

PrimaLine® Neon 200 TB (Top-Bending)

Actual size shown

Cut point every 2 in.

0.51 in. wide



PrimaLine 24V Neon tape light is the next generation of neon lighting made from silicone for increased flexibility. It can be used indoors and outdoors for dynamic, curved lighting installations. A rugged, ultra-flexible silicone housing provides protection, longevity, and 100% hotspot-free lighting.

PrimaLine Neon 200 TB shines from the top and bends upward and downward.

- Medium output
- Applications that need higher-intensity lighting
- Industry-leading 95+ CRI (Color Rendering Index)
- High R9 and R13 values for superb rendering of warm tones
- 5-year warranty

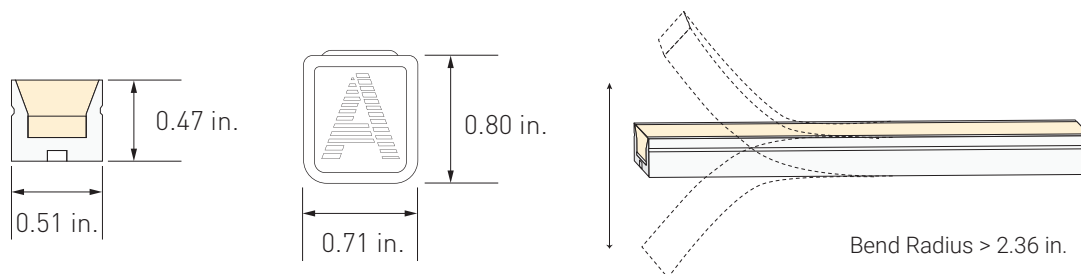
TECHNICAL INFORMATION

Color Temperature	2600K, 3000K, 3500K, 4100K, Red, Blue
Power Consumption per Foot	3 Watts
Input Voltage	24V DC
Tape Height	0.47 inches
Tape Width	0.51 inches
Beam Angle	120°
Bend Radius	>2.36 inches
Field Cuttable (UL 2108)	Every 2 inches

Maximum Run Length	32.8 ft.
Dimmable	Yes
Ambient Temperature	-4° F to 113° F
Spool Lengths	16.4 ft., 32.8 ft.
Environment	Indoor/Outdoor, Dry/Wet, IP67
Certifications	UL Listed, UL 2108, CE, RoHS
UV Rating	No discoloration
Warranty	5 Year Limited

*Each tape light section includes 18 in. right-hand lead wire with spliced ends on both ends.

DIMENSIONS AND BEND RADIUS



PRODUCT INFORMATION

16.4 ft. Spool	32 ft. Spool	Color Temperature	CRI	R9	R13	TM30	Lumens per Foot
AL-01-72-2405-TB	AL-01-72-2425-TB	 2600K	98	88	99	94	159
AL-01-72-2402-TB	AL-01-72-2422-TB	 3000K	98	92	99	94	164
N/A	AL-01-72-2428-TB	 3500K	96	84	94	94	171
AL-01-72-2406-TB	AL-01-72-2426-TB	 4100K	97	99	98	93	177
N/A	AL-01-72-2431-TB	 Red	N/A	N/A	N/A	N/A	N/A
N/A	AL-01-72-2432-TB	 Blue	N/A	N/A	N/A	N/A	N/A

VOLTAGE DROP GUIDANCE CHART

Standard Non-XT 24V Voltage Drop and Wire Length Distance Chart (3% Drop or 24V)

Wire Gauge	Copper Wire Resistance (Ω/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.

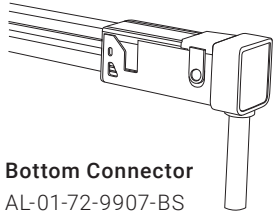
Note: These tables provide general guidelines for determining Wire Gauge based on total load and distance from LED driver to beginning of luminaire.

ALLOY LED® Specifications

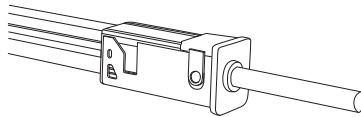
COMPATIBLE CONNECTORS (Connectors and end caps have a IP65 rating)

36 in. Splice Connectors

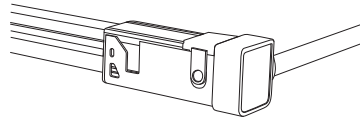
Add -10 to the end of the connector SKU to make it a 10-pack.



