

VALENT® RGBW Wet Location 24V 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 white light.

Project Notes









FEATURES

- Dense LED placement for uninterrupted linear light
- RGB Tri-Chip and 3000K White Chip capable of billions of colors Controllable via DMX, Casambi, Touchdial, and other options
- 2 inch cuttable increments
- 7 Year limited warranty



ORDERING CODES Order spools, and components for field assembly				OPTIONAL ORDERING CODES Add Assembly Preferences, Finish, Lens, Mounting, Driver, and Delivery									
		Voltage	Model	Color	Length	Cha	nnels	Finish	Lens	Mounting	Driver	Delivery	
	DI												
		24V (24V Volt)	VL	RGBW	W016 (16.4 feet) W100 (100 feet)		SQ20 (20mm Square) MI1 (1-inch Mud-In) MI2 (2-inch Mud-In)	AL (Aluminum) BL (Black) WH (White)	*blank* (Classic Frosted Lens) FRT (Arch. Frosted Lens) OPT (Opal Lens)	3M (3M Adhesive) MC (Mounting Clip) UC (U-Clip) VC (Vertical Clip) HNG (Hanging Hardware) RC (Rotating Clip)	O/O (On / Off) PoE (Power over Ethernet)	Field Assembly Factory - Field (Hybrid) Factory Assembly	

VALENT® RGBW Wet Location - SPECIFICATION TABLE

Models	24V-VL
Voltage	24VDC
Wattage	6.1W/ft.
Lumens RGBW	All: 260 Lm/ft. White: 128 Lm/ft. Red: 30 Lm/ft. Green: 90 Lm/ft. Blue: 18 Lm/ft.
Cut Points	2 in.
Max Run (ft.)	16.4 ft.
CRI	90+
Dimensions	0.55 × 0.22 in. (L x W x H)
TM-21 (LM-80)	>50,000 hours
Environment	Outdoor / Wet Location (IP65)
Lead Wire A	36 in. Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
Lead Wire B	36 in. Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
LED Chips	72/ft.
Chip Type	2216, 2835
Certification	UL Listed 2108
Warranty	7 Year



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CHANNEL / LENS / MOUNTING COMPATIBILITY

Channel	Compatible Lenses	Available Finishes	Mounting Options	
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	
Ml1 (1-inch Mud-ln)	OPT	AL		
MI2 (2-inch Mud-In)	OPT	AL		

LEGEN	LEGEND										
	Lens	Finish			Mounting						
blank	Classic Frosted Lens	AL	Aluminum		мс	Mounting Clip					
FRT	Architectural Frosted Lens	WH	White	_	uc	U-Clip					
ОРТ	Opal Lens	BL	Black			'					



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RECOMMENDED CHANNELS

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INCLUDED IN CHANNEL TECHNICAL MOUNTING OPTIONS WITH DIMENSIONS MODEL DIAGRAM **ACCESSORIES** CONNECTION OPTIONS DIFFUSION RATINGS 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 Beam Angle: 120° S2 Channel en isa isa isa isa isa i Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K DI-CHR-S2 (S2) 96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws 16mm Tape Light: Soldered Lead VL: Semi-Diffused Only 48", 96" IP Rating Shift: IP40 Aluminum For 14mm Tape Lights or smaller ID IW U-Clip: 0.58 × 0.75 in. (H x W)

DI-CHB-S45 (S45) 48", 96" Aluminum For 14mm Tape Lights or smaller

S45 Channel

48 in, Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting

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96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws

16mm Tape Light: Soldered Lead Only

Classic Frosted Lens VL: Semi-Diffused Only

 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)

Height (H): 0.89 in. Width (W): 0.77 in. Interior Width (IW): 0.63 in. 16mm Square Channel DI-CPCHB-16MM (16) 48", 96" Aluminum For 14mm Tape Lights or smalle IW

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.

E20 140 140 140 140 1 16mm Tape Light: Soldered Lead VL: Dotless

 Beam Angle: 120° Black Lens
• Light Loss: 90%
• CCT Shift: -350K

IP Rating Shift: IP40

Beam Angle: 180°

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 smalle

48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed.

