



**1** PROPOSED ELEVATION  
N.T.S.

**ZONING DATA SHEET**

PROJECT INFORMATION					
ADDRESS:	318 LINCOLN ROAD	FOLIO NUMBER(S):	02-3234-019-0810	YEAR BUILT: 1945	
BOARD FILE NUMBERS:			0810	LOT AREA: 17,250	
ZONING DISTRICT: CD-3		LOT WIDTH:	115	LOT DEPTH: 150	
INDIVIDUAL HISTORIC SITE (Y OR N):	N	110 - SALES AND SERVICE			
PROPOSED USE:		P1 ZONE 6600 - COMMERCIAL - LIBERAL			
ZONING INFORMATION / CALCULATION		REQUIRED	EXISTING	PROPOSED	DEFICIENCIES
BUILDING HEIGHT:	SEC 142-37	75'	23.8'	N/A	N/A
SETBACKS (FEET)					
FRONT SETBACKS:		0	0	N/A	N/A
SIDE SETBACKS:		0	0	N/A	N/A
REAR SETBACK:		10'	10'	N/A	N/A

**3** ZONING DATA SHEET  
N.T.S.



**2** S.E. VIEW  
N.T.S.

REVISIONS


**SCOTT, ROBINS COMPANIES**  
ARCHITECTURAL DESIGN CONSULTANTS, INC  
1255 N.E. 90 STREET MIAMI, FL 33138 (305)469 6152  
A R 003490

DATE 9/4/2024

SCALE: AS NOTED

**A 1**

DATE 09/04/2024



1 S. PHOTO  
N.T.S.



A ARIEL VIEW  
N.T.S.



2 S.W. PHOTO  
N.T.S.



3 S.E. PHOTO  
N.T.S.

REVISIONS

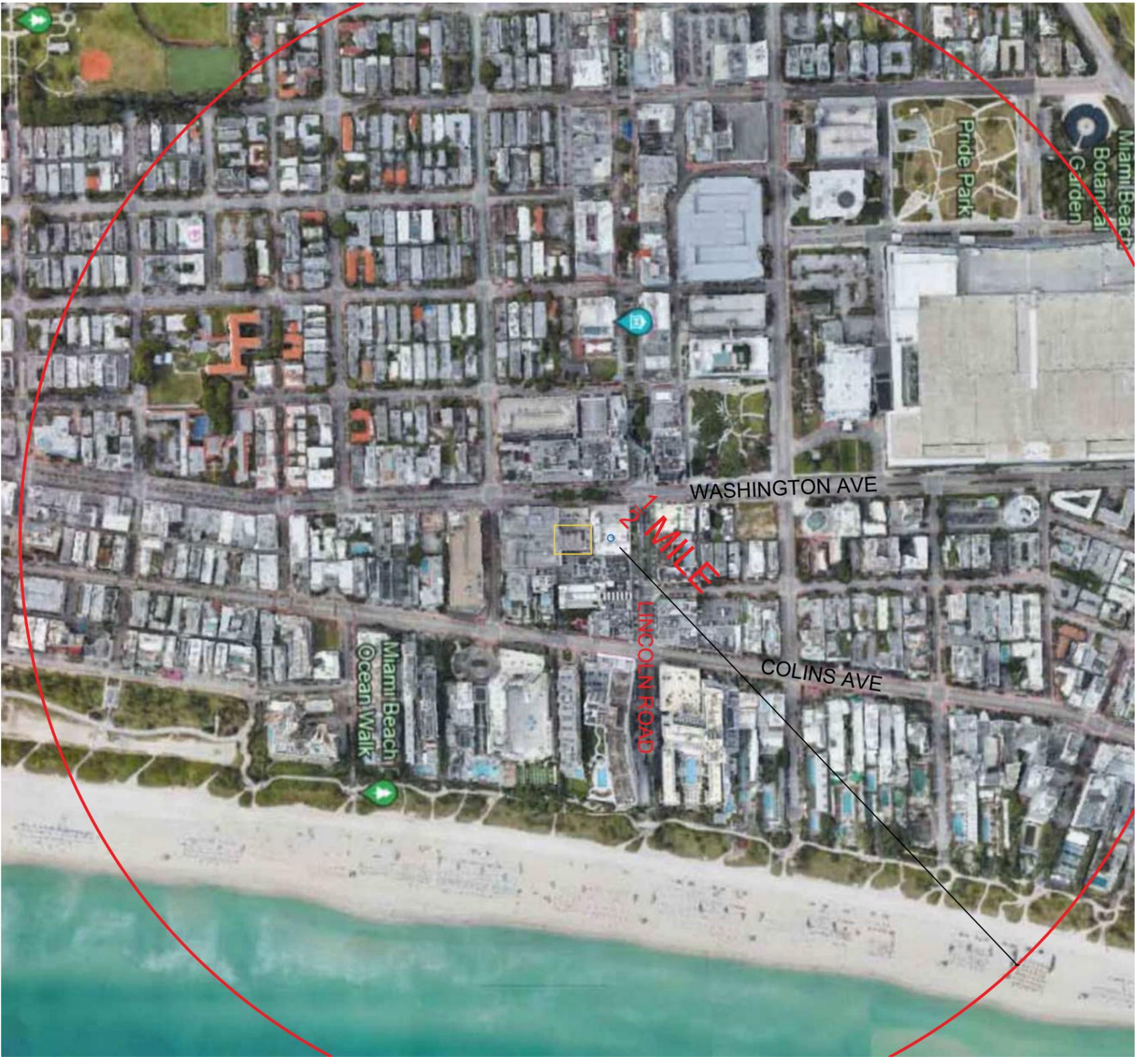

SCOTT, ROBINS COMPANIES  
 ARCHITECTURAL DESIGN CONSULTANTS, INC  
 1255 N.E. 90 STREET MIAMI, FL 33138 (305)469 6152  
 A R 003490

DATE: 9/4/2024

SCALE: AS NOTED

A 2

DATE 09/09/24



1  
SCALE: 1" = 800'

0' 400' 800' 1200' 2400'



2  
SCALE: AS NOTED

DATE 9/4/2024  
SCALE: AS NOTED

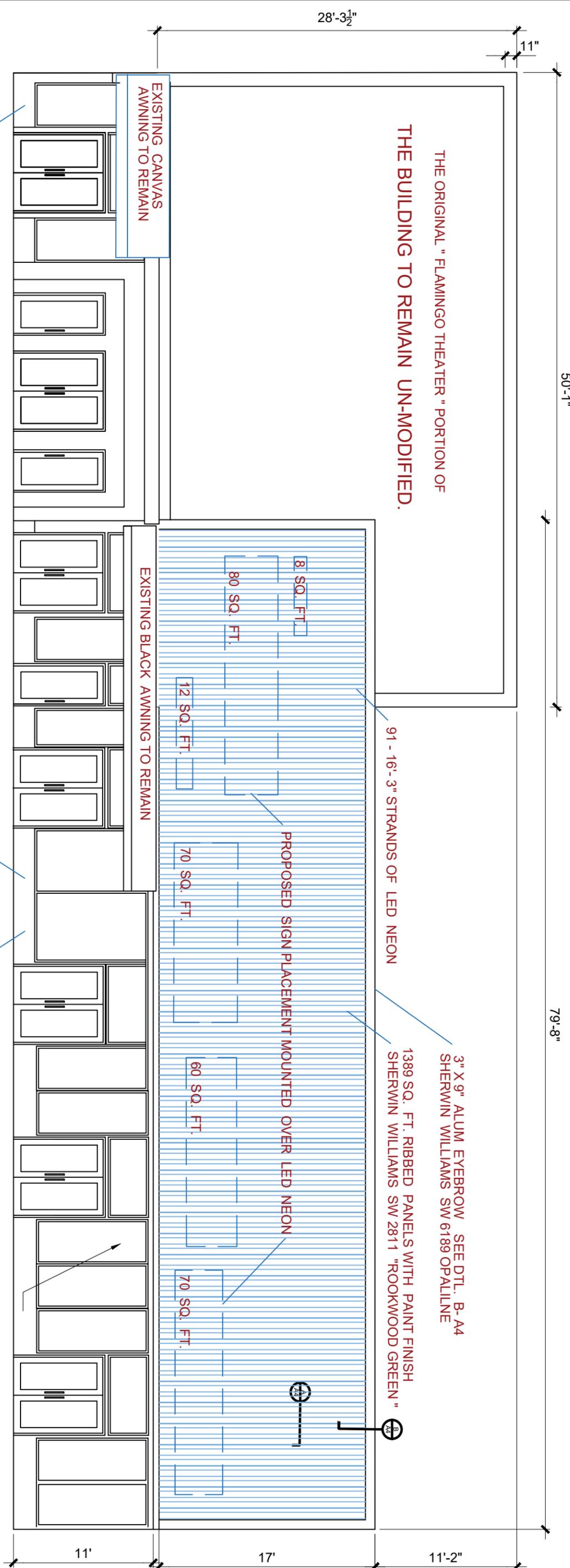
SCOTT, ROBINS COMPANIES  
ARCHITECTURAL DESIGN CONSULTANTS, INC  
1255 N.E. 90 STREET MIAMI, FL 33138 (305)469 6152  
A R 003490

REVISIONS

A 3  
PAGE 00000

50'-1" 79'-8"

THE ORIGINAL "FLAMINGO THEATER" PORTION OF THE BUILDING TO REMAIN UN-MODIFIED.



**1 ELEVATION**

SCALE: 1/8" = 1'-0"



SIGNAGE: AREA OF FACADE ABOVE STORE FRONT 1550 SQ. FT.  
 AREA OF PROPOSED SIGNS 300 SQ. FT. 19.35 %

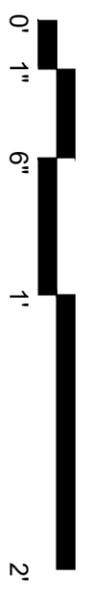
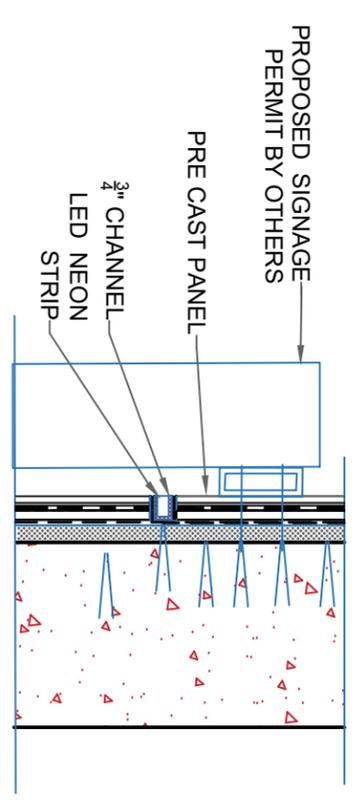


**2 COLORS**

N.T.S.

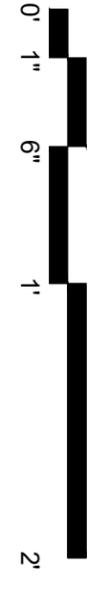
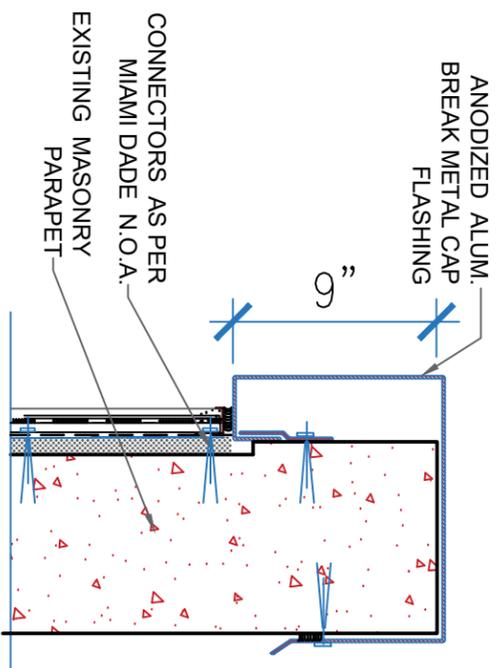
**A STUCCO WALL PLAN SECTION**

SCALE: 1 1/2" = 1'-0"



**B PARAPET WALL SECTION**

SCALE: 1 1/2" = 1'-0"



REVISIONS




(A)



(B)



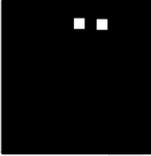
(C)

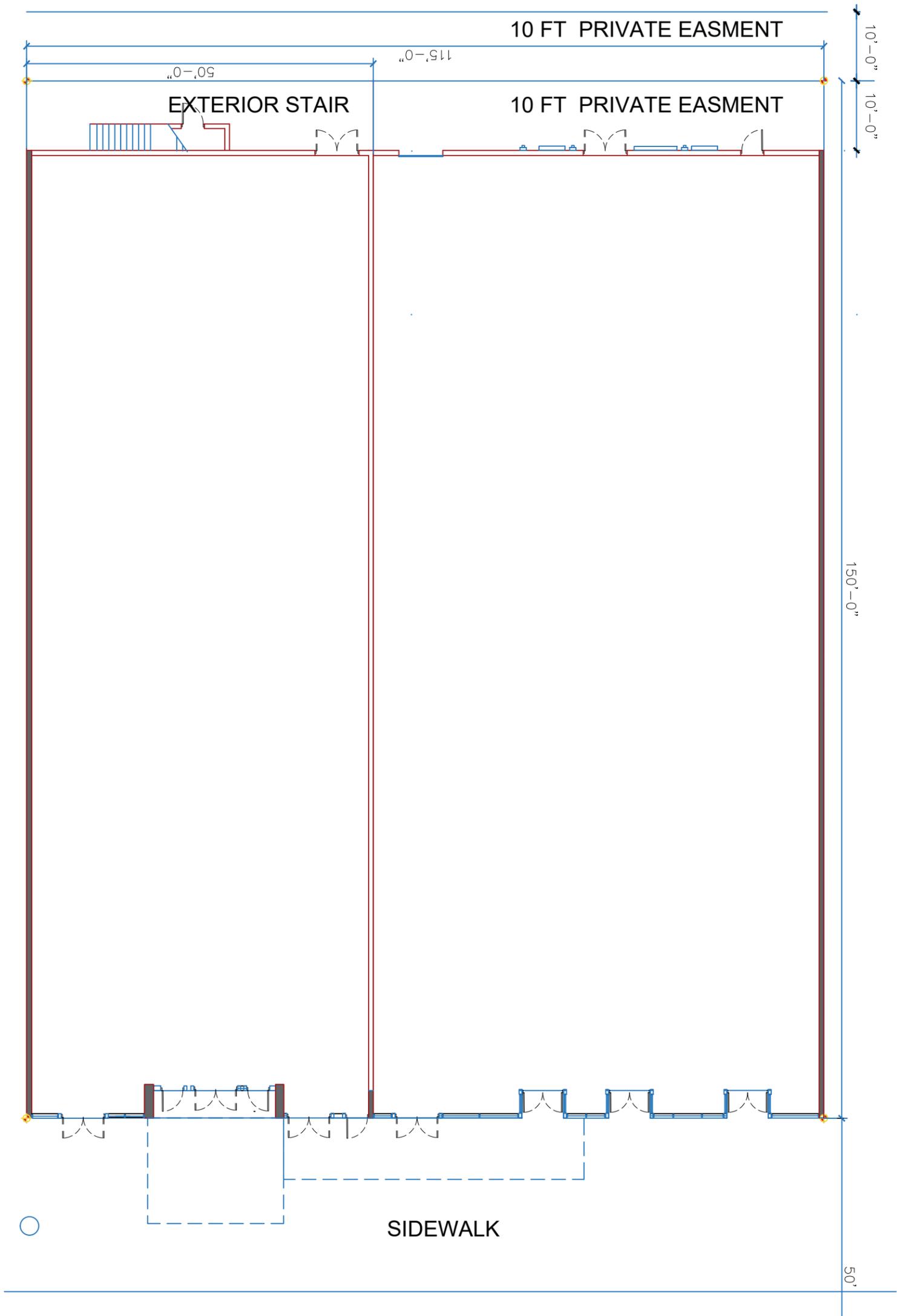


(D)



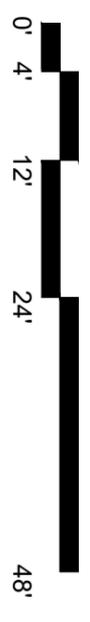
(E)





