## 3.0 VARIABLE WHITE SERIES 2 RIBBONLYTE

Our Variable White Series 2 RibbonLyte allows you to adjust for brightness and warmth like never before. Now with 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 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.

• Single-row, dual-chip layout means 140 LEDs per meter (42 LEDs per foot!)
• Available in three (3) wattages (1W/ft, 3W/ft, 6W/ft)
• 50 mm cut length adds amazing flexibility to your design
• Color temperature range of 2000K to 6500K and 90+ CRI
• 2-channel dimming! One channel controls brightness and one controls temperature

### Applications:

| | | |
|---|---|---|
| Commercial | Hospitality | Residential |
| Entertainment | Museums | Retail |
| Healthcare | Public Spaces | |

c(UL)us LISTED 317073    **RoHS**    **IP20**    **IP65**    **IP68**

QuickShip
5-Day QuickShip program applies to IP20 option only

## ORDERING GUIDE

| Category | CRI | Ribbon Type & IP Rating | Wattage + Color |
|---|---|---|---|
| RB | 0 | | 3.0VW |
| **RB** - Ribbonlyte | **0** - Color Changing | **VWS220** - VW Series 2 IP20 | **3.0VW** - 3.0 Variable White |
| | | **VWS265** - VW Series 2 IP65 | |
| | | **VWS268** - VW Series 2 IP68 | |

## 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

| 3.0 VARIABLE WHITE SERIES 2 RIBBONLYTE | |
|---|---|
| Operating Voltage | 24 V |
| Power Consumption | 3.0 W/ft (9.8 W/m) |
| Current (mA) - 24V | 125 mA/ft (410 mA/m) |
| LED Pitch | 42 LEDs/ft (140 LEDs/m) |
| Protection Rating | IP20, IP65, IP68 |
| Dimming/Control | DMX / 0-10V with Dimming Module |
| Operating Temperature | -40° F to 140° F (-40° C to 60° C) |
| Color Temperatures | 2000K – 6500K (IP20)<br>2000K – 6000K (IP65/IP68) |
| MacAdam Ellipses (SDCM) | 2-Step Binning |
| Maximum Light Output | 240 lm/ft (790 lm/m) |
| Binning Tolerance | +/- 100K |
| LED Beam Angle | 120° |
| Lamp Life | 43,000 hrs L70 @ 131° F (55° C) |
| Cuttable Length | 1.97 in. (50 mm) |
| Lumens/Watt | 72 - 90 lm/W (Warm - Cool LED) |
| 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 UL 2108. |

| 24V DIMENSIONS | Top View | Side View | Dimensions |
|---|---|---|---|
| IP20 | CUTTABLE EVERY: 1.97 in. (50 mm) | | **Width** 0.31 in. (8 mm)<br>**Max Length\*** 32 ft 8 in. (10 m)<br>**Height** 0.09 in. (2.3 mm) |
| IP65 | CUTTABLE EVERY: 1.97 in. (50 mm) | | **Width** 0.31 in. (8 mm)<br>**Max Length\*** 32 ft 8 in. (10 m)<br>**Height** 0.125 in. (3.2 mm) |
| IP68 | CUTTABLE EVERY: 1.97 in. (50 mm) | | **Width** 0.44 in. (11.2 mm)<br>**Max Length\*** 32 ft 8 in. (10 m)<br>**Height** 0.18 in. (4.5 mm) |

**VARIABLE WHITE DIMMING MODULE (Part #: VWDIMMOD) - COMPATIBLE WITH VWS2 3.0 RIBBONLYTE**

1 dimming module required per 30 ft (9.1 m)

### USAGE GUIDELINES

- IP65 and IP68 RibbonLyte are not field cuttable. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of this on the field or by end user will result in a voided warranty.
- When installing this product take into account the surface temperature of the material this product is mounted to. Many building surfaces which are exposed to direct sunlight exceed the 70° C / 158° F maximum that our product is rated for. High risk locations like this should be avoided.
- Our IP65 can be used in wet, outdoor locations around swimming 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 our RibbonLyte Proper Use Guide in our *Application Guide* for more information. Available for download at www.GENLEDBrands.com/Acolyte.
- 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 the product, RibbonLyte 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.

Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.
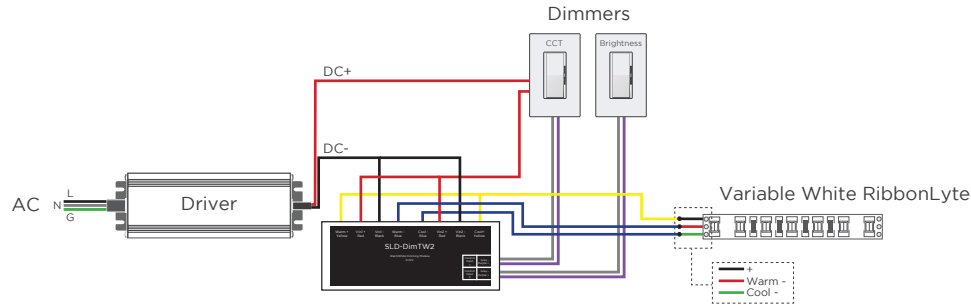
**GENLED ACOLYTE®**
Architectural Lighting Solutions

