

## 6.0 VARIABLE WHITE SERIES 2 RIBBONLYTE

Our Variable White Series 2 RibbonLyte allows you to adjust for brightness and warmth like never before. Now with 42 LEDs per foot (140 LEDs per meter), our improved RibbonLyte provides better color mixing, reduced diode visibility and a wider range of color temperatures for tuning your lighting design. Available in three wattages and with a 1.97 in. (50 mm) cut length, you can use Variable White Series 2 RibbonLyte with a 2-channel dimmer to create bright, clear, colder light or the warmest, softest tones.



- 2-channel dimming! One channel for brightness, one for CCT
- Single-row, dual-chip layout
- 6.0 W/ft (19.7 W/m)
- 42 LEDs/ft (140 LEDs/m)
- Standard CCT range: 2000K-6500K (all IP ratings)
  - All on: 73 lm/W
  - All on: 437.4 lm/ft (1434.67 lm/m)
- Warm CCT range: 1800K-3300K (IP20 only)
  - All on: 73 lm/W
  - All on: 440.5 lm/ft (1444.7 lm/m)
- 1.97 in. (50 mm) cut lengths
- 90+ CRI



RoHS

IP20

IP65

IP68

Declare.



## ORDERING GUIDE

| Category        | CRI                | Ribbon Type & IP Rating                                                                                    | Wattage + Color                                                                                                                                         |
|-----------------|--------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RB</b>       | <b>0</b>           |                                                                                                            |                                                                                                                                                         |
| RB - Ribbonlyte | 0 - Color Changing | <b>VWS220</b> - VW Series 2 IP20<br><b>VWS265</b> - VW Series 2 IP65*<br><b>VWS268</b> - VW Series 2 IP68* | <b>6.0VW</b> - 6.0 W/ft (19.7 W/m) Variable White (2000K-6500K)<br><b>6.0VW1833</b> - 6.0 W/ft (19.7 W/m) Variable White (1800K-3300K) <b>IP20 ONLY</b> |

\* 1800K-3300K only available in IP20

## CONNECTION OPTIONS

### 1. End Feed Bare Wire Connection (Default Option)



### 2. IP67 Connector Input



### 3. Soldered Daisy Chain



### 4. Daisy Chain with IP67 Connectors



### 5. Bare Wire on Both Ends



### Standard cable length if not specified:

1. 12 in. cable with bare wire (custom length up to 20 feet)
2. Standard 12 in. cable with IP67 connectors (custom length up to 10 feet)
3. Daisy chain with 3 in. cable between runs (custom length up to 36 in.)

4. 3 in. cable between IP67 connector and RibbonLyte (custom length up to 18 in.)
  5. Standard 12 in. cable with bare wire (custom length up to 10 feet)
- Note: IP67 connectors are used for both IP20 and IP65/IP68 RibbonLyte

## AVAILABLE COLOR TEMPERATURES



VW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

| 6.0 VARIABLE WHITE SERIES 2 RIBBONLYTE |                                                                                                                                                                     |                             |                               |                            |                             |                              |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|------------------------------|
| Operating Voltage                      | 24 V                                                                                                                                                                |                             |                               |                            |                             |                              |
| Operating Temperature                  | 2000K-6500K                                                                                                                                                         |                             |                               | 1800K-3300K                |                             |                              |
|                                        | Warm White (2000K)                                                                                                                                                  | Cool White (6500K)          | All On                        | Warm White (1800K)         | Cool White (3300K)          | All On                       |
| Power Consumption                      | 3 W/ft (9.84 W/m)                                                                                                                                                   | 3 W/ft (9.84 W/m)           | 6 W/ft (19.7 W/m)             | 3 W/ft (9.84 W/m)          | 3 W/ft (9.84 W/m)           | 6 W/ft (19.7 W/m)            |
| Lumens                                 | 260.4 lm/ft<br>(854.11 lm/m)                                                                                                                                        | 210.7 lm/ft<br>(691.1 lm/m) | 437.4 lm/ft<br>(1434.67 lm/m) | 221.3 lm/ft<br>(726 lm/m)  | 219.1 lm/ft<br>(718.7 lm/m) | 440.5 lm/ft<br>(1444.7 lm/m) |
| Efficacy                               | 87 lm/W                                                                                                                                                             | 70 lm/W                     | 73 lm/W                       | 74 lm/W                    | 73 lm/W                     | 73 lm/W                      |
| Protection Rating                      | IP20, IP65, IP68                                                                                                                                                    |                             |                               | IP20                       |                             |                              |
| Operating Temperature                  | -40 — 140 °F (-40 — 60 °C) - IP20<br>-40 — 122 °F (-40 — 50 °C) - IP65/IP68                                                                                         |                             |                               | -40 — 140 °F (-40 — 60 °C) |                             |                              |
| Current (mA) - 24V                     | 250 mA/ft (820 mA/m)                                                                                                                                                |                             |                               |                            |                             |                              |
| LED Pitch                              | 42 LEDs/ft (140 LEDs/m)                                                                                                                                             |                             |                               |                            |                             |                              |
| Dimming/Control                        | DMX / 0-10V with Dimming Module / DALI                                                                                                                              |                             |                               |                            |                             |                              |
| MacAdam ellipse (SDCM)                 | 2-Step Binning                                                                                                                                                      |                             |                               |                            |                             |                              |
| Binning Tolerance                      | +/- 100K                                                                                                                                                            |                             |                               |                            |                             |                              |
| LED Beam Angle                         | 120°                                                                                                                                                                |                             |                               |                            |                             |                              |
| Lifetime (L70 reported)                | 43,000 hrs @ 131 °F (55 °C)                                                                                                                                         |                             |                               |                            |                             |                              |
| Cutable Length                         | 1.97 in. (50 mm)                                                                                                                                                    |                             |                               |                            |                             |                              |
| Constant Voltage                       | ✓                                                                                                                                                                   |                             |                               |                            |                             |                              |
| Cable Length                           | 12 in. (30.5 cm)                                                                                                                                                    |                             |                               |                            |                             |                              |
| Certifications                         | UL 2108 Issued: 2016/06/17 Ed: 1 Rev: 2021/10/16 Low Voltage Lighting Systems.<br>CSA C22.2 No. 250.0, General Requirements for Luminaires.<br>ROHS compliant<br>CE |                             |                               |                            |                             |                              |

