VALENT® X 24V
High Density LED Tape Light

Precision-engineered, high density tape light for demanding applications.
Up to 900+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

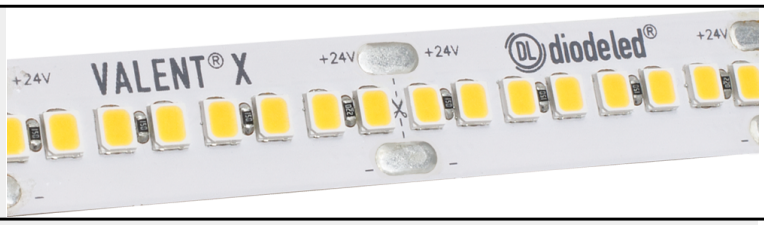
Date

Project Notes

12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

FEATURES

- Dense LED placement for uninterrupted linear light
- 100/200/300/500/800 lumen outputs
- 95+ CRI
- 1.32 inch cuttable increments
- Precision color rendering with 90+ R9 value
- Channel (extrusion) not required for heat sink
- 12 Year limited warranty



ORDERING CODES

Order spools, and components for field assembly

	Voltage	Model	CCT		Length	Channels				Finish	Lens	Mounting	Driver		Delivery
DI															
	24V (24V Volt)	VLX1	20 (2000K)	35 (3500K)	016 (16.4 feet)	A1 (A1)	S45 (S45)	SQ (Square)	REC (Recessed)	AL (Aluminum)	*blank* (Classic Frosted Lens)	3M (3M Adhesive)	ELV (Electronic)	O/O (On / Off)	Field Assembly
		VLX2	22 (2200K)	40 (4000K)	100 (100 feet)	A2 (A2)	16 (16mm Square)	45 (45°)	ROD (Rod)	BL (Black)	AFS (Arch. Frosted Satin Lens)	MC (Mounting Clip)	VLM (Constant Voltage)	SWX (Switchex)	Factory + Field (Hybrid)
		VLX3	24 (2400K)	50 (5000K)		A3 (A3)	RC20 (20mm Round)	45DCO (45° Deco)	MI1 (1-inch Mud-In)	WH (White)	BL (Black Lens)	UC (U-Clip)	010 (0-10V)	PoE (Power over Ethernet)	Factory Assembly
		VLX5	27 (2700K)	63 (6300K)		S1 (S1)	SQ20 (20mm Square)	90 (90° Sideview)	MI2 (2-inch Mud-In)		CLT (Arch. Clear Lens)	VC (Vertical Clip)	LUT (Lutron)		
		VLX8	30 (3000K)			S2 (S2)	SL (Slim)	REF (Reflector)			FRT (Arch. Frosted Lens)	HNG (Hanging Hardware)			
						See page 2 for Channel / Lens / Mounting compatibility					OPT (Opal Lens)	RC (Rotating Clip)			
											PD (Prem. Diffusion Lens)				

