GEN LED ACOLYTE®
Architectural Lighting Solutions

Date		Project	

Notes

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

cULus LISTED   CE   RoHS   IP20   IP65   IP68

Declare.   TM66 ASSESSED

ORDERING GUIDE

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

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 (854.11 lm/m)	210.7 lm/ft (691.1 lm/m)	437.4 lm/ft (1434.67 lm/m)	221.3 lm/ft (726 lm/m)	219.1 lm/ft (718.7 lm/m)	440.5 lm/ft (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 -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)					
Cuttable 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. CSA C22.2 No. 250.0, General Requirements for Luminaires. ROHS compliant CE					

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

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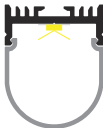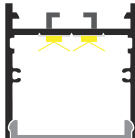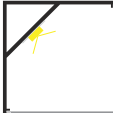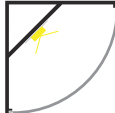
0-10V Dimmable 90W VW/WD Driver	Flat Mounting Clip	Silicone Clip	0.5 in. VHB Tape**
Part Number: DRVRFWDVW2490120	For mounting IP20/IP65 RibbonLyte Part Number: RBMNTSIL	For mounting IP68 RibbonLyte Part Number: RBMNTSILW	Provides superior holding power in surface mounted applications Part Number: VHBTAPE0.5BK

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

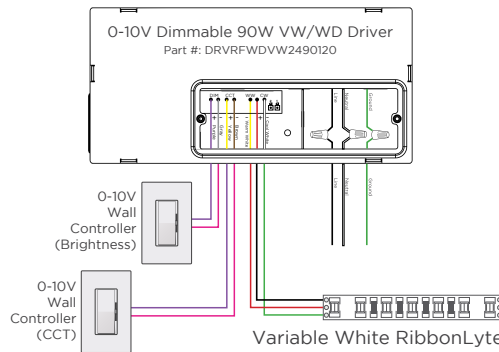| CHANNEL	IP20 IP65	IP68
AC1	✓	✓
AC2	✓	✓
AC3	✓	✓
AC4	✓	✓
AC5	✓	✓
AR1	✓	
AR3	✓	✓
AS1	✓	
AS2	✓	✓
AS3	✓	✓
AS6	✓	✓
AS11	✓	
AS18	✓	✓
AS20G	✓	
AS22	✓	✓
AT4	✓	✓
AT5	✓	✓
B1	✓	
SC3	✓	
WH35	✓	✓

SURFACE CHANNELS

AS1
W: 0.68 in. / 17.2 mm
H: 0.34 in. / 8.6 mm
Inside W: 0.48 in. / 12.2 mm

AS2
W: 0.7 in. / 17.8 mm
H: 0.6 in. / 15.2 mm
Inside W: 0.49 in. / 12.5 mm

AS3
W: 0.93 in. / 23.6 mm
H: 0.42 in. / 10.7 mm
Inside W: 0.81 in. / 20.6 mm

AS6
W: 0.89 in. / 22.5 mm
H: 0.62 in. / 15.7 mm
Inside W: 0.71 in. / 18 mm

AS11
W: 0.52 in. / 13.1 mm
H: 0.54 in. / 13.7 mm
Inside W: 0.41 in. / 10.5 mm

B1
W: 0.77 in. / 19.6 mm
H: 0.26 in. / 6.5 mm
Inside W: 0.69 in. / 17.6 mm

AS18
W: 0.92 in. / 23.4 mm
H: 1.1 in. / 27.8 mm
Inside W: 0.73 in. / 18.6 mm

AS20G
W: 0.61 in. / 15.5 mm
H: 0.71 in. / 18 mm
Inside W: 0.48 in. / 12.3 mm

AS22
W: 1.03 in. / 26.2 mm
H: 1.3 in. / 32.9 mm
Inside W: 0.87 in. / 22.2 mm

AT4
W: 0.77 in. / 19.6 mm
H: 0.74 in. / 18.8 mm
Inside W: 0.66 in. / 16.8 mm

AT5
W: 0.77 in. / 19.6 mm
H: 0.74 in. / 18.8 mm
Inside W: 0.66 in. / 16.8 mm

WH35
W: 1.37 in. / 35 mm
H: 1.47 in. / 37.5 mm
Inside W: 1.23 in. / 31.2 mm

CORNER CHANNELS

AC1
W: 0.63 in. / 16 mm
H: 0.63 in. / 16 mm
Inside W: 0.48 in. / 12.2 mm

AC2
W: 0.63 in. / 16 mm
H: 0.63 in. / 16 mm
Inside W: 0.48 in. / 12.2 mm

AC3
W: 0.74 in. / 18.8 mm
H: 0.74 in. / 18.8 mm
Inside W: 0.48 in. / 12.2 mm

AC4
W: 1.18 in. / 30 mm
H: 1.18 in. / 30 mm
Inside W: 0.77 in. / 19.6 mm

AC5
W: 1.18 in. / 30 mm
H: 1.18 in. / 30 mm
Inside W: 0.77 in. / 19.6 mm

RECESSED CHANNELS

AR1
W: 0.9 in. / 22.9 mm
H: 0.31 in. / 7.87 mm
Inside W: 0.49 in. / 12.5 mm

AR3
W: 1.2 in. / 30.5 mm
H: 0.39 in. / 9.9 mm
Inside W: 0.81 in. / 20.6 mm

MUD-IN CHANNELS

SC3
W: 2.62 in. / 66.6 mm
H: 0.55 in. / 14 mm
Inside W: 0.69 in. / 17.5 mm

WIRING DIAGRAMS

2-CHANNEL VARIABLE WHITE DIMMING

0-10V Dimmable 90W VW/WD Driver
Part #: DRVRFWDVW2490120

0-10V Wall Controller (Brightness)

0-10V Wall Controller (CCT)

Variable White RibbonLyte

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

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

Variable White RibbonLyte

5 Channel DMX Interface
Part #: DMXINFOLED5

DMX in

Red +
Black -

Driver

L / N
G

WIRE COLORS PER RIBBONLYTE COLOR

VARIABLE WHITE

Black Wire (+) Positive

Red Wire (-) Warm Channel

Green Wire (-) Cool Channel
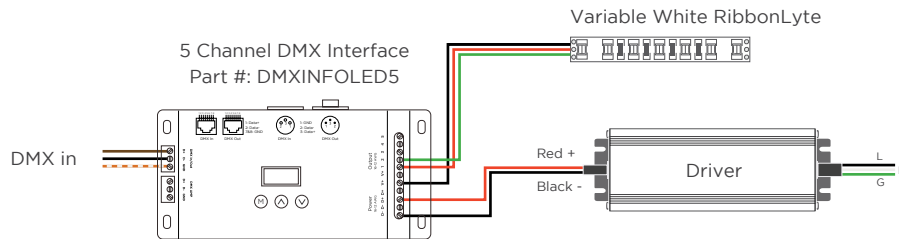
ACTUAL POWER CONSUMPTION

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.

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