

VALENT® RGBW

Color Changing LED Tape Light

Bright, saturated RGBW tape light for high performance color changing applications. Capable of billions of color combinations, plus pure 3000K or 6500K white light.

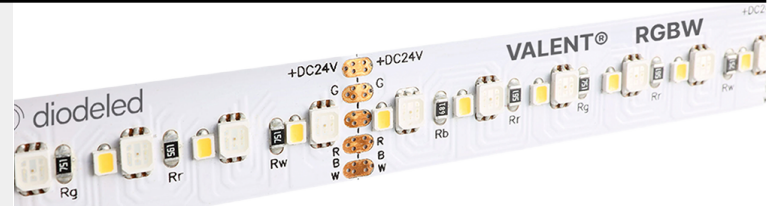
Date _____

Project Notes _____



FEATURES

- Dense LED placement for uninterrupted linear light
- RGB Tri-Chip and 3000K or 6500K White Chip capable of billions of colors
- Controllable via DMX, Casambi, Touchdial, and other options
- 1.96 inch cuttable increments
- 10 Year Limited Warranty



ORDERING CODES

Order spools, and components for field assembly

						HYBRID ORDERING CODE (OPTIONAL)					
						Soldered Wire Lead and Connection Options					
	Voltage	Model	Color	CCT	Length	Input Wire Color, Length, and Connection			Output Wire Color, Length, and Connection		
DI											
	24V (24V Volt)	VL	RGBW (RGBW)	30 (3000K) 65 (6500K)	016 (16 feet) 100 (100 feet) CSTM_ (__in.)	Color & Type	Length	Connection	Color & Type	Length	Connection
						WH (White CL2 - Default)	36l (36 in. - Default)	BW (Bare Wire - Default)	*blank* (No Wire - Default)		
						BL (Black CL2)	__ in.	MIC (Interconnect)	WH (White CL2) BL (Black CL2)	__ in.	BW (Bare Wire - Default) MIC (Interconnect)

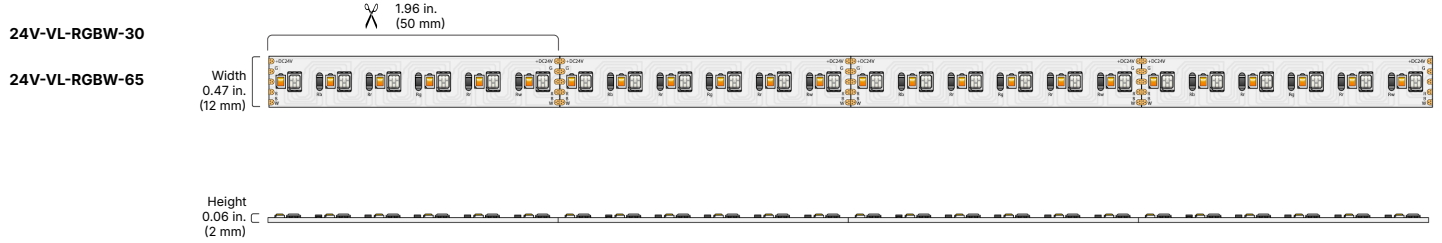
GENERAL SPECIFICATIONS (ALL MODELS)

Voltage	24VDC
Wattage	6.1W/ft.
Cut Points	1.96 in.
Dimmable	Yes
Max Run (ft.)	16.4 ft.
Dimensions	0.47 × 0.06 in. (W x H)
TM-21 (LM-80)	>50,000 hours
Environment	Indoor / Damp Location (IP20)
Lead Wire A	36 in. White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
Lead Wire B	36 in. White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
LED Chips	72/ft.
Chip Type	2835, 2216
Certification	UL Listed 2108
Limited Warranty	10 Year Limited Warranty

DETAILED SPECIFICATIONS

	24V-VL-RGBW-30	24V-VL-RGBW-65
CRI	90+ (3000K)	90+ (6500K)
3000K	All: 291 Lm/ft. 3000K: 144 Lm/ft. Red: 36 Lm/ft. Green: 104 Lm/ft. Blue: 23 Lm/ft.	-
6500K	-	All: 305 Lm/ft. 6500K: 144 Lm/ft. Red: 36 Lm/ft. Green: 104 Lm/ft. Blue: 23 Lm/ft.