OPTIONAL ORDERING CODES

Add Assembly Preferences, Finish, Lens, Mounting, Driver, and Delivery

VALENT® X - SPECIFICATION TABLE

Models	24V-VLX1	24V-VLX2	24V-VLX3	24V-VLX5	24V-VLX8
Voltage	**24VDC**	**24VDC**	**24VDC**	**24VDC**	**24VDC**
Wattage	**1W/ft.**	**1.9W/ft.**	**2.8W/ft.**	**4.6W/ft.**	**7.2W/ft.**
2000K	104 Lm/ft.	194 Lm/ft.	299 Lm/ft.	-	-
2200K	104 Lm/ft.	194 Lm/ft.	299 Lm/ft.	-	-
2400K	104 Lm/ft.	194 Lm/ft.	299 Lm/ft.	469 Lm/ft.	730 Lm/ft.
2700K	101 Lm/ft.	207 Lm/ft.	311 Lm/ft.	495 Lm/ft.	782 Lm/ft.
Lumens 3000K	106 Lm/ft.	218 Lm/ft.	323 Lm/ft.	557 Lm/ft.	853 Lm/ft.
3500K	108 Lm/ft.	218 Lm/ft.	328 Lm/ft.	586 Lm/ft.	906 Lm/ft.
4000K	112 Lm/ft.	228 Lm/ft.	342 Lm/ft.	534 Lm/ft.	806 Lm/ft.
5000K	116 Lm/ft.	242 Lm/ft.	365 Lm/ft.	592 Lm/ft.	840 Lm/ft.
6300K	112 Lm/ft.	244 Lm/ft.	363 Lm/ft.	578 Lm/ft.	924 Lm/ft.
Cut Points	1.32 in.	1.32 in.	1.32 in.	1.32 in.	1.32 in.
Max Run (ft.)	80 ft.	53 ft.	41 ft.	30 ft.	19 ft.
CRI	95+	95+	95+	95+	95+
Dimensions	0.47 × 0.1 in. (W x H) Connector Size: 12mm	0.47 × 0.1 in. (W x H) Connector Size: 12mm	0.47 × 0.1 in. (W x H) Connector Size: 12mm	0.47 × 0.1 in. (W x H) Connector Size: 12mm	0.47 × 0.1 in. (W x H) Connector Size: 12mm
TM-21 (LM-80)	>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)
LED Chips	72/ft.	72/ft.	72/ft.	72/ft.	72/ft.
Chip Type	2835	2835	2835	2835	2835
Certification	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

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CHANNEL / LENS / MOUNTING COMPATIBILITY

Channel	Compatible Lenses	Available Finishes	Mounting Options
A1 (A1)	FRT	AL / WH / BL	UC
A2 (A2)	CLT / FRT / AFS	AL / WH / BL	UC
A3 (A3)	CLT / FRT / AFS	AL / WH / BL	UC
S1 (S1)	*blank*	AL	UC
S2 (S2)	*blank*	AL	UC
S45 (S45)	*blank*	AL	UC
16 (16mm Square)	FRT	AL	MC
RC20 (20mm Round)	*blank*	AL	UC
SQ20 (20mm Square)	*blank*	AL	UC
SL (Slim)	*blank* / CLT / FRT / BL / PD	AL / WH / BL	MC / 3M / MAG
SQ (Square)	*blank* / CLT / FRT / BL / PD	AL / WH / BL	MC / VC / RC / HNG
45 (45°)	*blank* / CLT / FRT / BL / PD	AL / WH / BL	MC / VC / RC / HNG
45DCO (45° Deco)	*blank*	AL	MC
90 (90° Sideview)	*blank*	AL	MC
REF (Reflector)	*blank*	AL	
REC (Recessed)	*blank*	AL	3M
ROD (Rod)	*blank*	AL	RC / CLO / ART / ARM
MI1 (1-inch Mud-In)	OPT	AL	
MI2 (2-inch Mud-In)	OPT	AL	

LEGEND

Lens	
blank	Classic Frosted Lens
AFS	Architectural Frosted Satin Lens
BL	Black Lens
CLT	Architectural Clear Lens
FRT	Architectural Frosted Lens
OPT	Opal Lens
PD	Premium Diffusion Lens

Finish	
AL	Aluminum
WH	White
BL	Black

Mounting	
3M	3M Adhesive
ARM	Wall Arm
ART	Art Lighting Arm
CLO	Closet Mount
HNG	Hanging Hardware
MAG	Magnetic Clip
MC	Mounting Clip
RC	Rotating Clip
UC	U-Clip
VC	Vertical Clip