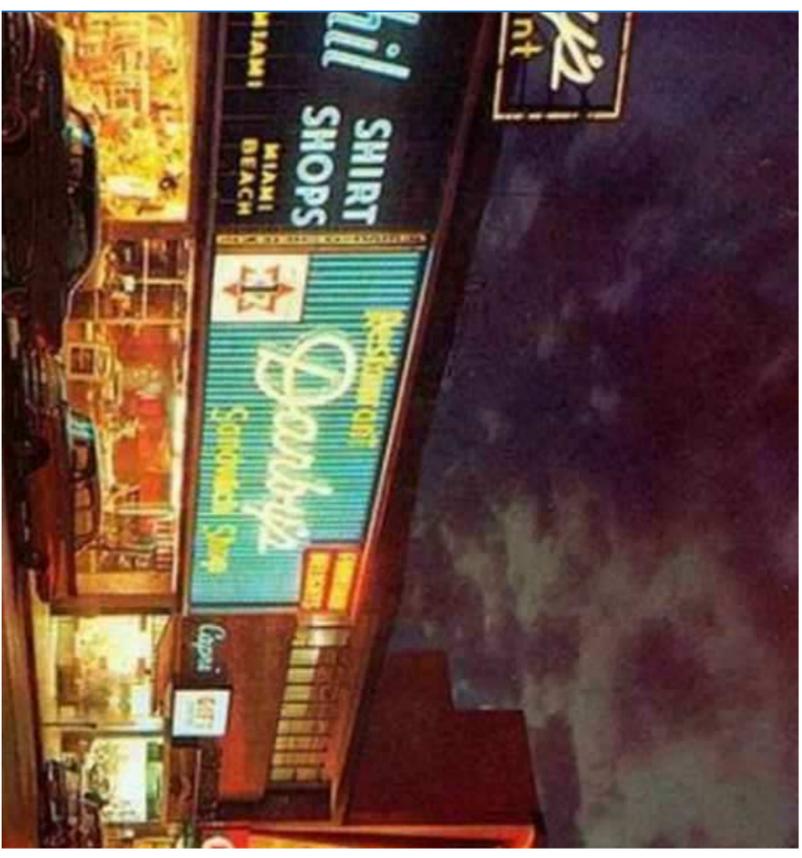
**1 FLOOR PLAN**

SCALE: 1/16" = 1'-0"





1 ELEVATION LIGHT STUDY NIGHT  
N.T.S.

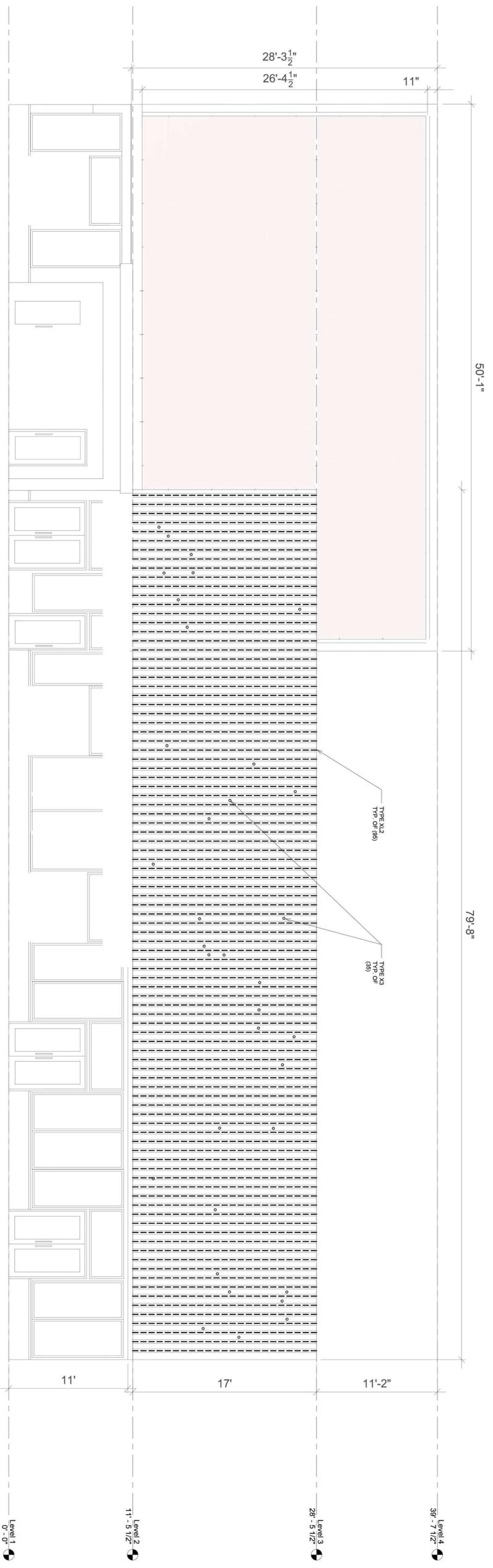


3 HISTORICAL PHOTOS  
N.T.S.



2 ELEVATION LIGHT STUDY DAY  
N.T.S.

REVISIONS

**Solid Apollo LED**  
WATER PROOF

**RGB HEX NEON LED STRIP LIGHT 120V AC**  
30° Beam Angle

**120V AC**  
**120V AC**  
**DMB**  
**IP65**  
**30° Beam**

**Product Description**  
RGB Hex Neon LED Strip Light creates the look and feel of the exciting neon light tubes using LEDs. No neon operation and improved light output requires no special ventilation. The LED strip is made of high quality materials, ensuring a long life of 50,000 hours. The LED strip is made of high quality materials, ensuring a long life of 50,000 hours. The LED strip is made of high quality materials, ensuring a long life of 50,000 hours.

**Quick Spec:**  
• High Dimmable: Yes  
• Input Voltage: 120V AC  
• Output Voltage: 120V AC  
• Power Consumption: 40W/m  
• Beam Angle: 30°  
• Color Temperature: 16500K  
• Dimensions: 1/2" x 1/8" x 1/8"

**RGB Waterproof LED Strip Illustration**

LED Strip Length: 165ft / 50.3m  
Width: 1/8" / 3.18mm  
Cut Points: 165m / 497mm  
Height: 1/2" / 12.7mm  
Depth: 1/8" / 3.18mm  
Mounting Hole: 1/8" / 3.18mm  
Mounting Hole Spacing: 1/2" / 12.7mm  
Mounting Hole Diameter: 1/8" / 3.18mm  
Mounting Hole Depth: 1/8" / 3.18mm

**Technical Diagrams**

**Bottom Diagrams**  
A: LED Strip  
B: Mounting Hole  
C: Mounting Hole Spacing  
D: Mounting Hole Diameter  
E: Mounting Hole Depth

**Mounting Size**  
Length: 3.18mm  
Width: 3.18mm

TEL: 432.342.7333 | WWW.OBRIENLIGHTING.COM | 2125 194th St SE, Suite 112, Lynnwood WA 98035 | Pg. 1 of 2

**LED LIGHTING SOLUTIONS**  
LED LIGHTING SOLUTIONS

**Bolt Beam 12mm LED Light - 55 Lumens - Natural White Silver**  
Part Number: 12BMMWS

SIZE: 6.15" H x 1.5" W

**Features:**  
• Black or Chrome Finish  
• 2 Year Warranty  
• Low Voltage

**Single Color Neon Channel Dimensions**

② DETAIL  
1" = 1'-0"

NOTE: ALL DATA IN THIS DOCUMENT INCORPORATES THE PROPRIETARY RIGHTS OF O'BRIEN LIGHTING INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS DOCUMENT DOES SO IN CONFIDENCE, AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS DOCUMENT DOES SO IN CONFIDENCE, AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

PRELIMINARY REVIEW SET - NOT FOR CONSTRUCTION -

DRAWING RESTRICTIONS:  
THESE DRAWINGS REPRESENT VISUAL CONCEPTS AND CONSTRUCTION. THE DESIGNER ASSUMES RESPONSIBILITY FOR THE DESIGN AND THE DESIGNER DOES NOT ASSUME RESPONSIBILITY FOR IMPROPER ENGINEERING, CONSTRUCTION, HANDLING, OR USE OF THE REPRESENTED EQUIPMENT.

Digital Signature

**O'BRIEN LIGHTING INC.**  
777 BRICKELL AVENUE, 5F MIAMI, FLORIDA 33131  
305.774.0416 | INFO@OBIENLIGHTING.COM

318 Lincoln Road Facade  
318-324 Lincoln Road, Miami Beach, FL 33139  
LIGHTING LAYOUT - ELEVATION

PROJECT: 2424-006  
DATE: 9/9/2024  
SCALE: As Indicated  
DRAWN BY: AD  
CHECKED BY: AD

LD-001

REVISION  
S

# AC-SERIES INPUT: 120VAC

P/N: M

## Constant Voltage Magnetic

### Phase Dimmable 12/24VAC AC Transformer

The AC-SERIES is the most compact magnetic core dimmable transformer on the market, making it the perfect choice for landscape and other indoor or outdoor lighting applications. Encased in a high-quality metal enclosure that includes multiple 7/8" knock-outs for easy installation, each unit is equipped with circuit breakers to protect both the driver and the load. All of our magnetic transformers are phase dimmable with a standard leading edge MLV TRIAC dimmer.

Installation: Integrated Junction Box with Multiple 7/8" Knock-Outs 14711

Driver Types: Class 2 and Higher Power Single Tap Options

Dimming: Phase Dimmable with Leading (Forward) Edge MLV TRIAC Dimmer Only

Input Voltage: 120VAC 50/60Hz

Output Voltage: 12VAC or 24VAC

Environmental: Dry and Damp

Listing: ETL Listed

Certifications: Conforms to UL8750, C22.2 NO. 223

Warranty: 5-Year

## Ordering Guide - With Auto Reset Breakers

Example: M20L12-AR

M	L	-	AR
---	---	---	----

TYPE	MAX POWER	LISTING	OUTPUT	SAFETY
------	-----------	---------	--------	--------

M — Magnetic 20<sup>1</sup> — 20W (Class 2) L — ETL Listed 12 — 12VAC AR — Auto Reset  
 40<sup>1</sup> — 40W (Class 2) 24 — 24VAC

60<sup>1</sup> — 60W (Class 2)  
 96<sup>12</sup> — 96W (Class 2)

100<sup>3</sup> — 100W (Non-Class 2)

<sup>1</sup>Class 2

<sup>2</sup>24VAC Only

<sup>3</sup>12VAC Only

## Ordering Guide - With Manual Reset Breakers

Example: M200S24OD

TYPE	MAX POWER*	OUTPUT
------	------------	--------

M — Magnetic 100 — 100W SOD — 12VAC

150 — 150W

200 — 200W

300 — 300W

M — Magnetic 100 — 100W S24OD — 24VAC

150 — 150W

200 — 200W

300 — 300W

500 — 500W

\* Up to 1200W available.

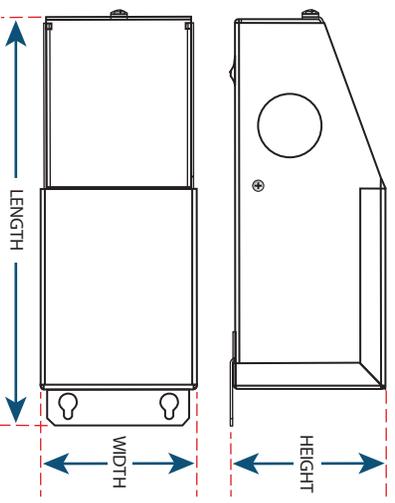
Contact factory for more information.



AC-SERIES is also available in:  
**AC-SERIES 277VAC**  
 Refer to [MagnitudeInc.com](http://MagnitudeInc.com) for more details.



DIMENSIONS	20W/40W	60W/96W	100W/150W/200W	300W	500W
LENGTH	5.60" (142.2mm)	6.55" (166.37mm)	9.80" (248.9mm)	9.80" (248.9mm)	10.50" (266.7mm)
WIDTH	2.10" (53.34mm)	2.55" (64.77mm)	3.00" (76.2mm)	4.20" (106.7mm)	4.62" (120.2mm)
HEIGHT	2.10" (54.34mm)	2.55" (64.77mm)	3.00" (76.2mm)	3.50" (88.9mm)	4.26" (108.2mm)





14711 Bentley Circle, Tustin, CA 92780  
 Customer Service: (714) 312-5080  
 Fax: (714) 312-5070  
 CustomerCare@MagnitudeInc.com  
 www.magnitudeinc.com

# AC-SERIES

## INPUT: 120VAC

### Specifications

	20W	40W	60W	96W
<b>INPUT</b>				
Input Voltage Range	120VAC ± 10%			
Input Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current	0.195A (12VAC) 0.195A (24VAC)	0.36A (12VAC) 0.195A (24VAC)	0.54A (12VAC) 0.54A (24VAC)	0.54A
Efficiency	> 89.8% (12VAC) > 88.6% (24VAC)	90.3% (12VAC) 88.6% (24VAC)	> 89.2% (12VAC) > 90.5% (24VAC)	> 91.2%
<b>OUTPUT</b>				
Max Load	20W	40W	60W	96W
Output Voltage @ Max Load	11.4 VAC 23.0 VAC	11.4 VAC 23.0 VAC	11.5 VAC 23.0 VAC	--- 23.0 VAC
Output Current @ Max Load	1.65A (12VAC) 0.85A (24VAC)	3.32A (12VAC) 0.85A (24VAC)	4.80A (12VAC) 2.17A (24VAC)	--- 4.30A
Open Circuit Output Voltage	12.5 VAC 25.0 VAC	12.5 VAC 25.0 VAC	12.5 VAC 25.0 VAC	--- 25.0 VAC
<b>ENVIRONMENTAL</b>				
Operating Temperature	-30°C - +45°C (-22°F - 113°F)			
Min. Installation Spacing	5"	5"	5"	5"
Thermal Class	B130°C	B130°C	B130°C	B130°C
<b>DIMMING</b>				
Minimum Dimming Level	1%	1%	1%	1%
<b>PROTECTION</b>				
Circuit Breaker (Primary & Secondary)	Auto-Reset	Auto-Reset	Auto-Reset	Auto-Reset
<b>MECHANICAL HOUSING</b>				
Primary Leads	18 AWG	18 AWG	18 AWG	18 AWG
Secondary Leads	16 AWG (12VAC) 18 AWG (24VAC)	16 AWG (12VAC) 18 AWG (24VAC)	14 AWG (12VAC) 16 AWG (24VAC)	14 AWG ---
Length	5.60" (142.2mm)	5.60" (142.2mm)	6.55" (166.37mm)	6.55" (166.37mm)
Width	2.00" (50.8mm)	2.00" (50.8mm)	2.55" (64.77mm)	2.55" (64.77mm)
Height	2.14" (54.3mm)	2.14" (54.3mm)	2.55" (64.77mm)	2.55" (64.77mm)
Weight	2 lbs.	2 lbs.	3 lbs.	7 lbs.
Housing Material	Coated Metal	Coated Metal	Coated Metal	Coated Metal
Housing Color	Black	Black	Black	Black
Junction Box	Yes	Yes	Yes	Yes
Mounting	2-hole flange	2-hole flange	2-hole flange	2-hole flange
<b>APPROVAL MARKINGS</b>				
Certificates / Approval Signs	ETL Listed Conforms to 8750 C22.2 NO. 223			

WE DRIVE LIGHT



14711 Bentley Circle, Tustin, CA 92780  
 Customer Service: (714) 312-5080  
 Fax: (714) 312-5070  
 CustomerCare@MagnitudeInc.com  
 www.magnitudeinc.com