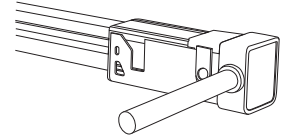
Bottom Connector
AL-01-72-9907-BS



Straight Connector
AL-01-72-9907-DS

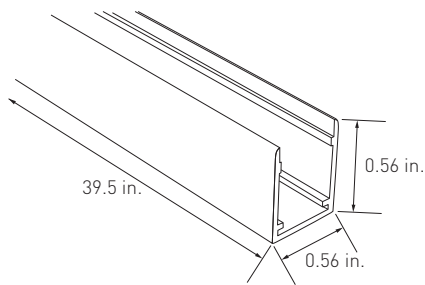


Right Connector
AL-01-72-9907-RS

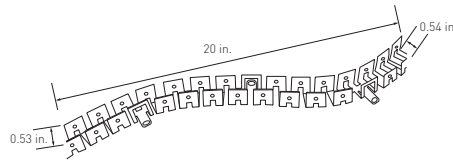


Left Connector
AL-01-72-9907-LS

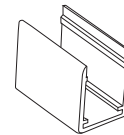
Mounting Accessories



Aluminum Mounting Track
AL-01-72-9923 (40 in.)

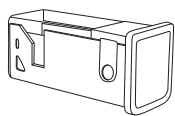


Flexible Mounting Track
AL-01-72-9930 (20 in.)

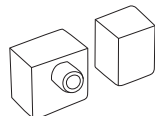


Aluminum Mounting Clip/Screws
AL-01-72-9981 (1-pack)
AL-01-72-9986 (10-pack)

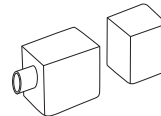
Other Accessories



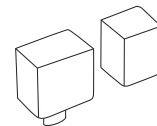
End Cap Assembly
AL-01-72-9951 (1-pack)
AL-01-72-9956 (10-pack)



Silicone Caps (Left/Right)
AL-01-72-9961 (1-pack)
AL-01-72-9966 (10-pack)



Silicone Caps (Straight)
AL-01-72-9961-DS (1-pack)
AL-01-72-9966-DS (10-pack)



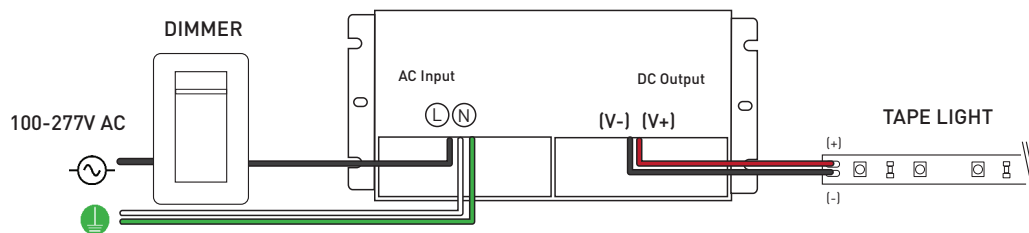
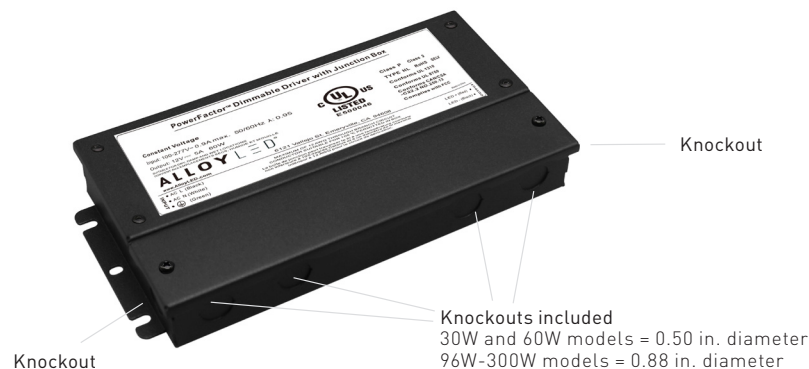
Silicone Caps (Bottom)
AL-01-72-9961-BS (1-pack)
AL-01-72-9966-BS (10-pack)

ALLOY LED® Specifications

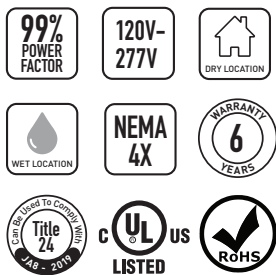
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



Alloy LED PowerFactor™ Dimmable Power Supplies with Integrated UL Listed Junction Box
Compact, highly efficient, and code-compliant power supply with versatile and smooth dimming capabilities.



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.



