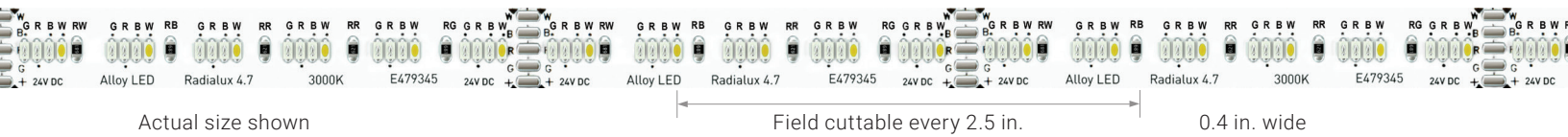


ALLOY LED® Specifications

Radialux® 4.7 LP (Low-Profile) RGBW LED Tape Light



Radialux 4.7 LP uses low-profile diodes in a tight array to ensure a smooth, hotspot-free line of light. Use this tape light in selected models of Alloy LED’s mounting channels with diffuser—like Surfa 7 surface-mount and Ankr 4 Mud-In—for a perfectly blended line of color-changing LED light. RGBWtape light can be adjusted with a color controller to provide both saturated and pastel colors.

- Perfect brightness for medium-sized applications, retail, and hospitality spaces
- Mix of white and RGB diodes offers both pastel and saturated color possibilities
- Choose warm, neutral, or cool white with select controllers

TECHNICAL INFORMATION

Color	RGB-W
Power Consumption Per Foot	4.7 Watts / 183mA
Input Voltage	24V DC
Diodes per foot	117
Diode Spacing	N/A
Tape Height	0.1 inches
Beam Angle	120°
Field Cuttable (UL 2108)	Every 2.5 inches
Color Temperature	3000K (white)
Max Run Length	16.4 ft.

Dimmable	Yes (with color controller)
Diode Type	2110
Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	-13° F to 140° F
Ambient Temperature	-40° F to 186° F
Spool Lengths*	32 ft.
Environment	Indoor, Dry
Certifications	UL Listed, UL 2108, CE, RoHS
Warranty	6 Year Limited

\*Each spool comes with 36 in. 20 AWG tinned lead wires at each end.

CUSTOMIZATION

This product is ONLY offered with soldered leads.  
Contact us to learn more.

PRODUCT INFORMATION

Item Number	Length	Voltage	Lumens
AL-02-05-2421	32 ft.	24V DC	229

## VOLTAGE DROP GUIDANCE CHART

24V Voltage Drop and Wire Length Distance Chart (3% Drop or 23.28V)

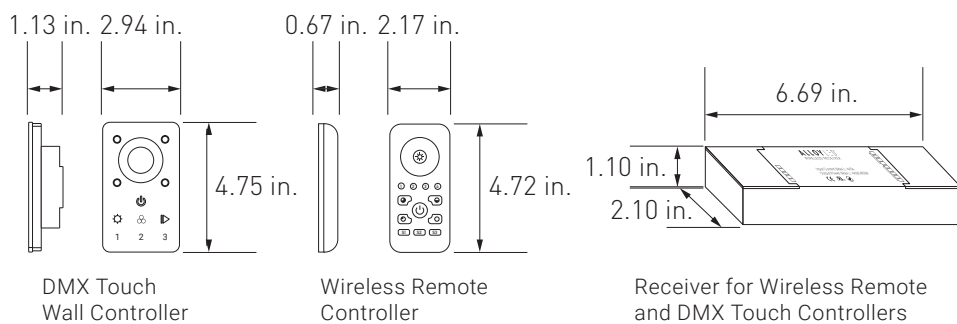
10W (0.42A)	20W (0.83A)	30W (1.3A)	40W (1.7A)	50W (2.1A)	60W (2.5A)	70W (2.9A)	80W (3.3A)	90W (3.75A)	100W (4.2A)	Wire Gauge
85 ft.	43 ft.	27 ft.	21 ft.	17 ft.	14 ft.	12 ft.	11 ft.	9 ft.	8 ft.	20 AWG
134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	15 ft.	14 ft.	18 AWG
215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	24 ft.	22 ft.	16 AWG
345 ft.	174 ft.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	39 ft.	36 ft.	14 AWG
539 ft.	272 ft.	181 ft.	135 ft.	108 ft.	90 ft.	77 ft.	68 ft.	61 ft.	56 ft.	12 AWG
784 ft.	397 ft.	263 ft.	197 ft.	158 ft.	131 ft.	112 ft.	98 ft.	97 ft.	82 ft.	10 AWG

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/RGBW controllers and accessories.



