

## BLAZE™ 12V and 24V LED Tape Light

Performance and value for everyday projects.

Our most popular tape light, available in a wide range of color temperatures and outputs.

Date \_\_\_\_\_

<https://www.diodeled.com/blaze-basics-led-tape-light.html>

Project Notes \_\_\_\_\_


**12/24**  
VDC

**TITLE**  
**24**

### FEATURES

- 90+ CRI
- 12V and 24V
- Can comply with Title 24 Part 6 JA8 requirements
- Precision color rendering with 90+ R9 value
- 100/200/300 lumen outputs
- 3M™ adhesive backing
- 7 Year limited warranty



### ORDERING CODES

Order spools, and components for field assembly

### OPTIONAL ORDERING CODES

Add Length, Assembly Preferences, and Finish

	Voltage	Model	CCT	Length	Channels			Finish	Mounting		Driver	Delivery
DI												
	12V	BLBSC1	20 (2000K)	40 (4000K)	016 (16.4 feet)	S1 (S1)	16 (16mm Square)	SO (Square)	RD (Rod)	AL (Aluminum)	3M (3M Adhesive)	VC (Vertical Clip)
	24V	BLBSC2	27 (2700K)	50 (5000K)	100 (100 feet)	S2 (S2)	RC20 (20mm Round)	45 (45°)	MI1 (1-inch Mud-In)	BL (Black)	MC (Mounting Clip)	HNG (Hanging Hardware)
		BLBSC3	30 (3000K)	63 (6300K)	400 (400 feet)	S45 (S45)	SQ20 (20mm Square)	45DCO (45° Deco)	MI2 (2-inch Mud-In)	WH (White)	UC (U-Clip)	RC (Rotating Clip)
			35 (3500K)			SL (Slim)	RC10 (10mm Round)	90 (90° Sideview)	REC (Recessed)		LUT (Lutron)	ELV (Electronic)
					CA (Canal)	SQ10 (10mm Square)	REF (Reflector)	SLR (Slim Recessed)		O/O (On / Off)	PoE (Power over Ethernet)	MAG (MLV)
												Field Assembly
												Factory + Field (Hybrid)
												Factory Assembly

### 24V BLAZE™ - SPECIFICATION TABLE

Models	12V-BLBSC1	12V-BLBSC2	24V-BLBSC1	24V-BLBSC2	24V-BLBSC3
<b>Voltage</b>	<b>12VDC</b>	<b>12VDC</b>	<b>24VDC</b>	<b>24VDC</b>	<b>24VDC</b>
<b>Wattage</b>	<b>1.46W/ft.</b>	<b>2.93W/ft.</b>	<b>1.46W/ft.</b>	<b>2.93W/ft.</b>	<b>4.5W/ft.</b>
2000K	-	-	-	-	290 Lm/ft.
2700K	117 Lm/ft.	212 Lm/ft.	113 Lm/ft.	233 Lm/ft.	338 Lm/ft.
3000K	121 Lm/ft.	221 Lm/ft.	117 Lm/ft.	237 Lm/ft.	344 Lm/ft.
Lumens	3500K	117 Lm/ft.	236 Lm/ft.	126 Lm/ft.	249 Lm/ft.
	4000K	129 Lm/ft.	249 Lm/ft.	131 Lm/ft.	260 Lm/ft.
	5000K	130 Lm/ft.	256 Lm/ft.	132 Lm/ft.	261 Lm/ft.
	6300K	121 Lm/ft.	272 Lm/ft.	-	276 Lm/ft.
Cut Points	2 in.	1 in.	4 in.	2 in.	2 in.
Max Run (ft.)	27 ft.	20 ft.	55 ft.	40 ft.	22 ft.
Max Run (Class 2)	27 ft.	20 ft.	55 ft.	40 ft.	22 ft.
CRI	90+	90+	90+	90+	90+
Dimensions	0.31 x 0.1 in. (W x H)				
TM-30 (LM-80)	>50,000 hours				
Environment	Indoor / Damp Location (IP20)				
Ambient Temperature	-4 ~ 122°F (-20 ~ 50°C)				
Operating Temperature	-4 ~ 176°F (-20 ~ 80°C)				
LED Chips	18/ft.	36/ft.	18/ft.	36/ft.	36/ft.
Chip Type	2835	2835	2835	2835	2835
Certification	UL Listed 2108				
Warranty	7 Year				