MECHANICAL DIAGRAMS



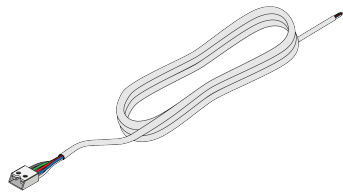
CONNECTIONS



ACCESSORIES

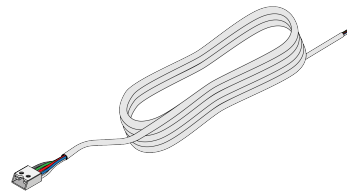
DI-TB-RGBW-36SPL-TTW

VALENT RGBW Tape Light Terminal Block Splice Connector, 12mm, Tape-to-Wire, 36 in. Splice Wire



DI-TB-RGBW-96SPL-TTW

VALENT RGBW Tape Light Terminal Block Splice Connector, 12mm, Tape-to-Wire, 96 in. Splice Wire



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.

RECOMMENDED CHANNELS

For additional information visit:

<https://www.diodeled.com/products/channels.html>



- S1
- S2
- S45
- A1
- A2
- A3
- SLIM
- 16MM

- 20MM ROUND
- 20MM SQUARE
- SQUARE
- 45°
- 45° DECO
- 90° SIDEVIEW
- REFLECTOR
- MUD-IN 1 IN.

- MUD-IN SINGLE FLANGE
- MUD-IN 1 IN. WALL REVEAL
- MUD-IN 2 IN.
- RECESSED
- WALK-OVER
- SCORCE
- WAVEFORM



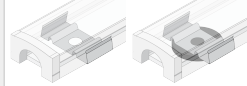
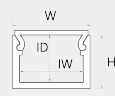
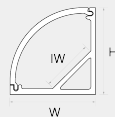
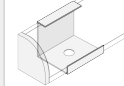
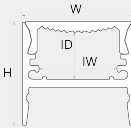
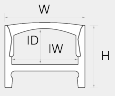
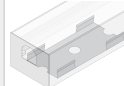
RUNWAY DIFFUSION



SEMI-DIFFUSED



DOTLESS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
S1 Channel DI-CHB-S1 (S1) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/bdlwTb	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.	• Soldered Lead Only	Classic Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 U-Clip: 0.32 x 0.68 in. (H x W) S1 Magnetic U-Clip: 0.53 x 0.67 in. (H x W)
S2 Channel DI-CHB-S2 (S2) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/beoyQV	Height (H): 0.57 in. Width (W): 0.74 in. Interior Depth (ID): 0.34 in. Interior Width (IW): 0.65 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	• Soldered Lead Only	Classic Frosted Lens VL: Dotless	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 S2 Clip: 0.63 x 0.84 in. (H x W)
S45 Channel DI-CHB-S45 (S45) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/beoyQb	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 screws 96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	• Soldered Lead Only	Classic Frosted Lens VL: Dotless	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 U-Clip: 0.79 x 0.79 in. (H x W)
A1 Channel DI-CHB-A1 (A1) 48", 90" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/bf6mfJ	Height (H): 0.81 in. Width (W): 0.87 in. Interior Depth (ID): 0.45 in. Interior Width (IW): 0.79 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, 2x slotted 90 in. channel & lens 4x surface mounting clips End caps: 2x open, 2x closed, 2x slotted	• Soldered Lead Only	Architectural Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K	 U-Clip: 0.82 x 0.88 in. (H x W)
A2 Channel DI-CHB-A2 (A2) 48", 96" Aluminum, White, Black https://qrco.de/bf6nFO	Height (H): 0.55 in. Width (W): 0.63 in. Interior Depth (ID): 0.33 in. Interior Width (IW): 0.48 in. Interior Width W/Lens (IWL): 0.4 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.	• Soldered Lead Only	Architectural Frosted Satin Lens VL: Dotless Architectural Frosted Lens VL: Dotless For diffusion options not listed, refer to A2 Channel Specification Sheet.	• Beam Angle: 120° • IP Rating Shift: IP20 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 Regress Lens • Light Loss: 30% • CCT Shift: -35K	 U-Clip: 0.56 x 0.64 in. (H x W)

RECOMMENDED CHANNELS

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- 16MM

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- 20MM SQUARE
- SQUARE
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- 45° DECO
- 90° SIDEVIEW
- REFLECTOR
- MUD-IN 1 IN.

