## RGBW ADDRESSABLE RIBBONLYTE

RGBW Addressable RibbonLyte allows you to create completely customized patterns of light that are only limited by the imagination. Each 4-in. pixel can be individually controlled. Pair RGBW Addressable RibbonLyte with simple DMX systems to program moving effects, patterns, chases and more to create an unforgettable light display.
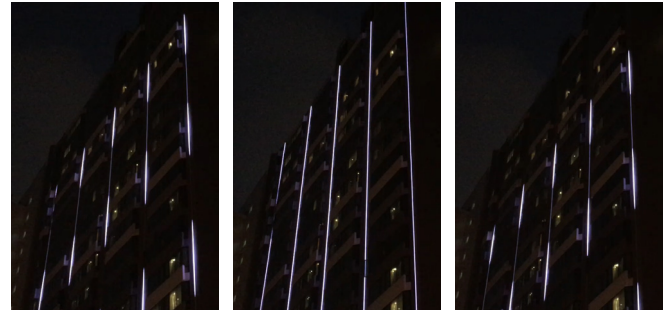
- 6.0 W/ft (19.7 W/m)
- All on: Up to 42 lm/W
- All on: 251.22 lm/ft (824 lm/m)
- 6 LEDs per pixel (18 LEDs/ft, 60 LEDs/m)
- 3.94 in. (100 mm) cuttable length
- 16 ft, 5.83 in. (5.025 m) max. run length (longer sections can be illuminated with multiple pieces of RibbonLyte with lead wire back to the controller or opto splitter)
- 120 degree beam angle
- Controlled with DMX512
- IP67 rating
- 24V input

Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	

c(UL)us LISTED   CE   RoHS   IP67

ORDERING GUIDE

| Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	**0**	**RGBWADD**	
RB - RIBBONLYTE	**0** - COLOR CHANGING	**RGBWADD** - RGBW ADDRESSABLE IP67	**6.0RGBW30** - 6.0 W/ft (19.7 W/m) RGBW (3000K)
			6.0RGBW40 - 6.0 W/ft (19.7 W/m) RGBW (4000K)
			6.0RGBW65 - 6.0 W/ft (19.7 W/m) RGBW (6500K)

See wiring diagram on page 4.

Controllers
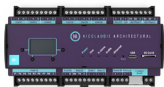
2 Universe DMX Controller
Part Number: DMXCTRLDR2U

- 1,024 channels
- 20 zones
- 2,000 scenes
- 16 mb internal memory
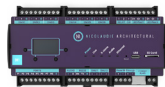
6 Universe DMX Controller
Part Number: DMXCTRLDR6U

- 3,072 channels
- 20 zones
- 2,000 scenes
- 16 mb internal memory

DMX Opto Splitter
Part Number: DMXOS8

- 8 DMX output terminals for 1 DMX input

AVAILABLE COLORS

RGBW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

RGBW ADDRESSABLE RIBBONLYTE	
Operating Voltage	24 V
Power Consumption	6 W/ft (19.7 W/m)
Current (mA) - 24V	250 mA/ft (820 mA/m)
LED Pitch	18 LEDs/ft (60 LEDs/m)
Protection Rating	IP67
Dimming/Control	DMX
Ambient/Storage Temperature	-4° F to 113° F (-20° C to 45° C) / -40° F to 158° F (-40° C to 70° C)
LED Beam Angle	120°
Lamp Life	50,000 Hours
Cuttable Length	3.94 in. (100 mm)
Constant Voltage	✓
Max Run Length	16 ft 5.83 in. (5.025 m)
Cable Length Attached to RibbonLyte	11.81 in. (300 mm)
Total Multiple Runs on Single DMX Universe	42 ft 8 in. (13 m)
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

