

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
CLASSIFIED
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) <i>*See below for Channel / Lens / Mounting compatibility</i> | 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

| Models | 24V-RGBW4 |
|----------------|---|
| Voltage | 24VDC |
| Wattage | 6.4W/ft. |
| Lumens RGBW | 239 Lm/ft. |
| Cut Points | 4 in. |
| Max Run (ft.) | 16.4 ft. |
| CRI | 80+ (3000K) |
| Dimensions | 0.625 × 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 |

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 _____



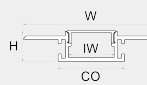

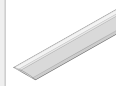
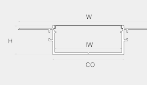

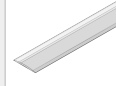
12
Year
Warranty

IP65

24
VDC

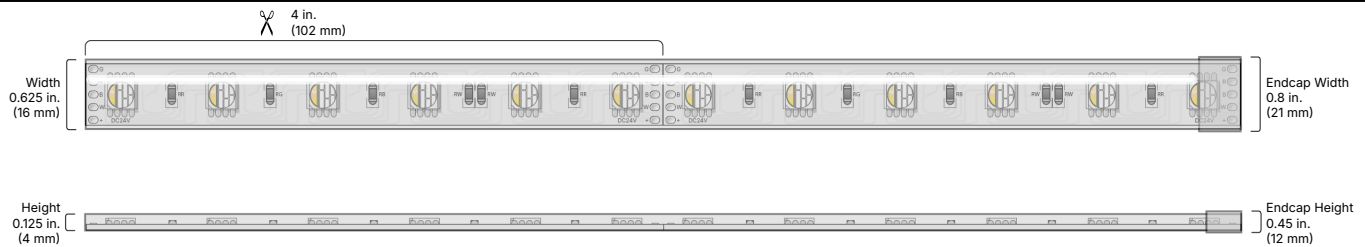
NEC
CLASSIFIED
CLOSET RATED

RECOMMENDED CHANNELS

| MODEL | DIAGRAM | INCLUDED ACCESSORIES | CONNECTION OPTIONS | IN CHANNEL DIFFUSION | TECHNICAL RATINGS | MOUNTING OPTIONS WITH DIMENSIONS |
|---|--|--|--|--------------------------------------|---|---|
| 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. |  16mm Wet Location Tape Light: Soldered Lead Only | Opal Lens RGBW4: Runway Diffusion | <ul style="list-style-type: none"> • Beam Angle: 120° • Opal Lens • Light Loss: 55% • CCT Shift: -200K • IP Rating Shift: IP40 |  Recessed Mount: 0.54 x 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): 1.37 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"> • Beam Angle: 120° • Opal Lens • Light Loss: 55% • CCT Shift: -200K • IP Rating Shift: IP40 |  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

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 _____



RECOMMENDED 24V DRIVERS

| SKU | INPUT VOLTAGE / FREQUENCY | OUTPUT VOLTAGE | MAXIMUM LOAD | MINIMUM LOAD | CLASS 2 | DIMMABLE | LENGTH | WIDTH | HEIGHT |
|--|---------------------------|----------------|--------------|-----------------|---------|--|-----------|----------|----------|
| MEANWELL Constant Voltage Driver Drivers for on/off or PWM dimming applications. https://www.diodeled.com/custom/download/productFile/filename/commercial-grade-CV-Driver-Specification%20Sheet%20(24V%20Models).pdf/ | | | | | | | | | |
| MEANWELL Constant Voltage Driver Specification Sheet Contains: • Additional Models • Derating Curves • Additional Features • System 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. |
| 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. |
| VLM Series Constant Voltage Driver Compact driver for on/off, PWM dimming, and color-changing applications. https://www.diodeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20%20J-Box).pdf/ | | | | | | | | | |
| VLM Series Constant Voltage Driver Specification Sheet Contains: • Additional Models • Derating Curves • Additional Features • 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. |
| PoE (Power over Ethernet) Constant voltage platform, ready for Power over Ethernet (inquire) | | | | | | | | | |

RECOMMENDED CONTROLLERS

| SKU | DESCRIPTION |
|--|--|
| Nicolaudie DMX LED Controllers 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 |
| 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 |



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 _____

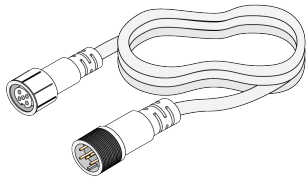
Project Notes _____



ACCESSORIES

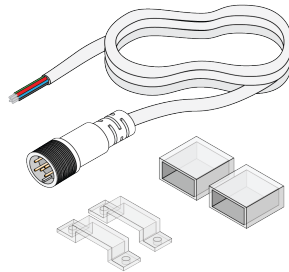
DI-RGBW-WEXT

DAZZLE 24 RGBW Wet Location Extension Cable - 39 in.



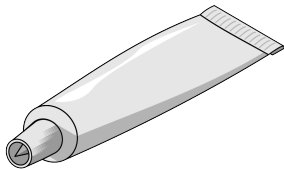
DI-RGBW-WACY

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.

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 _____



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

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.