- MUD-IN SINGLE FLANGE
- MUD-IN 1 IN. WALL REVEAL
- MUD-IN 2 IN.
- RECESSED
- WALK-OVER
- SCORCE
- WAVEFORM



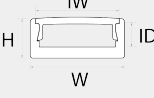
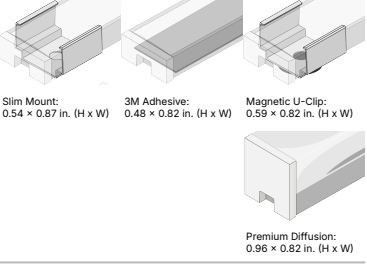
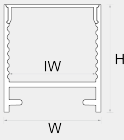
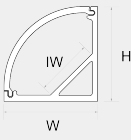
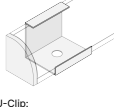
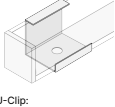
RUNWAY DIFFUSION



SEMI-DIFFUSED



DOTLESS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
A3 Channel DI-CHB-A3 (A3) 48", 96" Aluminum, White, Black For 12mm Tape Lights or smaller https://qrco.de/bf6nGo	Height (H): 0.39 in. Width (W): 0.63 in. Interior Depth (ID): 0.33 in. Interior Width (IW): 0.48 in. Interior Width W/Lens (IWL): 0.4 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.	• Soldered Lead Only	Architectural Frosted Satin Lens VL: Dotless Architectural Frosted Lens VL: Dotless For diffusion options not listed, refer to A3 Channel Specification Sheet.	• Beam Angle: 120° • IP Rating Shift: IP20 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 Regress Lens • Light Loss: 30% • CCT Shift: -35K	 U-Clip: 0.4 × 0.64 in. (H x W) Flat Louver: 0.54 × 0.82 in. (H x W)
SLIM Channel DI-CPCHB-SL (SL) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/bdlwSm	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 & optional lens 2x surface mounting clips End caps: 1x open, 1x closed 96 in. channel & optional lens 4x surface mounting clips end caps: 2x open, 2x closed	• Soldered Lead Only	Architectural Frosted Lens VL: Semi-Diffused Premium Diffusion Lens VL: Dotless For diffusion options not listed, refer to SLIM Channel Specification Sheet.	• Beam Angle: 120° • IP Rating Shift: IP20 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 Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K	 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)
16MM Channel DI-CPCHB-16MM (16) 48", 96" Aluminum For 14mm Tape Lights or smaller https://qrco.de/bdlwdD	Height (H): 0.89 in. Width (W): 0.77 in. Interior Depth (ID): 0.59 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.	• Soldered Lead Only	Architectural Frosted Lens VL: Dotless	• Beam Angle: 120° • IP Rating Shift: IP20 Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K	 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 https://qrco.de/bdlwit	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 & 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.	• Soldered Lead Only	Classic Frosted Lens VL: Dotless	• Beam Angle: 180° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 U-Clip: 1.19 × 1.19 in. (H x W)
20MM SQUARE Channel DI-CPCHB-SQC20 (SQ20) 48", 96" Aluminum https://qrco.de/bdlwiN	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 & 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.	• Soldered Lead Only	Classic Frosted Lens VL: Dotless	• Beam Angle: 180° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 U-Clip: 1.19 × 1.19 in. (H x W)

RECOMMENDED CHANNELS

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- S1
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- S45
- A1
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- SLIM
- 16MM

- 20MM ROUND
- 20MM SQUARE
- SQUARE
- 45°
- 45° DECO
- 90° SIDEVIEW
- REFLECTOR
- MUD-IN 1 IN.