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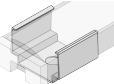
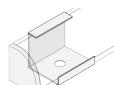
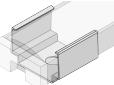
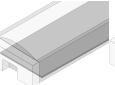
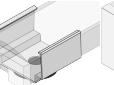


12/24  
VDC



TITLE  
24

### RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS			
<b>S1 Channel</b> DI-CHB-S1  (S1) 48", 96" Aluminum  For 14mm Tape Lights or smaller	Height (H): 0.31 in. Width (W): 0.67 in. Interior Depth (ID): 0.25 in. Interior Width (IW): 0.58 in.	48 in. channel & frosted cover 2x surface mounting clips End caps: 1x open, 1x closed.	8mm Tape Light: Soldered Lead Only		<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	 U-Clip: 0.32 × 0.68 in. (H x W)			
<b>S2 Channel</b> DI-CHB-S2  (S2) 48", 96" Aluminum  For 14mm Tape Lights or smaller	Height (H): 0.57 in. Width (W): 0.74 in. Interior Depth (ID): 0.34 in. Interior Width (IW): 0.63 in.	48 in. Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws  96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	8mm Terminal Block Compatible		<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	 U-Clip: 0.58 × 0.75 in. (H x W)			
<b>S45 Channel</b> DI-CHB-S45  (S45) 48", 96" Aluminum  For 14mm Tape Lights or smaller	Height (H): 0.78 in. Width (W): 0.78 in. Interior Depth (ID): 0.54 in. Interior Width (IW): 0.6 in.	48 in. Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws  96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	8mm Terminal Block Compatible		<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	 U-Clip: 0.79 × 0.79 in. (H x W)			
<b>Slim Channel</b> DI-CPCHB-SL  (SL) 48", 96" Aluminum, White, Black  For 14mm Tape Lights or smaller	Height (H): 0.38 in. Width (W): 0.62 in. Interior Depth (ID): 0.3 in. Interior Width (IW): 0.67 in.	48" Aluminum, Black, & White Channels • 48 in. channel & lens • 2x surface mounting clips • End caps: 1x open, 1x closed  96" Aluminum, Black, & White Channels • 96 in. channel & lens • 4x surface mounting clips • End caps: 2x open, 2x closed	8mm Tape Light: Soldered Lead Only		<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Architectural Clear Lens</li> <li>Light Loss: 10%</li> <li>CCT Shift: -20K</li> <li>Architectural Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -35K</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>Black Lens</li> <li>Light Loss: 90%</li> <li>CCT Shift: -350K</li> <li>Premium Diffusion Lens</li> <li>Light Loss: 10%</li> <li>CCT Shift: -30K</li> <li>For diffusion options not listed, refer to Slim Channel Specification Sheet.</li> <li>IP Rating Shift: IP40</li> </ul>	 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)