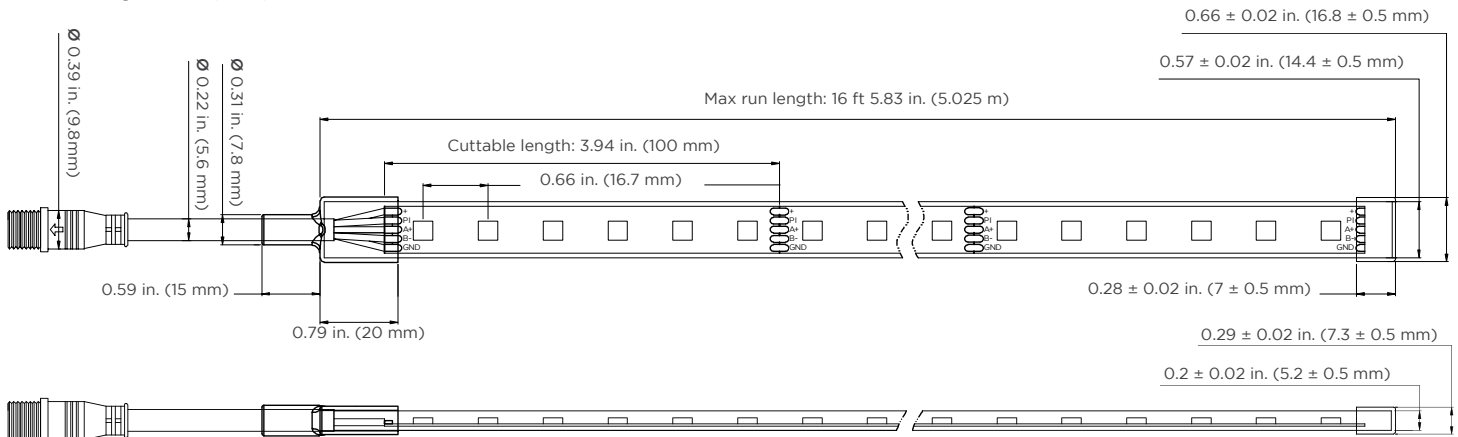| RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6 W/ft (19.7 W/m)
Lumen	33.54 lm/ft (110.01 lm/m)	90.24 lm/ft (295.99 lm/m)	21.34 lm/ft (70 lm/m)	97.56 lm/ft (320 lm/m)	234.15 lm/ft (768.01 lm/m)
Efficacy	22 lm/W	60 lm/W	14 lm/W	65 lm/W	39 lm/W

RGBW (4000K)					
	Red	Green	Blue	White (4000K)	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6 W/ft (19.7 W/m)
Lumen	33.54 lm/ft (110.01 lm/m)	90.24 lm/ft (295.99 lm/m)	21.34 lm/ft (70 lm/m)	103.66 lm/ft (340 lm/m)	246.34 lm/ft (808 lm/m)
Efficacy	22 lm/W	60 lm/W	14 lm/W	69 lm/W	41 lm/W

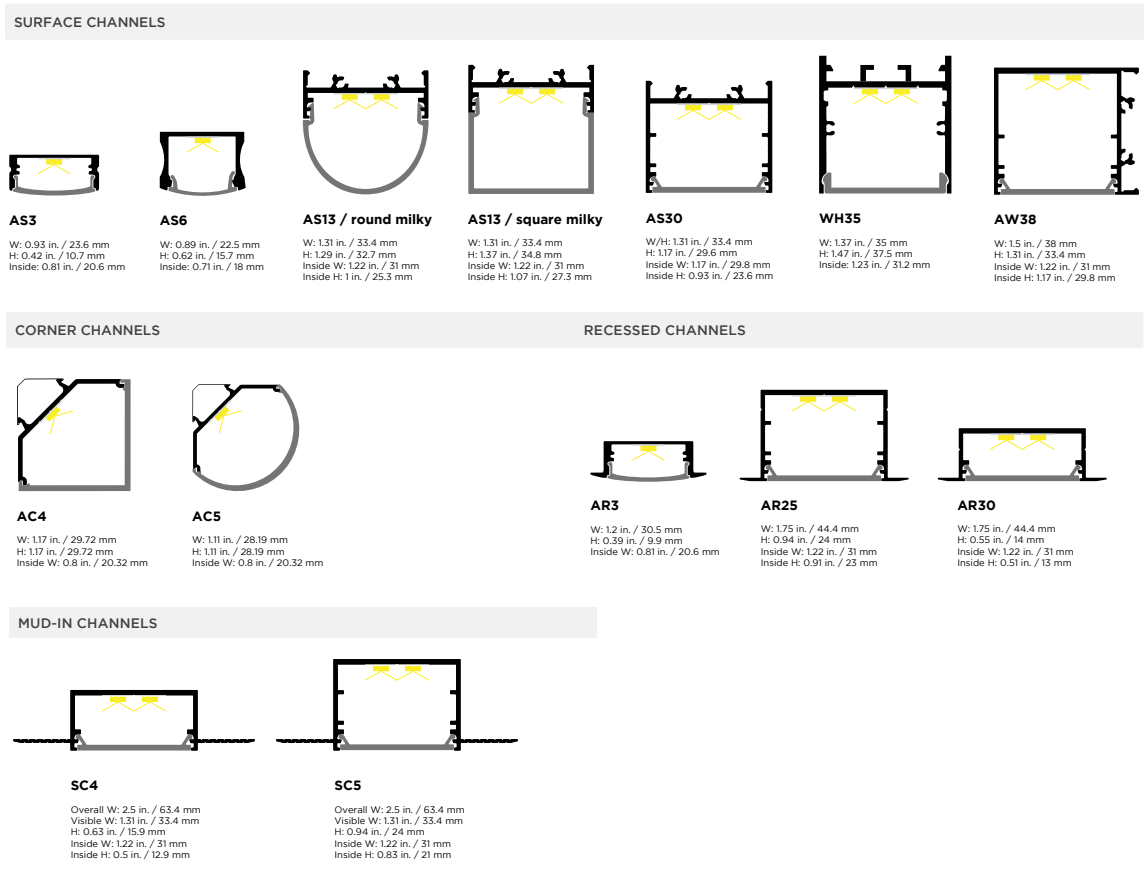| RGBW (6500K)					
	Red	Green	Blue	White (6500K)	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6 W/ft (19.7 W/m)
Lumen	33.54 lm/ft (110.01 lm/m)	90.24 lm/ft (295.99 lm/m)	21.34 lm/ft (70 lm/m)	106.71 lm/ft (350 lm/m)	251.22 lm/ft (824 lm/m)
Efficacy	22 lm/W	60 lm/W	14 lm/W	71 lm/W	42 lm/W