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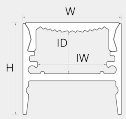
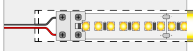
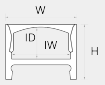
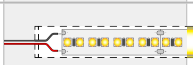
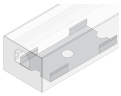
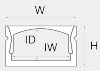
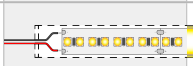
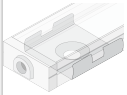
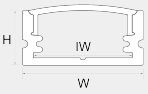
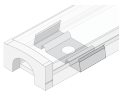
RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
A1 Channel DI-CHB-A1 (A1) 48", 90" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.81 in. Width (W): 0.87 in. Interior Depth (ID): 0.45 in. Interior Width (IW): 0.79 in. 	48" Aluminum, Black, & White Channels • 48 in. channel & lens • 2x surface mounting clips • 1 retaining clip • End caps: 1x open, 1x closed. 90" Aluminum, Black, & White Channels • 90 in. channel & lens • 4x surface mounting clips • 2x strain relief clip • End caps: 2x open, 2x closed, 2x slotted	 12mm Terminal Block Compatible	 Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120º Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K • IP Rating Shift: IP40	 U-Clip: 0.82 × 0.88 in. (H x W)
A2 Channel DI-CHB-A2 (A2) 48", 96" Aluminum, White, Black For 12mm Tape Lights or smaller	Height (H): 0.55 in. Width (W): 0.63 in. Interior Depth (ID): 0.33 in. Interior Width (IW): 0.49 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.	 12mm Tape Light: Soldered Lead Only	 Architectural Frosted Satin Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless For diffusion options not listed, refer to A2 Channel Specification Sheet.	• Beam Angle: 120º Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Architectural Frosted Satin Lens • Light Loss: 45% • CCT Shift: -80K • IP Rating Shift: IP40	 U-Clip: 0.56 × 0.64 in. (H x W)
A3 Channel DI-CHB-A3 (A3) 48", 96" Aluminum, White, Black For 12mm Tape Lights or smaller	Height (H): 0.39 in. Width (W): 0.63 in. Interior Depth (ID): 0.33 in. Interior Width (IW): 0.49 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.	 12mm Tape Light: Soldered Lead Only	 Architectural Frosted Satin Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless For diffusion options not listed, refer to A3 Channel Specification Sheet.	• Beam Angle: 120º Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Architectural Frosted Satin Lens • Light Loss: 45% • CCT Shift: -80K • IP Rating Shift: IP40	 U-Clip: 0.4 × 0.64 in. (H x W)
S1 Channel DI-CHB-S1 (S1) 48", 90" 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.	 12mm Tape Light: Soldered Lead Only	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 U-Clip: 0.32 × 0.68 in. (H x W)

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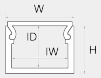
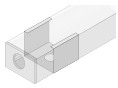
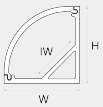
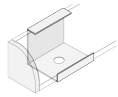
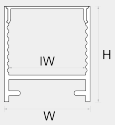
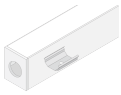
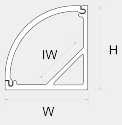
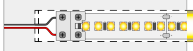
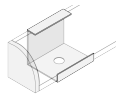
RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
S2 Channel 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	 12mm Terminal Block Compatible	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 U-Clip: 0.58 × 0.75 in. (H x W)
S45 Channel 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	 12mm Terminal Block Compatible	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 U-Clip: 0.79 × 0.79 in. (H x W)
16mm Square Channel DI-CPCHB-16MM (16) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.89 in. Width (W): 0.77 in. Interior Depth (ID): 0.58 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.	 12mm Terminal Block Compatible	 Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Black Lens • Light Loss: 90% • CCT Shift: -350K • IP Rating Shift: IP40	 Mounting Clip: 0.89 × 0.77 in. (H x W)
20mm Round Channel DI-CPCHB-RC20 (RC20) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 1.18 in. Width (W): 1.18 in. Interior Depth (ID): 0.84 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.	 12mm Terminal Block Compatible	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 180° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 U-Clip: 1.19 × 1.19 in. (H x W)