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12/24  
VDC



TITLE  
24

### RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
<b>Canal Channel</b> 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" Aluminum, Black, & White Channels • 48 in. channel & opal lens • 2x surface mounting clips • End caps: 1x open, 1x closed.  96" Aluminum, Black, & White Channels • 96 in. channel & opal lens • 4x surface mounting clips • End caps: 2x open, 2x closed.		<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Opal Lens</li> <li>Light Loss: 55%</li> <li>CCT Shift: -200K</li> <li>IP Rating Shift: IP40</li> </ul>	
<b>16mm Square Channel</b> DI-CPCHB-16MM (16) 48", 96" Aluminum For 14mm Tape Lights or smaller		Height (H): 0.89 in. Width (W): 0.77 in. Interior Width (IW): 0.63 in.	48 in. channel & Architectural Frosted Lens 2x surface mounting clips End caps: 1x open, 1x closed.  96 in. channel & Architectural Frosted Lens 4x surface mounting clips End caps: 2x open, 2x closed.		<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Architectural Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -35K</li> <li>Black Lens</li> <li>Light Loss: 90%</li> <li>CCT Shift: -350K</li> <li>IP Rating Shift: IP40</li> </ul>	
<b>20mm Round Channel</b> DI-CPCHB-RC20 (RC20) 48", 96" Aluminum For 14mm Tape Lights or smaller		Height (H): 1.18 in. Width (W): 1.18 in. Interior Width (IW): 0.84 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed.  96 in. channel & frosted lens 4x surface mounting clips End caps: 2x open, 2x closed.		<ul style="list-style-type: none"> <li>Beam Angle: 180°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	
<b>20mm Square Channel</b> DI-CPCHB-SQC20 (SQ20) 48", 96" Aluminum For 14mm Tape Lights or smaller		Height (H): 1.18 in. Width (W): 1.18 in. Interior Width (IW): 0.84 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed.  96 in. channel & frosted lens 4x surface mounting clips End caps: 2x open, 2x closed.		<ul style="list-style-type: none"> <li>Beam Angle: 180°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	

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MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS			
<b>10mm Round Channel</b> 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 Compatible	Classic Frosted Lens BLBSC1: Runway Diffusion BLBSC2, BLBSC3: Semi-Diffused	<ul style="list-style-type: none"> <li>Beam Angle: 180°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	 U-Clip: 0.64 × 0.64 in. (H x W)			
<b>10mm Square Channel</b> 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 & frosted cover Mounting hardware End caps: 2x open, 2x closed.	8mm Terminal Block Compatible	Classic Frosted Lens BLBSC1: Runway Diffusion BLBSC2, BLBSC3: Semi-Diffused	<ul style="list-style-type: none"> <li>Beam Angle: 180°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	 U-Clip: 0.64 × 0.64 in. (H x W)			
<b>Square Channel</b> DI-CPCHB-SQ (SQ) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.55 in. Width (W): 0.62 in. Interior Depth (ID): 0.27 in. Interior Width (IW): 0.67 in. 	48" Aluminum Channel • 48 in. channel & frosted cover • Mounting hardware • End caps: 1x open, 1x closed. 48" Black & White Channels • 48 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects 96" Aluminum Channel • 96 in. channel & frosted cover • Mounting hardware • End caps: 2x open, 2x closed. 96" Black & White Channels • 96 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects	8mm Tape Light: Soldered Lead Only  Architectural Frosted Lens BLBSC1, BLBSC2, BLBSC3: Runway Diffusion  Premium Diffusion Lens BLBSC1, BLBSC2, BLBSC3: Dotless	For diffusion options not listed, refer to Square Channel Specification Sheet.	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Architectural Clear Lens</li> <li>Light Loss: 10%</li> <li>CCT Shift: -20K</li> <li>Architectural Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -35K</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>Black Lens</li> <li>Light Loss: 90%</li> <li>CCT Shift: -350K</li> <li>Premium Diffusion Lens</li> <li>Light Loss: 10%</li> <li>CCT Shift: -30K</li> <li>IP Rating Shift: IP40</li> </ul>	 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)
<b>45° Channel</b> 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" Aluminum, Black, & White Channels • 48 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects 96" Aluminum Channel • 96 in. channel & clear, or frosted lens • 8x surface mounted clips • 4x End-to-end interconnects 96" Black & White Channels • 96 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects	8mm Tape Light: Soldered Lead Only  Architectural Frosted Lens BLBSC1, BLBSC2, BLBSC3: Runway Diffusion  Premium Diffusion Lens BLBSC1, BLBSC2, BLBSC3: Dotless	For diffusion options not listed, refer to 45° Channel Specification Sheet.	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Architectural Clear Lens</li> <li>Light Loss: 10%</li> <li>CCT Shift: -20K</li> <li>Architectural Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -35K</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>Black Lens</li> <li>Light Loss: 90%</li> <li>CCT Shift: -350K</li> <li>Premium Diffusion Lens</li> <li>Light Loss: 10%</li> <li>CCT Shift: -30K</li> <li>IP Rating Shift: IP40</li> </ul>	 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)

