Radialux® 8.8 RGBW LED Tape Light

Actual size shown   cut point every 4 in.   0.8 in. wide
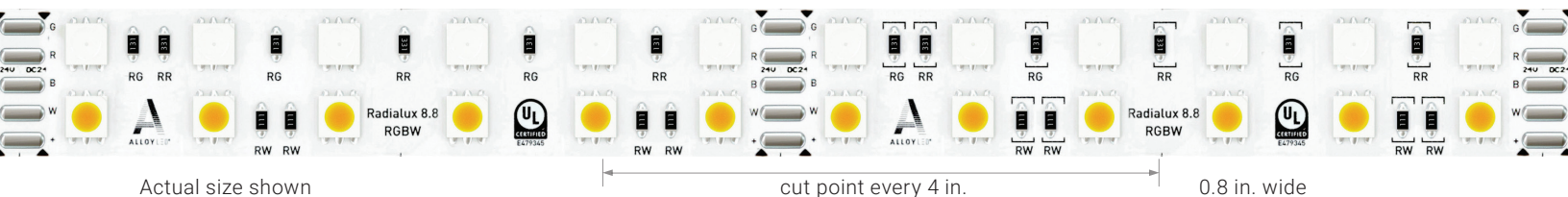
Radialux offers color-changing linear lighting for any space that requires dynamic lighting effects and dramatic accenting. With the use of an RGB color controller, Radialux tape lights can change colors at your choice of speeds or display any static color in the spectrum. Radialux 8.8 RGBWprovides super high-output color-changing lighting for larger applications, retail, and hospitality spaces.

- Large retail, hospitality, bar, restaurant, and entertainment applications
- Mix of white and RGB light provides both pastel and saturated color possibilities
- Two rows of diodes make installation quick and easy
- Low profile is ideal for indirect lighting and reveals

TECHNICAL INFORMATION

Color	RGB-W		**Dimmable**	Yes (with color controller)
Power Consumption Per Foot	8.8 Watts/360mA		**Diode Type**	5050 Epistar
Input Voltage	24V DC		**Mounting**	3M™ Self-Adhesive Tape (Non-porous)
Diodes per foot	36		**Operating Temperature**	-13° F to 140° F
Diode Spacing	0.65 inches		**Ambient Temperature**	-40° F to 186° F
Tape Height	0.1 inches		**Spool Lengths**	13 ft.*
Beam Angle	120°		**Environment**	Indoor, Dry
Field Cuttable (UL 2108)	Every 4 inches		**Certifications**	UL Listed, UL 2108, CE, RoHs
Color Temperature	3000K (White)		**Warranty**	6 Year Limited
Max Run Length	13 feet			

*Each spool includes 3 ft., 20 AWG tinned lead wires at each end.

PRODUCT INFORMATION

Item Number	Length	Voltage	Lumens
AL-02-14-2421	13 ft.	24V DC	493

VOLTAGE DROP GUIDANCE CHART

Standard Non-XT 24V Voltage Drop and Wire Length Distance Chart (3% Drop or 24V)
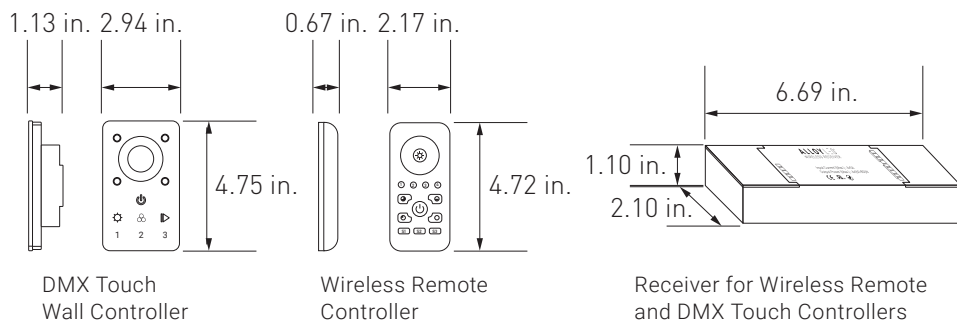
Wire Gauge	Copper Wire Resistance (O/kFT)	10W (0.42A)	20W (0.83A)	30W (1.25A)	40W (1.67A)	50W (2.08A)	60W (2.50A)	70W (2.92A)	80W (3.33A)	90W (3.75A)	96W (4A)
22 AWG	16.14	54 ft.	27 ft.	18 ft.	14 ft.	11 ft.	9 ft.	8 ft.	7 ft.	6 ft.	6 ft.
20 AWG	10.15	86 ft.	43 ft.	29 ft.	22 ft.	18 ft.	15 ft.	13 ft.	11 ft.	10 ft.	9 ft.
18 AWG	6.39	136 ft.	68 ft.	46 ft.	34 ft.	28 ft.	23 ft.	20 ft.	17 ft.	16 ft.	15 ft.
16 AWG	4.02	216 ft.	108 ft.	72 ft.	54 ft.	44 ft.	36 ft.	31 ft.	27 ft.	24 ft.	23 ft.
14 AWG	2.53	343 ft.	172 ft.	115 ft.	86 ft.	69 ft.	58 ft.	49 ft.	43 ft.	39 ft.	36 ft.
12 AWG	1.59	545 ft.	273 ft.	182 ft.	137 ft.	109 ft.	91 ft.	78 ft.	69 ft.	61 ft.	57 ft.
10 AWG	0.99	865 ft.	433 ft.	289 ft.	217 ft.	173 ft.	145 ft.	124 ft.	109 ft.	97 ft.	91 ft.