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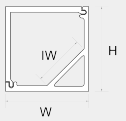
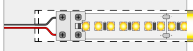
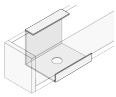
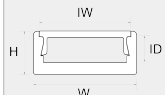
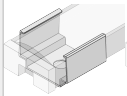
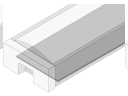
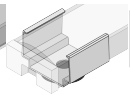
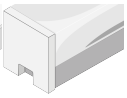
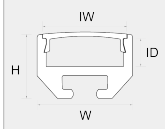
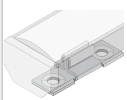
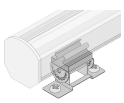
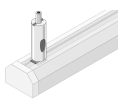
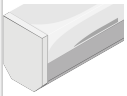
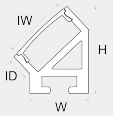
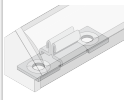
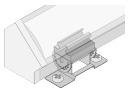
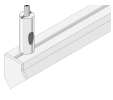
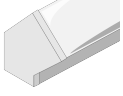
12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
20mm Square Channel DI-CPCHB-SQC20 (SQ20) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 1.18 in. Width (W): 1.18 in. Interior Depth (ID): 0.84 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.	 12mm Terminal Block Compatible	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 180° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 U-Clip: 1.19 × 1.19 in. (H x W)
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" 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	 12mm Terminal Block Compatible	 Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless Premium Diffusion Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless For diffusion options not listed, refer to Slim Channel Specification Sheet.	• Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -350K 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)
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" Aluminum Channel • 48 in. channel & frosted lens • 2x surface mounting clips • 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 lens • 4x surface mounting clips • 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	 12mm Terminal Block Compatible	 Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless Premium Diffusion Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless For diffusion options not listed, refer to Square Channel Specification Sheet.	• Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -350K 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" 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	 12mm Terminal Block Compatible	 Architectural Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless Premium Diffusion Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless For diffusion options not listed, refer to 45° Channel Specification Sheet.	• Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -350K 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)

VALENT® X 24V
High Density LED Tape Light

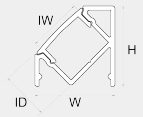
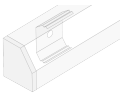
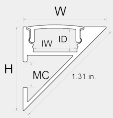
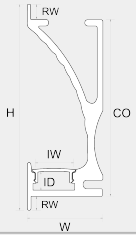
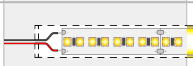
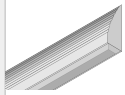
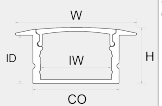
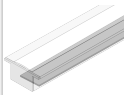
Precision-engineered, high density tape light for demanding applications.
Up to 900+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

Date

Project Notes

12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
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.	 12mm Tape Light: Soldered Lead Only	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 Mounting Clip: 0.73 × 0.73 in. (H x W)
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.	 12mm Tape Light: Soldered Lead Only	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • 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.	 12mm Tape Light: Soldered Lead Only	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 Recessed Mount: 2.75 × 1 in. (H x W)
Recessed Channel DI-CPCHB-REC (REC) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.49 in. Width (W): 1.03 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.	 12mm Terminal Block Compatible	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	 3M Adhesive: 0.59 × 1.03 in. (H x W) Recessed Mount: 0.49 × 1.03 in. (H x W)

VALENT® X 24V
High Density LED Tape Light

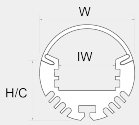
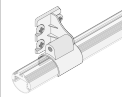
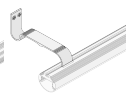
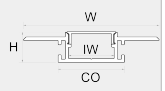
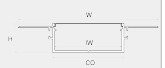
Precision-engineered, high density tape light for demanding applications.
Up to 900+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

Date

Project Notes

12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
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 Depth (ID): 0.5 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	 12mm Tape Light: Soldered Lead Only	 Classic Frosted Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 180° Classic Frosted Lens • Light Loss: 20% • 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 Depth (ID): 0.44 in. Interior Width (IW): 0.81 in. Cut Out Width (CO): 1.19 in. 	96 in. channel & opal lens 2x end-to-end connectors End caps: 2x open, 2x closed.	 12mm Terminal Block Compatible	 Opal Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Opal Lens • Light Loss: 55% • CCT Shift: -200K • IP Rating Shift: IP40	 Recessed Mount: 0.54 × 2.42 in. (H x W)
2-inch Mud-In Channel DI-CPCHB-MUD2 (MI2) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.8 in. Width (W): 3.86 in. Interior Depth (ID): 0.69 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.	 12mm Terminal Block Compatible	 Opal Lens VLX1, VLX2, VLX3, VLX5, VLX8: Dotless	• Beam Angle: 120° Opal Lens • Light Loss: 55% • CCT Shift: -200K • IP Rating Shift: IP40	 Recessed Mount: 0.8 × 3.86 in. (H x W)