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<b>45° Deco Channel</b> 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. For 10mm Tape Lights or smaller	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.		• Beam Angle: 120° • Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	
<b>90° Sideview Channel</b> 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. For 12mm Tape Lights or smaller	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.		• Beam Angle: 120° • Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	
<b>Reflector Channel</b> DI-CPCHB-RFCTR (REF) 48", 96" Aluminum For 12mm Tape Lights or smaller		Height (H): 2.75 in. Width (W): 0.95 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. For 12mm Tape Lights or smaller	48 in. channel & frosted cover End caps: 1x open, 1x closed.  96 in. channel & frosted cover End caps: 1x open, 1x closed.		• Beam Angle: 120° • Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	
<b>Rod Channel</b> DI-CPCHB-RDCL (ROD) 48", 96" Aluminum For 12mm Tape Lights or smaller		Height (H): 0.85 in. Width (W): 0.85 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 4x 180° swivel brackets 2x Closet Mounting Brackets 2x Support Brackets		• Beam Angle: 180° • Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	

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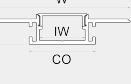
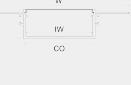


12/24  
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24

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MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
<b>1-inch Mud-In Channel</b> 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 Compatible	Opal Lens BLBSC1: Semi-Diffused BLBSC2, BLBSC3: Dotless	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Opal Lens</li> <li>Light Loss: 55%</li> <li>CCT Shift: -200K</li> <li>IP Rating Shift: IP40</li> </ul>	  <p>Recessed Mount: 0.54 × 2.42 in. (H x W)</p>
<b>2-inch Mud-In Channel</b> DI-CPCHB-MUD2  (MI2) 48", 96" Aluminum  For 14mm Tape Lights or smaller	Height (H): 0.8 in. Width (W): 3.86 in. Interior Width (IW): 1.84 in. Cut Out Width (CO): 1.97 in.	96 in. channel & opal lens 2x surface mounting clips End caps: 2x open, 2x closed.	8mm Terminal Block Compatible	Opal Lens BLBSC1: Semi-Diffused BLBSC2, BLBSC3: Dotless	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Opal Lens</li> <li>Light Loss: 55%</li> <li>CCT Shift: -200K</li> <li>IP Rating Shift: IP40</li> </ul>	  <p>Recessed Mount: 0.8 × 3.86 in. (H x W)</p>
<b>Recessed Channel</b> DI-CPCHB-REC  (REC) 48", 96" Aluminum  For 14mm Tape Lights or smaller	Height (H): 1.03 in. Width (W): 0.59 in. Interior Depth (ID): 0.42 in. Interior Width (IW): 0.59 in. Cut Out Width (CO): 0.74 in. Recessed Wing (RW): 0.15 in.	48 in. channel & frosted lens 2x surface mounted clips end caps: 1x open, 1x closed  96 in. channel & frosted lens 4x surface mounted clips end caps: 2x open, 2x closed.	8mm Terminal Block Compatible	Classic Frosted Lens BLBSC1: Semi-Diffused BLBSC2, BLBSC3: Dotless	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	  <p>3M Adhesive: 0.59 × 1.03 in. (H x W)      Recessed Mount: 0.49 × 1.03 in. (H x W)</p>
<b>Slim Recessed Channel</b> DI-CPCHB-SLR  (SLR) 48", 96" Aluminum  For 10mm Tape Lights or smaller	Height (H): 0.38 in. Width (W): 0.65 in. Interior Depth (ID): 0.43 in. Interior Width (IW): 0.49 in. Cut Out Width (CO): 0.49 in. Recessed Wing (RW): 0.08 in.	48 in. channel & frosted lens End caps: 1x open square, 1x open round, 1x closed square  96 in. channel & frosted lens End caps: 1x open square, 1x open round, 1x closed square.	8mm Tape Light: Soldered Lead Only	Classic Frosted Lens BLBSC1: Semi-Diffused BLBSC2, BLBSC3: Dotless	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Classic Frosted Lens</li> <li>Light Loss: 20%</li> <li>CCT Shift: -40K</li> <li>IP Rating Shift: IP40</li> </ul>	  <p>Recessed Mount: 0.38 × 0.65 in. (H x W)</p>

