

## DAZZLE® RGBW 4D Wet Location 24V Color Changing LED Tape Light

Bright, saturated RGBW tape light for high performance color changing applications. Our most advanced color changing linear light features a new quad-chip capable of billions of color combinations.

Date \_\_\_\_\_

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



**12**  
Year  
Warranty

**IP65**

**24**  
VDC

**NEC**  
WET LOCATED  
CLOSET RATED



### FEATURES

- 4 billion color combinations
- Increased LED density for enhanced color saturation, blending and brightness
- Achieve all colors from saturated to pastel
- DMX or Diode LED controller compatible
- 12 Year limited warranty

### ORDERING CODES

Order spools, and components for field assembly

### OPTIONAL ORDERING CODES

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

	Voltage	Model	Length	Channels	Finish	Lens	Driver	Delivery
DI								
	24V (24V Volt)	RGBW4	W016 (016 feet)	MI1 (1-inch Mud-In)  MI2 (2-inch Mud-In)	AL (Aluminum)	OPT (Opal Lens)	O/O (On / Off)  VLM (Constant Voltage)  PoE (Power over Ethernet)	Field Assembly  Factory + Field (Hybrid)  Factory Assembly

### DAZZLE® RGBW 4D Wet Location - SPECIFICATION TABLE

<b>Models</b>	<b>24V-RGBW4</b>
<b>Voltage</b>	<b>24VDC</b>
<b>Wattage</b>	<b>6.4W/ft.</b>
Lumens RGBW	239 Lm/ft.
Cut Points	4 in.
Max Run (ft.)	16.4 ft.
CRI	80+ (3000K)
Dimensions	0.625 x 0.125 in. (W x H)
TM-21 (LM-80)	- hours
Environment	Outdoor / Wet Location (IP65)
Lead Wire A	11 in. 20/4 AWG UL 2464 Wire with 1.8 in. Connector
Lead Wire B	11 in. 20/4 AWG UL 2464 Wire with 2 in. Connector
LED Chips	36/ft.
Warranty	12 Year

### CHANNEL / LENS / MOUNTING COMPATIBILITY

Channel	Compatible Lenses	Available Finishes
MI1 (1-inch Mud-In)	OPT	AL
MI2 (2-inch Mud-In)	OPT	AL

LEGEND			
Lens		Finish	
OPT	Opal Lens	AL	Aluminum

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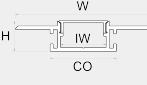
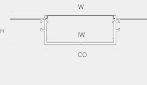
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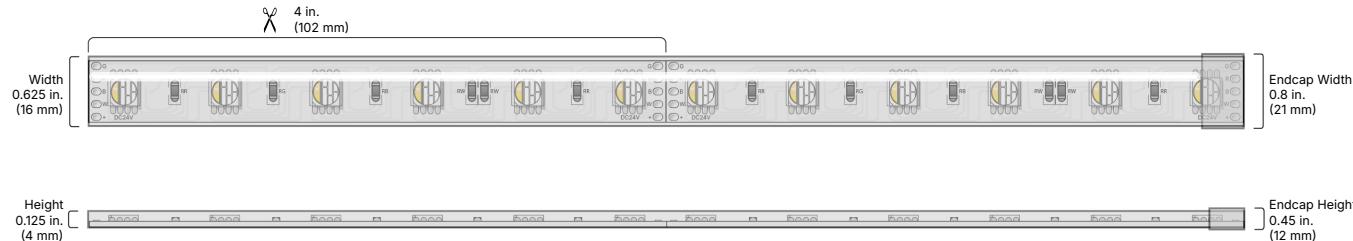
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### RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
<b>1-inch Mud-In Channel</b> DI-CPCHB-MUD1 (MI1) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.54 in. Width (W): 2.42 in. Interior 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.	16mm Wet Location Tape Light: Soldered Lead Only	Opal Lens RGBW4: Runway Diffusion	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Opal Lens</li> <li>Light Loss: 55%</li> <li>CCT Shift: -200K</li> <li>IP Rating Shift: IP40</li> </ul>	 Recessed Mount: 0.54 x 2.42 in. (H x W)
<b>2-inch Mud-In Channel</b> DI-CPCHB-MUD2 (MI2) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.8 in. Width (W): 3.86 in. Interior 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.	16mm Wet Location Tape Light: Soldered Lead Only	Opal Lens RGBW4: Runway Diffusion	<ul style="list-style-type: none"> <li>Beam Angle: 120°</li> <li>Opal Lens</li> <li>Light Loss: 55%</li> <li>CCT Shift: -200K</li> <li>IP Rating Shift: IP40</li> </ul>	 Recessed Mount: 0.8 x 3.86 in. (H x W)

### MECHANICAL DIAGRAMS

#### 24V-RGBW4



### CONNECTIONS



11 in. 20/4 AWG UL 2464 Wire with 1.8 in. Connector

11 in. 20/4 AWG UL 2464 Wire with 2 in. Connector

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### RECOMMENDED 24V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
<b>MEANWELL Constant Voltage Driver</b>									
Drivers for on/off or PWM dimming applications.									
MEANWELL Constant Voltage Driver Specification Sheet <a href="https://www.diodeled.com/custom/download/productFile/filename/commercial-grade-CV-Driver-Specification%20Sheet%20(24V%20Models).pdf/">https://www.diodeled.com/custom/download/productFile/filename/commercial-grade-CV-Driver-Specification%20Sheet%20(24V%20Models).pdf/</a>									
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.
DI-CV-MW24V90W-277-LPL	120 ~ 277VAC 50/60Hz	24V	90W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	13.5 in.	4.5 in.	2.38 in.
<b>VLM Series Constant Voltage Driver</b>									
Compact driver for on/off, PWM dimming, and color-changing applications.									
VLM Series Constant Voltage Driver Specification Sheet <a href="https://www.diodeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20%20J-Box).pdf/">https://www.diodeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20%20J-Box).pdf/</a>									
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.
<b>PoE (Power over Ethernet)</b>									
Constant voltage platform, ready for Power over Ethernet (Inquire)									

### RECOMMENDED CONTROLLERS

SKU	DESCRIPTION
<b>Nicolaudie DMX LED Controllers</b>	
Store up to 500 scenes across 10 separate zones with a full-color display.	
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
<b>CASAMBI® Controllers</b>	
The CASAMBI controllers will remotely control your lighting through the app - downloadable for iOS & Android.	
CBU-PWM4	CASAMBI PWM4 Single Color Dimming Controller



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## ACCESSORIES

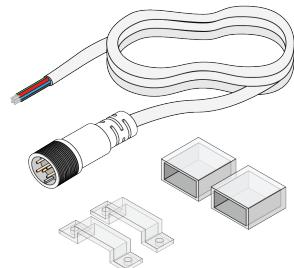
### DI-RGBW-WEXT

DAZZLE 24 RGBW Wet Location Extension Cable - 39 in.



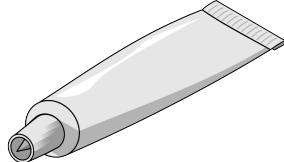
### DI-RGBW-WACY

DAZZLE 24 RGBW Wet Location Accessories Pack - 10x Mounting Clips, 20x Screws, 2x End Caps, 1x Splice Cable Pair



### DI-WPSL

Wet Location Sealant



## 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.

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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

- 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 electrician.
- Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
- Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
- Do not modify product beyond instructions or warranty will be void.
- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

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### 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/](http://www.diodeled.com/limited-warranty/) within the Policies section. For warranty related questions please contact product support.

#### Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infill 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.