Single Tap Models

Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
AL-98-10-12030	12V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-12060	12V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-12120	12V DC	120W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	No
AL-98-10-24030	24V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-24060	24V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-24096	24V DC	96W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-10-24150	24V DC	150W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24200	24V DC	200W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24300	24V DC	300W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	No

Class 2 Compliant Multi-Tap Models

Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
AL-98-10-12300-MT	12V DC	300W	Yes (NEMA 4X)	10%	11.85 x 4.33 x 1.77 in.	Yes
AL-98-10-24192-MT	24V DC	192W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	Yes
AL-98-10-24288-MT	24V DC	288W	Yes (NEMA 4X)	10%	11.85 x 4.33 x 1.77 in.	Yes

Note: PowerFactor assumes 80% load.
Inspectors prefer power supply to be used with junction box.
For dimmer compatibility, refer to drivers specification sheet.

ALLOY LED® Specifications

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

Alloy LED Primavolt® No Minimum Load Dimmable Power Supplies with ETL Listed Junction Box

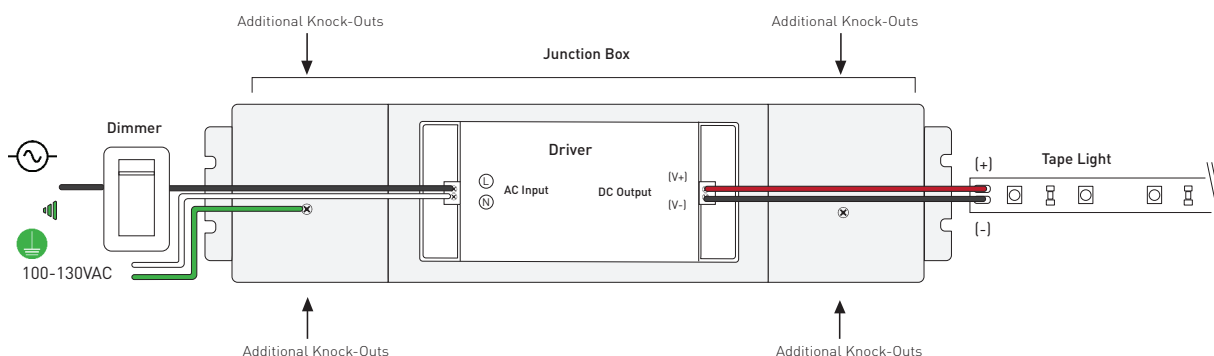
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



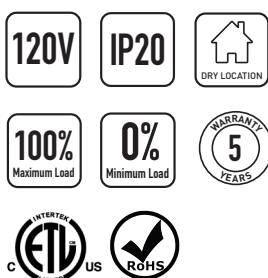
Dry Location Model
White model for 60W and lower



Wet Location Model
Black model for 80W and higher



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.



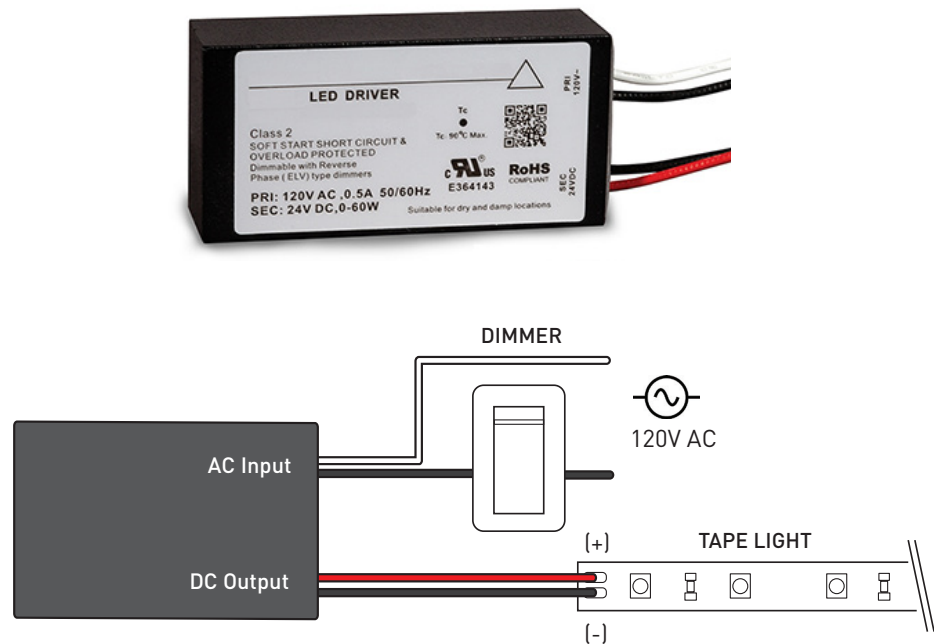
Item Number	Output Voltage	Wattage	Dry/Damp Location	Minimum Load	Dimensions (Junction Box) (L x W x H)	Class 2
AL-98-03-12024-NM	12V DC	24W	Yes	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12048-NM	12V DC	48W	Yes	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12060-NM	12V DC	60W	Yes	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12080-NM	12V DC	80W	Yes	0%	14.96 x 3.03 x 2.24 in.	No
AL-98-03-12120-NM	12V DC	120W	Yes	0%	14.96 x 3.03 x 2.24 in.	No
AL-98-03-24024-NM	24V DC	24W	Yes	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24048-NM	24V DC	48W	Yes	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24060-NM	24V DC	60W	Yes	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24080-NM	24V DC	80W	Yes	0%	14.96 x 3.03 x 2.24 in.	Yes
AL-98-03-24096-NM	24V DC	96W	Yes	0%	14.96 x 3.03 x 2.24 in.	Yes
AL-98-03-24150-NM	24V DC	150W	Yes	0%	15.98 x 3.43 x 2.36 in.	No
AL-98-03-24200-NM	24V DC	200W	Yes	0%	15.98 x 3.43 x 2.36 in.	No

