4.5 in. | 2.38 in. | See Driver Specification Sheet for Deration Curves. |
| DI-TD-24V-60W-LPL | 90 ~ 135VAC 50/60Hz | 24V | 60W | Load at least 60% labeled load | Yes | Yes. Not compatible with PWM controls. | 13.5 in. | 4.5 in. | 2.38 in. | See Driver Specification Sheet for Deration Curves. |
| DI-TD-24V-80W-LPL | 90 ~ 135VAC 50/60Hz | 24V | 80W | Load at least 60% labeled load | Yes | Yes. Not compatible with PWM controls. | 13.5 in. | 4.5 in. | 2.38 in. | See Driver Specification Sheet for Deration Curves. |
| **PoE (Power over Ethernet)**<br>Constant voltage platform, ready for Power over Ethernet (inquire) | | | | | | | | | | |

## RECOMMENDED CONTROLLERS

| SKU | DESCRIPTION |
|---|---|
| **SWITCHEX® Driver and Dimmer Switch**<br>LED driver and dimmer switch combined in a single gang box. | |
| DI-24V-SE-60W | SWITCHEX 24V Switch/Driver Combo - 60W |
| DI-24V-SE-100W | SWITCHEX 24V Switch/Driver Combo - 100W |
| **CASAMBI® Controllers**<br>The CASAMBI controllers will remotely control your lighting through the app - downloadable for IOS & Android. | |
| CBU-A2D | CASAMBI A2D 2 Channel 0-10V/DALI Controller |
| CBU-ASR | CASAMBI ASR 0-10V Controller |
| CBU-PWM4 | CASAMBI PWM4 Single Color Dimming Controller |
| CBU-TED | CASAMBI TED AC High Voltage Controller |

## BLAZE™ X 12V / 24V
## LED Tape Light

Precision-engineered tape light. Up to 350+ lumens per foot with 95+ CRI / 90+ R9.
12 year warranty.

Date  https://www.diodeled.com/blaze-x-led-tape-light.html

Project Notes

| 12 Year Warranty | IP20 | 12/24 VDC | NEC 410.16.A.3 & 410.10.C.1.3 CLOSET RATED | TITLE 24 |
|---|---|---|---|---|

## RECOMMENDED 12V DRIVERS

| SKU | INPUT VOLTAGE / FREQUENCY | OUTPUT VOLTAGE | MAXIMUM LOAD | MINIMUM LOAD | CLASS 2 | DIMMABLE | LENGTH | WIDTH | HEIGHT | DERATION |
|---|---|---|---|---|---|---|---|---|---|---|
| **OMNIDRIVE® X Dimmable Driver** Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems. | | | | | | https://www.diodeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf/ | | | | |
| DI-ODX-12V30W-J | 120-277V | 12V | 30W | No minimum load | Yes | Yes | 6.5 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| DI-ODX-12V60W-J | 120-277V | 12V | 60W | No minimum load | Yes | Yes | 7.4 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| DI-ODX-12V100W-J | 120-277V | 12V | 100W | No minimum load | No | Yes | 8.66 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| DI-ODX-12V120W-J | 120-277V | 12V | 120W | No minimum load | No | Yes | 8.66 in. | 3.7 in. | 1.36 in. | See Driver Specification Sheet for Deration Curves. |
| **0-10V Dimmable LED Driver** Driver for cost-effective dimming on 0-10V control systems. | | | | | | https://www.diodeled.com/custom/download/productFile/filename/DI-DM-0-10V-Specificaton%20Sheet.pdf/ | | | | |
| DI-DM-MW12V40W-0-10V-LPS | 0.6A@115VAC, 0.3 A@230VAC, 0.25A@277VAC | 12V | 40W | No minimum load | Yes | Yes, with any 0-10V dimmer or control. | 11.25 in. | 3.75 in. | 1.9 in. | See Driver Specification Sheet for Deration Curves. |
| DI-DM-MW12V60W-0-10V-LPS | 120 ~ 277VAC 50/60Hz | 12V | 60W | No minimum load | Yes | Yes, with any 0-10V dimmer or control. | 11.25 in. | 3.75 in. | 1.9 in. | See Driver Specification Sheet for Deration Curves. |
| **OMNIDRIVE® Electronic Dimmable Driver** Our classic electronic dimmable (ELV) driver. Superior dimming and wide compatibility with popular dimmers. | | | | | | https://www.diodeled.com/custom/download/productFile/filename/omnidrive-indoor-electronic-dimmable-driver-specification-sheet.pdf/ | | | | |
| DI-TD-12V-30W-LPS | 90~135VAC at ~50/60Hz | 12V | 30W | Load at least 60% labeled load | Yes | Yes | 11.25 in. | 3.75 in. | 1.9 in. | See Driver Specification Sheet for Deration Curves. |
| DI-TD-12V-45W-LPL | 90~135VAC at ~50/60Hz | 12V | 45W | Load at least 60% labeled load | Yes | Yes | 13.5 in. | 4.5 in. | 2.38 in. | See Driver Specification Sheet for Deration Curves. |
| DI-TD-12V-60W-LPL | 90~135VAC at ~50/60Hz | 12V | 60W | Load at least 60% labeled load | Yes | Yes | 13.5 in. | 4.5 in. | 2.38 in. | See Driver Specification Sheet for Deration Curves. |
| DI-TD-12V-80W | 90~135VAC at ~50/60Hz | 12V | 80W | Load at least 60% labeled load | Yes | Yes | in. | in. | in. | See Driver Specification Sheet for Deration Curves. |
| **PoE (Power over Ethernet)** Constant voltage platform, ready for Power over Ethernet (inquire) | | | | | | | | | | |