96 in. channel & frosted lens IW

E eo iso iso iso iso i Classic Frosted Lens
• Light Loss: 20%
• CCT Shift: -40K 16mm Tape Light: Soldered Lead VL: Dotless Only

U-Clip: 1.19 × 1.19 in. (H x W)



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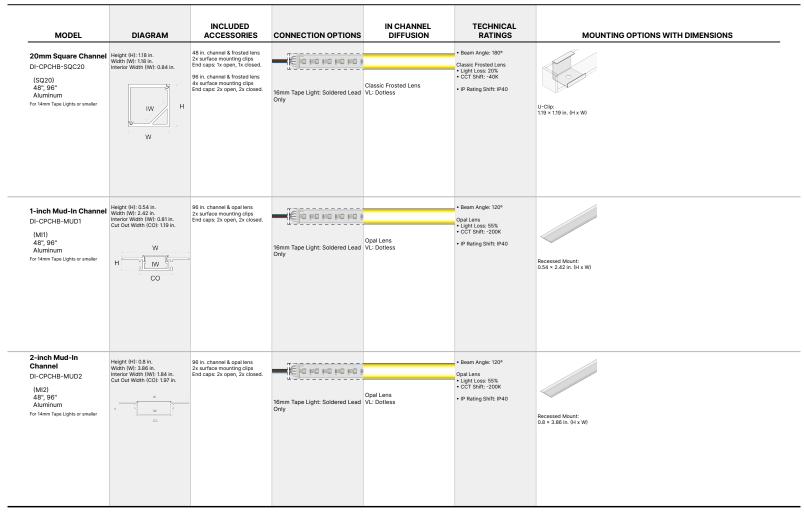








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RECOMMENDED 24V DRIVERS

SKU	FREQUENCY	VOLTAGE	LOAD	LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
VLM Series Constant	Voltage Driver	dications		https://www.diodeled.	com/custom/download	l/productFile/filename/VLM		-	
Compact driver for on/on, FV	rw diffilling, and color-changing app	Silvations.							Perating Curves System Diagrams
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.
VLM100W-24-LPS3R	120 / 277VAC 47 - 63Hz	24V	100W	No Minimum Load	Yes	PWM	10.79 in.	7.34 in.	2.36 in.
VLM200W-24-LPL	120 / 277VAC 47 - 63Hz	24V	200W	No Minimum Load	Yes	PWM	13.5 in.	4.5 in.	2.38 in.

MEANWELL Constant Voltage Driver

Drivers for on/off or PWM dimming applications.

MEANWELL Constant Voltage Driver Specific https://www.diodeled.com/custom/download/productFile/filename/commercial-grade-CV-Driver-Specification

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		Con	tains				

									erating Curves ystem Diagrams
DI-CV-MW24V60W-277-LPS3R	120 ~ 277VAC 50/60Hz	24V	60W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	10.79 in.	7.34 in.	2.36 in.
DI-CV-MW24V60W-277-LPS	120 ~ 277VAC 50/60Hz	24V	60W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	11.25 in.	3.75 in.	1.9 in.
DI-CV-MW24V90W-277-LPS3R	120 ~ 277VAC 50/60Hz	24V	90W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	10.79 in.	7.34 in.	2.36 in.

PoE (Power over Ethernet)

Constant voltage platform, ready for Power over Ethernet (inquire)

RECOMMENDED CONTROLLERS

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





TOUCHDIAL RGB(W) Wall Control - Single Zone

TOUCHDIAL Color Control System - WiFi Receiver

DI-RF-WMT-RGBW

DI-RF-REC-CV-A



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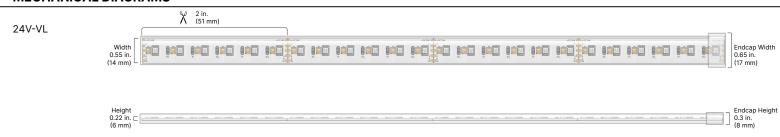








MECHANICAL DIAGRAMS



CONNECTIONS



36 in. Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief

36 in. Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief



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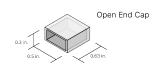
ACCESSORIES

Soldered Lead Only



DI-VL-RGBW-WL-EC-5

Wet Location VALENT RGBW End Caps, 12mm PCB,





DELIVERY OPTIONS

· Field Assembly

Fastest order fulfillment. Field connectors and accessories not included.

• Factory + Field (Hybrid)

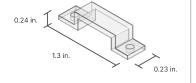
Onsite modifications with factory connection. Additional accessories not included.

Factory Assembly

Fastest Installation. Factory made-to-order fixtures.

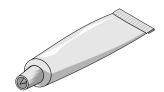
DI-WLMC-12MM

12mm Tape, Wet Location Over Clips, 10 pack, with 20 screws



DI-WPSL

Wet Location Sealant



- 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.



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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
- 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

- Install in accordance with national and local electrical code regulations
- This product is intended to be installed and serviced by a qualified, licensed electricia
- se copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of
- 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 tion 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 8. 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 10.
- 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 12. photographic processes.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to 13. match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output

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/ 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