Dimensions

Overall Width: 0.65 in (16.5 mm)
Overall Height 0.28 in (7 mm)

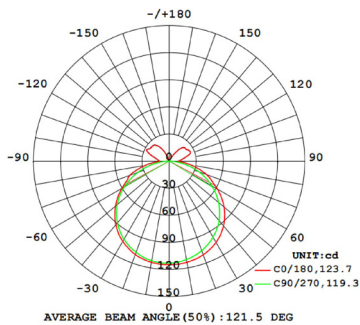NOTE: RGBW Addressable RibbonLyte comes with VHB adhesive backing.

GENLED ACOLYTE®
Architectural Lighting Solutions

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP67
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

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

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

AS30
W: 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

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

CORNER CHANNELS

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

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

MUD-IN CHANNELS

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

Luminous Intensity Distribution Diagram

UNIT:cd
C0/180,123.7
C90/270,119.3

AVERAGE BEAM ANGLE(50%) :121.5 DEG

Photometrics

Flux Out: 143.7 lm   CCT=2700K

0.02 m 167902,554247 lx	5.84 cm
0.04 m 41975,138562 lx	11.68 cm
0.06 m 18656,61583 lx	17.52 cm
0.08 m 10494,34640 lx	23.36 cm
0.1 m 6716,22170 lx	29.19 cm
0.12 m 4664,15396 lx	35.03 cm
0.14 m 3427,11311 lx	40.87 cm
0.16 m 2623,8660 lx	46.71 cm
0.18 m 2073,6843 lx	52.55 cm
0.2 m 1679,5542 lx	58.39 cm