| 24V DIMENSIONS | Top View                                                                                                                    | Side View                                                                             | Dimensions                                                                                    |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| IP20           |  <p>CUTTABLE EVERY: 1.97 in. (50 mm)</p> |  | <p>Width 0.31 in. (8 mm)<br/>Max Length 19 ft 8 in. (6 m)<br/>Height 0.09 in. (2.3 mm)</p>    |
| IP65           |  <p>CUTTABLE EVERY: 1.97 in. (50 mm)</p> |  | <p>Width 0.31 in. (8 mm)<br/>Max Length 19 ft 8 in. (6 m)<br/>Height 0.125 in. (3.2 mm)</p>   |
| IP68           |  <p>CUTTABLE EVERY: 1.97 in. (50 mm)</p> |  | <p>Width 0.44 in. (11.2 mm)<br/>Max Length 19 ft 8 in. (6 m)<br/>Height 0.18 in. (4.5 mm)</p> |

OPTIONAL ACCESSORY

| 0-10V Dimmable 90W VW/WD Driver                                                                                          | Flat Mounting Clip                                                                                                                                     | Silicone Clip                                                                                                                                      | 0.5 in. VHB Tape**                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Part Number: DRVRFWDVW2490120</p> |  <p>For mounting IP20/IP65 RibbonLyte<br/>Part Number: RBMNTSIL</p> |  <p>For mounting IP68 RibbonLyte<br/>Part Number: RBMNTSILW</p> |  <p>Provides superior holding power in surface mounted applications<br/>Part Number: VHBTAPE0.5BK</p> |

**EXAMPLE:** When calculating supported loads with this module and 6.0 Variable White RibbonLyte (6.0 W/ft), you can divide the module's total rated power of 96W by half of the RibbonLyte's wattage per foot to get the total length supported.  $96 / 3 = 32$  ft of RibbonLyte.

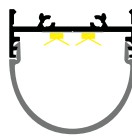
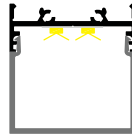
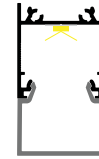
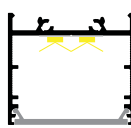
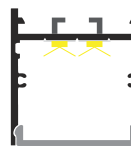
\*\* RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.

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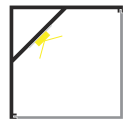
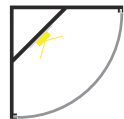
CHANNEL COMPATIBILITY / CHANNEL OPTIONS

| CHANNEL | IP20<br>IP65 | IP68 | SURFACE CHANNELS |  |  |  |  |  |  |
|---------|--------------|------|------------------|--|--|--|--|--|--|
| AC1     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AC2     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AC3     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AC4     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AC5     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AR1     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AR3     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS1     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS2     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS3     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS5     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS6     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS10    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS11    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS13    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS16    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS18    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS20G   | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS23    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS30    | ✓            | ✓    |                  |  |  |  |  |  |  |
| AS53    |              |      |                  |  |  |  |  |  |  |
| AT4     | ✓            | ✓    |                  |  |  |  |  |  |  |
| AT5     | ✓            | ✓    |                  |  |  |  |  |  |  |
| B1      | ✓            | ✓    |                  |  |  |  |  |  |  |
| SC3     | ✓            | ✓    |                  |  |  |  |  |  |  |
| WH35    | ✓            | ✓    |                  |  |  |  |  |  |  |