## RECOMMENDED CONTROLLERS

| SKU | DESCRIPTION |
|---|---|
| **SWITCHEX® Driver and Dimmer Switch** LED driver and dimmer switch combined in a single gang box. | |
| DI-12V-SE-40W | SWITCHEX 12V Switch/Driver Combo - 40W |
| DI-12V-SE-60W | SWITCHEX 12V Switch/Driver Combo - 60W |
| **CASAMBI® Controllers** The CASAMBI controllers will remotely control your lighting through the app - downloadable for IOS & Android. | |
| CBU-A2D | CASAMBI A2D 2 Channel 0-10V/DALI Controller |
| CBU-ASR | CASAMBI ASR 0-10V Controller |
| CBU-PWM4 | CASAMBI PWM4 Single Color Dimming Controller |
| CBU-TED | CASAMBI TED AC High Voltage Controller |

## BLAZE™ X  12V / 24V
## LED Tape Light
Precision-engineered tape light. Up to 350+ lumens per foot with 95+ CRI / 90+ R9.
12 year warranty.

Date

https://www.diodeled.com/blaze-x-led-tape-light.html

Project Notes
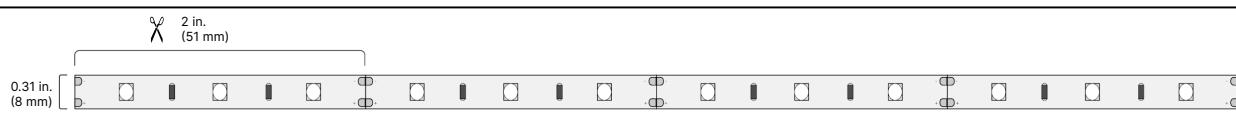
| 12 Year Warranty | IP20 | 12/24 VDC | NEC 410.16.A.3 & 410.10.C.1.3 CLOSET RATED | TITLE 24 |
|---|---|---|---|---|

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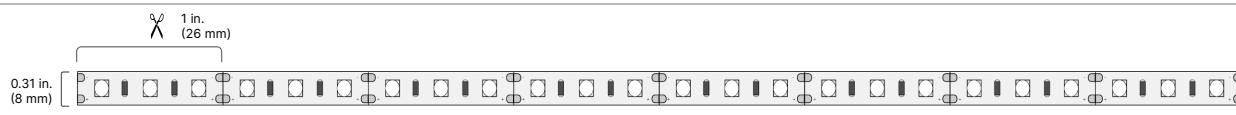
# MECHANICAL DIAGRAMS

**12V-BLX1**



✂ 2 in. (51 mm)
0.31 in. (8 mm)
0.1 in. (3 mm)

**12V-BLX2**
**12V-BLX3**



✂ 1 in. (26 mm)
0.31 in. (8 mm)
0.1 in. (3 mm)

**24V-BLX1**



✂ 4 in. (102 mm)
0.31 in. (8 mm)
0.1 in. (3 mm)

**24V-BLX2**
**24V-BLX3**



✂ 2 in. (51 mm)
0.31 in. (8 mm)
0.1 in. (3 mm)

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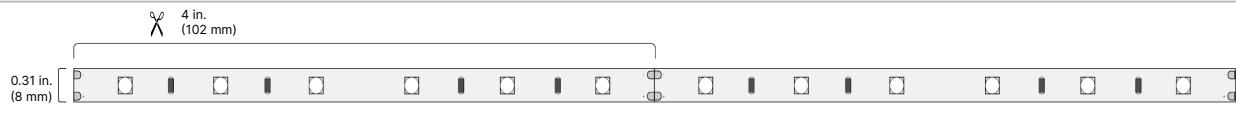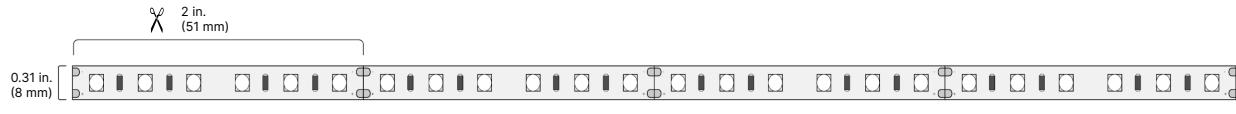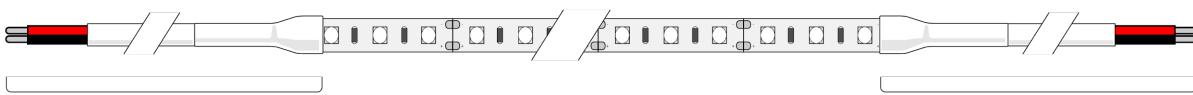
CONNECTIONS