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.

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

ELV Dimmable Power Supplies for Remote Enclosures

The drivers are derated, but when installed in a small enclosure with no heatsink or air circulation, we recommend a maximum load of 40W.



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.

120V

98%
POWER
FACTOR

WARRANTY
5
YEARS

0%
Min. Load

us

Item Number	Output	Wattage	Dimensions (L x W x H)	Class 2
AL-98-08-12060	12V DC	60W	2.66 x 1.30 x 0.83 in.	Yes
AL-98-08-24060	24V DC	60W	2.66 x 1.30 x 0.83 in.	Yes

Note: Inspectors prefer power supply to be used with junction box.
For dimmer compatibility, refer to drivers specification sheet.

ALLOY LED® Specifications

DIMMING ACCESSORIES (SOLD SEPARATELY)

Lutron® Dimming Accessories

By participating in Lutron's OEM Advantage program, Alloy LED is able to offer a range of the highest quality low voltage power supplies and selected controls on the market.



Hi-lume Premier
0.1% EcoSystem /
3-wire LED Driver
(96W 24VDC)



Hi-lume 1% LED Driver 40W
- EcoSystem / 3-wire control
- 2-wire 120V forward
phase control



Lutron Vive PowPak RF Module
- RF module for EcoSystem LED
driver control
- Use with the Lutron EcoSystem
drivers shown to "Vive-enable"
Alloy LED products

Lutron® Hi-lume LED Drivers

Item Number	Output	Wattage	Minimum Load	Class 2
AL-98-07-12040	12V DC	40W	N/A	Yes
AL-98-07-12040-3WIRE	12V DC	40W	N/A	Yes
AL-98-07-24040	24V DC	40W	N/A	Yes
AL-98-07-24040-3WIRE	24V DC	40W	N/A	Yes
AL-98-07-24096-3WIRE	24V DC	96W	N/A	Yes

Lutron® Controls

Item Number	Description	Voltage
AL-98-07-9901	EcoSystem Control Module	N/A
AL-98-07-9901-8	EcoSystem Control Module - 8-pack	N/A
AL-98-07-9950	CL Dimmer	120V AC
AL-98-07-9950-FPLATE	CL Dimmer faceplate	N/A

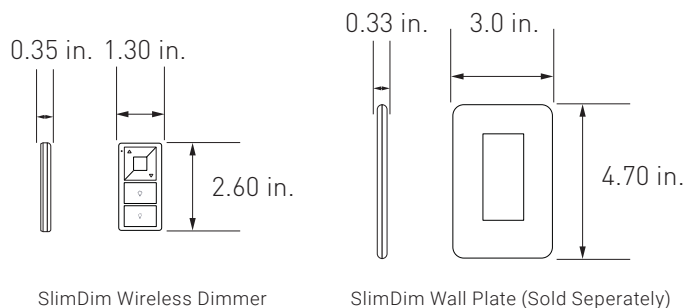
DIMMING ACCESSORIES (SOLD SEPARATELY)

Dimmers and Switches

SlimDim Wireless Dimmer Switch

Using long-range RF technology, these LED dimmers connect wirelessly to a receiver, offering freedom to mount anywhere. Can also be used as a fob for mobile, hand-held control.

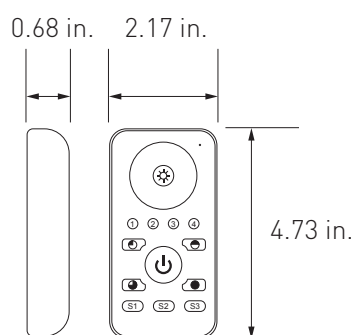
AL-70-01-0001	SlimDim Wireless Dimmer
AL-70-01-0002	Single Color Receiver (96W max.) (sold separately) 
AL-98-07-9950 -FPLATE	SlimDim Wall Plate (sold separately)



Remote Control Dimmer Switch

Provides full dimming and on/off control, and includes a touch wheel that allows for direct visual selection of brightness. It can also operate up to four independent zones.