SURFACE CHANNELS

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |
| <b>AS1</b>                                                                        | <b>AS2</b>                                                                        | <b>AS3</b>                                                                        | <b>AS5</b>                                                                        | <b>AS6</b>                                                                          | <b>AS10</b>                                                                         | <b>AS11</b>                                                                         |
| W: 0.68 in. / 17.2 mm<br>H: 0.34 in. / 8.6 mm<br>Inside W: 0.48 in. / 12.2 mm     | W: 0.7 in. / 17.8 mm<br>H: 0.6 in. / 15.2 mm<br>Inside W: 0.49 in. / 12.5 mm      | W: 0.93 in. / 23.6 mm<br>H: 0.42 in. / 10.7 mm<br>Inside W: 0.81 in. / 20.6 mm    | W: 0.76 in. / 19.4 mm<br>H: 0.43 in. / 11 mm<br>Inside W: 0.47 in. / 12 mm        | W: 0.89 in. / 22.5 mm<br>H: 0.62 in. / 15.7 mm<br>Inside W: 0.71 in. / 18 mm        | W: 0.47 in. / 12 mm<br>H: 0.47 in. / 12 mm<br>Inside W: 0.39 in. / 10 mm            | W: 0.52 in. / 13.1 mm<br>H: 0.54 in. / 13.7 mm<br>Inside W: 0.41 in. / 10.5 mm      |
|  |  |  |  |  |  |  |
| <b>AS16</b>                                                                       | <b>AS13 / round lens</b>                                                          | <b>AS13 / square lens</b>                                                         | <b>AS18</b>                                                                       | <b>AS20G</b>                                                                        | <b>AS23</b>                                                                         | <b>AS23 / square lens</b>                                                           |
| W: 0.74 in. / 18.8 mm<br>H: 0.73 in. / 18.6 mm<br>Inside W: 0.65 in. / 16.4 mm    | W: 1.31 in. / 33.4 mm<br>H: 1.29 in. / 32.7 mm<br>Inside W: 1.22 in. / 31 mm      | W: 1.31 in. / 33.4 mm<br>H: 1.37 in. / 34.8 mm<br>Inside W: 1.22 in. / 31 mm      | W: 0.92 in. / 23.4 mm<br>H: 1.1 in. / 27.8 mm<br>Inside W: 0.73 in. / 18.6 mm     | W: 0.61 in. / 15.5 mm<br>H: 0.71 in. / 18 mm<br>Inside W: 0.48 in. / 12.3 mm        | W: 0.91 in. / 23 mm<br>H: 0.99 in. / 25.1 mm<br>Inside W: 0.83 in. / 18.2 mm        | W: 0.91 in. / 23 mm<br>H: 1.59 in. / 40.5 mm<br>Inside W: 0.83 in. / 18.2 mm        |
|  |  |  |  |  |                                                                                     |                                                                                     |
| <b>AS30</b>                                                                       | <b>AT4</b>                                                                        | <b>AT5</b>                                                                        | <b>B1</b>                                                                         | <b>WH35</b>                                                                         |                                                                                     |                                                                                     |
| W: 1.31 in. / 33.4 mm<br>H: 1.17 in. / 29.6 mm<br>Inside W: 1.17 in. / 29.8 mm    | W: 0.77 in. / 19.6 mm<br>H: 0.74 in. / 18.8 mm<br>Inside W: 0.66 in. / 16.8 mm    | W: 0.77 in. / 19.6 mm<br>H: 0.74 in. / 18.8 mm<br>Inside W: 0.66 in. / 16.8 mm    | W: 0.77 in. / 19.6 mm<br>H: 0.26 in. / 6.5 mm<br>Inside W: 0.69 in. / 17.6 mm     | W: 1.37 in. / 35 mm<br>H: 1.47 in. / 37.5 mm<br>Inside W: 1.23 in. / 31.2 mm        |                                                                                     |                                                                                     |

CORNER CHANNELS

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>AC1</b>                                                                          | <b>AC2</b>                                                                          | <b>AC3</b>                                                                          | <b>AC4</b>                                                                           | <b>AC5</b>                                                                            |
| W: 0.63 in. / 16 mm<br>H: 0.63 in. / 16 mm<br>Inside W: 0.48 in. / 12.2 mm          | W: 0.63 in. / 16 mm<br>H: 0.63 in. / 16 mm<br>Inside W: 0.48 in. / 12.2 mm          | W: 0.74 in. / 18.8 mm<br>H: 0.74 in. / 18.8 mm<br>Inside W: 0.48 in. / 12.2 mm      | W: 1.18 in. / 30 mm<br>H: 1.18 in. / 30 mm<br>Inside W: 0.77 in. / 19.6 mm           | W: 1.18 in. / 30 mm<br>H: 1.18 in. / 30 mm<br>Inside W: 0.77 in. / 19.6 mm            |