## CHANNEL COMPATIBILITY / CHANNEL OPTIONS

| CHANNEL | IP20 IP65 | IP68 |
|---|---|---|
| AC1 | ✓ | ✓ |
| AC2 | ✓ | ✓ |
| AC3 | ✓ | ✓ |
| AC4 | ✓ | ✓ |
| AC5 | ✓ | ✓ |
| AC14 | ✓ | |
| AP1 | ✓ | ✓ |
| AR1 | ✓ | |
| AR2 | ✓ | ✓ |
| AR3 | ✓ | ✓ |
| AR5 | ✓ | |
| AR8 | ✓ | |
| AR10 | ✓ | |
| AR14 | ✓ | |
| AR16 | ✓ | ✓ |
| AR20 | ✓ | ✓ |
| AR23 | ✓ | |
| AR25 | ✓ | ✓ |
| AR30 | ✓ | ✓ |
| AR33 | ✓ | ✓ |
| AS1 | ✓ | |
| AS2 | ✓ | ✓ |
| AS3 | ✓ | ✓ |
| AS6 | ✓ | ✓ |
| AS10 | ✓ | |
| AS12 | ✓ | ✓ |
| AS13 | ✓ | ✓ |
| AS14 | ✓ | |
| AS16 | ✓ | ✓ |
| AS20G | ✓ | |
| AS23 | ✓ | ✓ |
| AS28 | ✓ | ✓ |
| AS30 | ✓ | ✓ |
| AS53 | ✓ | ✓ |
| AT4 | ✓ | ✓ |
| AT5 | ✓ | ✓ |
| AT11 | ✓ | ✓ |
| AW10 | ✓ | |
| AW12 | ✓ | |
| AW14 | ✓ | ✓ |
| AW35 | ✓ | ✓ |
| AW38 | ✓ | ✓ |
| AW40 | ✓ | |
| B1 | ✓ | |
| B2 | ✓ | |
| C22 | ✓ | ✓ |
| GL1 | ✓ | ✓ |
| GL2 | ✓ | ✓ |
| ROUND | ✓ | ✓ |
| ROUND12 | ✓ | |
| ROUND20 | ✓ | ✓ |
| SC1 | ✓ | ✓ |
| SC2 | ✓ | ✓ |
| SC3 | ✓ | |
| SC4 | ✓ | ✓ |
| SC5 | ✓ | ✓ |
| SC6 | ✓ | ✓ |
| SC-CORNER1 | ✓ | |
| SC-CORNER2 | ✓ | |
| ST10 | ✓ | |
| W31 | ✓ | ✓ |
| WH35 | ✓ | ✓ |

### SURFACE MOUNTED CHANNELS

LENS OPTIONS: **C** - Clear   **F** - Frosted   **K** - Black   **M** - Milky   **NP** - Narrow Prismatic   **WP** - Wide Prismatic   **RM** - Round Milky   **SM** - Square Milky



| AC1 C, F, M | AC2 C, F, M | AC3 C, F, M | AC4 C, F, M | AC5 C, F, M | AC14 SM | AP1 C, K, M, SM | AS1 C, F, M |
|---|---|---|---|---|---|---|---|
| AS2 C, F, M | AS3 C, F, M | AS6 C, F, M | AS10 C, M | AS12 RM | AS13 RM, SM | AS14 SM | AS16 C, K, M |
| AS20G G | AS23 C, K, M, SM | AS28 M, NP, WP | AS30 M, RM, SM | AS53 M, NP, WP | AT4 C, F, M | AT5 C, F, M | AT11 C, F, M |
| AW10 C, K, M | AW12 C, K, M, RM | AW14 C, K, M | AW35 C, F, M | AW38 M, RM, SM | AW38 C, F, M | B1 C, F, M | B2 RM |
| C22 C, F, M | GL2 C, F, M | ROUND C, F, M | ROUND12 C, K, M | ROUND20 C, K, M | ST10 C, F, M | WH35 C, F, M | |

### RECESSED CHANNELS

LENS OPTIONS: **C** - Clear   **F** - Frosted   **K** - Black   **M** - Milky   **NP** - Narrow Prismatic   **WP** - Wide Prismatic   **RM** - Round Milky   **SM** - Square Milky

| AR1 C, F, M | AR2 C, F, M | AR3 C, F, M | AR5 M | AR8 C, F, M | AR10 C, M | AR14 SM | AR16 C, K, M |
|---|---|---|---|---|---|---|---|
| AR20 C, K, M, SM | AR23 C, K, M | AR25 M, RM, SM | AR30 M, RM, SM | AR33 M, NP, WP | GL1 C, F, M | SC1 M | SC2 M |
| SC3 M | SC4 M, RM, SM | SC5 M, RM, SM | SC6 C, K, M, SM | SC-CORNER1 M | SC-CORNER2 M | W31 C, F, M | |

### DISCLAIMER

When installing this product take into account the surface temperature of the material this product is mounted to. Many building surfaces which are exposed to direct sunlight exceed the 70°C/158°F maximum that our product is rated for. High risk locations like this should be avoided.

Our IP68 product is not intended to be submerged in pools and fountains and does not carry UL676 certification to do so.

# WIRING DIAGRAMS

## 2-CHANNEL DIMMING WIRING DIAGRAM

Dimmers

CCT | Brightness

DC+

DC-

AC
N
L
G

Driver

SLD-DimTW2

Warm 1 / Vol+ / Cool / Warm / Cool / Vol+ / Cool
Yellow / Red / Black / Blue / Blue / Red / Yellow

Variable White RibbonLyte

Warm -
Cool -

\* 0-100% flicker-free performance not guaranteed when used with non-Acolyte Drivers

## 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

Variable White RibbonLyte

DMX Interface

To
DMX
Controller

Red +

Black -

Driver

L
G
N   AC

REV.03DEC2021

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