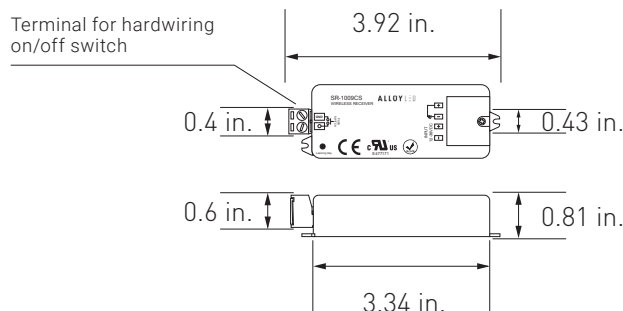
AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately) 
AL-60-03-0004-V2	Wireless Receiver (RGB & RGBW) (sold separately) 



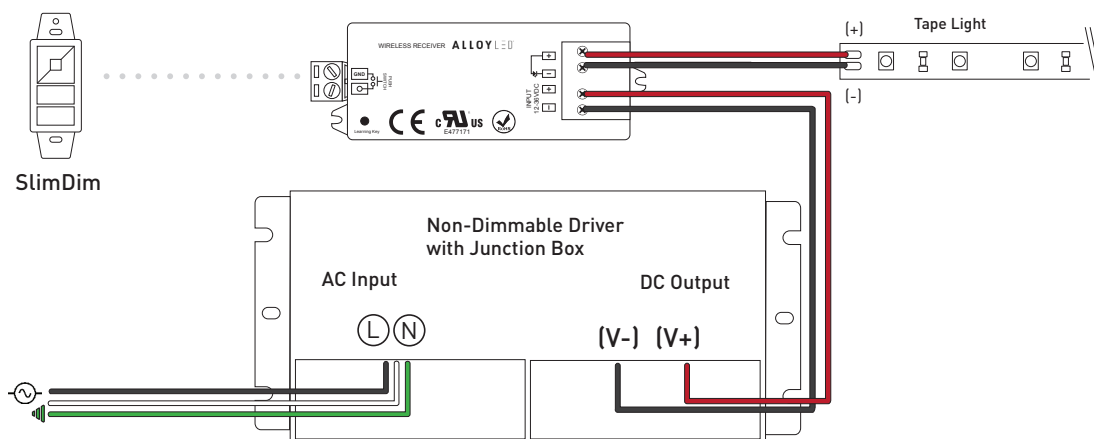
Single Channel Wireless Receiver

Pair with the Remote Control Dimmer Switch or the SlimDim Wireless Dimmer to dim PrimaLine tape lights. Use one remote to make independent lighting zones with multiple receivers with certain controllers.

AL-70-01-0002	Single Channel Wireless Receiver
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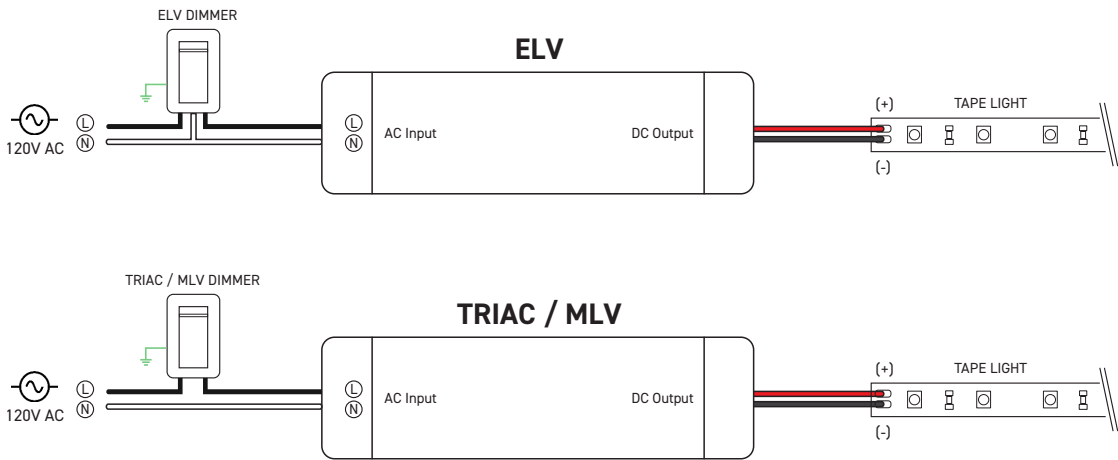
WIRING DIAGRAM



RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

Alloy LED TRIAC/MLV/ELV Dimmable Drivers for Remote Locations

Offers stable power in even in the most remote settings. Compatibility with TRIAC, ELV, or MLV dimmers.