- MUD-IN SINGLE FLANGE
- MUD-IN 1 IN. WALL REVEAL
- MUD-IN 2 IN.
- RECESSED
- WALK-OVER
- SCONCE
- WAVEFORM



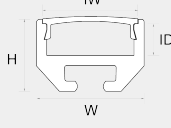
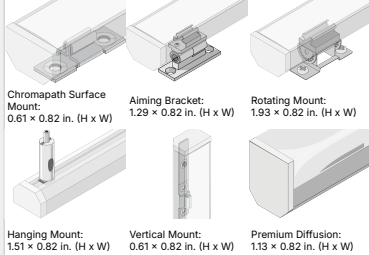
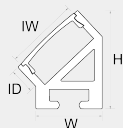
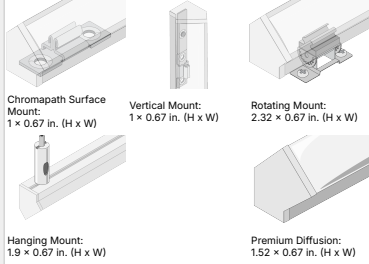
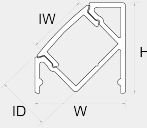
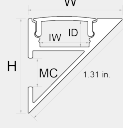
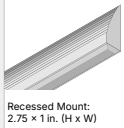
RUNWAY DIFFUSION



SEMI-DIFFUSED



DOTLESS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
SQUARE Channel DI-CPCHB-SQ (SQ) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/bdlwWF		48 in. channel & optional lens 2x surface mounting clips End caps: 1x open, 1x closed. 96 in. channel & optional lens 4x surface mounting clips End caps: 2x open, 2x closed.	• Soldered Lead Only	Architectural Frosted Lens VL: Semi-Diffused Premium Diffusion Lens VL: Dotless For diffusion options not listed, refer to SQUARE Channel Specification Sheet.	• Beam Angle: 120° • IP Rating Shift: IP20 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 Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K	
45° Channel DI-CPCHB-45 (45) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller https://qrco.de/bdlwax		48 in. channel & optional lens 2x surface mounting clips End caps: 1x open, 1x closed. 96 in. channel & optional lens 4x surface mounting clips End caps: 2x open, 2x closed.	• Soldered Lead Only	Architectural Frosted Lens VL: Semi-Diffused Premium Diffusion Lens VL: Dotless For diffusion options not listed, refer to 45° Channel Specification Sheet.	• Beam Angle: 120° • IP Rating Shift: IP20 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 Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K	
45° DECO Channel DI-CPCHB-45DCO (45DCO) 48", 96" Aluminum For 10mm Tape Lights or smaller https://qrco.de/bdlwZs		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.	• Soldered Lead Only	Classic Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	
90° SIDEVIEW Channel DI-CPCHB-90SD (90) 48", 96" Aluminum For 12mm Tape Lights or smaller https://qrco.de/bdlwuV		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	Classic Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	
REFLECTOR Channel DI-CPCHB-RFCTR (REF) 48", 96" Aluminum https://qrco.de/bdlwvN		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	Classic Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	

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- MUD-IN 1 IN.

- MUD-IN SINGLE FLANGE
- MUD-IN 1 IN. WALL REVEAL
- MUD-IN 2 IN.
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- WAVEFORM



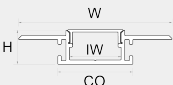
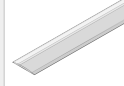
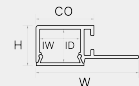
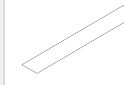
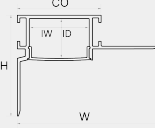
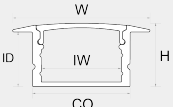
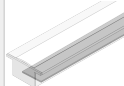
RUNWAY DIFFUSION