# AC-SERIES

## INPUT: 120VAC

### Specifications

INPUT	100W	150W	200W	300W	500W
<b>Input Voltage Range</b>	120VAC ± 10%				
<b>Input Frequency</b>	50 / 60Hz				
<b>Input Current</b>	1.019	1.27A (12VAC) 1.27A (24VAC)	1.66A (12VAC) 1.66A (24VAC)	2.50A (12VAC) 2.50A (24VAC)	5.12A (12VAC) 5.12A (24VAC)
<b>Efficiency</b>	91.5%	91.5% (12VAC) 91.5% (24VAC)	91.5% (12VAC) 91.5% (24VAC)	92% (12VAC) 92% (24VAC)	90.5% (12VAC) 89.0% (24VAC)
<b>OUTPUT</b>					
<b>Max Load</b>	100W	150W	200W	300W	500W
<b>Output Voltage @ Max Load</b>	11.5 VAC	11.5 VAC 23.0 VAC	11.5 VAC 23.0 VAC	11.5 VAC 23.0 VAC	11.5 VAC 23.0 VAC
<b>Output Current @ Max Load</b>	8.34A	12.5A (12VAC) 12.5A (24VAC)	12.5A (12VAC) 12.5A (24VAC)	25.0A (12VAC) 12.5A (24VAC)	41.0A (12VAC) 21.0A (24VAC)
<b>Open Circuit Output Voltage</b>	12.5 VAC	12.5 VAC 23.0 VAC	12.5 VAC 23.0 VAC	12.5 VAC 23.0 VAC	24.0 VAC ---
<b>ENVIRONMENTAL</b>					
<b>Operating Temperature</b>	-30°C - +45°C (-22°F - 113°F)				
<b>Min. Installation Spacing</b>	5"	5"	5"	5"	5"
<b>Thermal Class</b>	B130°C	B130°C	B130°C	B130°C	B130°C
<b>DIMMING</b>					
<b>Minimum Dimming Level</b>	1%	1%	1%	1%	1%
<b>PROTECTION</b>					
<b>Circuit Breaker</b> (Primary & Secondary)	Manual Reset				
<b>MECHANICAL HOUSING</b>					
<b>Primary Leads</b>	18 AWG				
<b>Secondary Leads</b>	12 AWG (12VAC) 14 AWG (24VAC)	12 AWG (12VAC) 14 AWG (24VAC)	12 AWG	12 AWG	12 AWG
<b>Length</b>	9.80" (248.9mm)	9.80" (248.9mm)	9.80" (248.9mm)	9.80" (248.9mm)	10.50" (266.7mm)
<b>Width</b>	3.00" (76.2mm)	3.00" (76.2mm)	3.00" (76.2mm)	4.20" (106.7mm)	4.73" (120.20mm)
<b>Height</b>	3.00" (76.2mm)	3.00" (76.2mm)	3.00" (76.2mm)	3.50" (88.9mm)	4.26" (108.2mm)
<b>Weight</b>	7 lbs.	7 lbs.	8 lbs.	8 lbs.	9 lbs.
<b>Housing Material</b>	Coated Metal				
<b>Housing Color</b>	Black	Black	Black	Black	Black
<b>Junction Box</b>	Yes	Yes	Yes	Yes	Yes
<b>Mounting</b>	2-hole flange				
<b>APPROVAL MARKINGS</b>					
<b>Certificates / Approval Signs</b>	ETL Listed Conforms to 8750 C22.2 NO. 223				



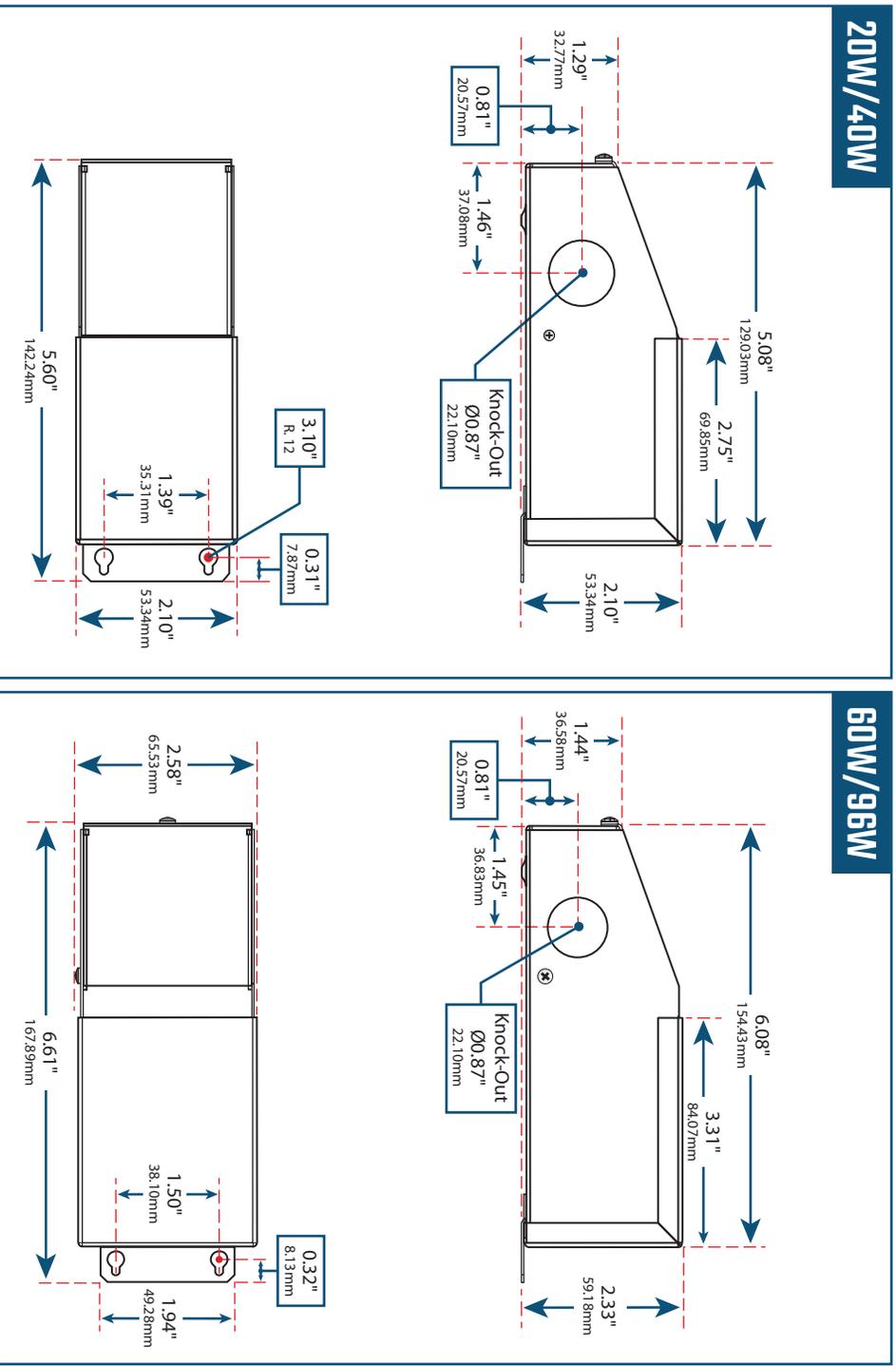
**MAGNITUDE**  
**LIGHTING**

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Customer Service: (714) 312-5080  
Fax: (714) 312-5070  
CustomerCare@MagnitudeInc.com  
www.magnitudeinc.com