RECESSED CHANNELS

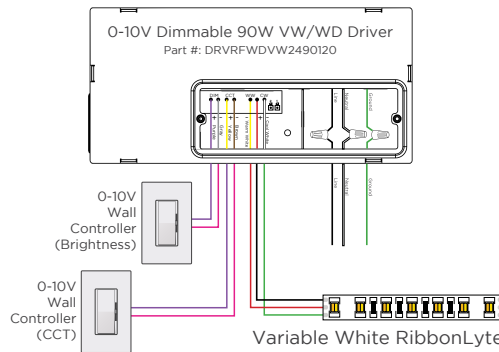
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| <b>AR1</b>                                                                          | <b>AR3</b>                                                                          |
| W: 0.9 in. / 22.9 mm<br>H: 0.31 in. / 7.87 mm<br>Inside W: 0.49 in. / 12.5 mm       | W: 1.2 in. / 30.5 mm<br>H: 0.39 in. / 9.9 mm<br>Inside W: 0.81 in. / 20.6 mm        |

MUD-IN CHANNELS

|                                                                                     |
|-------------------------------------------------------------------------------------|
|  |
| <b>SC3</b>                                                                          |
| W: 2.62 in. / 66.6 mm<br>H: 0.55 in. / 14 mm<br>Inside W: 0.69 in. / 17.5 mm        |

## WIRING DIAGRAMS

### 2-CHANNEL VARIABLE WHITE DIMMING



Note: 2-Channel 0-10V Dimming maintains a consistent light output level while changing color temperatures.

### WIRE COLORS PER RIBBONLYTE COLOR

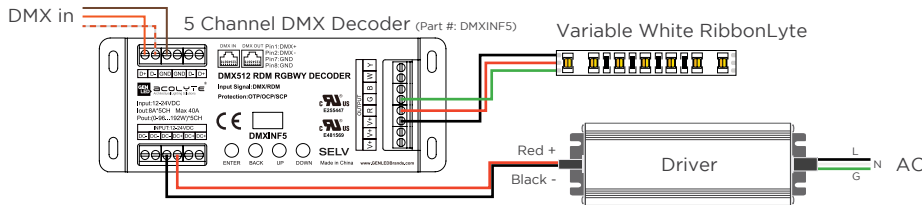
#### VARIABLE WHITE

Black Wire (+) Positive

Red Wire (-) Warm Channel

Green Wire (-) Cool Channel

### DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



## ACTUAL POWER CONSUMPTION

| Length (ft) | Length (m) | Actual Power Consumed (W) | Average Wattage (W/ft) | Average Wattage (W/m) | Actual Current Drawn (A) |
|-------------|------------|---------------------------|------------------------|-----------------------|--------------------------|
| 5           | 1.52       | 29.02                     | 5.80                   | 19.04                 | 1.209                    |
| 10          | 3.05       | 54.88                     | 5.49                   | 18.00                 | 2.287                    |
| 15          | 4.57       | 74.67                     | 4.98                   | 16.33                 | 3.111                    |
| 19.69       | 6.00       | 86.12                     | 4.37                   | 14.35                 | 3.588                    |

**NOTE:** Quotes use nominal values. We highly recommend using nominal wattages for all customer calculations. Allow for a 15% buffer (10% driver, 5% fixture) in these calculations as performance may vary. Acolyte is not liable for product performance if these tables are used instead of nominal values when orders are placed.

## USAGE GUIDELINES

- IP65 and IP68 RibbonLyte cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 60 °C / 140 °F (IP20) and the 50 °C / 122 °F (IP65/IP68) maximum for which our products are rated. High-risk locations like this should be avoided.
- IP20 RibbonLyte products are for indoor use in dry areas. IP65 RibbonLyte products can be used in indoor dry/damp locations such as bathrooms and kitchens. IP68 RibbonLyte products can be used in wet, outdoor locations around pools and spa tubs, but our products are not intended to be submerged in pools and fountains and do not carry UL676 certification to do so.
- Please refer to the RibbonLyte Proper Usage Guide in our Application Guide for more information. Available for download at AcolyteLED.com.
- This product is compatible with a wide variety of control products including the entire line of Lutron dimming systems.
- For use with Acolyte drivers, 0-10V dimming modules and interface controllers (DMXINF models).
- Use with non-Acolyte supplied drivers is not supported or warrantied.
- Due to the nature of RibbonLyte products, cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

REV.24NOV2025

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