Item Number	Description
AL-60-03-0002*	Wireless Remote Controller
AL-60-03-0003*	DMX Touch Wall 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)



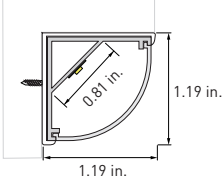
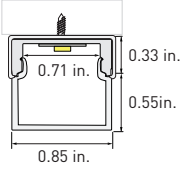
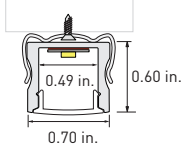
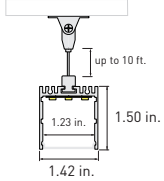
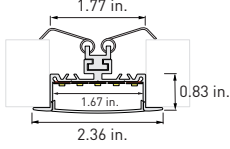
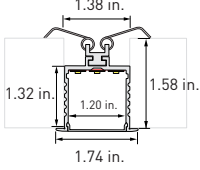
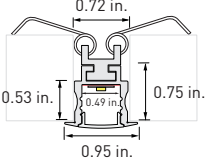
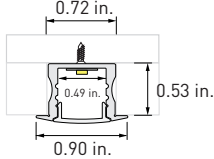
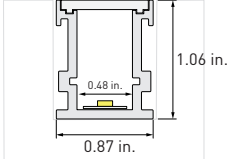
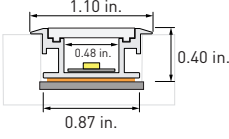
Mean Well Non-Dimmable Drivers

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.

# ALLOY LED® Specifications

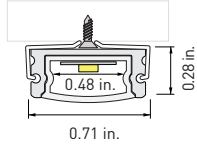
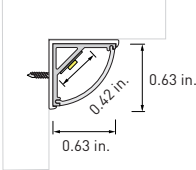
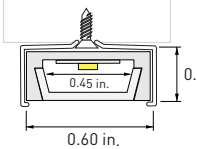
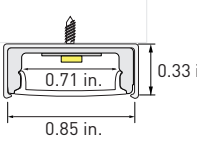
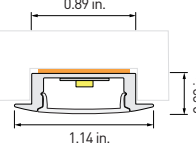
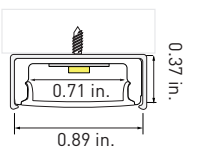
## COMPATIBLE CHANNELS (Diagrams below not to scale)

### Reduced Hotspot Pairings (Hotspot Rating from 0-5)

<p><b>Surfa 2X: Corner-Mount</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Surfa 6 Surround: Surface-Mount</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Surfa 7: Surface-Mount</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>
<p><b>Suspan 1: Suspended</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Ankr 1: In-Wall</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Ankr 2: In-Wall</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>
<p><b>Ankr 3: In-Wall</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Ankr 4: Mud-In</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Duro 1: In-Ground</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>
<p><b>Duro 2: In-Ground</b></p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Solder</li> <li><input type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>		

COMPATIBLE CHANNELS (Diagrams below not to scale)

Other Compatible Pairings (Hotspot Rating from 0-5)