# AC-SERIES

INPUT: 120VAC

## Mechanical Diagrams

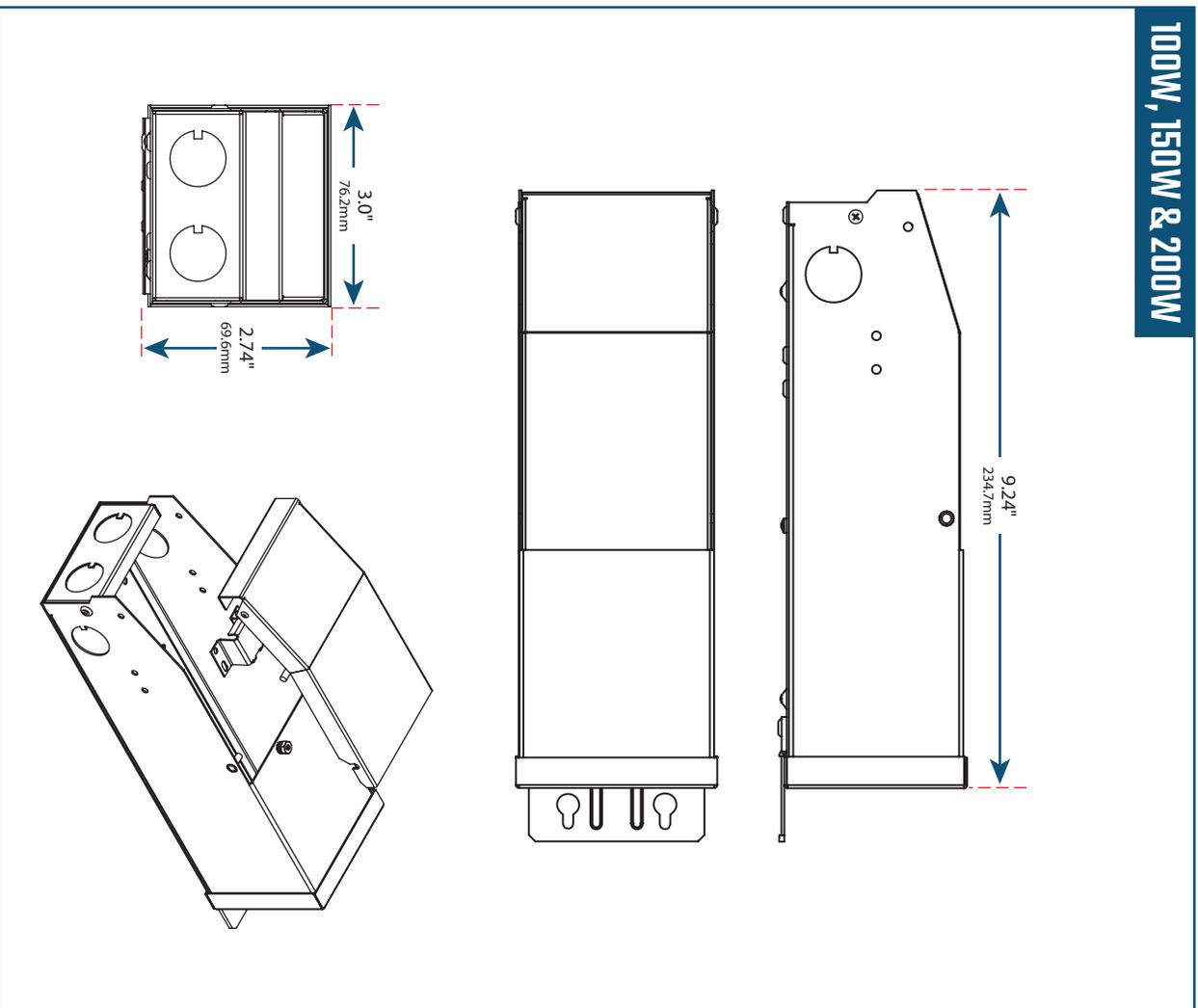


# AC-SERIES

INPUT: 120VAC

## Mechanical Diagrams

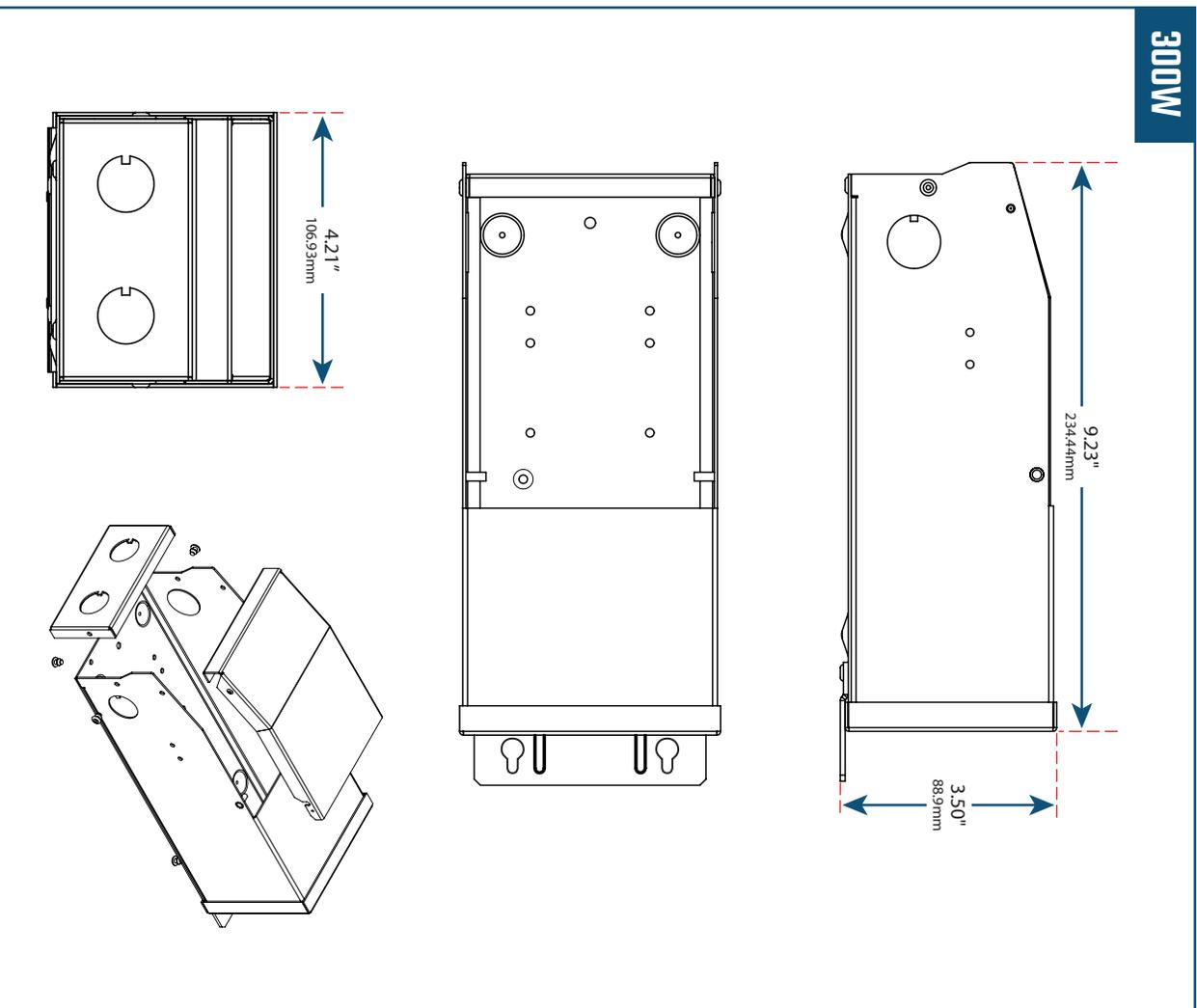
**100W, 150W & 200W**



# AC-SERIES

INPUT: 120VAC

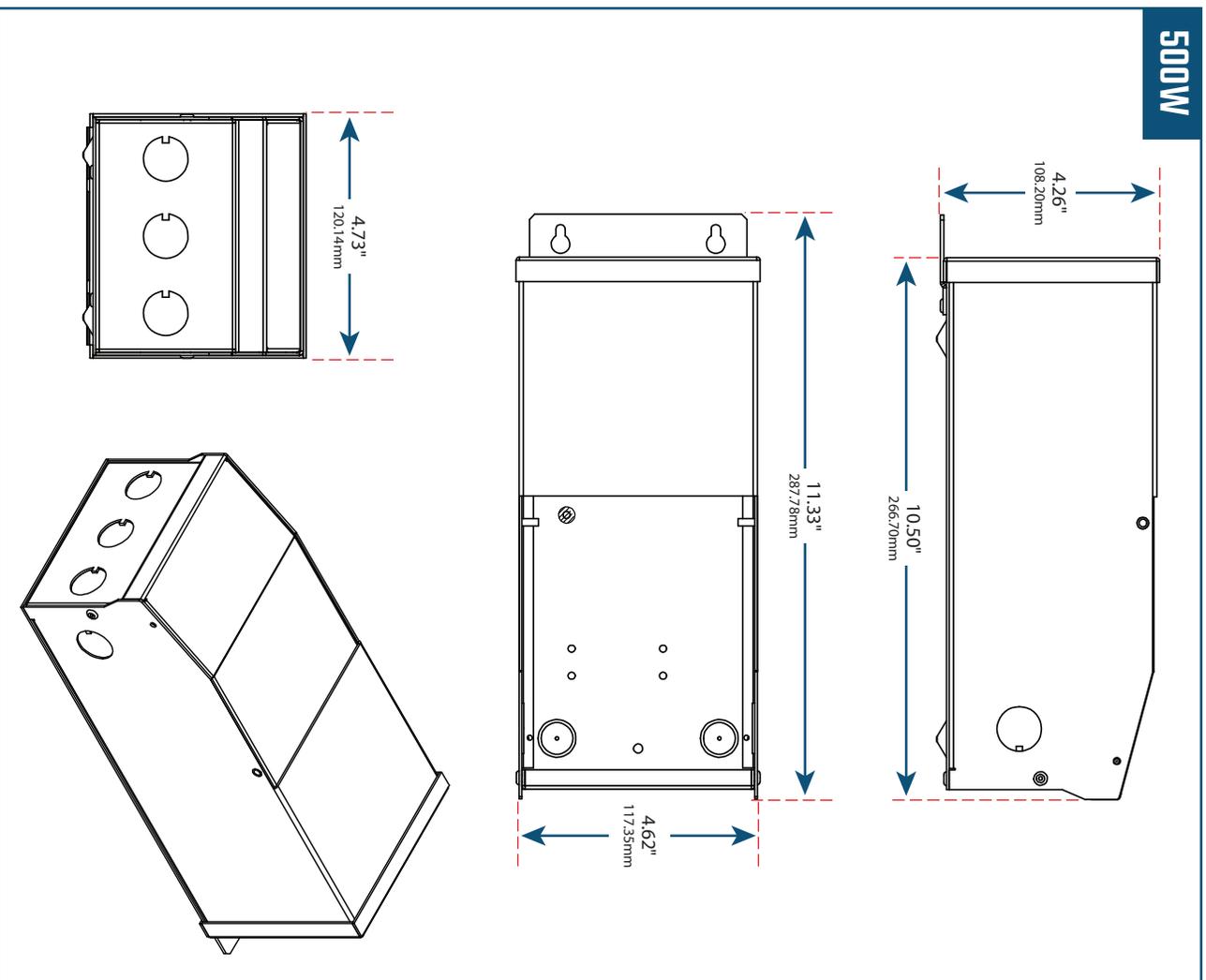
## Mechanical Diagrams



# AC-SERIES

INPUT: 120VAC

## Mechanical Diagrams

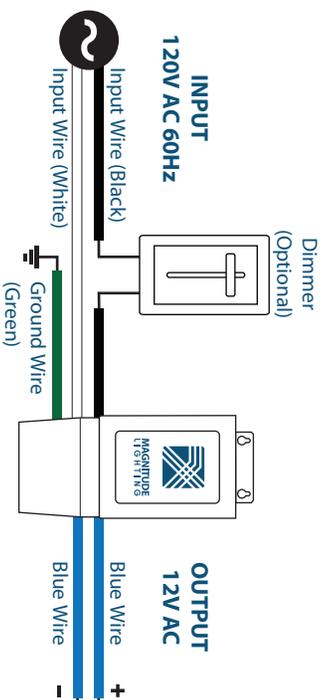


# AC-SERIES

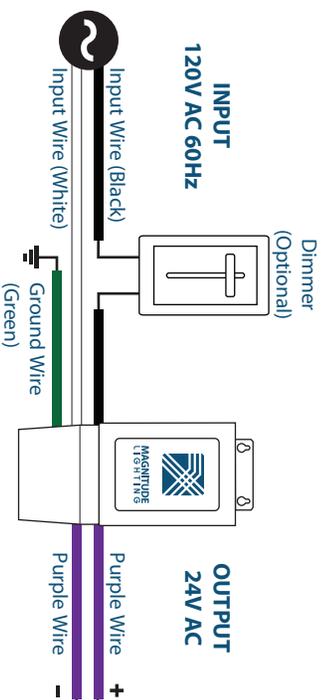
## INPUT: 120VAC

### Wiring Diagrams

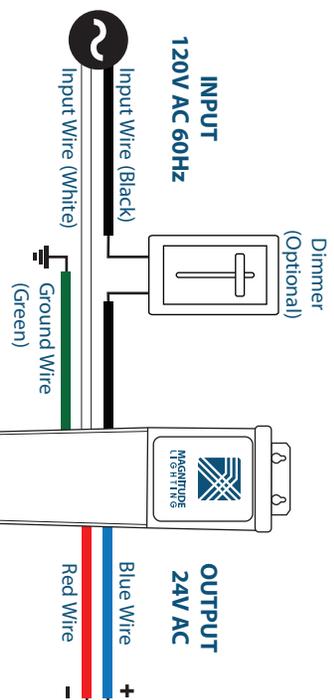
#### 12VAC OUTPUT — 20W to 60W MODELS



#### 24VAC OUTPUT — 20W to 96W MODELS



#### 24VAC OUTPUT — 150W to 500W MODELS



# 12V AC Installation Guide

20W - 100W Magnetic AC Lighting Transformers (20W - 60W are Class 2)

## BEFORE YOU BEGIN

This transformer is to be installed in accordance with Article 450 of the National Electric Code. The transformer must be installed in a well-ventilated area free from explosive gases and vapors. Proper operation requires for free flow of air. As this transformer is hardwired it should only be installed by a qualified electrician.

### Precautions Before Installing

Check the label and ensure the transformer has the proper input voltage and wattage for the job. Check the wire markings to ensure they match the wiring diagram on this installation guide.

### Mounting

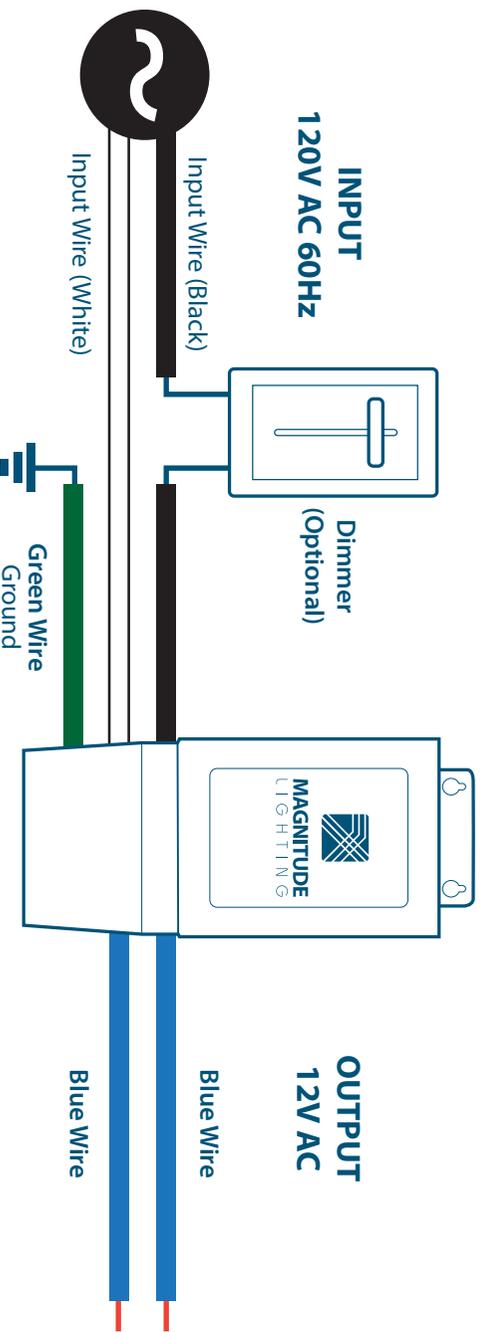
Select a suitable location capable of supporting the weight of the transformer. Use the two keyholes in the transformer case. It is recommended that the transformer be mounted vertically with the wiring compartment pointing down. If you are installing multiple drivers, keep a minimum space of 5" Inch between each driver.

### Input Connections / Grounding

Remove the wiring compartment knockouts and install strain reliefs. With power turned off, route the input wires through a strain relief and connect one wire to black and one wire to white. For all wire connections use only UL listed wire nuts and connectors of suitable size and type. The transformer case MUST be grounded in accordance with the N.E.C. Connect the ground wire to the transformer green wire.

### Output Connections

Bring the wires of the light fixture through the other open knockout and connect them to the transformer's blue output wires.



### Dimming

Dimmable with any standard MLV TRIAC (Leading edge) dimmer switch. Dimmer switch is to be installed on the input (120VAC side) of the driver.

Please visit our website for a full dimmer compatibility list - [www.magnitudeinc.com](http://www.magnitudeinc.com)

### If you need to quickly calculate the drop voltage

Magnigauge - The Ultimate Drop Voltage Calculator **Free App** suitable for Apple and Android Devices go to [www.magnitudeinc.com/service-support/voltage-drop-app/](http://www.magnitudeinc.com/service-support/voltage-drop-app/)



## Bolt Beam 12mm LED Light - 55 Lumens - Natural White Silver

 Part Number: 12B-NW-S



### Features

- Black or chrome finish
- 9-14.5 VDC
- 2 year warranty

[View more details](#)

## Specifications

<b>Beam Angle</b> 	110°	<b>Brand</b>	Super Bright LEDs
<b>Current Draw</b> 	70 mA	<b>Diameter</b>	0.45 in
<b>Input Voltage</b>	9-14.5 VDC	<b>IP Rating</b> 	IP65
<b>LED Quantity</b>	3 (COB)	<b>LED Type</b>	COB (chip-on-board)
<b>Polarity Sensitive</b>	Yes	<b>Wattage</b>	0.84 Watts
<b>Product Materials</b>	Metal	<b>Warranty</b>	2 Year
<b>Wire Gauge</b>	22 AWG	<b>Wire Length</b>	7.5 in (19 cm)

Part NO	Color Temperature	Finish	LED Color	Lumens	Series
<a href="#">12B-A-B</a>		Black	Amber	12 Lumens	
<a href="#">12B-A-S</a>		Silver	Amber	12 Lumens	
<a href="#">12B-B-B</a>		Black	Blue	6 Lumens	
<a href="#">12B-B-S</a>		Silver	Blue	6 Lumens	
<a href="#">12B-CW-B</a>		Black	Cool 6000K	85 Lumens	
<a href="#">12B-CW-S</a>		Silver	Cool 6000K	85 Lumens	
<a href="#">12B-G-B</a>		Black	Green	40 Lumens	
<a href="#">12B-G-S</a>		Silver	Green	40 Lumens	
<a href="#">12B-NW-B</a>		Black	Natural 4000K	85 Lumens	
<a href="#">12B-NW-S</a>		Silver	Natural 4000K	85 Lumens	
<a href="#">12B-R-B</a>		Black	Red	20 Lumens	
<a href="#">12B-R-S</a>		Silver	Red	20 Lumens	
<a href="#">12B-WW-B</a>		Black	Warm 2700K	50 Lumens	
<a href="#">12B-WW-S</a>		Silver	Warm 2700K	50 Lumens	

All specifications are subject to change without notice. All products are [RoHS compliant](#).

## Overview



## 90+ CRI Flexible LED Tape Wet Location Standard Output

### PRODUCT OVERVIEW

A standard output, wet location flexible 120V plug-in or hardwire LED linear tape for architectural coves, indoor steps, bannisters, exterior recesses and other constructs where even, energy saving LED illumination is specified. 5 year warranty. Do not submerge. **Factory cut only - cutting in field will void ETL label and warranty.**






CUTTABLE EVERY 4"

**NOTE: Each run requires power connector (see Connectors and Accessories next page).**

### FEATURES

- 120V operation (no power supply required)
- Wet location - IP65
- Cord and plug or hardwire power connector (replaceable fuse protected)
- Tape encased in UV inhibiting water resistant clear poly flexible sheath
- Dimmable (ELV/Triac - Lutron - Skylark - Selv-300P)
- 2700K, 3000K, 4000K, Red, Green, Blue, Amber
- 120° viewing angle
- Configured by factory in 4 inch increments
- Maximum run: 163 feet
- Mounting options: Clips or PVC / aluminum channel
- Frosted lens and channel covers available (see below)

### SPECIFICATIONS

- ELECTRICAL**
- 120V
  - 2.0 watts per foot
- LABEL**
- IP65
  - ETL

### WARRANTY

- 5 years
- Do not install in an application that is not easily accessed for service.

- LUMENS**
- 27K (140lm/ft), 30K (150lm/ft), 40K (160lm/ft)

- OPERATING TEMP**
- -4 to 122°F (-20 to +50°C)

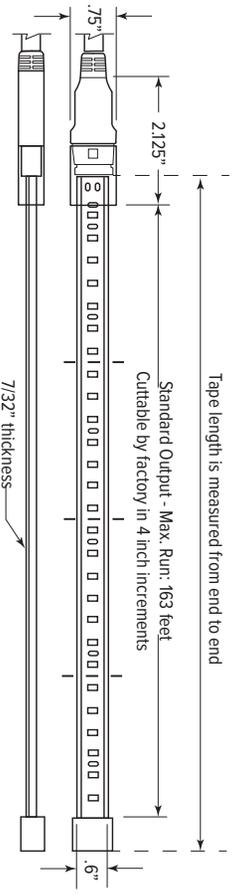
### HOW TO SPECIFY VISION120 AND CREATE A CATALOG NUMBER

**Standard Output (163' Max.)**  
Specify by the foot / inches - **minimum cut is 4"**.

**Example:** To order an 8' 4" length of 2700K tape, specify: V120-SO-27-8-4

**Example:** To order a 24' length of 3000K tape, specify: V120-SO-30-24

**Example:** To order a 120' 8" length of 4000K tape, specify: V120-SO-40-120-8



### ORDERING INFORMATION

-  -  -

Model	Output	Color Temp.	Feet - Inches
V120	SO	2700K (27)	XXX-X
		3000K (30)	
		4000K (40)	
		Amber (AM)	
		Blue (BL)	
		Green (GR)	
		Red (RD)	

Product Video



Product Configurator

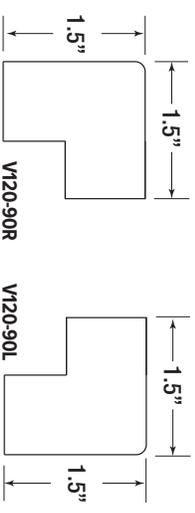
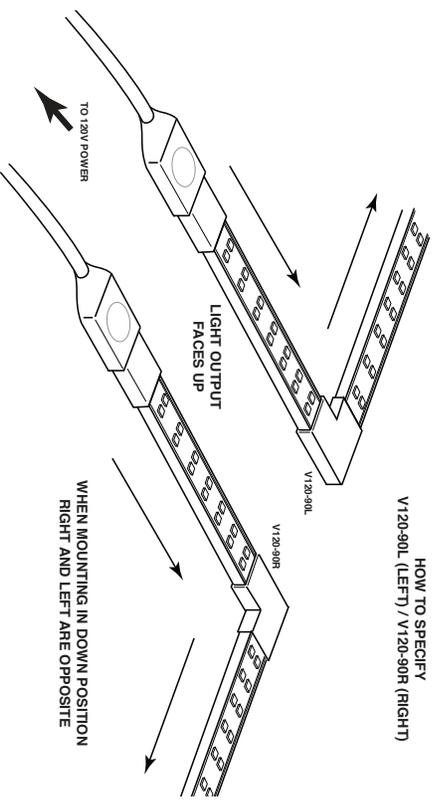
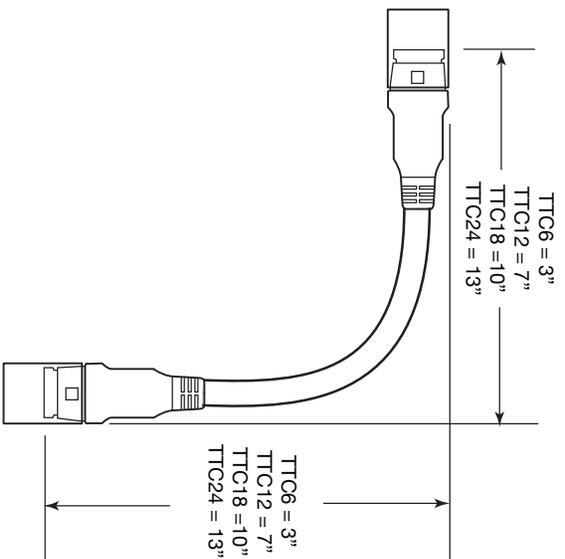


## 90+ CRI Flexible LED Tape Wet Location Standard Output

### CONNECTORS AND ACCESSORIES

Catalog No.	Description
V120-PC-4	4' POWER CONNECTOR - CORD AND PLUG
V120-PC-8	8' POWER CONNECTOR - CORD AND PLUG
V120-PCHW-4	4' POWER CONNECTOR - HARDWARE
V120-PCHW-8	8' POWER CONNECTOR - HARDWARE
V120-TTC-6	5-3/8" TAPE TO TAPE FLEXIBLE CONNECTOR
V120-TTC-12	12-1/2" TAPE TO TAPE FLEXIBLE CONNECTOR
V120-TTC-18	15-1/2" TAPE TO TAPE FLEXIBLE CONNECTOR
V120-TTC-24	23-1/4" TAPE TO TAPE FLEXIBLE CONNECTOR
V120-3M-VHB-15	15' LONG X 1/2" WIDTH DOUBLE-SIDED MTG. TAPE
V120-CHL-4	4' ALUMINUM MOUNTING CHANNEL - LENS SOLD SEPARATELY
V120-CHL-4-LENS	FROSTED LENS FOR 4' ALUMINUM CHANNEL
V120-CHL-8	8' ALUMINUM MOUNTING CHANNEL - LENS SOLD SEPARATELY
V120-CHL-8-LENS	FROSTED LENS FOR 8' ALUMINUM CHANNEL
V120-CHL-P-4	PVC MOUNTING CHANNEL (LENS NOT AVAILABLE)
V120-CHL-P-8	VISION 120 8' PVC MOUNTING CHANNEL (LENS NOT AVAILABLE)
V120-MC	VISION 120 MOUNTING CLIPS - USE 1 PER FOOT MIN. (BAG OF 10)
V120-ECC	END CAP COVERS (2) FOR ALUMINUM CHANNEL WITH LENS, WHITE
V120-90L	VISION120 90° LEFT CONNECTOR
V120-90R	VISION120 90° RIGHT CONNECTOR
SHWC-V120	LUXCONTROL VISION 120 CONTROLLER

### CONNECTORS DIAGRAMS



## Flexible LED Tape Mounting Channels, Lens and Endcaps

### PRODUCT OVERVIEW

Creating a permanent, architectural installation for Vision120 LED tape may require a suitable channel that not only protects the LED tape, but also insures an uninterrupted line of light that is free of hot spots or glare (when using the aluminum channel with frosted lens). Our Vision120 mounting channels are high quality extrusions. Specify either aluminum with lens, or plastic. End caps available (sold in pairs). Easy to install.