VALENT® X 24V

High Density LED Tape Light

Precision-engineered, high density tape light for demanding applications.
Up to 900+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

Date

Project Notes

12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

RECOMMENDED 24V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
OMNIDRIVE® X Dimmable Driver **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.
DI-ODX-24V120W-J	120-277V	24V	120W	No Minimum Load	No	Yes	8.66 in.	3.7 in.	1.57 in.
OMNIDRIVE® Electronic Dimmable Driver **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.
DI-TD-24V-80W-LPS3R	90 ~ 135VAC 50/60Hz	24V	80W	Load at least 60% labeled load	Yes	Yes. Not compatible with PWM controls.	10.79 in.	7.34 in.	2.36 in.
VLM Series Constant Voltage Driver **Compact driver for on/off, PWM dimming, and color-changing applications.**									
VLM60W-24-LPS3R	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	10.79 in.	7.34 in.	2.36 in.
VLM60W-24-LPM	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	8.19 in.	2.94 in.	1.31 in.
PoE (Power over Ethernet) **Constant voltage platform, ready for Power over Ethernet (inquire)**									

OMNIDRIVE® X Dimmable Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf/
Contains: • Additional Models • Additional Features • Derating Curves • System Diagrams

OMNIDRIVE® Electronic Dimmable Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/omnidrive-indoor-electronic-dimmable-driver-specification-sheet.pdf/
Contains: • Additional Models • Additional Features • Derating Curves • System Diagrams

VLM Series Constant Voltage Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20&%20J-Box).pdf/
Contains: • Additional Models • Additional Features • Derating Curves • System Diagrams

RECOMMENDED CONTROLLERS

SKU	DESCRIPTION
CASAMBI® Controllers **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
DI-CBU-PWM5-PRO	Casambi CBU-PWM5-Pro RGB/W/WW Applications, 5 x PWM for constant voltage lights, 4 amps/CH max
DMX Color Control System **DMX Color Control Systems**	
DI-0820	DMX Wireless Transmitter/Receiver– Female
DI-0821	DMX Wireless Transmitter/Receiver– Male

VALENT® X 24V

High Density LED Tape Light

Precision-engineered, high density tape light for demanding applications.
Up to 900+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

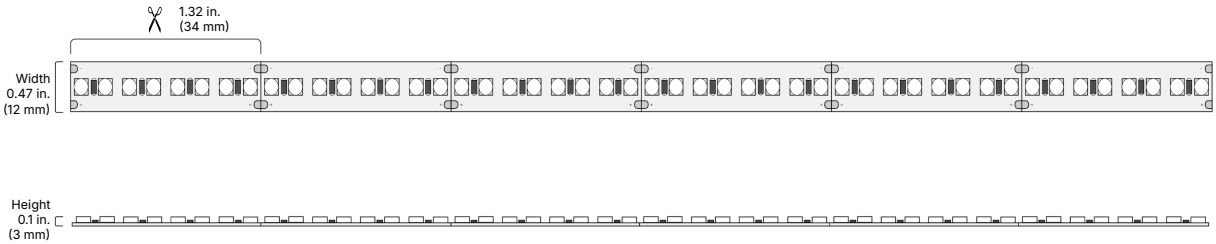
Date

Project Notes

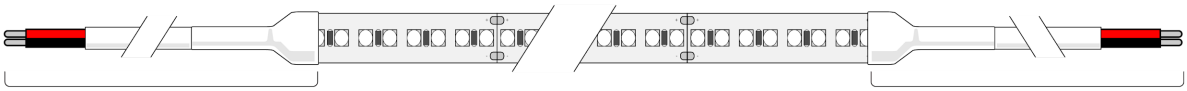
12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

MECHANICAL DIAGRAMS

24V-VLX1
24V-VLX2
24V-VLX3
24V-VLX5
24V-VLX8



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

VALENT® X 24V
High Density LED Tape Light

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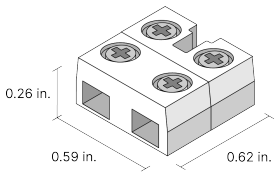
Date

