WARM DIM 5.2 RIBBONLYTE

Warm Dim RibbonLyte features dual chip LEDs designed to add warm white light as the ribbon dims from full brightness. IP20 Warm Dim RibbonLyte is available in two ranges: 2900K-2000K and 3000K-1800K; IP65 and IP68 Warm Dim RibbonLyte is available in 2700K-2100K. Use Warm Dim RibbonLyte with our channel extrusions to create custom fixtures. Excellent color mixing, tight LED spacing and a smooth dimming gradient make Warm Dim RibbonLyte a great replacement for incandescent lighting.

- 2-in-1 dual-chip LEDs add warm white as they dim
- 5.2 W/ft (17 W/m)
- 0-10V dimmable
- IP20: 2900K-2000K or 3000K-1800K
  IP65/IP68: 2700K-2100K
- 36 LEDs/ft (120 LEDs/m)
- Cuttable every 3.94 in (100 mm)

c(UL)us 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	**WD20** - Warm Dim IP20	**5.22920** - 5.2 W/ft 2900K-2000K (IP20 only)
		WD65 - Warm Dim IP65	**5.23018** - 5.2 W/ft 3000K-1800K (IP20 only)
		WD68 - Warm Dim IP68	**5.22721** - 5.2 W/ft 2700K-2100K (IP65 or 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

WD

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

	WARM DIM 5.2 RIBBONLYTE				
Operating Voltage	24 V				
Power Consumption	5.2 W/ft (17 W/m)				
Current (mA)	217 mA/ft (711 mA/m)				
LED Pitch	36 LEDs/ft (120 LEDs/m)				
Protection Rating	IP20, IP65, IP68				
Dimming	0-10V				
Operating Temperature	-40 — 158 °F (-40 — 70 °C)				
Color Temperatures	**IP20:** 2900K-2000K or 3000K-1800K **IP65/IP68:** 2700K-2100K				
MacAdam Ellipses (SDCM)	3-step binning				
Lumens	313.4 lm/ft (1028 lm/m) LEDs at 100%				
Binning Tolerance	+/- 150K				
LED Beam Angle	120°				
Lifetime (L70 reported)	50,000 hours				
Cuttable Length	3.94 in (100 mm)				
CRI	80+				
Max Length	16.4 ft (5 m)				
Lumens/Watt	65 lm/W				
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				
Constant Voltage	✓				
Light Intensity Percentage / CCT	100% Brightness	75% Brightness	50% Brightness	25% Brightness	1% Brightness
CCT for IP20	2900K	2700K	2450K	2225K	2000K
CCT for IP20	3000K	2775K	2450K	2125K	1800K
CCT for IP65/IP68	2700K	2550K	2400K	2250K	2100K

DIMENSIONS

	Top View	Side View	Dimensions
IP20	 CUTTABLE EVERY: 3.94 in (100 mm)		**Width** 0.39 in (10 mm) **Max Length** 16.4 ft (5 m) **Height** 0.09 in (2.3 mm)
IP65	 CUTTABLE EVERY: 3.94 in (100 mm)		**Width** 0.39 in (10 mm) **Max Length** 16.4 ft (5 m) **Height** 0.125 in (3.2 mm)
IP68	 CUTTABLE EVERY: 3.94 in (100 mm)		**Width** 0.52 in (13.2 mm) **Max Length** 16.4 ft (5 m) **Height** 0.19 in (4.8 mm)

OPTIONAL ACCESSORY

0.5 in. VHB Tape	Flat Mounting Clip	Silicone Clip
Provides superior holding power in surface mounted applications Part Number: VHBTAPE0.5BK	For mounting IP20/IP65 RibbonLyte Part Number: RBMNTSIL	For mounting IP68 RibbonLyte Part Number: RBMNTSILW

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

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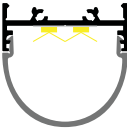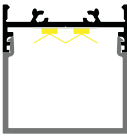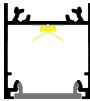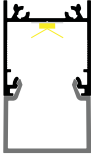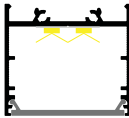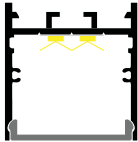
Part Number:
DRVRFWDVW2490120

Dimensions:
8.4 x 4.1 x 1.5 in. (213 x 104 x 38 mm)

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20 IP65	IP68
AC1	✓	
AC2	✓	
AC3	✓	
AC4	✓	✓
AC5	✓	✓
AR1	✓	
AR3	✓	✓
AR10		
AR16	✓	✓
AR20	✓	✓
AR25	✓	✓
AR30	✓	✓
AR33		
AS1	✓	
AS2	✓	
AS3	✓	✓
AS6	✓	✓
AS10		
AS13	✓	✓
AS16	✓	✓
AS20G	✓	
AS23	✓	✓
AS30	✓	✓
AS53		
AT4	✓	✓
AT5	✓	✓
AW12	✓	
AW14	✓	✓
AW38	✓	✓
B1	✓	
SC3	✓	
SC4	✓	✓
SC5	✓	✓
WH35	✓	✓

SURFACE CHANNELS

AS1
W: 0.68 in. / 17.2 mm
H: 0.34 in. / 8.7 mm
Inside: 0.57 in. / 14.6 mm

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

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

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

AS16
W: 0.74 in. / 18.8 mm
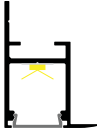H: 0.73 in. / 18.6 mm
Inside W: 0.65 in. / 16.4 mm
Inside H: 0.63 in. / 16 mm