### FEATURES

- High grade aluminum
- Field cuttable
- Custom designed end cap for complete finished look
- Easy to mount
- High-grade frosted acrylic lens with over-locking system for aluminum channel

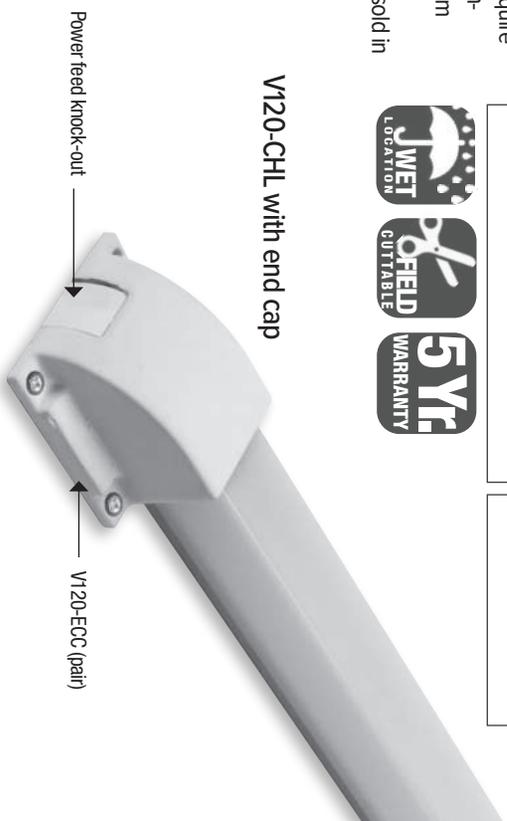
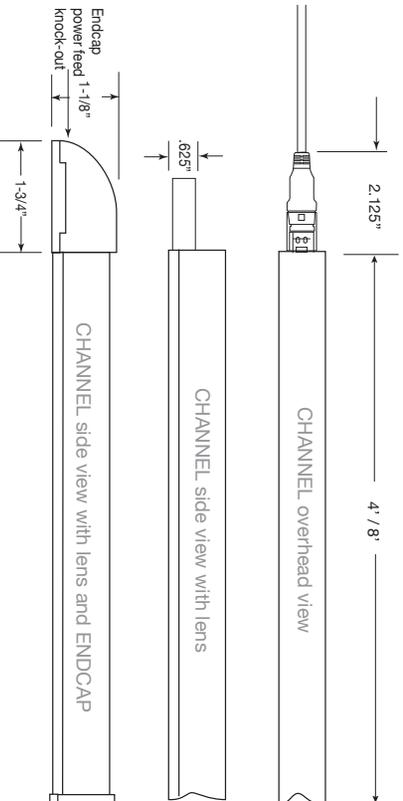
### SPECIFICATIONS

#### LABEL

- ETL

#### WARRANTY

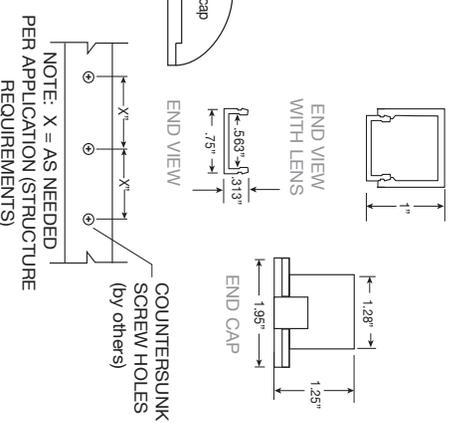
- 5 years



Project Name	Type
Catalog #	Date

V120-CHL with end cap

NOTE: FOR MILLWORK / RECESSED APPLICATIONS - CONSULT FACTORY FOR DECIMAL MEASUREMENTS



NOTE: X = AS NEEDED PER APPLICATION (STRUCTURE REQUIREMENTS)

Model	Type	Length	Color
V120	CHL	4 (4 ft.)	Blank (Silver Anodized)
		8 (8 ft.)	Blank (Silver Anodized)

Example: V120-CHL-8

### ACCESSORIES

Model	Description
V120-CHL-4-LENS	Frosted lens for 4' Aluminum Mounting Channel
V120-CHL-8-LENS	Frosted lens for 8' Aluminum Mounting Channel
V120-CHL-P-4	4' PVC Mounting Channel (Lens Not Available)
V120-CHL-P-8	8' PVC Mounting Channel (Lens Not Available)
V120-ECC	End Cap Covers (2 with Mounting Screws for Aluminum Mounting Channel with Lens with Knock-out for Power or Connectors

### BEFORE YOU START:

- Please check local Electrical codes before beginning
- Turn power off before installing
- Make sure to use properly rated wire

**NOTE: WE RECOMMEND THAT YOU ENGAGE A QUALIFIED AND LICENSED ELECTRICIAN, MODIFYING OR DISASSEMBLING BEYOND INSTRUCTIONS WILL VOID THE WARRANTY FOR THIS PRODUCT.**

### TOOLS NEEDED:

- Phillips screwdriver to attach mounting channel.

**1. DETERMINE YOUR LAYOUT AND PLACEMENT OF LED TAPE. CLEAN SURFACE WHERE YOU ARE APPLYING TAPE TO MAKE SURE IT IS FREE OF DUST AND ANY MATERIAL THAT MAY IMPEDE ADHESIVE OR CLEAN INSTALLATION OF MOUNTING CHANNEL.**

**2. POWER FEED:** Vision120 can be either plugged into wall outlet, or hardwired into power feed. (FIG. 1). **MAKE SURE THAT ORIGINAL INLINE 8 AMP FUSE IS USED FOR BOTH PLUG-IN AND HARDWIRE OPTIONS. FAILURE TO NOT INSTALL FUSE PROPERLY VOIDS WARRANTY. FOR HARDWIRE APPLICATIONS, USE PROPER J-BOX BY OTHERS. CONNECT V120-PCHW TO LEADS COMING OUT OF JUNCTION BOX.**

**3. INSTALLING V120 CHANNEL:** When using screws, mark where mounting holes are to be drilled every twelve inches (FIG. 2) and install channel, screwing counter-sunk screws (by others) into mounting surface (FIG. 3). When using 3M tape apply it along entire length of channel.

**INSTALLING TAPE WITHOUT MOUNTING CHANNEL:** For tape installations indoors, where there is no moisture present, apply 3M double stick tape (sold separately) to entire length of LED tape and peel back to expose adhesive (FIG. 4). Firmly press tape into position.

**NOTE: IF YOU ARE USING OTHER CHANNELS, I.E. LED-CHL-XD - USE 3M ADHESIVE BACK TO HOLD TAPE INTO THIS LARGER CHANNEL.**

**VISION120 TAPE IS NOT FIELD CUTTABLE OR JOINABLE (FIG. 5). DO NOT EXCEED CORNERING TOLERANCES OF TAPE. TAPE CANNOT ROUND A CORNER TIGHTER THAN 2.5". FOR OUTDOOR MOUNTING, APPLY A BEAD OF WATERPROOF SILICONE AROUND BASE OF CHANNEL AND SEAL LENS TO CHANNEL WITH CAULK (FIG. 6).**

**4. ATTACHING LENS AND END CAPS:** Press lens down so that lens is captured inside trails of mounting channel. Attach end caps - one cap for end of run, the other cap for power connection end. Ply open tab for power connection end for power connector cable. This end cap hides the connector. (FIG. 7)

FIG. 1

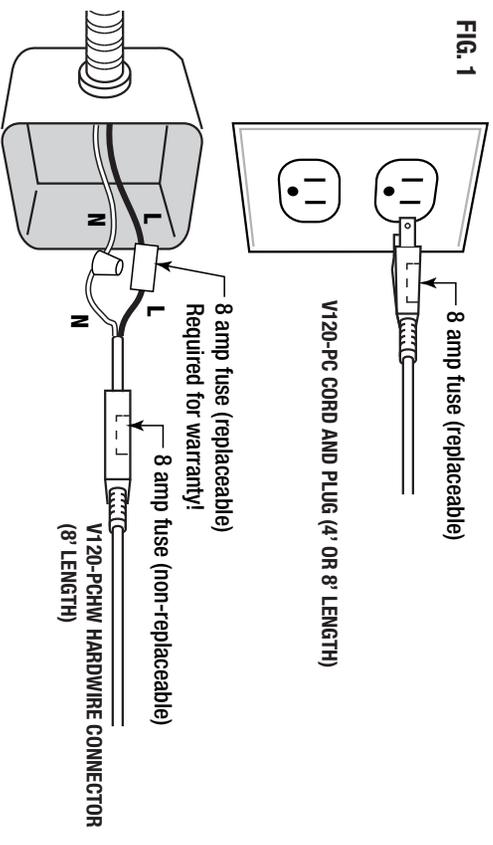


FIG. 2

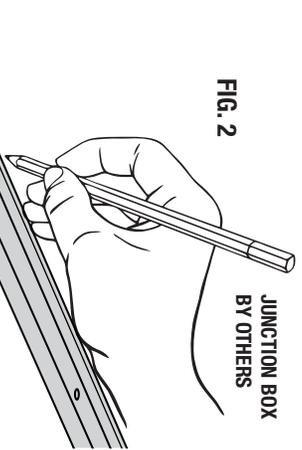


FIG. 3

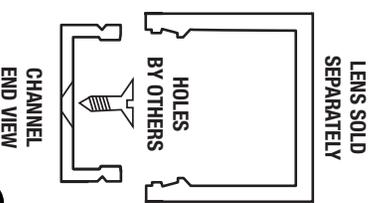


FIG. 4

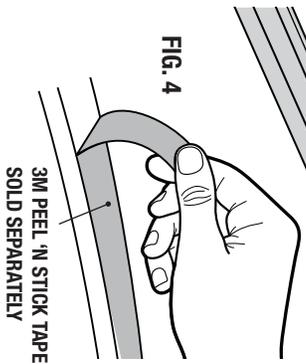
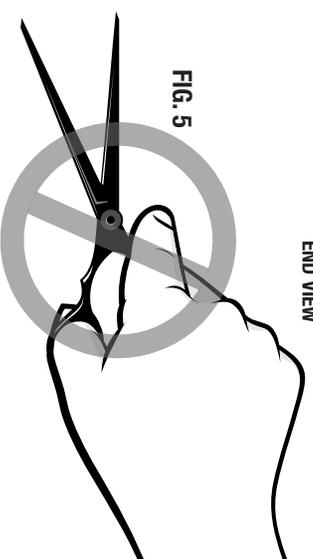


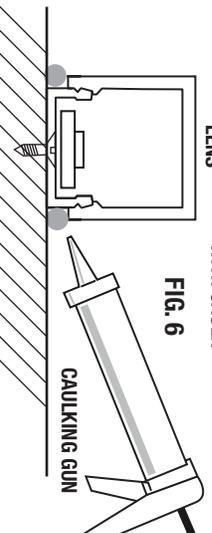
FIG. 5



LENS

**FOR OUTDOORS INSTALLATION, ALSO SEAL LENS TO CHANNEL WITH CAULK**

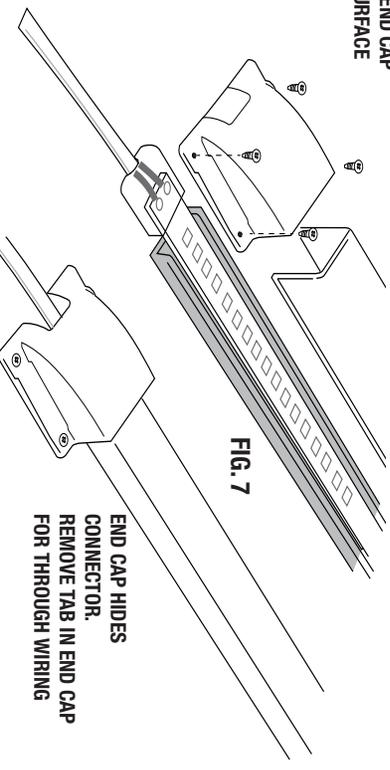
FIG. 6



**SCREW END CAP ONTO SURFACE**

**LENS**

FIG. 7



# GMLighting® Vision120™ Standard Output Layout Worksheet

"Lighting Enhanced by Design™"

Customer \_\_\_\_\_

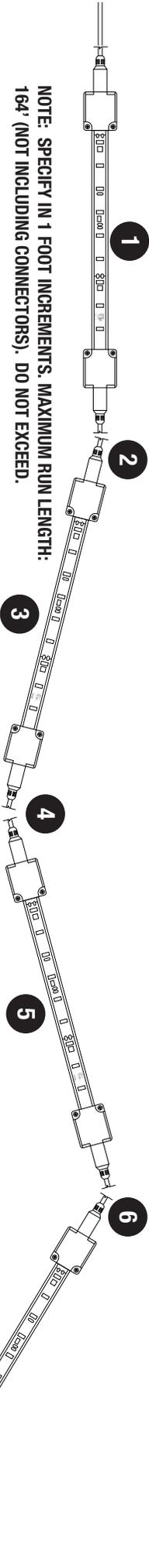
Job \_\_\_\_\_

Distributor \_\_\_\_\_

Purchase Order No. \_\_\_\_\_

## How to create a long run of multiple strips and connectors.

1. Specify Power Feed
2. Beginning with the first strip, specify color temp. and length of strip. Specify length of connector.
3. Proceed to next strip and connector. Repeat with as many strips as needed to complete your run (use additional worksheets for longer runs)
4. Last strip in your run is terminated with an end cap.