SEMI-DIFFUSED



DOTLESS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
MUD-IN 1 IN. Channel DI-CPCHB-MUD1 (MI1) 48", 96" Aluminum For 14mm Tape Lights or smaller https://qrco.de/bdlwnz	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. 96 in. channel & lens End caps: 2x open, 2x closed	• Soldered Lead Only	Opal Lens VL: Dotless	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Opal Lens • Light Loss: 55% • CCT Shift: -200K	 Recessed Mount: 0.54 × 2.42 in. (H × W)
MUD-IN SINGLE FLANGE Channel DI-CPCHB-MUD1-SF (MUD1-SF) 96" Aluminum For 14mm Tape Lights or smaller https://qrco.de/bfmbbs	Height (H): 0.57 in. Width (W): 1.47 in. Interior Depth (ID): 0.46 in. Interior Width (IW): 0.57 in. Cut Out Width (CO): 0.84 in. 	96 in. channel & lens End caps: 2x open, 2x closed	• Soldered Lead Only	Classic Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 Recessed Mount: 0.57 × 1.47 in. (H × W)
MUD-IN 1 IN. WALL REVEAL Channel DI-CPCHB-MUD1-WREV (MUD1-WREV) 96" Aluminum For 14mm Tape Lights or smaller https://qrco.de/bfmbbsn	Height (H): 1.37 in. Width (W): 1.83 in. Interior Depth (ID): 0.51 in. Interior Width (IW): 0.79 in. Cut Out Width (CO): 1.16 in. 	96 in. channel & lens End caps: 2x open, 2x closed	• Soldered Lead Only	Classic Frosted Lens VL: Semi-Diffused	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 Recessed Mount: 1.37 × 1.93 in. (H × W)
MUD-IN 2 IN. Channel DI-CPCHB-MUD2 (MI2) 48", 96" Aluminum For 14mm Tape Lights or smaller https://qrco.de/bdlwpY	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.	• Soldered Lead Only	Opal Lens VL: Dotless	• Beam Angle: 120° • IP Rating Shift: IP20 Opal Lens • Light Loss: 55% • CCT Shift: -200K	 Recessed Mount: 0.8 × 3.86 in. (H × W)
RECESSED Channel DI-CPCHB-REC (REC) 48", 96" Aluminum https://qrco.de/bdlwXH	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.	• Soldered Lead Only	Classic Frosted Lens VL: Runway Diffusion	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K	 Recessed Mount: 0.49 × 1.03 in. (H × W)  Mounting Clip: 0.49 × 1.03 in. (H × W)

RECOMMENDED CHANNELS

For additional information visit:

<https://www.diodeled.com/products/channels.html>



- S1
- S2
- S45
- A1
- A2
- A3
- SLIM
- 16MM

- 20MM ROUND
- 20MM SQUARE
- SQUARE
- 45°
- 45° DECO
- 90° SIDEVIEW
- REFLECTOR
- MUD-IN 1 IN.

- MUD-IN SINGLE FLANGE
- MUD-IN 1 IN. WALL REVEAL
- MUD-IN 2 IN.
- RECESSED
- WALK-OVER
- SCONCE
- WAVEFORM



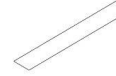
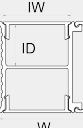
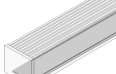
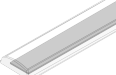
RUNWAY DIFFUSION



SEMI-DIFFUSED



DOTLESS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
WALK-OVER Channel DI-CPCHB-WO (WO) 96" Aluminum For 10mm Tape Lights or smaller https://qrco.de/bg1V0p	Height (H): 1.05 in. Width (W): 0.84 in. Interior Depth (ID): 0.79 in. Interior Width (IW): 0.46 in. Cut Out Width (CO): 0.84 in. 	96 in. channel & lens End caps: 2x open, 2x closed	• Soldered Lead Only	Classic Frosted Lens	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: ~40K	 Recessed Mount: 1.05 x 0.84 in. (H x W)
SCONCE Channel DI-CPCHB-SCNC (SCNC) 48", 96" Aluminum For 14mm Tape Lights or smaller https://qrco.de/bdlweg	Height (H): 1.1 in. Width (W): 1.21 in. Interior Depth (ID): 0.53 in. Interior Width (IW): 0.84 in. 	48 in. channel, 2x frosted cover Mounting plate End caps: 1x open, 1x closed. 96 in. channel, 2x frosted cover Mounting plate End caps: 1x open, 1x closed.	• Soldered Lead Only	Classic Frosted Lens VL: Dotless	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: ~40K	 3M Adhesive: 1.2 x 1.21 in. (H x W)
WAVEFORM Channel DI-CPCHB-WF (WF) 48" Aluminum For 12mm Tape Lights or smaller https://qrco.de/bdlwn0	Height (H): 0.3 in. Width (W): 0.71 in. Interior Depth (ID): 0.25 in. Interior Width (IW): 0.49 in. Height W/o Cover (H): 0.2 in. 	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed.	• Soldered Lead Only	Classic Frosted Lens VL: Runway Diffusion	• Beam Angle: 120° • IP Rating Shift: IP20 Classic Frosted Lens • Light Loss: 20% • CCT Shift: ~40K	 3M Adhesive: 0.4 x 0.71 in. (H x W)  U-Clip: 0.31 x 0.72 in. (H x W)