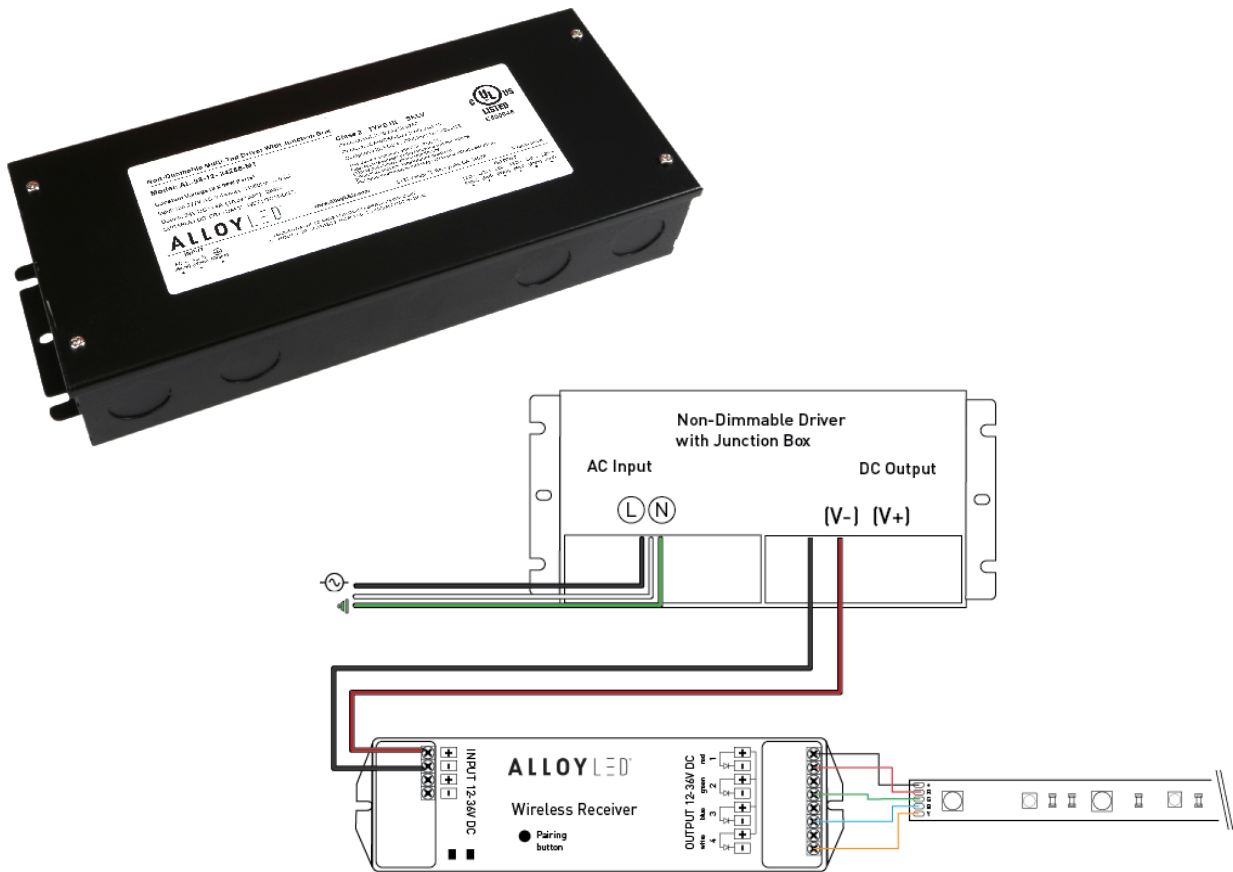
<p><b>Surfa 1: Surface-Mount</b></p>  <p>Hotspot Rating: 2</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Solder</li><li><input type="checkbox"/> Connector</li><li><input type="checkbox"/> AmpChamp</li></ul>	<p><b>Surfa 2: Corner-Mount</b></p>  <p>Hotspot Rating: 2</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Solder</li><li><input type="checkbox"/> Connector</li><li><input type="checkbox"/> AmpChamp</li></ul>	<p><b>Surfa 3: Surface-Mount</b></p>  <p>Hotspot Rating: 5</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Solder</li><li><input type="checkbox"/> Connector</li><li><input type="checkbox"/> AmpChamp</li></ul>
<p><b>Surfa 6: Surface-Mount</b></p>  <p>Hotspot Rating: 2</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Solder</li><li><input type="checkbox"/> Connector</li><li><input type="checkbox"/> AmpChamp</li></ul>	<p><b>Naro 4: Recessed</b></p>  <p>Hotspot Rating: 2</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Solder</li><li><input type="checkbox"/> Connector</li><li><input type="checkbox"/> AmpChamp</li></ul>	<p><b>Polymer: Surface-Mount</b></p>  <p>Hotspot Rating: 2</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Solder</li><li><input type="checkbox"/> Connector</li><li><input type="checkbox"/> AmpChamp</li></ul>

ALLOY LED® Specifications

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



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.

120V-277V

NEMA 4X

99% POWER FACTOR

CLASS 2

WET LOCATION

DRY LOCATION

WARRANTY 6 YEARS

RoHS

UL LISTED

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.