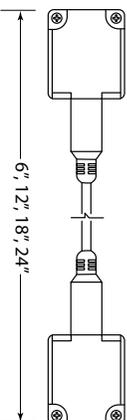


**NOTE: SPECIFY IN 1 FOOT INCREMENTS. MAXIMUM RUN LENGTH: 164' (NOT INCLUDING CONNECTORS). DO NOT EXCEED.**

### SPECIFY POWER FEED

- V120-PC-4**  
4' Cord and Plug  
with Fuse Protection
- V120-PC-8**  
8' Cord and Plug  
with Fuse Protection
- V120-PCH-8**  
8' Hardwire  
no Fuse Protection

### CONNECTOR DIMENSIONS:



1	2	3	4	5	6	7	8	9
LED Strip 1	Connector 1	LED Strip 2	Connector 2	LED Strip 3	Connector 3	LED Strip 4	Connector 4	LED Strip 5
V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-
V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-
V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-
V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-	TTC-__	V120-S0-_-_-
<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>	<b>SPECIFY:</b>
<b>Color Temp.</b> 27 - 2700K 30 - 3000K 40 - 4000K	<b>6</b> 6" Connector 12 12" Connector 18 18" Connector	<b>Color Temp.</b> 27 - 2700K 30 - 3000K 40 - 4000K	<b>6</b> 6" Connector 12 12" Connector 18 18" Connector	<b>Color Temp.</b> 27 - 2700K 30 - 3000K 40 - 4000K	<b>6</b> 6" Connector 12 12" Connector 18 18" Connector	<b>Color Temp.</b> 27 - 2700K 30 - 3000K 40 - 4000K	<b>6</b> 6" Connector 12 12" Connector 18 18" Connector	<b>Color Temp.</b> 27 - 2700K 30 - 3000K 40 - 4000K
<b>RD - Red, BL - Blue, GR - Green, AM - Amber</b>	<b>18" Connector 24</b>	<b>RD - Red, BL - Blue, GR - Green, AM - Amber</b>	<b>18" Connector 24</b>	<b>RD - Red, BL - Blue, GR - Green, AM - Amber</b>	<b>18" Connector 24</b>	<b>RD - Red, BL - Blue, GR - Green, AM - Amber</b>	<b>18" Connector 24</b>	<b>RD - Red, BL - Blue, GR - Green, AM - Amber</b>
<b>Length:</b> 1 FOOT INCREMENTS	<b>24" Connector</b>	<b>Length:</b> 1 FOOT INCREMENTS						

### Example:

V120-S0-27-12	TTC-6	V120-S0-27-8	TTC-12	V120-S0-27-36	TTC-24	V120-S0-27-18	TTC-6	V120-S0-27-4
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Your e-mail address \_\_\_\_\_

FOR OFFICE USE ONLY

Approved by \_\_\_\_\_

Built by \_\_\_\_\_



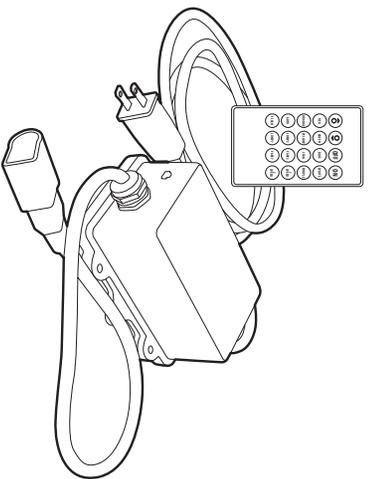
Where light meets perfection



DATA SHEET

# 120V AC WATERPROOF RGB LED CONTROLLER FOR NEON DRIVERLESS LED STRIP LIGHT WITH IR REMOTE

SKU: SA-DLS-NEON-IR-REMOTE-CTRL-IP65



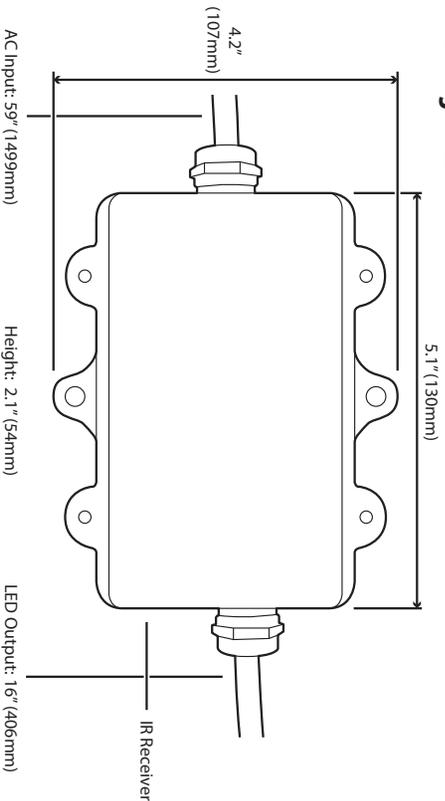
## Product Description

The 120V AC Waterproof Driverless RGB Controller with IR (Infrared) Remote has been created to easily bring color changing control and power to our Waterproof Driverless RGB Neon LED Light Strips. One controller can power 165 continuous feet of RGB Neon Driverless LEDs. With a waterproof rating of IP65, this controller can be used in outdoor and wet locations and is preinstalled with a four prong connector for our Waterproof Driverless RGB Neon LED strips. Complete your connection with our Waterproofing Glue for end to end water resistance in your lighting projects. Each Controller includes an Infrared Remote allowing you to turn Driverless Neon LED Strips on and off without unplugging, control brightness levels, and choose from eight beautiful static colors: red, green, blue, white, orange, yellow, cyan, and purple. Customize the look and feel by selecting from six color changing programs including fading, jumping, flashing, and more with two adjustable speeds.

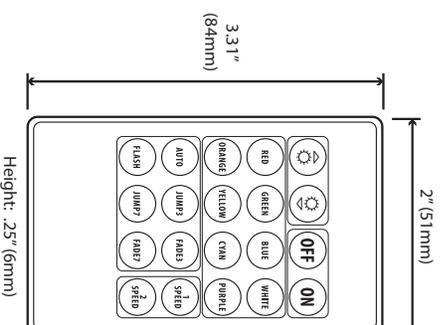
## Quick Spec.

• <b>Dimmable</b>	Yes, by remote	• <b>Weight:</b>	1.9 lb
• <b>Input Voltage:</b>	Controller: 120VAC	• <b>Dimensions:</b>	Remote: 3.31"x2"x0.25" Controller: 5.1"x4.2"x2.1"
• <b>Max Power:</b>	Controller: 750W	• <b>IP Rating:</b>	IP65
• <b>Warranty:</b>	2 Years	• <b>RGB Channels</b>	3
		• <b>Product Color:</b>	Gray and White
		• <b>Working Temp:</b>	-4 - 122F
		• <b>Certifications:</b>	ETL, CE, RoHS

## Technical Diagrams

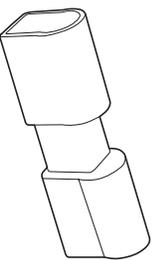


CONTROLLER TOP



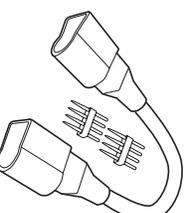
REMOTE FRONT

## Companion Products



Joiner for RGB Neon LED Strip Light

SKU: SA-NLS-JOIN-RGB



4.5" Interconnector Cable for RGB Neon Strip Light

SKU: SA-NLS-INTERCONN-RGB-4



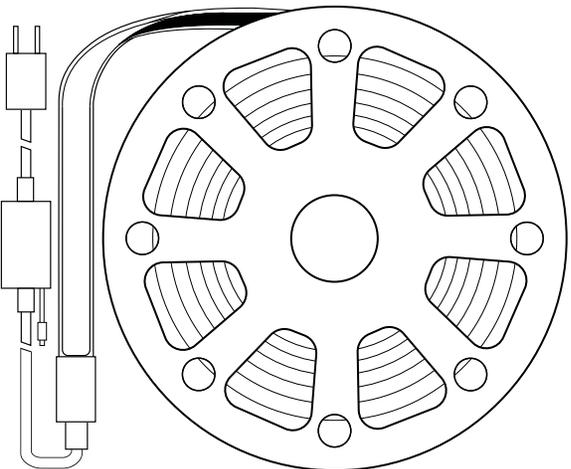
**Solid Apollo LED**  
Where light meets perfection



DATA SHEET

# RGB FLEX NEON LED STRIP LIGHT 120V AC

SKU: SA-NLS-RGB



## Product Description

RGB Flex Color Changing Neon LED strip lights create the look and feel of eye-catching neon lights using energy saving LEDs. No more expensive and dangerous high voltage lighting required to enjoy the amazing colors of neon lights. Neon LED strips are safer, flexible, and more affordable, coming in lengths as short as 18" up to 165 continuous feet on one plug. RGB Flex Neon includes an infrared remote for control of brightness levels and the choice of eight static colors: red, green, blue, white, orange, yellow, cyan, and purple. Customize the look and feel with six fading color changing programs and two adjustable speeds. This neon LED strip runs on any AC wall outlet, bringing the ability to add the look of neon lighting virtually anywhere at low cost and with no professional assistance. Compared to traditional neon lighting with dangerous gases, custom fixtures, and high voltage energy transformers, Neon LEDs are safe and flexible with a bend radius as small as 3" and come ready to plug in right out of the box. Neon LED strip lights come fully sealed in silicone tubing to protect the strip from the elements. The tubing is UV protected and waterproof rated at IP65 for the toughest outdoor applications including outdoor commercial lighting, hospitality lighting, architectural lighting, landscape lighting, and deck/patio lighting.

- ETL Listed for Safety and Durability
- No high voltage transformers needed
- Operates at low voltage of 2.5w/f
- No dangerous neon gases
- Each purchase includes power cord and end cap installed
- Installs in seconds
- No wires to cut and solder
- Up to 165' with just one plug
- High grade waterproof silicone housing for added protection (IP65 rating)
- Great for indoor and outdoor projects
- Includes an Infrared Remote
- Ready to plug and play
- Cut points every 18" (45.72cm)
- Change colors with the Infrared Remote
- Control brightness level
- Shuffle through 6 color changing programs
- 2 adjustable speeds

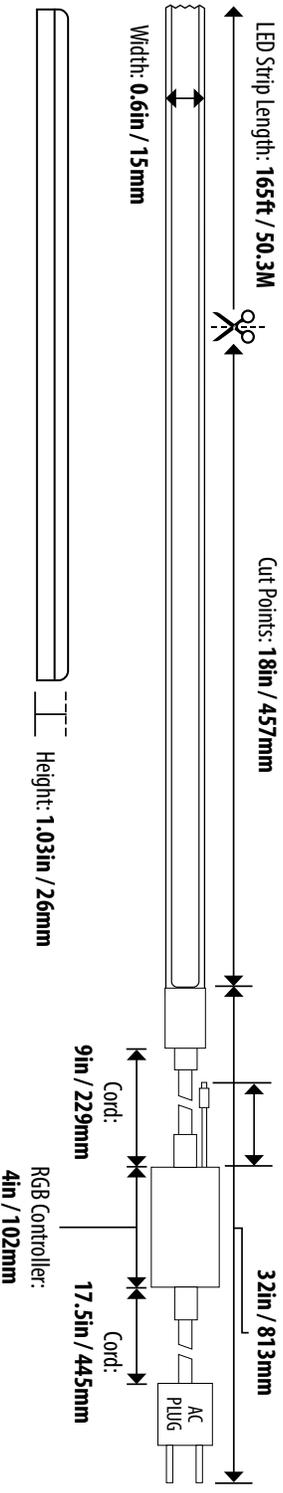
## Quick Spec.

- **Fully Dimmable:** Yes, by Infrared Remote
- **Voltage:** 120V AC
- **Total Wattage:** 400W
- **PCB Width:** 0.71in / 18mm
- **Dimensions:** 1980in x 0.6in x 1.03in
- **Working Temperature:** -10° to 140°F
- **Certifications:** ETL certified



up to  
**165ft**

## RGB Waterproof LED Strip Illustration



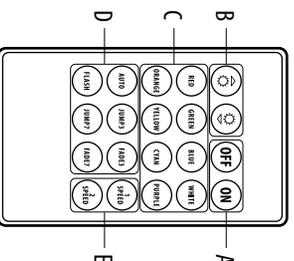
## Technical Diagrams

### BUTTON CONTROLS

- A - On/off power control
- B - Increase/decrease brightness levels
- C - Eight static colors
- D - Six color changing programs
- E - Two adjustable speed programs

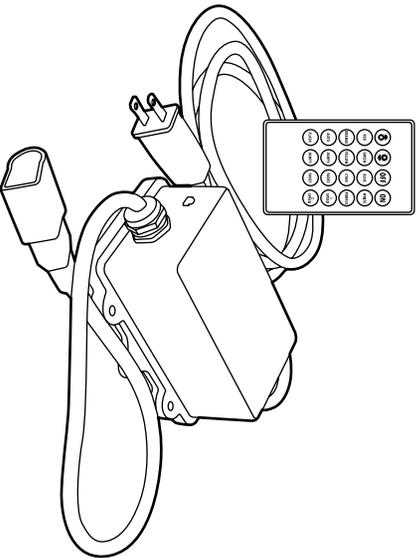
### REMOTE SIZE

Height: 0.25in  
Length: 3.31in  
Width: 2in



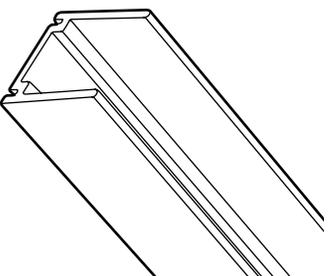
# RGB FLEX NEON LED STRIP LIGHT 120V AC ACCESSORIES

## Waterproof RGB Controller

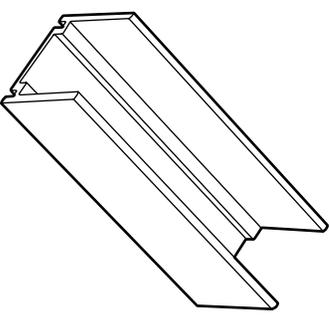


**120V AC Waterproof RGB LED Controller for RGB Driverless LED Strip Light with IR Remote**  
SKU: SA-DLS-RGB-IR-REMOTE-CNTRL-IP65

## Brackets

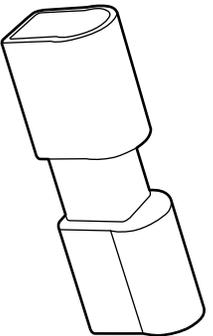


**78" Bracket for RGB Neon LED Strip Light**  
SKU: SA-NLS-BRACKET-RGB-78



**2" Bracket for RGB Neon LED Strip Light**  
SKU: SA-NLS-BRACKET-RGB

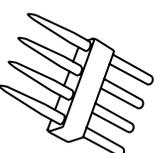
## Accessories



**Joiner for RGB Neon LED Strip Light**  
SKU: SA-NLS-JOIN-RGB



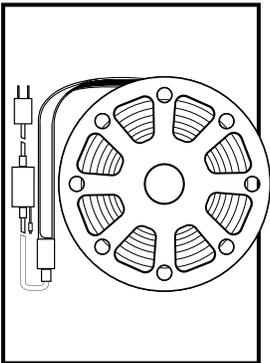
**End Cap for RGB Neon LED Strip Light**  
SKU: SA-NLS-ENDCAP-RGB



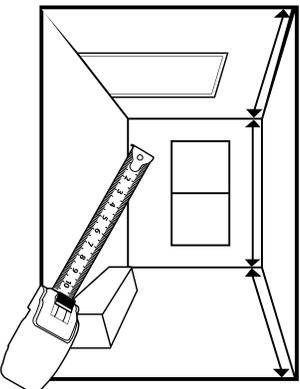
**Prong for RGB Neon LED Strip Light**  
SKU: SA-NLS-PRONG-RGB

**RGB FLEX NEON LED STRIP LIGHT 120V AC INSTALLATION GUIDE**

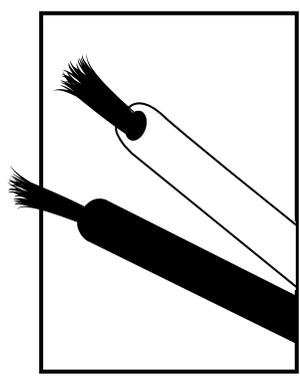
- 1.** Determine where to install the Neon LED.



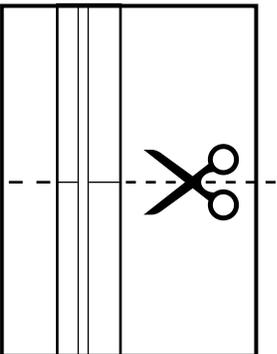
- 2.** Determine the measurement of area where the Neon will be placed.



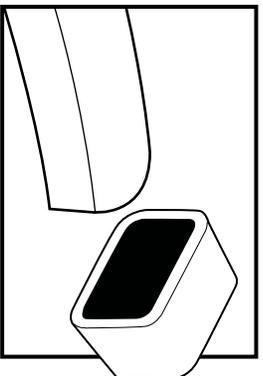
- 3.** If needed, cut additional wire (extending Neon to dimmer).



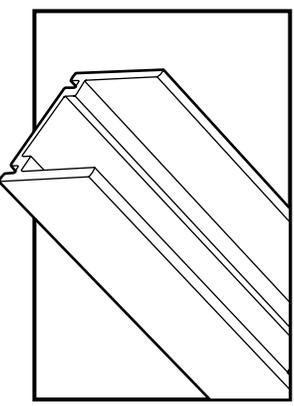
- 4. A.** Cut Neon (at cutting points) to fit or join multiple sections as recommended to cover installation area.