### BLAZE™ 12V and 24V LED Tape Light

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Project Notes \_\_\_\_\_



12/24  
VDC



TITLE  
24

### RECOMMENDED 24V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
<b>OMNIDRIVE® BASICS Electronic Dimmable Driver</b>									
Compact electronic dimmable (ELV) driver for everyday projects.									
DI-ODBELV-24V60W-LPELV	120V AC 50/60Hz, 0.5A	24V	60W	No minimum load	Yes	Yes	5.5 in.	4.7 in.	0.96 in.
DI-ODBELV-24V60W	120V AC 50/60Hz, 0.5A	24V	60W	No minimum load	Yes	Yes	4.2 in.	1.75 in.	0.96 in.
DI-ODBELV-24V96W-LPS	120V AC 50/60Hz, 0.83A	24V	96W	No minimum load	Yes	Yes	11.25 in.	3.75 in.	1.9 in.
DI-ODBELV-24V96W	120V AC 50/60Hz, 0.83A	24V	96W	No minimum load	Yes	Yes	4.37 in.	1.5 in.	2.19 in.
<b>OMNIDRIVE® X Dimmable Driver</b>									
Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems.									
DI-ODX-24V30W-J	120-277V	24V	30W	No minimum load	Yes	Yes	6.5 in.	3.7 in.	1.57 in.
DI-ODX-24V60W-J	120-277V	24V	60W	No minimum load	Yes	Yes	7.4 in.	3.7 in.	1.57 in.
DI-ODX-24V96W-J	120-277V	24V	96W	No minimum load	Yes	Yes	8.66 in.	3.7 in.	1.57 in.
<b>OMNIDRIVE® Electronic Dimmable Driver</b>									
Our classic electronic dimmable (ELV) driver. Superior dimming and wide compatibility with popular dimmers.									
DI-TD-24V-45W-LPS3R	90~135VAC at ~50/60Hz	24V	45W	Load at least 60% labeled load	Yes	Yes	10.79 in.	7.34 in.	2.36 in.
DI-TD-24V-60W-LPS3R	90 ~ 135VAC 50/60Hz	24V	60W	Load at least 60% labeled load	Yes	Yes. Not compatible with PWM controls.	10.79 in.	7.34 in.	2.36 in.
<b>PoE (Power over Ethernet)</b>									
Constant voltage platform, ready for Power over Ethernet (inquire)									

### RECOMMENDED CONTROLLERS

SKU	DESCRIPTION
<b>CASAMBI® Controllers</b>	
The CASAMBI controllers will remotely control your lighting through the app - downloadable for iOS & Android.	
CBU-PWM4	CASAMBI PWM4 Single Color Dimming Controller
CBU-A2D	CASAMBI A2D 2 Channel 0-10V/DALI Controller
CBU-ASR	CASAMBI ASR 0-10V Controller
CBU-TED	CASAMBI TED AC High Voltage Controller
<b>SWITCHEX® Driver and Dimmer Switch</b>	
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