Project Notes

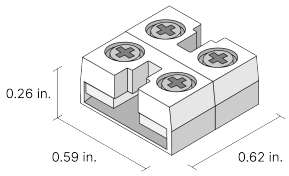
12 Year Warranty | IP20 | 24 VDC | NEC CLOSET RATED | TITLE 24

ACCESSORIES

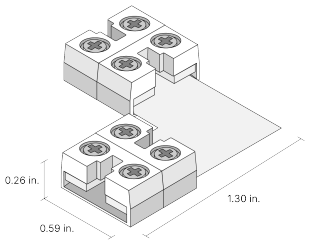
DI-TB12-CONN-TTW
Tape Light Terminal Block Connector, Screw Down, 12mm, Tape-To-Wire - pack of 5



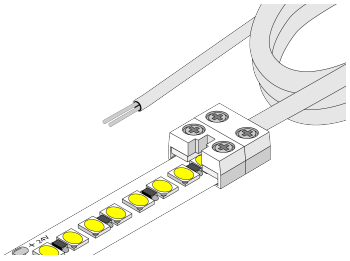
DI-TB12-CONN-TTT
Tape Light Terminal Block Connector, Screw Down, 12mm, Tape-To-Tape - Pack of 1



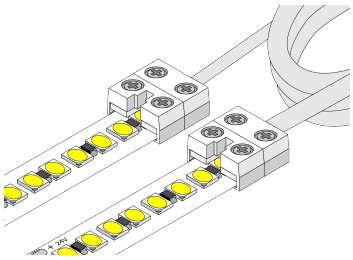
DI-TB12-90-TTT
Tape Light 90 Degree Corner Connector With Attached 12mm Tape-to-Tape Terminal Blocks - Pack of 5



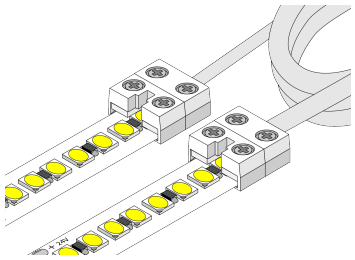
DI-TB12-60SPL-TTW
Tape Light Terminal Block, 12mm, Lead Wire Attached (Tape to Wire), 60 in. 20 AWG Splice Wire, White - Pack



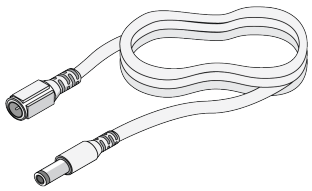
DI-TB12-6JPR-TTT
Tape Light Terminal Block, 12mm, Jumper Cable (Tape to Tape), 6 in. 20 AWG Wire Lead, White - Pack of 1



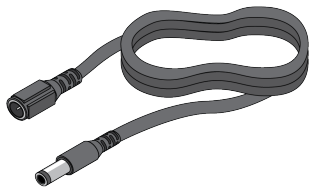
DI-TB12-60JPR-TTT
Tape Light Terminal Block, 12mm, Jumper Cable (Tape to Tape), 60 in. 20 AWG Wire Lead, White - Pack of 1



DI-0708
DC Extension Cable - White, 39 in.



DI-0708B
1 Meter DC Extension Cable - Black -



DELIVERY OPTIONS

- **Field Assembly**
  Fastest order fulfillment. Field connectors and accessories not included.
- **Factory + Field (Hybrid)**
  Onsite modifications with factory connection. Additional accessories not included.
- **Factory Assembly**
  Fastest Installation. Factory made-to-order fixtures.

- 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.

VALENT® X 24V

High Density LED Tape Light

Precision-engineered, high density tape light for demanding applications.
Up to 900+ lumens per foot with 95+ CRI / 90+ R9. 12 year warranty.

Date

Project Notes

12 Year Warranty | IP20 | 24 VDC | NEC 410.16.A.1,3 & 410.16.C.1,3,5 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.
- CE & EMC Compliant: Verification No. GZEM1412006837O5V
- Approved for storage areas of clothes closets per NEC 410.16.A.1,3 and 410.16.C.1,3,5

Environment

- Ambient Temperature: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temperature: -4 ~ 176°F (-20 ~ 80°C)
- 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 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/ 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.

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