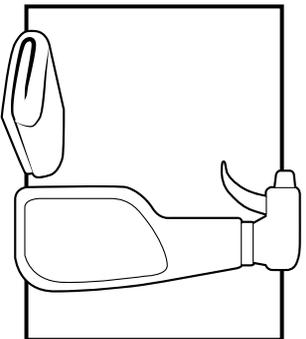
- B.** If Neon is cut, ensure proper waterproofing with an end cap and PVC cement.



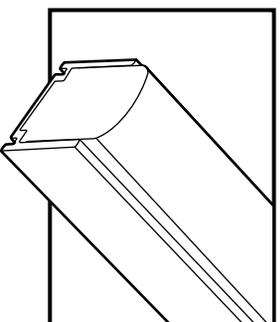
- 5.** If using channels, cut or extend them to fit the size of the installation area.



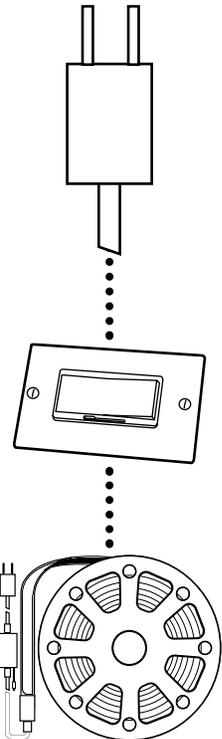
- 6.** Thoroughly clean the surface where the Neon will be mounted.



- 7.** If using channels, mount the channel to the surface and gently push the Neon in to the mounted channel.



- 8.** Complete the connection/wiring between the plug, optional dimmer, and LED Strips.

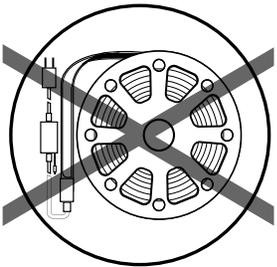


- 9.** Power up and enjoy!

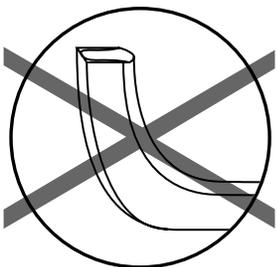
**Note:** If you have questions and concerns regarding the installation process. Please feel free to contact us at 425.582.7533. We will gladly assist you.

# RGB FLEX NEON LED STRIP LIGHT 120V AC WARNINGS

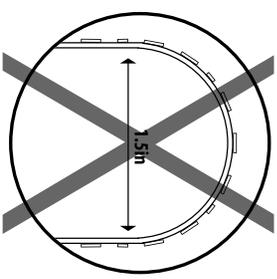
**Do not** power Neon LED still coiled in spool.



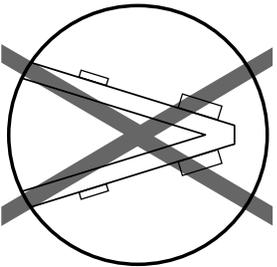
**Do not** bend Neon LED up and down. This light is **SIDE BENDING** only.



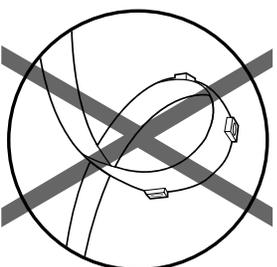
**Do not** bend Neon LED to a diameter less than 1.5 inches.



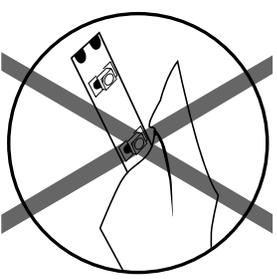
**Do not** fold or crease Neon LED.



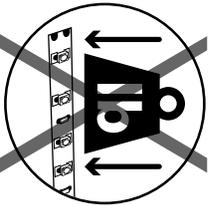
**Do not** twist Neon LED.



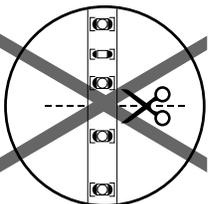
**Do not** cover Neon LED with anything other than LED Channel Diffusers.



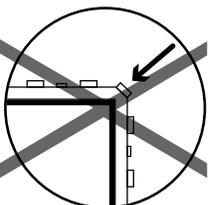
**Do not** put direct excessive pressure on the Neon LED surface.



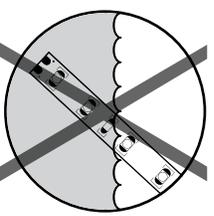
**Do not** cut Neon LED except at designated cutting points.



**Do not** position LED at an angled surface where it is pressed.



**Do not** submerge Neon LED lights.



# RGB FLEX NEON LED STRIP LIGHT 120V AC SAFETY & WARRANTY

---

## Safety / Disclosures

1. Install in accordance with the proper installation procedure (See pg. 3).
2. Install in accordance with your national or local electrical code regulations.
3. Suitable for wet locations (IP65 Rated).
4. Do not expose to heat more than the specified temperature ratings.
5. Only install with the required 120V AC plug.
6. Use a separate power feed for each recommended maximum run.
7. Only use cables that are certified for use with external connection of electrical equipment and rated for at least 80°C (176°F)
8. Do not mishandle product or modify beyond the guidelines given as this may void product warranty.
9. Only use with the recommended waterproof accessories and ensure complete waterproofing of any modified sections of the strip.
10. Only use the recommended waterproof accessories and wires to connect between LED strip light, driver, controller, and other devices in between.
11. The output color of the LED Strips may have slight variation from that of the pictures on this document or website due to photo rendering limitations.
12. Design improvements and modification of the products could happen from to time and we reserve the right to do these improvements necessary without any prior notice.

## Warranty

The **RGB Driverless 120V AC LED Strip Lights** come with a 2-year limited warranty from the date it is shipped to the customer. This warranty covers the product as long as it is used for the designed purpose and normally operated unless otherwise stated.

Please visit [www.solidapollo.com/returns-amp-warranty.html](http://www.solidapollo.com/returns-amp-warranty.html) for the complete warranty details on the product. For any additional questions about product warranty, feel free to contact customer support at 425.582.7533.

# USER MANUAL

## Neon LED Configuration



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### Product Description

Neon LED comes ready for customization to fit almost any lighting project. This user guide is intended to instruct anyone on how to re-power Neon LED, add joiners and an endcap.

This user manual can be used when extra Neon LED has been left over from an installation or if extra Neon LED needs to be added, or during an installation where unexpected gaps or jumps are suddenly required. Basically every part of making a fully waterproof and long lasting installation is covered in this user manual.

### Main Functions:

- Power Adapter: For re-powering a piece of Neon LED
- Joiner: Used for reconnecting Neon LED
- Endcap: For adding a waterproof seal to the end of Neon LED
- Mounting Bracket: For firmly attaching Neon LED

### Technical Features:

- Operating Voltage: 120V AC
- Watts Per Foot: 2.42W
- Cut Points: Every 18 inches
- 36 LED's per foot

### This manual reviews:

- Entire waterproof and configuration process
- How to add a power adapter
- How to install a joiner
- How to add the endcap
- How to install the mounting bracket



Neon LED

### Installation

This section will show you how to cut the Neon LED, add a power adapter, install a joiner, and add an endcap to complete the configuration for a fully waterproof seal. This manual also covers how to mount, install and use the mounting brackets. **All Neon LED can only be powered in one direction.** When cutting Neon, try to keep track of which end is cut. Please note, for outdoor or high humidity applications, we recommend using clear PVC cement for all connections (as noted in instructions), and we recommend at least 24 hours of drying time before installing or using the Neon. The 120V Neon LED is a **SIDE BENDING** (left and right) unit, bending in the opposite direction of the light output. Bending the Neon vertically (up and down) could split the contacts causing the unit to fail.

#### Tools Required:

- Sharp Metal Scissors or Shears (for cutting Neon at cut points)
- Paper Towels (for excess glue)
- Tong or Tweezer (for prong removal during testing)

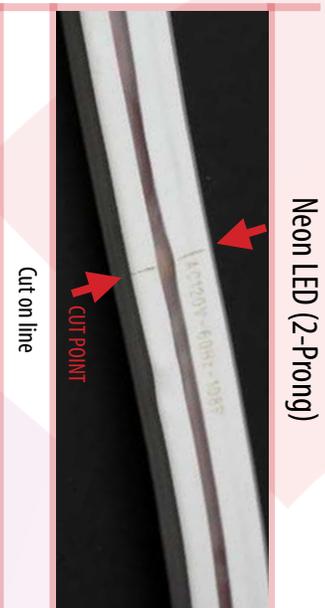
**Warning: Neon LED must be unplugged when any modifications are performed. 120V AC Current is Dangerous and may cause electrical shock, injury and in some cases death.**

### Cutting the Neon:

Each Neon LED has cut points every 18" inches. Refer to the diagrams below for the cut point symbol found on the Neon LED.

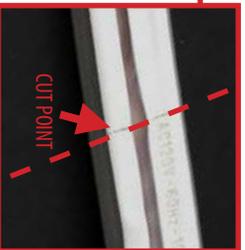
#### Neon LED Cut Point:

Neon LED (2-Prong)



**Warning: Any tool with a blade is dangerous, and caution is advised when handling any blade. Please make sure hands and fingers are kept at least several inches away from any blade and are not placed in the direction of the blade.**

- 1 Find the cut point on the Neon LED. Imagine a line passing from one side of the Neon LED to the other with the center being the cut point symbol. Take either scissors or shears and line it up perpendicularly to the cut point and cut through the Neon LED.



...continued on next page

# USER MANUAL Neon LED Configuration



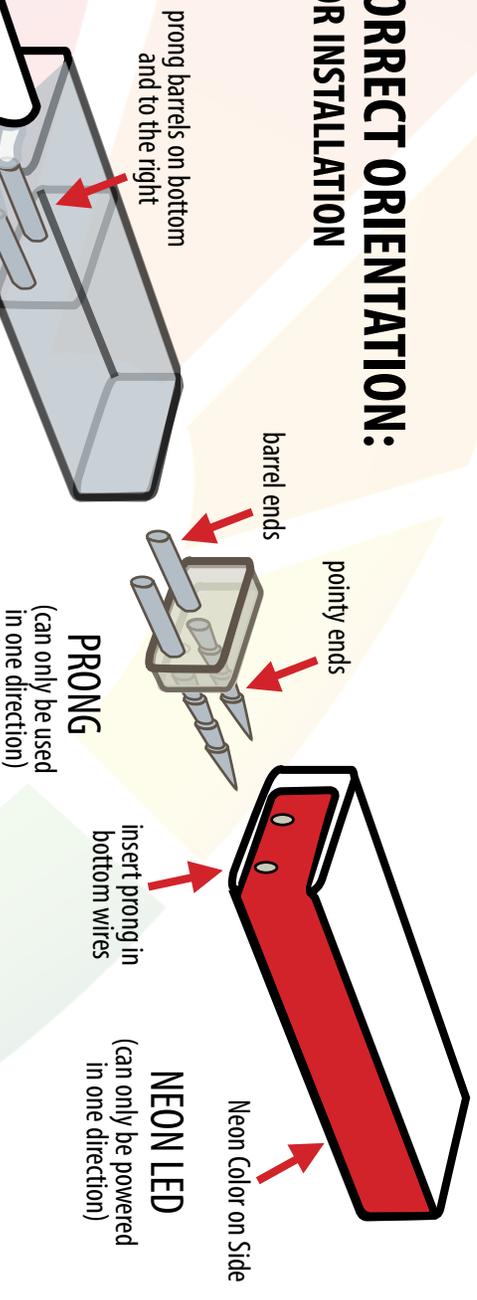
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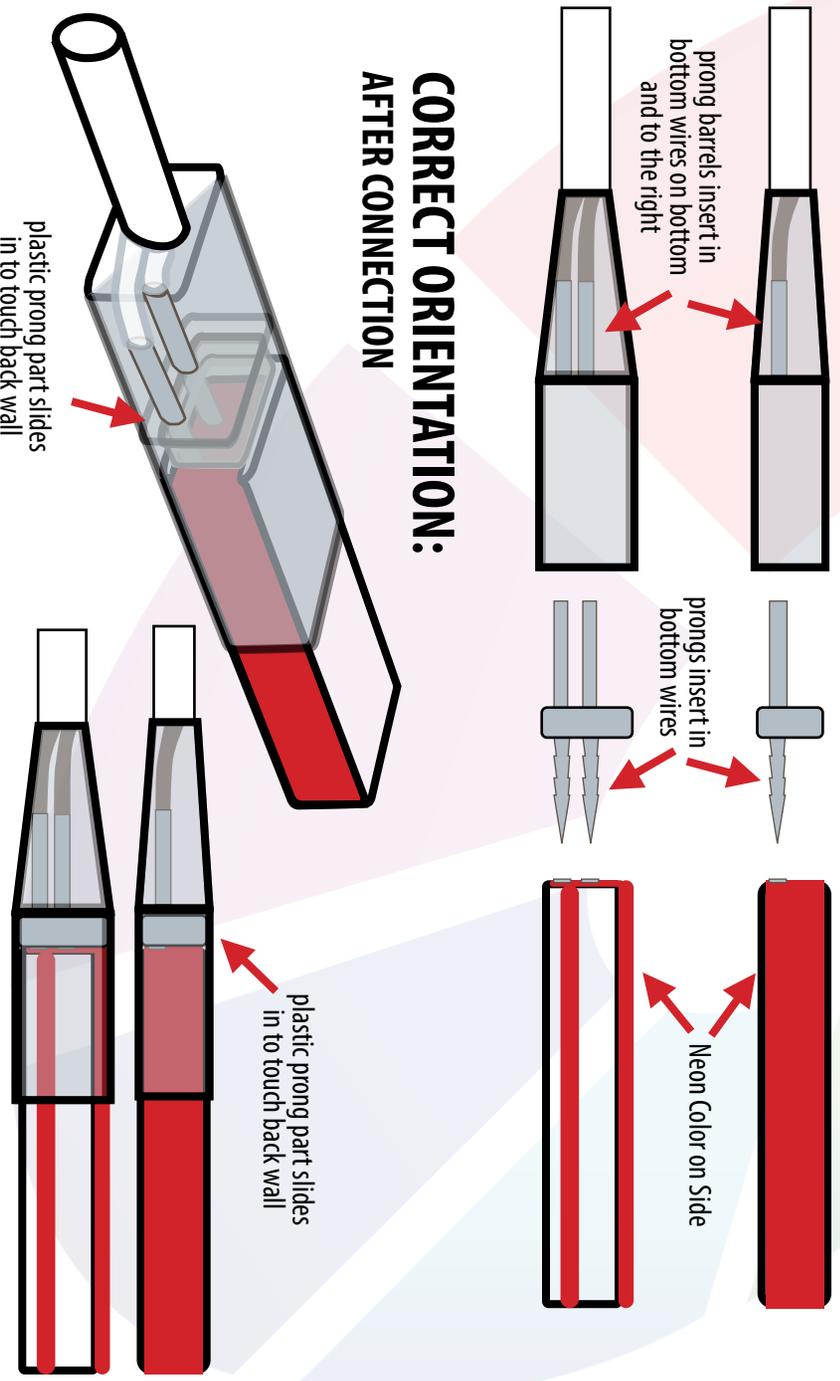
## Connector Orientation:

The orientation between the prongs and the connector must match for correct installation. The pointy end of the prong can only be inserted into the Neon LED. The barrel end (non-pointy end) of the prong can only be inserted into the connector. The prongs and barrel connectors must always be on the bottom and to the right to work correctly.

## CORRECT ORIENTATION: FOR INSTALLATION



## CORRECT ORIENTATION: AFTER CONNECTION



# USER MANUAL

## Neon LED Configuration



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### Pictures of Correct Connector Orientation



Neon LED (2-Prong)

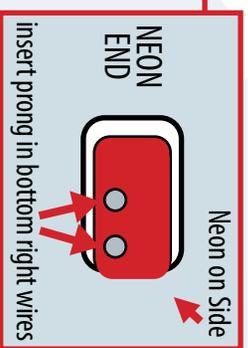
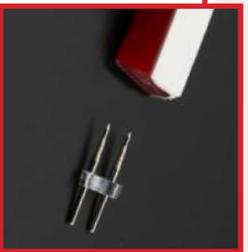
For more information see **Page 15** for detailed pictures of Neon LED and the matching parts

### Powering the Neon:

In this section you will learn how to add the power adapter to any cut point on the Neon LED.