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Project Notes \_\_\_\_\_



TITLE  
**24**

### RECOMMENDED 12V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
<b>OMNIDRIVE® X Dimmable Driver</b>									
Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems.									
DI-ODX-12V30W-J	120-277V	12V	30W	No minimum load	Yes	Yes	6.5 in.	3.7 in.	1.57 in.
DI-ODX-12V60W-J	120-277V	12V	60W	No minimum load	Yes	Yes	7.4 in.	3.7 in.	1.57 in.
DI-ODX-12V100W-J	120-277V	12V	100W	No minimum load	No	Yes	8.66 in.	3.7 in.	1.57 in.
DI-ODX-12V120W-J	120-277V	12V	120W	No minimum load	No	Yes	8.66 in.	3.7 in.	1.57 in.
<b>OMNIDRIVE® X Dimmable Driver</b>									
Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems.									
DI-ODX-12V30W-J	120-277V	12V	30W	No minimum load	Yes	Yes	6.5 in.	3.7 in.	1.57 in.
DI-ODX-12V60W-J	120-277V	12V	60W	No minimum load	Yes	Yes	7.4 in.	3.7 in.	1.57 in.
DI-ODX-12V100W-J	120-277V	12V	100W	No minimum load	No	Yes	8.66 in.	3.7 in.	1.57 in.
<b>OMNIDRIVE® BASICS Electronic Dimmable Driver</b>									
Compact electronic dimmable (ELV) driver for everyday projects.									
DI-ODBELV-12V60W-LPELV	120V AC 50/60Hz, 0.5A	12V	60W	No minimum load	Yes	Yes	5.5 in.	4.7 in.	0.96 in.
DI-ODBELV-12V60W	120V AC 50/60Hz, 0.5A	12V	60W	No minimum load	Yes	Yes	4.2 in.	1.75 in.	0.96 in.
<b>PoE (Power over Ethernet)</b>									
Constant voltage platform, ready for Power over Ethernet (inquire)									

### RECOMMENDED CONTROLLERS

SKU	DESCRIPTION
<b>CASAMBI® Controllers</b>	
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CBU-PWM4	CASAMBI PWM4 Single Color Dimming Controller
CBU-A2D	CASAMBI A2D 2 Channel 0-10V/DALI Controller
CBU-ASR	CASAMBI ASR 0-10V Controller
CBU-TED	CASAMBI TED AC High Voltage Controller
<b>SWITCHEX® Driver and Dimmer Switch</b>	
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



## BLAZE™ 12V and 24V LED Tape Light

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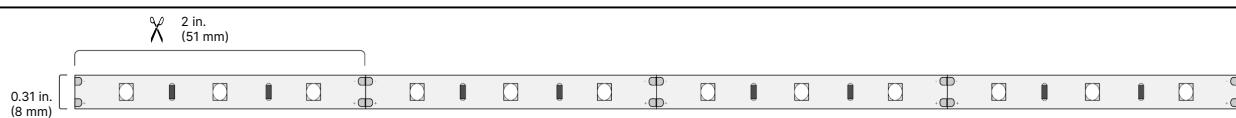
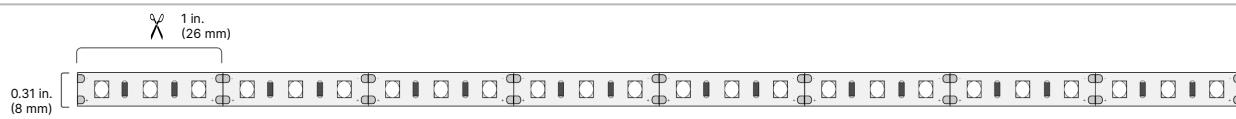
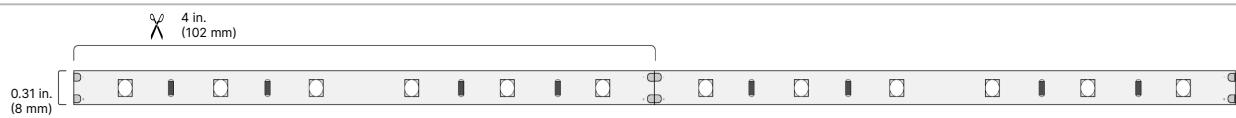
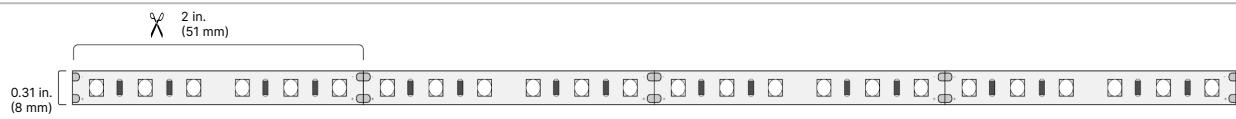
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Project Notes \_\_\_\_\_