Height Eavg, Emax   Beam Angle: 118.62°   Diameter

USAGE GUIDELINES

- IP67 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 45° C / 113° 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. IP67 and 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.
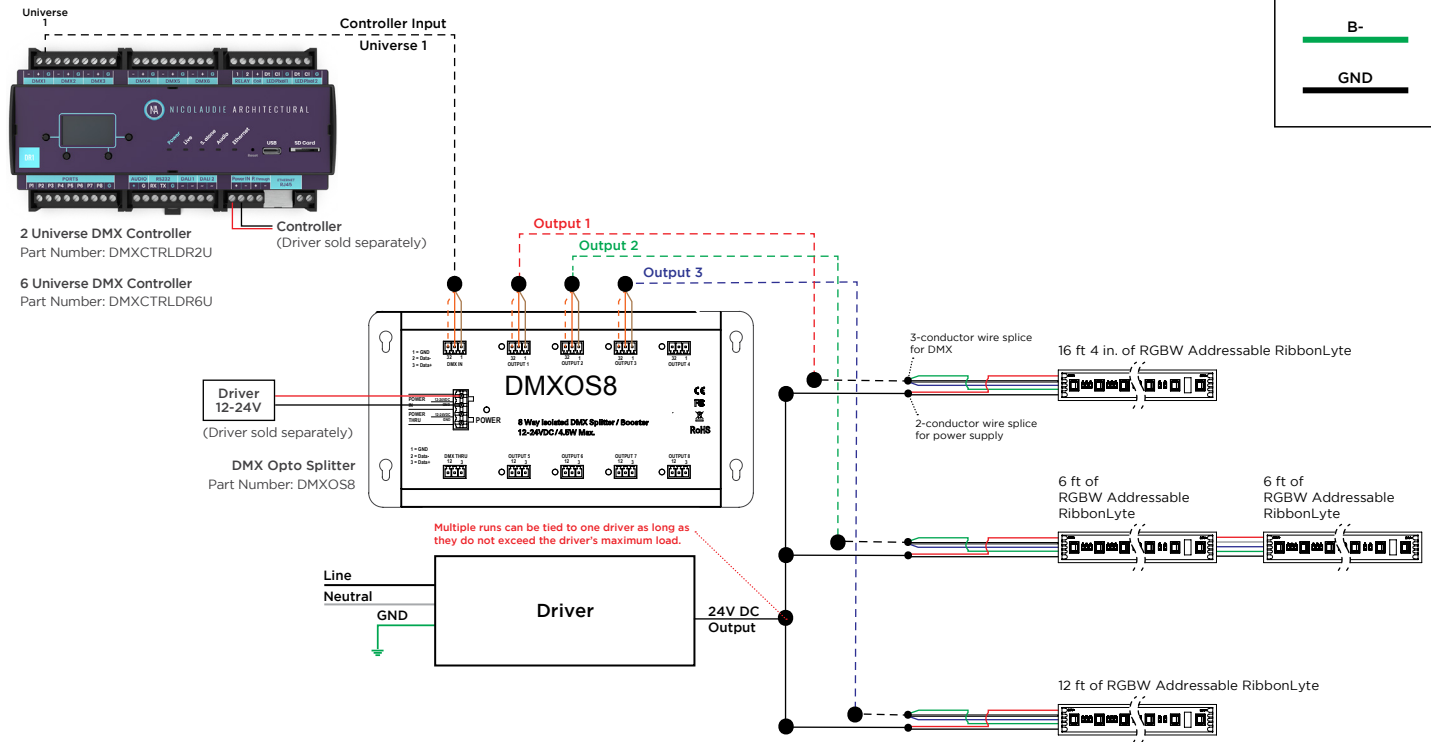
WIRING DIAGRAMS

One DMX Universe consists of 128 addresses and 512 channels (42 ft, 8 in. of RibbonLyte).

Any single run of RibbonLyte that is less than 16 ft, 4 in. can be wired directly to the controller.

For additional runs, Opto Splitter must be used. Each individual run will need its own Opto Splitter output.

WIRE INDEX

- **+**
- **PI**
- **A+**
- **B-**
- **GND**

MAX LENGTH BETWEEN DRIVER & RIBBONLYTE AT FULL LOAD																
Wattages	40		60		96 + 100		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG / 0.5 mm²	35	10.67	23	7.01	14	4.27	9	2.74	7	2.13	5.75	1.75	4.5	1.37	4.25	1.30
18 AWG / 0.75 mm²	56	17.07	37	11.28	23	7.01	15	4.57	11	3.35	9	2.74	7.5	2.29	7	2.13
16 AWG / 1.5 mm²	90	27.44	60	18.29	37	11.28	24	7.32	18	5.49	15	4.57	12	3.66	11	3.35
14 AWG / 2.5 mm²	142	43.29	95	28.96	59	17.99	38	11.59	28	8.54	23	7.01	19	5.79	17	5.18
12 AWG / 4 mm²	226	68.90	151	46.04	94	28.66	60	18.29	45	13.72	37	11.28	30	9.15	28	8.54
10 AWG / 6 mm²	360	109.76	240	73.17	150	45.73	96	29.27	72	21.95	60	18.29	48	14.63	45	13.72
8 AWG / 10 mm²	574	175.00	381	116.16	239	72.87	153	46.65	115	35.06	95	28.96	76	23.17	71	21.65

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