Note: These tables provide general guidelines for determining Wire Gauge based on total load and distance from LED driver to beginning of luminaire.

ACCESSORIES (SOLD SEPARATELY)

Recommended Accessories

See our website for the full range of RGB/RGBWcontrollers and accessories.

1.13 in. 2.94 in. 0.67 in. 2.17 in. 6.69 in. 4.75 in. 4.72 in. 1.10 in. 2.10 in.

DMX Touch Wall Controller

Wireless Remote Controller

Receiver for Wireless Remote and DMX Touch Controllers

Item Number	Description
AL-60-03-0002*	DMX Touch Wall Controller
AL-60-03-0003*	Wireless Remote Controller
AL-60-03-0004-V2	Receiver for Wireless Remote and DMX Touch Controllers

*Use with the Wireless Receiver AL-60-03-0004-V2 (sold separately)

Mean Well Non-Dimmable Drivers

Item Number	Voltage	Wattage	Dimensions
AL-98-04-24036	24V DC	36W	5.83 x 1.58 x 1.18 in.
AL-98-04-24060	24V DC	60W	6.4 x 1.67 x 1.26 in.
AL-98-04-24100	24V DC	100W	7.5 x 2 x 1.46 in.
AL-98-04-24151	24V DC	151W	7.52 x 2.5 x 1.48 in.
AL-98-04-24200	24V DC	200W	8.47 x 5.43 x 1.18 in.

ACCESSORIES (SOLD SEPARATELY)

AmpChamp: For a more secure connection

0.29 in.

0.87 in.   0.39 in.
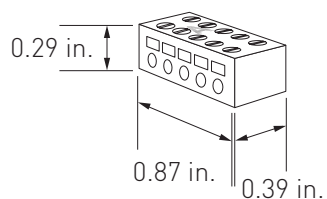
Accepts many combinations of tape and wire. Includes one mounting clip, 3M® adhesive backing, and pre-attached 6 inch in-wall-rated 18 AWG lead wire.
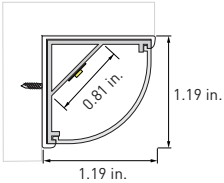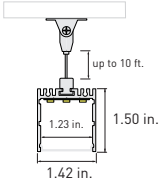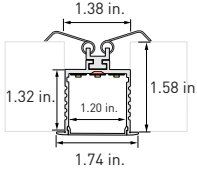
Straight AmpChamp
AL-02-14-9900
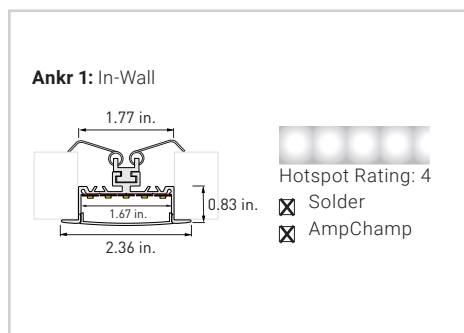AL-02-14-9900-10 (10-pack)
AL-02-14-9900-100 (100-pack)

page 3 of 6

www.AlloyLED.com | Call: 800.910.LEDS [5337] | solutions@AlloyLED.com
Specifications subject to change without notice.

v4

COMPATIBLE CHANNELS (Diagrams below not to scale)

Reduced Hotspot Pairings (Hotspot Rating from 0-5)

Surfa 2X: Corner-Mount

0.81 in.
1.19 in.
1.19 in.