RECOMMENDED POWER SUPPLIES

For additional Power Supply information, refer to individual Specification Sheet data at diodeled.com.

- MEANWELL
- VLM

MEANWELL CONSTANT VOLTAGE DRIVER

Drivers for on/off or PWM dimming applications.



For additional information visit:

<https://www.diodeled.com/mean-well-driver.html>

SKU	GENERAL SPECS	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE & MAXIMUM LOAD	MINIMUM LOAD
DI-0954	Class 2 7.87 × 2.78 × 1.38 in.	90 ~ 295VAC / 47 ~ 63Hz	24V / 96W	None
DI-0954-LPL	Class 2 11.25 × 3.75 × 1.9 in.	90 ~ 295VAC / 47 ~ 63Hz	24V / 96W	None
DI-0954-LPS3R	Class 2 10.79 × 7.34 × 2.36 in.	90 ~ 295VAC / 47 ~ 63Hz	24V / 96W	None
DI-0970	Class 2 5.83 × 1.57 × 1.18 in.	90 ~ 264VAC / 47 ~ 63Hz	24V / 35W	None
DI-0970-LPS	Class 2 11.25 × 3.75 × 1.9 in.	90 ~ 264VAC / 47 ~ 63Hz	24V / 35W	None
DI-0970-LPS3R	Class 2 10.79 × 7.34 × 2.36 in.	90 ~ 264VAC / 47 ~ 63Hz	24V / 35W	None
DI-CV-24V150W	Not Class 2 7.52 × 2.5 × 1.48 in.	90 ~ 132VAC / 47 ~ 63Hz	24V / 150W	None
DI-CV-24V200W	Not Class 2 8.46 × 4.53 × 1.18 in.	88 ~ 264VAC, 47 ~ 60Hz	24V / 200W	None
DI-CV-24V330W	Not Class 2 8.5 × 4.13 × 1.61 in.	85 ~ 264VAC / 47 ~ 63Hz	24V / 330W	None
DI-CV-24V60W-OWA	Class 2 5.1 × 2.1 × 1.4 in.	90 ~ 264VAC 127 ~ 370VAC	24V / 60W	None
DI-CV-24V90W-OWA	Class 2 6.75 × 2.5 × 1.5 in.	90 ~ 264VAC 127 ~ 370VAC	24V / 90W	None
DI-CV-MW24V60W-277	Class 2 5.9 × 2.1 × 1.4 in.	120 ~ 277VAC 50/60Hz	24V / 60W	None
DI-CV-MW24V60W-277-LPS	Class 2 11.25 × 3.75 × 1.9 in.	120 ~ 277VAC 50/60Hz	24V / 60W	None
DI-CV-MW24V60W-277-LPS3R	Class 2 10.79 × 7.34 × 2.36 in.	120 ~ 277VAC 50/60Hz	24V / 60W	None
DI-CV-MW24V90W-277	Class 2 6.8 × 2.5 × 1.5 in.	120 ~ 277VAC 50/60Hz	24V / 90W	None
DI-CV-MW24V90W-277-LPL	Class 2 13.5 × 4.5 × 2.38 in.	120 ~ 277VAC 50/60Hz	24V / 90W	None
DI-CV-MW24V90W-277-LPS3R	Class 2 10.79 × 7.34 × 2.36 in.	120 ~ 277VAC 50/60Hz	24V / 90W	None
DI-CV-24V150W-277	Not Class 2 9 × 2.67 × 1.5 in.	120 ~ 277VAC 50/60Hz	24V / 150W / 6.3A	None
DI-CV-24V240W-277	Not Class 2 9.61 × 2.67 × 1.53 in.	120 ~ 277VAC 50/60Hz	24V / 240W / 10A	None
DI-CV-24V320W-277	Not Class 2 9.92 × 3.54 × 1.72 in.	120 ~ 277VAC 50/60Hz	24V / 320W / 13.34A	None
DI-CV-24V480W-277	Not Class 2 10.31 × 4.92 × 1.72 in.	120 ~ 277VAC 50/60Hz	24V / 480W / 20A	None
DI-CV-24V600W-277	Not Class 2 11.02 × 5.67 × 1.9 in.	120 ~ 277VAC 50/60Hz	24V / 600W / 25A	None