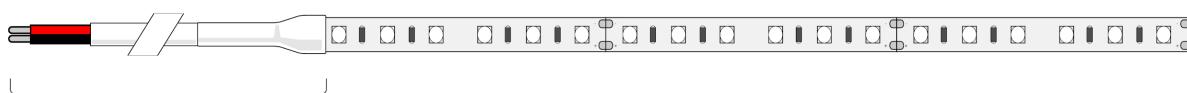

**12/24**  
VDC

**TITLE**  
**24**

### MECHANICAL DIAGRAMS

**12V-BLBSC1**

**12V-BLBSC2**

**24V-BLBSC1**

**24V-BLBSC2**


### CONNECTIONS



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

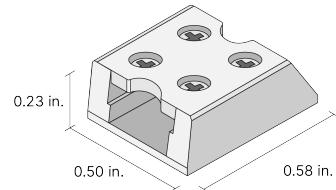
### BLAZE™ 12V and 24V LED Tape Light

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### ACCESSORIES

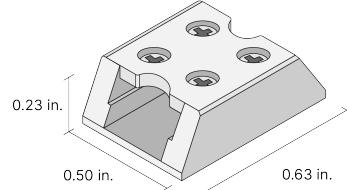
**DI-TB8-CONN-TTW**

8mm Tape-to-Wire Connector



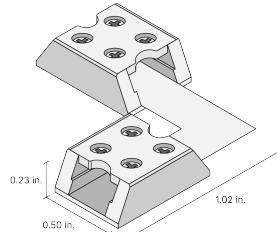
**DI-TB8-CONN-TTT**

8mm Tape-to-Tape Connector



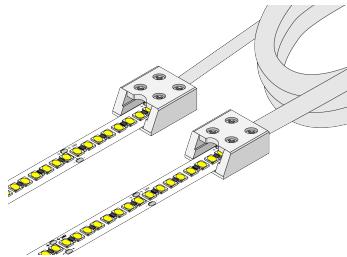
**DI-TB8-90-TTT**

8mm 90° Tape-to-Tape Connector



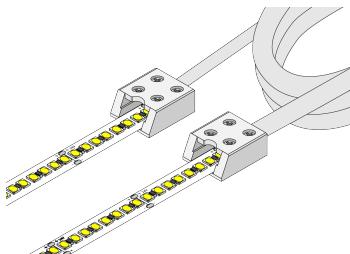
**DI-TB8-6JPR-TTT**

Jumper Cable (Tape-to-Tape) (6 in.)



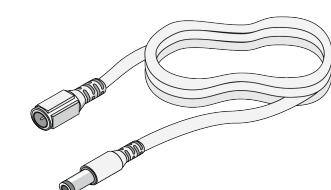
**DI-TB8-60JPR-TTT**

Jumper Cable (Tape-to-Tape) (60 in.)



**DI-0708**

DC Extension Cable - White, 39 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.

Date \_\_\_\_\_

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Project Notes \_\_\_\_\_



**12/24**  
VDC



**TITLE**  
**24**



- 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™ 12V and 24V LED Tape Light

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### 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

#### Environment

- 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

- Install in accordance with national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 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.
- 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.
- Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- 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.
- Do not modify product beyond instructions or warranty will be void.
- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- 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.

Date \_\_\_\_\_

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Project Notes \_\_\_\_\_



12/24  
VDC



TITLE  
24

### WARRANTY

#### Limited Warranty

- 7 Year limited warranty

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/](http://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 field 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.