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.

120V

100%
Maximum Load

20%
Min. Load

DRY LOCATION

UL US LISTED

CLASS 2

CLASS P

TYPE HL

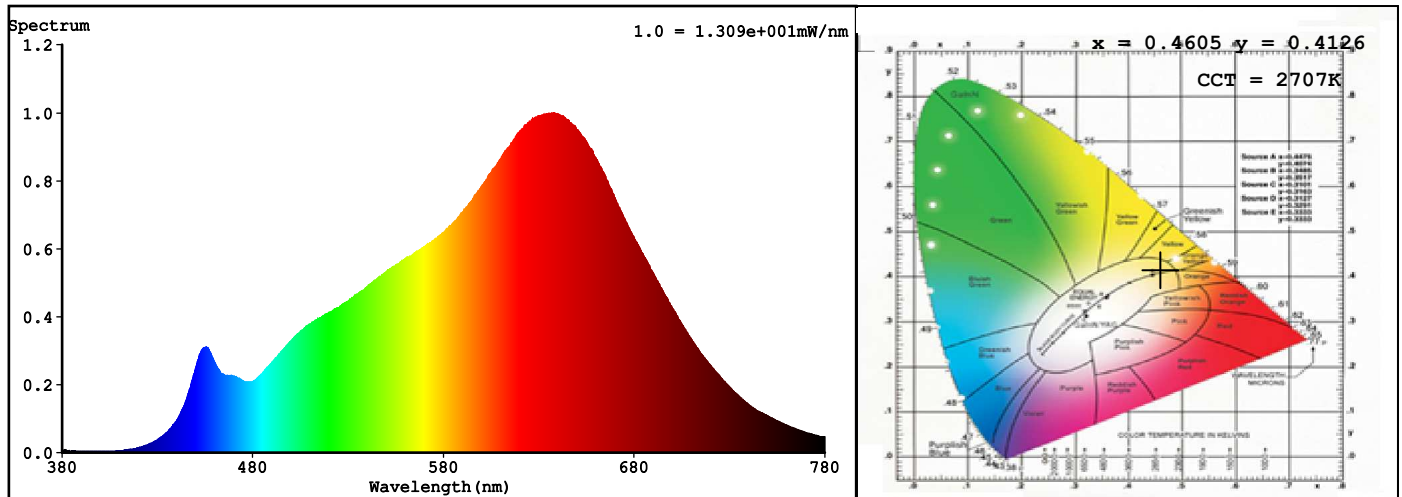
SELV

Item Number	Output Voltage	Wattage	Dimensions (L x W x H)	Class 2
AL-98-09-12060	12V DC	60W	3.31 x 1.57 x 0.98	Yes
AL-98-09-24096	24V DC	96W	3.31 x 1.57 x 0.98	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.

2600K

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4605$ $y = 0.4126$ / $u' = 0.2620$ $v' = 0.5282$ ($duv=6.98e-04$)