VLM SERIES CONSTANT VOLTAGE DRIVER

Compact driver for on/off, PWM dimming, and color-changing applications.



For additional information visit:

<https://www.diodeled.com/vlm-series-led-driver.html>

SKU	GENERAL SPECS	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE & MAXIMUM LOAD	MINIMUM LOAD
VLM100W-24	Class 2 5.38 × 1 × 0.77 in.	120 / 277VAC, 47 - 63Hz	24V / 96W	None
VLM100W-24-LPM	Class 2 8.19 × 2.94 × 1.31 in.	120 / 277VAC, 47 - 63Hz	24V / 96W	None
VLM100W-24-LPS	Class 2 11.25 × 3.75 × 1.9 in.	120 / 277VAC, 47 - 63Hz	24V / 96W	None
VLM100W-24-LPS3R	Class 2 10.79 × 7.34 × 2.36 in.	120 / 277VAC, 47 - 63Hz	24V / 96W	None
VLM200W-24-LPL	Class 2 13.5 × 4.5 × 2.38 in.	120 / 277VAC, 47 - 63Hz	24V / 100W (X2)	None
VLM60W-24	Class 2 5.1 × 0.75 × 0.77 in.	120 / 277VAC, 47 - 63Hz	24V / 60W	None
VLM60W-24-LPM	Class 2 8.19 × 2.94 × 1.31 in.	120 / 277VAC, 47 - 63Hz	24V / 60W	None
VLM60W-24-LPS	Class 2 11.25 × 3.75 × 1.9 in.	120 / 277VAC, 47 - 63Hz	24V / 60W	None
VLM60W-24-LPS3R	Class 2 10.79 × 7.34 × 2.36 in.	120 / 277VAC, 47 - 63Hz	24V / 60W	None

RECOMMENDED CONTROLLERS

For additional Controller information, refer to individual Specification Sheet data at diodeled.com.

CASAMBI® CONTROLLERS

The CASAMBI controllers will remotely control your lighting through the app - downloadable for IOS & Android.



For additional information visit:

<https://www.diodeled.com/casambi-controllers-3020.html>

SKU	DESCRIPTION
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

TOUCHDIAL™ CONTROL SYSTEMS

The TOUCHDIAL™ zone control system controls single color dimming, tunable white, and color changing LED lighting via mobile device and additional TOUCHDIAL controls.



For additional information visit:

<https://www.diodeled.com/touchdial-wifi-color-control-system.html>

SKU	DESCRIPTION
DI-RF-REC-CV-A	TOUCHDIAL Color Control System - WiFi Receiver
DI-RF-REC-CV-SC	TOUCHDIAL Mini Receiver - Single Channel and Zone
DI-RF-REM-DIM-1	TOUCHDIAL Mini Remote - Single Zone
DI-RF-REM-DIM-5	TOUCHDIAL Remote Dimmer 5-Zone Dimmer Control
DI-RF-REM-RGBW-1	TOUCHDIAL Mini Remote RGB(W) - Single Zone
DI-RF-REM-RGBW-4	TOUCHDIAL Color Control System - RGB/RGBW 4-Zone Remote Controller
DI-RF-REM-TW-4	TOUCHDIAL Color Control System - Tunable White 4-Zone Remote Controller
DI-RF-WMT-DIM	TOUCHDIAL Wall Dimmer - Single Zone
DI-RF-WMT-RGBW	TOUCHDIAL RGB(W) Wall Control - Single Zone
DI-RF-WPD-DIM-1	TOUCHDIAL Paddle Dimmer - Single Zone
DI-RF-WPD-DIM-2	TOUCHDIAL Paddle Dimmer - Two Zone
DI-WIFI-RF-TRMS	TOUCHDIAL Color Control System - WiFi Hub
DI-RF-REM-TW3-4	TOUCHDIAL Color Control System, 3-Anchor Tunable White 4-Zone Remote Controller

