

ALLOY LED® Specifications

Radialux® 4.4 Wet Location 24V RGB LED Tape Light



Wet Location Radialux offers color-changing linear lighting for indoor and outdoor spaces that require dynamic lighting effects and dramatic accenting. With an RGB color controller, Radialux tape can change colors at your choice of speeds, or display any static color in the spectrum. Radialux 4.4 provides high output lighting for larger applications, retail, and commercial spaces.

- Perfect brightness for medium applications, architectural accenting, retail, restaurants and bars
- Protected against moisture, dust and other elements
- Fits well in tight indoor and outdoor spaces

TECHNICAL INFORMATION

Color	RGB
Power Consumption Per Foot	4.32 Watts/180mA
Input Voltage	24V DC
Diodes per foot	18
Diode Spacing	0.65 in.
Tape Height	0.2 inches
Beam Angle	120°
Field Cuttable (UL 2108)	Every 4 in.
Max Run Length	16.4 feet

\*Each spool includes 36 in., 20 AWG tinned lead wires at each end.

Dimmable	Yes (with color controller)
Diode Type	5050 SMD
Mounting	3M™ Self-Adhesive Tape (Acrylic Foam), Mounting Clips (Included)
Operating Temperature	-13° F to 140° F
Ambient Temperature	-40° F to 186° F
Spool Length*	16.4 ft.
Environment	Indoor/Outdoor, Dry/Wet, IP68
Certifications	UL Listed, UL 2108, CE, RoHS
Warranty	6 Year Limited

PRODUCT INFORMATION

Item Number	Length	Voltage	Lumens
AL-02-02-2461	16.4 ft.	24V DC	193

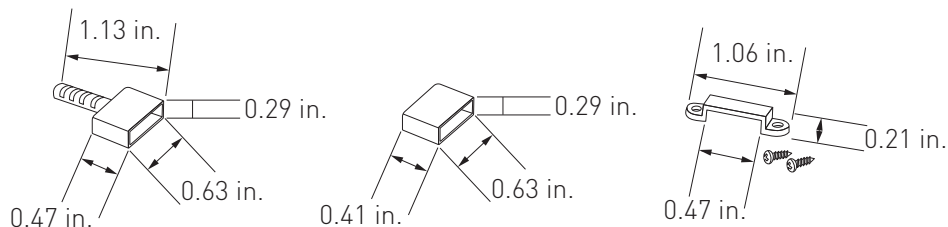
## VOLTAGE DROP GUIDANCE CHART

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

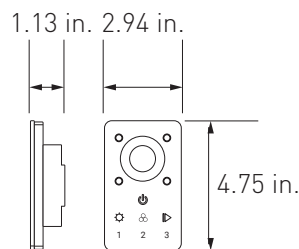
Note: These tables provide general guidelines for determining Wire Gauge based on total load and distance from LED driver to beginning of luminaire.

## ACCESSORIES (INCLUDED)



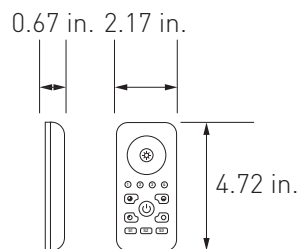
All spools include 5 splice sleeves, 10 waterproof end caps, and 10 mounting clips with 20 screws.

## ACCESSORIES (SOLD SEPARATELY)



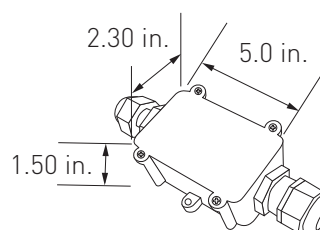
DMX Touch Wall Controller

AL-60-03-0003  
Use with the Wireless Receiver  
AL-60-03-0004-V2  
(sold separately)



Wireless Remote Controller

AL-60-03-0002  
Use with the Wireless Receiver  
AL-60-03-0004-V2  
(sold separately)



Waterproof Junction Box - 2 Ports / 5 Terminals

AL-98-05-99003-2

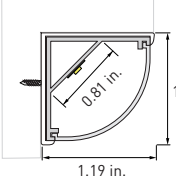
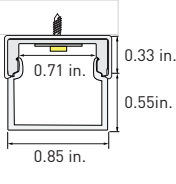
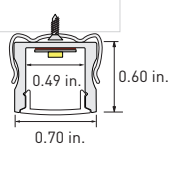
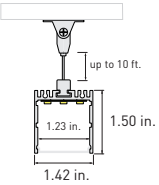
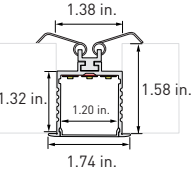
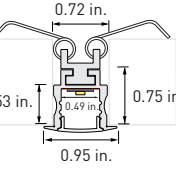
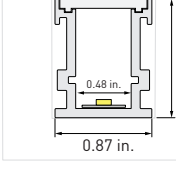
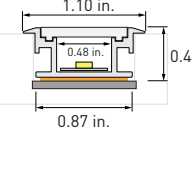
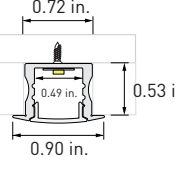
\*See our website for the full range of RGB/RGBW controllers and accessories.