CCT= 2707K Prcp WL: $L_d=583.9nm$ Purity=62.1%

Peak WL: $L_p=638nm$ FWHM: $=149.7nm$ Ratio:R=27.1% G=70.1% B=2.8%

Render Index: $R_a = 97.9$ TM30: $R_f=94$ $R_g=99$

$R_1 = 99$ $R_2 = 99$ $R_3 = 99$ $R_4 = 99$ $R_5 = 99$ $R_6 = 97$ $R_7 = 97$

$R_8 = 95$ $R_9 = 88$ $R_{10} = 99$ $R_{11} = 97$ $R_{12} = 89$ $R_{13} = 99$ $R_{14} = 99$ $R_{15} = 97$

LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

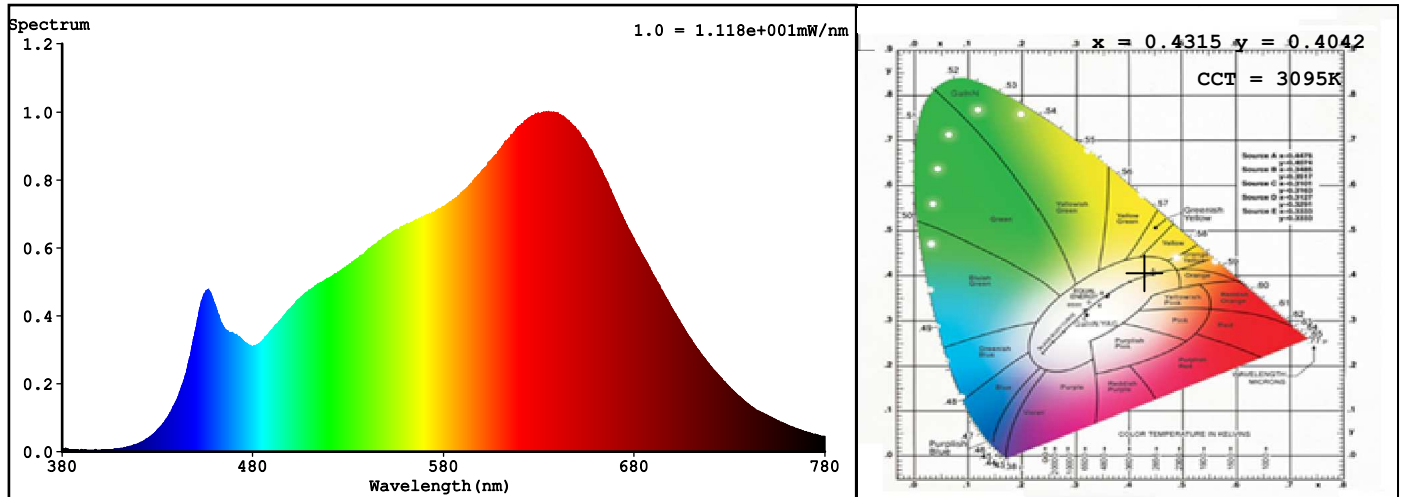
Flux = 558.90 lm Eff. : 53.16 lm/W $F_e = 2.1472 W$

Electrical parameters

$V = 24.00 V$ $I = 0.4381 A$ $P = 10.51 W$ PF = 1.000 F=0.00 Hz

3000K

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4315$ $y = 0.4042$ / $u' = 0.2470$ $v' = 0.5206$ ($duv=8.21e-04$)

CCT= 3095K Prcp WL: $L_d=582.1nm$ Purity=50.8%

Peak WL: $L_p=634nm$ FWHM: $=174.8nm$ Ratio:R=24.4% G=72.2% B=3.5%

Render Index: $R_a = 97.9$ TM30: $R_f=94$ $R_g=99$

$R_1 = 99$ $R_2 = 99$ $R_3 = 99$ $R_4 = 98$ $R_5 = 98$ $R_6 = 98$ $R_7 = 96$

$R_8 = 96$ $R_9 = 92$ $R_{10} = 99$ $R_{11} = 99$ $R_{12} = 85$ $R_{13} = 99$ $R_{14} = 99$ $R_{15} = 98$

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 540.16 lm Eff. : 54.76 lm/W $\Phi_e = 2.0146 W$

Electrical parameters

$V = 24.00 V$ $I = 0.4110 A$ $P = 9.863 W$ PF = 1.000 F=0.00 Hz

Note: specifications are representative of the diode type and not a particular tape light article.

3500K

Light efficiency:

n/a Lumen/Watt

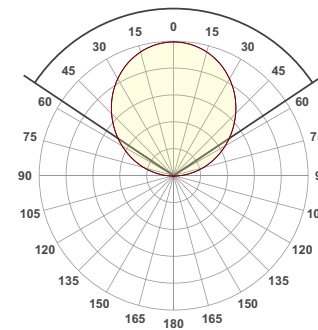
Light quality:

CRI: 97.5

Color temperature:

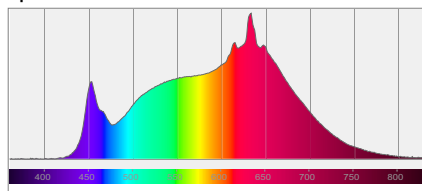
3303 K

112.5°

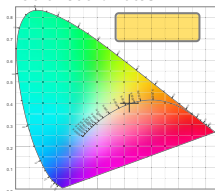


Output: 331 Lumen Power consumption: 0.00

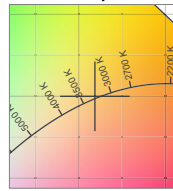
Spectral distribution



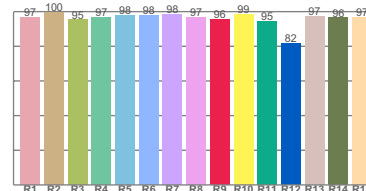
Color coordinates



White color point

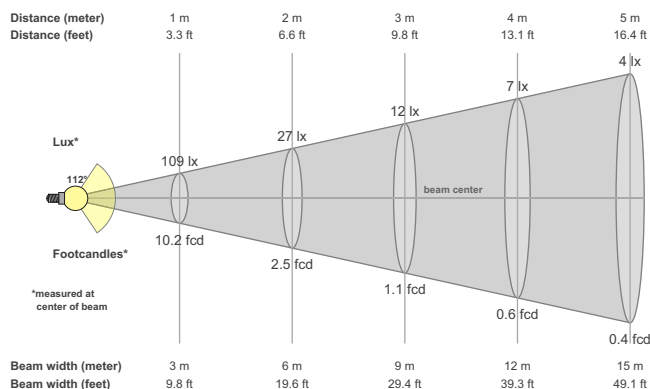


CRI R values



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3303 K	97.5	95.8	93.7	100.6	95.8	0.419	0.400	0.241	0.345	0.0012