ATTRIBUTE® COLOR CONTROLLERS

Affordable, flexible color controllers for RGB and RGBW LED lighting. Easy to install.



For additional information visit:

<https://www.diodeled.com/attribute-color-controller.html>

SKU	DESCRIPTION
DI-ATT-RGBW-REM	ATTRIBUTE RGB(W) Color Controller and Receiver

NICOLAUDIE DMX LED CONTROLLERS

Store up to 500 scenes across 10 separate zones with a full-color display.



For additional information visit:

<https://www.diodeled.com/advancedsearch/result?q=Nicolaudie>

SKU	DESCRIPTION
DI-DMX-DE3	Nicolaudie STICK-DE3 DMX LED Controller
DI-DMX-ESA	Nicolaudie Easy Stand Alone DMX LED Color Controller - 5k Memory
DI-DMX-KE2	Nicolaudie STICK 1 Wall Mount DMX LED Controller - KE2

DECODER CONTROL SYSTEM

Decoders used to translate a DMX signal into the PWM control signal for our color changing LEDs.

SKU	DESCRIPTION
DI-DMX-DEC-5	DMX512 5-Channel Decoder with RDM and Digital Display, controls LED TW, RGB, RGBW and RGBWW lighting fixtures
DI-DMX-DEC-25	DMX512 25-Channel Decoder with RDM and Digital Display, controls LED TW, RGB, RGBW and RGBWW lighting fixtures
DI-DALI2-REC-5W	DALI DT8/DALI2 5-Channel Decoder for TW, RGB(W), RGBWW Controls

RECOMMENDED CONTROLLERS

For additional Controller information, refer to individual Specification Sheet data at diodeled.com.

OTHER COLOR CONTROL SYSTEMS

DMX Color Control Systems

SKU	DESCRIPTION
DI-0820	DMX Wireless Transmitter/Receiver– Female
DI-0821	DMX Wireless Transmitter/Receiver– Male
DI-1810	DMX512 4-Channel Decoder with Digital Display controls LED RGB and RGBW lighting fixtures
DI-DMX-WIFI-WMUS-3Z-WH	DMX WIFI Wall Mount Zone LED Controller RGBW
DI-INLINE-RGBW-CONT	RGBW 4-U Inline Color Controller, 6 inch Bare RGBW Wire, 6 inch White Female DC
DI-CS-ENODE4000	Converging Systems E-NODE 4000, Internet Protocol Adapter MKIV - for operation with Lutron LEAP platforms (QX, RA3 or Athena)
DI-CS-ILC400	Converging Systems ILC-400 4-channel RGB(W)/STATIC DIMMING CONTROLLER - For use with E-NODE 4000
DI-CS-ILC100M	Converging Systems ILC-100M STATIC LED DIMMING CONTROLLER - For use with E-NODE 4000
DI-CS-ILC200BW	Converging Systems ILC-200BW 2-channel (TW) DIMMING CONTROLLER - For use with E-NODE 4000
DI-SPI-PIX-REM	Pre-Programmed SPI Pixel RGBW Remote Control, max 1024 pixels
DI-INLINE-RGBTW-CONT	RGB+Tunable White Inline Controller, 6 inch bare RGBTW wire, 6 inch female DC
DI-INLINE-CONT-4W	3-Anchor Tunable White (VLX-TW) or RGB Inline Controller, 6 inch bare 4-conductor wire, 6 inch female DC

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.
- 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

- 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.

LIMITED WARRANTY

- 10 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.

- Lumen value measured in accordance to IES LM-79-08. 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.