36 in. Bare Lead 20/2 AWG UL 2464 Wire with Strain Relief

36 in. Bare Lead 20/2 AWG UL 2464 Wire with Strain Relief

## BLAZE™ X 12V / 24V
## LED Tape Light

Precision-engineered tape light. Up to 350+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

Date

https://www.diodeled.com/blaze-x-led-tape-light.html

Project Notes
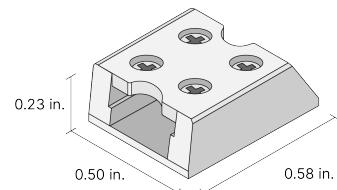
| 12 Year Warranty | IP20 | 12/24 VDC | NEC 410.16.A.3 & 410.10.C.1.3 CLOSET RATED | TITLE 24 |

## ACCESSORIES
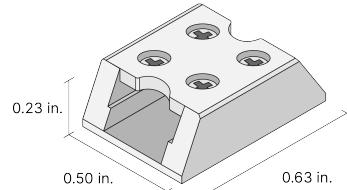
### DI-TB8-CONN-TTW
8mm Tape-to-Wire Connector

0.23 in.
0.50 in.
0.58 in.
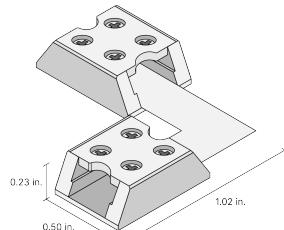
### DI-TB8-CONN-TTT
8mm Tape-to-Tape Connector

0.23 in.
0.50 in.
0.63 in.
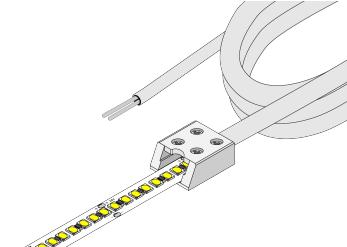
### DI-TB8-90-TTT
8mm 90° Tape-to-Tape Connector

0.23 in.
0.50 in.
1.02 in.
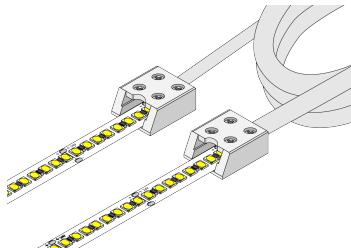
### DI-TB8-60SPL-TTW
Splice Wire (Tape-to-Wire) (60 in.)
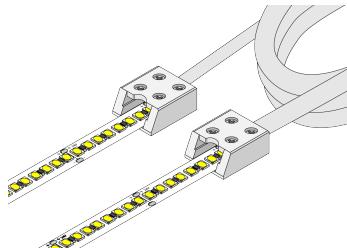
### DI-TB8-6JPR-TTT
Jumper Cable (Tape-to-Tape) (6 in.)

### DI-TB8-60JPR-TTT
Jumper Cable (Tape-to-Tape) (60 in.)

## DELIVERY OPTIONS

- **Field Assembly**
  Stock items for in-field assembly. Fastest order fulfillment.

- **Factory + Field (Hybrid)**
  Finished lengths of light with leads. CHANNELS either bulk or factory finished. Some field assembly required.

- **Factory Assembly**
  Fastest installation: fixtures fully assembled in the factory.

---

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

- 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.

- 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.

- 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.

- Operating temperature is measured according to the minimum and maximum ambient temperature environment.

# BLAZE™ X  12V / 24V
# LED Tape Light

Precision-engineered tape light. Up to 350+ lumens per foot with 95+ CRI / 90+ R9.
12 year warranty.

Date

https://www.diodeled.com/blaze-x-led-tape-light.html

Project Notes

| | | | | |
|---|---|---|---|---|
| **12** Year Warranty | **IP20** | **12/24** VDC | **NEC** CLOSET RATED | **TITLE 24** |

## CERTIFICATIONS

### Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.

- UL Listed Field Cuttable.

- UL Recognized Component - Sign Accessories. Available in UL Sign Components Manual (SAM Manual). File # E469770.

- CE & EMC Compliant: Verification No. GZEM141200683705V

- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

### Environmental

- RoHS Compliant: Verification No. CANEC1610091501

### Performance

- Can be used to comply with TITLE 24 Part 6 High Efficacy Lighting LED requirements - JA8-2016-2022-E

- 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.

### 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 use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.

4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

5. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.

6. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.

7. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.

8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings

9. 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.

10. Do not modify product beyond instructions or warranty will be void.

11. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

12. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.

13. 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

- 12 Years

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 a 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 purchase 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.

Specification Sheet │ BLAZE™ X LED Tape Light │ SS5112023 │ 4.5
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