Mean Well Non-Dimmable Drivers

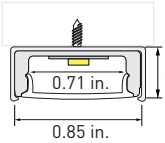
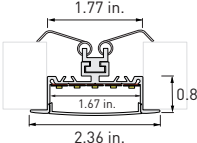
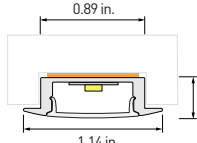
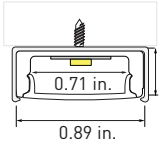
Item Number	Voltage	Wattage	Dimensions
AL-98-04-24036	24V DC	36W	5.83 x 1.58 x 1.18 in.
AL-98-04-24060	24V DC	60W	6.4 x 1.67 x 1.26 in.
AL-98-04-24100	24V DC	100W	7.5 x 2 x 1.46 in.
AL-98-04-24151	24V DC	151W	7.52 x 2.5 x 1.48 in.
AL-98-04-24200	24V DC	200W	8.47 x 5.43 x 1.18 in.

### 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 type="checkbox"/> Solder</li> <li><input checked="" type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Surfa 6 Surround: Surface-Mount</b></p>  <p>Hotspot Rating: 1</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: 1</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 type="checkbox"/> Solder</li> <li><input checked="" 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 type="checkbox"/> Solder</li> <li><input checked="" type="checkbox"/> Connector</li> <li><input type="checkbox"/> AmpChamp</li> </ul>	<p><b>Ankr 3: In-Wall</b></p>  <p>Hotspot Rating: 1</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: 1</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: 1</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)

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



### **3M 9731 Silicone Rated Adhesive Tape**

AL-01-01-9992 (50 ft.)

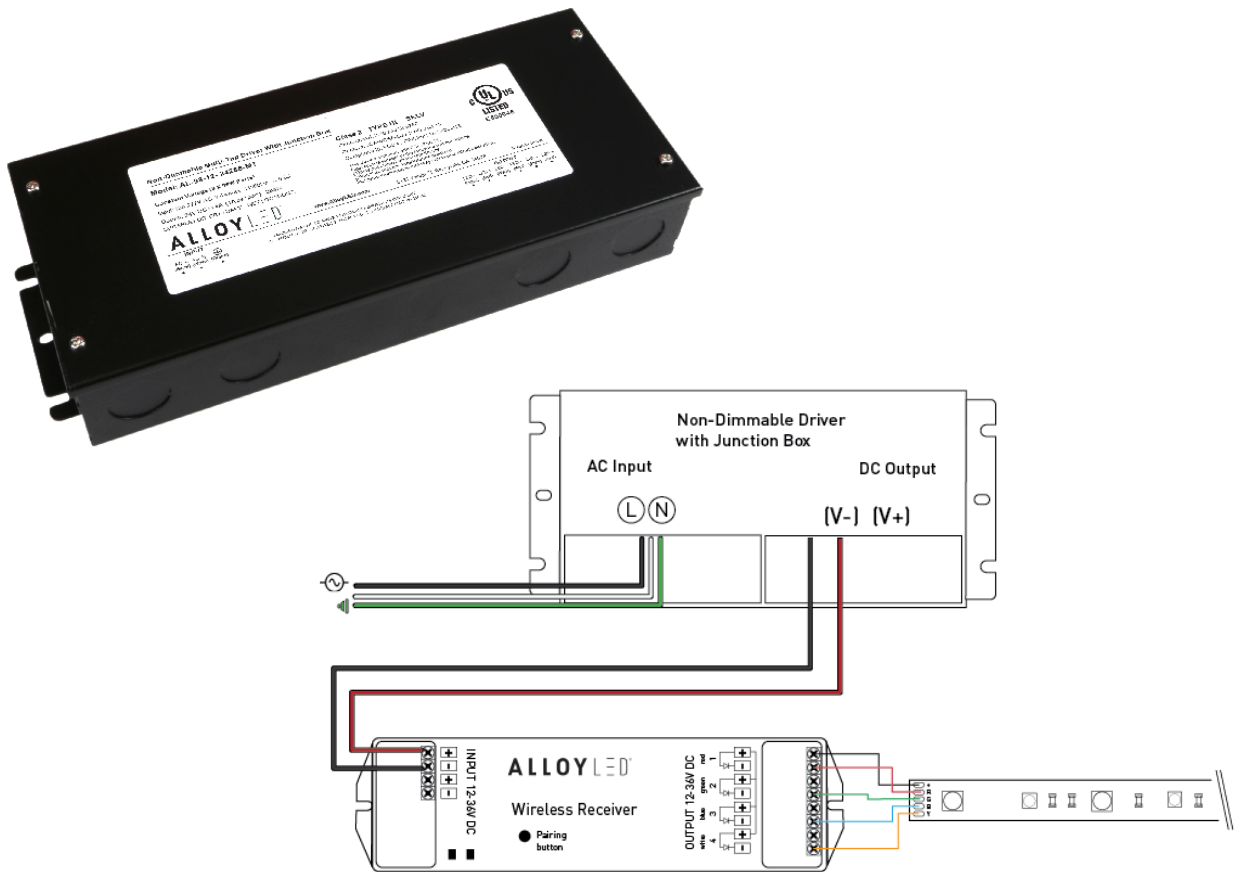
AL-01-01-9993 (100 ft.)

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.