AS20G
W: 0.61 in. / 15.5 mm
H: 0.47 in. / 12 mm
H w/ lens: 0.71 in / 18 mm
Inside W: 0.42 in. / 10.7 mm

AS13 / round milky
W: 1.31 in. / 33.4 mm
H: 1.29 in. / 32.7 mm
Inside W: 1.22 in. / 31 mm
Inside H: 1 in. / 25.3 mm

AS13 / square milky
W: 1.31 in. / 33.4 mm
H: 1.37 in. / 34.8 mm
Inside W: 1.22 in. / 31 mm
Inside H: 1.07 in. / 27.3 mm

AS23
W: 0.91 in / 23 mm
H: 0.99 in. / 25.1 mm
Inside W: 0.83 in / 21 mm
Inside H: 0.72 in. / 18.2 mm

AS23 / square milky
W: 0.91 in. / 23 mm
H: 1.59 in. / 40.5 mm
Inside W: 0.83 in. / 21 mm
Inside H: 1.32 in. / 33.4 mm

AS30
W/H: 1.31 in. / 33.4 mm
H: 1.17 in. / 29.6 mm
Inside W: 1.17 in. / 29.8 mm
Inside H: 0.93 in. / 23.6 mm

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

AW12
W: 0.91 in. / 23 mm
H: 2.17 in. / 55 mm
Inside W: 0.56 in. / 14.2 mm
Inside H: 0.22 in. / 5.5 mm

AW38
W: 1.5 in. / 38 mm
H: 1.31 in. / 33.4 mm
Inside W: 1.22 in. / 31 mm
Inside H: 1.17 in. / 29.8 mm

B1
W: 0.77 in / 19.6 mm
H: 0.26 in. / 6.5 mm
Inside W: 0.69 in / 17.6 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: 1.17 in. / 29.72 mm
H: 1.17 in. / 29.72 mm
Inside W: 0.8 in. / 20.32 mm

AC5
W: 1.11 in. / 28.19 mm
H: 1.11 in. / 28.19 mm
Inside W: 0.8 in. / 20.32 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

AR16
W: 1.1 in. / 28 mm
H: 0.73 in. / 18.6 mm
Inside W: 0.65 in. / 16.4 mm
Inside H: 0.64 in. / 16.2 mm

AR20
W: 1.18 in. / 30 mm
H: 0.8 in. / 20.4 mm
Inside W/H: 0.83 in. / 21 mm
Inside H: 0.73 in. / 18.5 mm

AR25
W: 1.75 in. / 44.4 mm
H: 0.94 in. / 24 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.91 in. / 23 mm

AR30
W: 1.75 in. / 44.4 mm
H: 0.55 in. / 14 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.51 in. / 13 mm

AW14
W: 0.98 in. / 24.9 mm
H: 1.31 in. / 33.4 mm
Inside W: 0.58 in. / 14.8 mm
Inside H: 0.63 in. / 16 mm

MUD-IN CHANNELS

SC3
Overall W: 2.62 in. / 66.6 mm
Visible W: 0.88 in. / 22.35 mm
H: 0.55 in. / 14 mm
Inside W: 0.69 in. / 17.5 mm

SC4
Overall W: 2.5 in. / 63.4 mm
Visible W: 1.31 in. / 33.4 mm
H: 0.63 in. / 15.9 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.5 in. / 12.9 mm

SC5
Overall W: 2.5 in. / 63.4 mm
Visible W: 1.31 in. / 33.4 mm
H: 0.94 in. / 24 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.83 in. / 21 mm

GEN LED ACOLYTE®
Architectural Lighting Solutions

WIRING DIAGRAMS
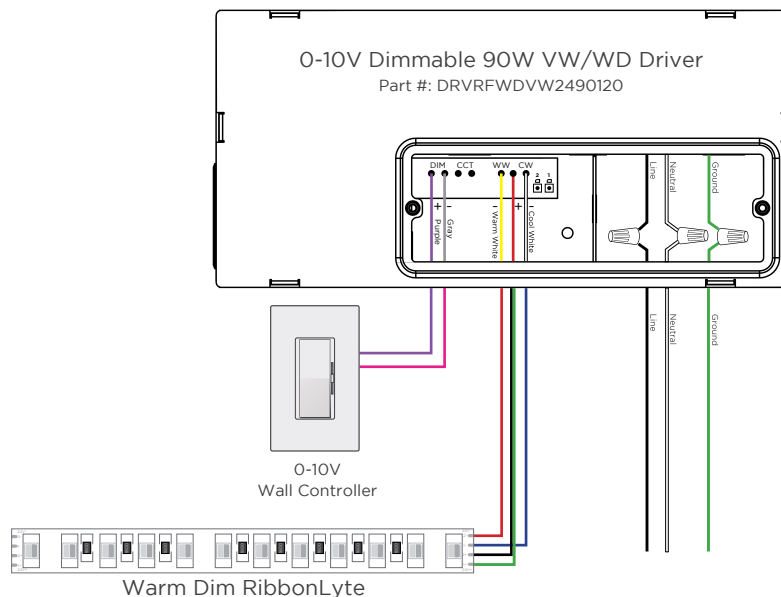
ACTUAL POWER CONSUMPTION

Length (ft)	Length (m)	Actual Power Consumed (W)	Average Wattage (W/ft)	Average Wattage (W/m)	Actual Current Drawn (A)
5	1.52	26.01	5.20	17.06	1.084
10	3.05	50.73	5.07	16.64	2.114
15	4.57	71.28	4.75	15.59	2.970
16.4	5.00	76.06	4.64	15.21	3.169

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 70 °C / 158 °F maximum for which our product is 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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