Beam details



Beam angels

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
112.5°	169.7°	191.1°

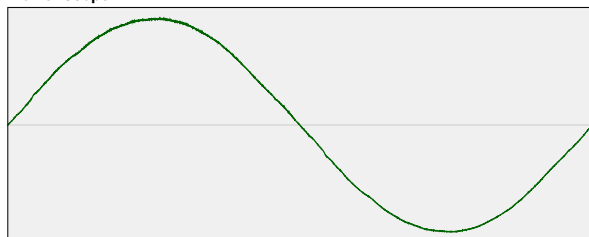
Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
109 cd	73.7%	50.1%

Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
109lx	27lx	12lx	7lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
10.2fcd	2.5fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Power scope

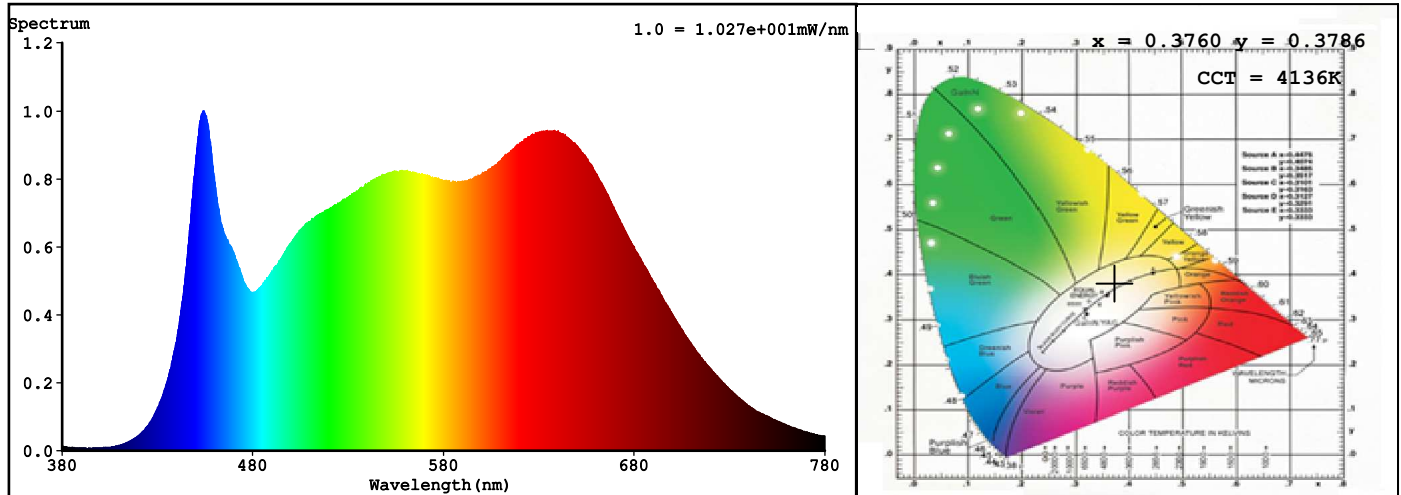


Power	Power factor	Power frequency
0.00 W	n/a	{FREQ } Hz

Nominal voltage	Voltage	Current
230 V	111 V	0.000 A

4100K

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3760$ $y = 0.3786$ / $u' = 0.2215$ $v' = 0.5017$ ($duv = 2.18e-03$)

CCT= 4136K Prcp WL: $L_d = 577.3\text{nm}$ Purity=26.4%

Peak WL: $L_p = 454\text{nm}$ FWHM: $\approx 31.0\text{nm}$ Ratio: R=19.8% G=75.5% B=4.8%

Render Index: $R_a = 97.2$ TM30: $R_f = 93$ $R_g = 99$

R1 =99 R2 =99 R3 =97 R4 =96 R5 =96 R6 =96 R7 =97

R8 =97 R9 =99 R10=96 R11=97 R12=75 R13=98 R14=98 R15=96

LEVEL:OUT WHITE:ANSI_4000K

Photometric & Radiometric Parameters

Flux = 584.36 lm Eff. : 58.92 lm/W $\Phi_e = 2.1399\text{ W}$

Electrical parameters

V = 24.00 V I = 0.4133 A P = 9.918 W PF = 1.000 F=0.00 Hz