Hotspot Rating: 1
☒ Solder
☒ AmpChamp

Suspan 1: Suspended

up to 10 ft.
1.23 in.
1.50 in.
1.42 in.

Hotspot Rating: 0
☒ Solder
☒ AmpChamp

Ankr 2: In-Wall

1.38 in.
1.32 in.
1.20 in.
1.58 in.
1.74 in.

Hotspot Rating: 0
☒ Solder
☒ AmpChamp

page 4 of 6

www.AlloyLED.com | Call: 800.910.LEDS [5337] | solutions@AlloyLED.com
Specifications subject to change without notice.

v4

COMPATIBLE CHANNELS (Diagrams below not to scale)

Other Compatible Pairings (Hotspot Rating from 0-5)

Ankr 1: In-Wall

1.77 in.

0.83 in.

1.67 in.

2.36 in.

Hotspot Rating: 4

☒ Solder

☒ AmpChamp

v4

ALLOYLED® Specifications

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

ALLOY'S A TOP CHOICE

Alloy LED PowerFactor™ Non-Dimmable Power Supplies with Integrated UL Listed Junction Box
Reliable, efficient low voltage power to RGB and RGBW color controllers and for use with white tape light on an on/off switch
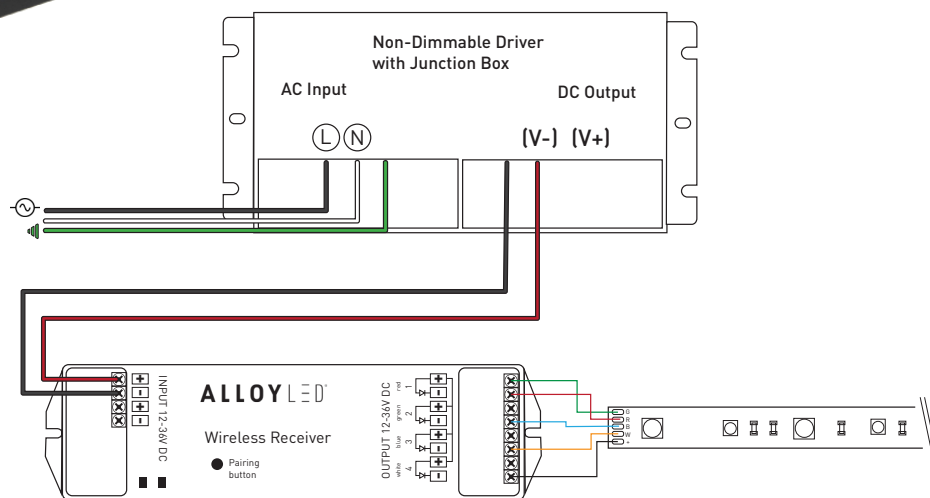
Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.
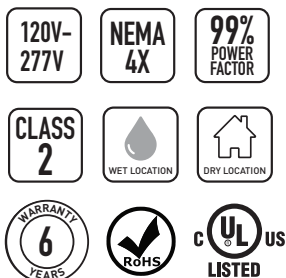
Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (Junction box) (L x W x H)	Class 2
AL-98-12-24030	24V DC	30W	Yes (NEMA 4X)	10%	6.5 x 3.72 x 1.57 in.	Yes
AL-98-12-24060	24V DC	60W	Yes (NEMA 4X)	10%	7.4 x 3.72 x 1.57 in.	Yes
AL-98-12-24080	24V DC	80W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-12-24096	24V DC	96W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-12-24192-MT	24V DC	2*96W	Yes (NEMA 4X)	10%	10.94 x 4.25 x 1.77 in.	Yes
AL-98-12-24288-MT	24V DC	3*96W	Yes (NEMA 4X)	10%	11.85 x 4.25 x 1.77 in.	Yes

Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations.
Always install in accordance with local and national electrical code regulations.
Inspectors prefer power supply to be used with junction box.
For dimmer compatibility, refer to drivers specification sheet.