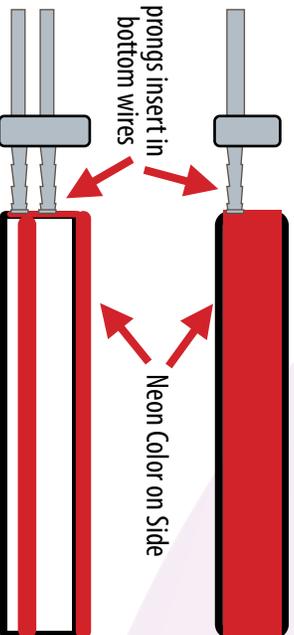
- 1 First, the components need to be tested to confirm they work before adding any glue. The Neon LED can only be powered from one end. If you are unsure which end is correct, one end at a time must be tested to find the correct end for adding power for the Neon LED to work.

- 2 Take the prong and line it up to the Neon LED making sure the prong is oriented in the correct direction. Carefully insert the pointy end of the prong into exposed wire ends. Try to have each prong insert into the center of each exposed wire end. The prong needs to be inserted as far as possible without using excessive force.

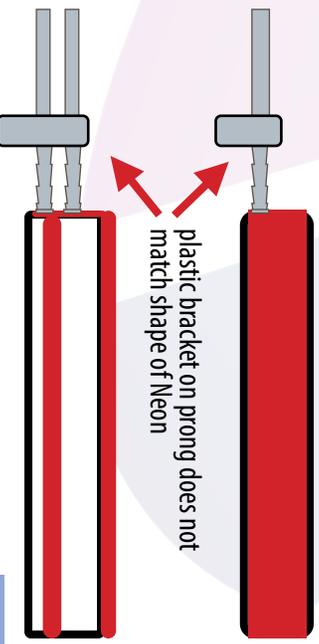


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**CORRECT:** ✓



**INCORRECT:** ✗



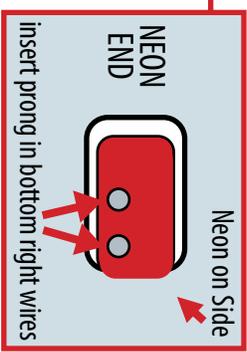
# USER MANUAL

## Neon LED Configuration

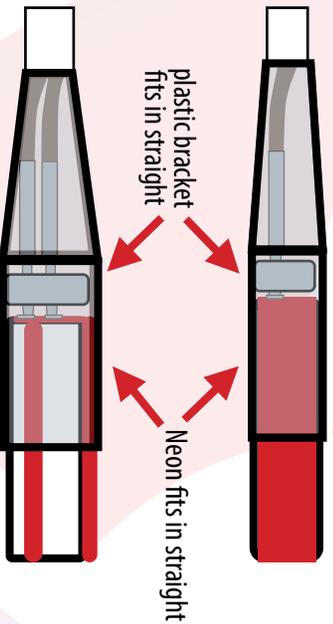


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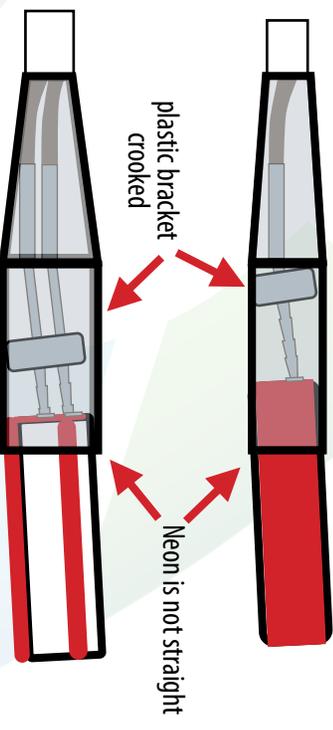
3 Then take the Neon LED with the prong and insert it into the power adapter connector in the correct orientation. The prongs will slide into the small barrels inside the connector.



**CORRECT:** ✓



**INCORRECT:** ✗



4 Take the plug on the power adapter and connect it into the wall outlet. **Warning: The opposite end of the Neon LED has not been sealed and must not touch any conductive material or electric shock or injury could occur.** If the lights turn on, then the prong was inserted into the correct end of the Neon. If the Neon LED does not come on, then unplug the power adapter and repeat from step 1 to test the opposite end of the Neon. Tweezers or tongs maybe required to remove the prongs if they are stuck inside the connector.



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# USER MANUAL

## Neon LED Configuration

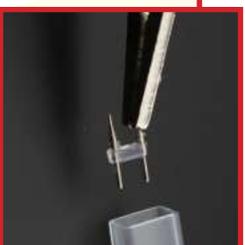


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Neon LED Configuration

**5** After confirming the Neon LED works, **unplug the Neon LED from the wall outlet**. Carefully pull the power adapter off the Neon. The prongs are sometimes stuck inside the connector on the power adapter and require a set of tweezers or tongs to pull the prong out.



**6** The test phase is now complete, and the Neon LED, prong and connector can be assembled for the last time. Take the prongs and reinsert them into the Neon in the correct orientation. The prong needs to be inserted as far as possible without using excessive force. Then take the connector end of the power adapter and fill it half way with PVC cement.



**7** Take the Neon LED with the prong and re-insert it into the connector of the power adapter, making sure it is inserted in the correct orientation. Push the Neon and the connector together, until the plastic bracket on the prong touches the inner wall of the connector on the power adapter.



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# USER MANUAL

## Neon LED Configuration



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**8** Extra glue usually comes out at the connection. Take your finger and wipe the excess glue all the way around the connection point. Wipe extra glue onto the paper towel. Please note the configuration is not complete until an endcap is added to the opposite end. If a joiner is not required, skip the next section and go to page 12 for adding the endcap.



**When configuration is complete, we recommend at least 24 hours of drying time before installing or using the Neon LED. Be careful when handling the Neon while it is drying, as connections could come apart. We recommend taping the connections if the neon needs to be handled multiple times during configuration.**

# USER MANUAL

## Neon LED Configuration



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### Installing a Joiner:

In this section you will add a joiner to any cut point on the Neon LED.

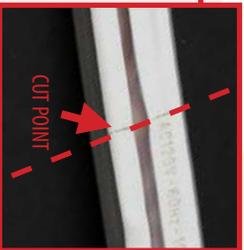


Joiner:

Used for attaching extra Neon LED where no gaps are needed

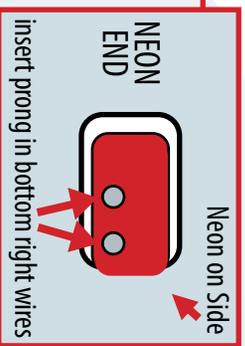
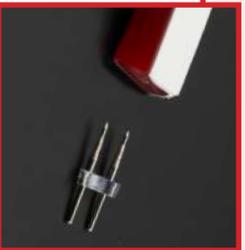
1

First, the components need to be tested to confirm they work before adding any glue. The Neon LED can only be powered from one end. If the extra piece of Neon LED needs to be cut follow the rest of this step, otherwise skip to step 2. Find the cut point you want to add an interconnector to. Cut at the cut point as noted on page 2 titled "Cutting the Neon."

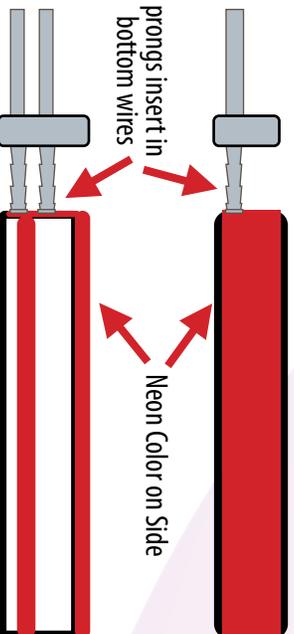


2

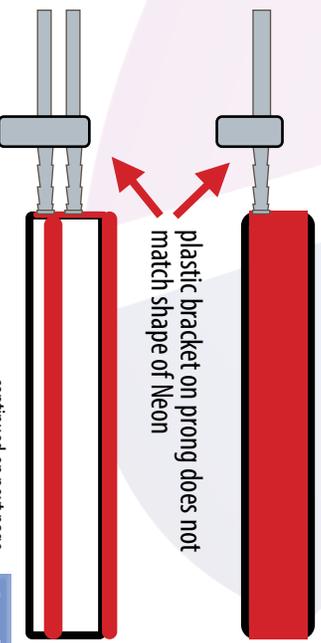
Take the prong and line it up to the Neon LED making sure the prong is oriented in the correct direction. Carefully insert the pointy end of the prong into exposed wire ends. Try to have each prong insert into the center of each exposed wire end. The prong needs to be inserted as far as possible without using excessive force.



**CORRECT:** ✓



**INCORRECT:** ✗

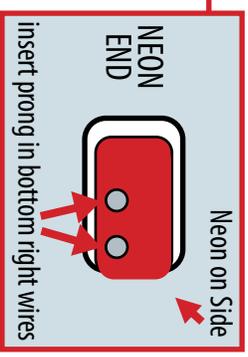


# USER MANUAL

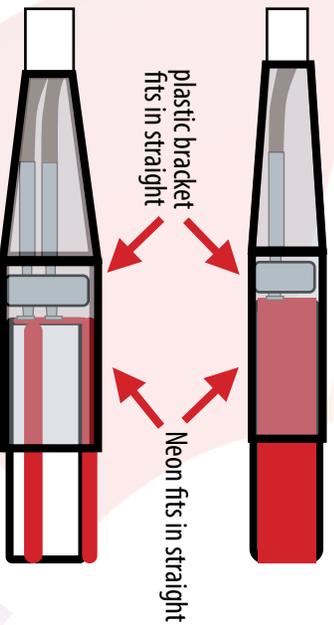
## Neon LED Configuration

3

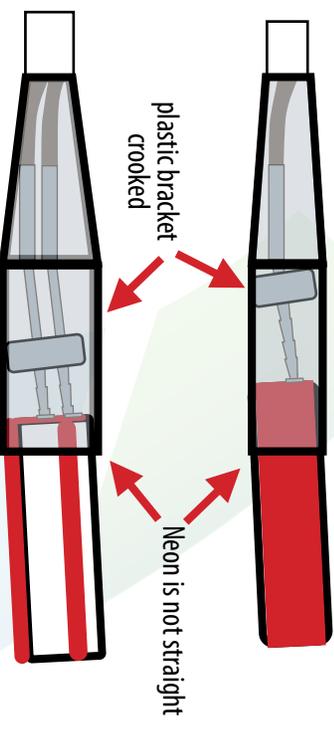
Then take the Neon LED with the prong and insert it into the power adapter connector in the correct orientation. The prongs will slide into the small barrels inside the connector.



**CORRECT:** ✓



**INCORRECT:** ✗



4

Take the plug on the power adapter and connect it into the wall outlet. **Warning: The opposite end of the Neon LED has not been sealed and must not touch any conductive material or electric shock or injury could occur.** If the Neon LED turns on, then the prong was inserted into the correct end of the Neon. If the Neon LED does not come on, then unplug the power adapter and repeat from step 1 to test the opposite end of the Neon. Tweezers or tongs maybe required to remove the prongs if they are stuck inside the connector.



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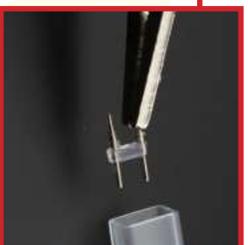
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## Neon LED Configuration



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5 After confirming the lights work, **unplug the Neon LED from the wall outlet**. Carefully pull the power adapter off the Neon. The prongs are sometimes stuck inside the connector on the power adapter and require a set of tweezers or tongs to pull the prong out.



6 The test phase is now complete, and the Neon LED, prong and connector can be assembled for the last time. Take the prongs and reinsert them into the Neon in the correct orientation. The prong needs to be inserted as far as possible without using excessive force. Then take the connector end of the power adapter and fill it half way with PVC cement.



7 Take the Neon LED with the prong and re-insert it into the connector of the power adapter, making sure it is inserted in the correct orientation. Push the Neon and the connector together, until the plastic bracket on the prong touches the inner wall of the connector on the power adapter.



...continued on next page

# USER MANUAL

## Neon LED Configuration

- 8 Extra glue usually comes out at the connection. Take your finger and wipe the excess glue all the way around the connection point. Wipe extra glue onto the paper towel. Repeat the connection on the other side of the joiner by following steps 5 through 7. Please note the configuration is not complete until an endcap is added to the opposite end (page 12).



**When configuration is complete, we recommend at least 24 hours of drying time before installing or using the Neon. Be careful when handling the neon while it is drying, as connections could come apart. We recommend taping the connections if the neon needs to be handled multiple times during configuration.**

### Adding an Endcap:

In this section you will learn how to add an endcap to seal the end of the Neon LED.



**1** Take the endcap and fill it half way with PVC cement. Insert the endcap on the end of the Neon LED until the inner back wall of the endcap is touching the end of the Neon. Sometimes the endcap has to be wiggled from side to side so the back wall of the endcap touches the end of the Neon LED.



**2** Extra glue usually comes out at the connection. Take your finger and wipe the excess glue all the way around the connection point. Wipe extra glue onto the paper towel.

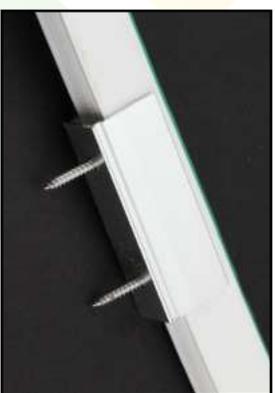
**For drying, we recommend at least 24 hours of drying time before installing or using the Neon LED.**



### Installing Mounting Brackets:

In this section you will learn how to mount the brackets for Neon LED. Each bracket includes 2 screws. Please note other types of screws and hardware may be required depending on the surface being mounted to. Please ask your local hardware store for advice if you are unsure.

For straight lines, we suggest using a mounting bracket every foot for linear applications. If doing a large curve, make sure the Neon LED will not be bent in 90 degree bends. We recommend attaching the brackets to test how many will be needed to hold the desired curve, as several brackets could be required every foot.



#### Tools Required:

- Pencil
- Phillips Head Screwdriver
- Drill
- Drill Bit

- 1 Plan the location where the mounting brackets will be placed. Take the mounting bracket and hold it up to the location being mounted to.



- 2 With your other hand take a pencil or marker and mark the screw locations.



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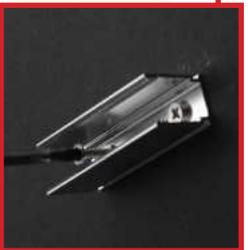
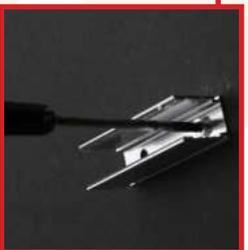
# USER MANUAL

## Neon LED Configuration



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**3** Remove the bracket, and drill pilot holes for the screws. Take a screw and the mounting bracket and begin inserting the first screw. Take the second screw and begin inserting the screw. Take a Phillips head screwdriver and screw in the first screw until it sits flush with the bottom of the bracket. Screw in the second screw until it is also flush.



**4** Carefully press the Neon LED into the mounting bracket. Make sure the Neon is pressed in until it is touching the bottom of the inside of the bracket.



**5** The 120V Neon LED is a **SIDE BENDING** (left and right) unit, bending in the opposite direction of the light output. Bending the Neon vertically (up and down) could split the contacts causing the unit to fail. If you have to adjust the Neon vertically, off the brackets for example, gently pull the unit off the brackets and without bending.



### Technical Specifications:

Lumen's Total:	Up To 29700 Lm (Pure White Color)	Watts Per Spool:	400W
Lumen's Per Foot:	Up to 180 Lm (Pure White Color)	Dimmable:	Yes
Total LED's:	5220	CRI:	82
LED's Per Foot:	36	LED Type:	SMD 3528
Operating Voltage:	120V AC	Beam Angle :	180
Watts Per Foot:	2.42W		

If you have any further questions, please contact us by phone or email using the contact information at the top right of this page.

# USER MANUAL

## Neon LED Configuration



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Neon LED Configuration

### Neon LED and Matching Parts:

Neon LED (2-Prong)



Neon LED



Connector



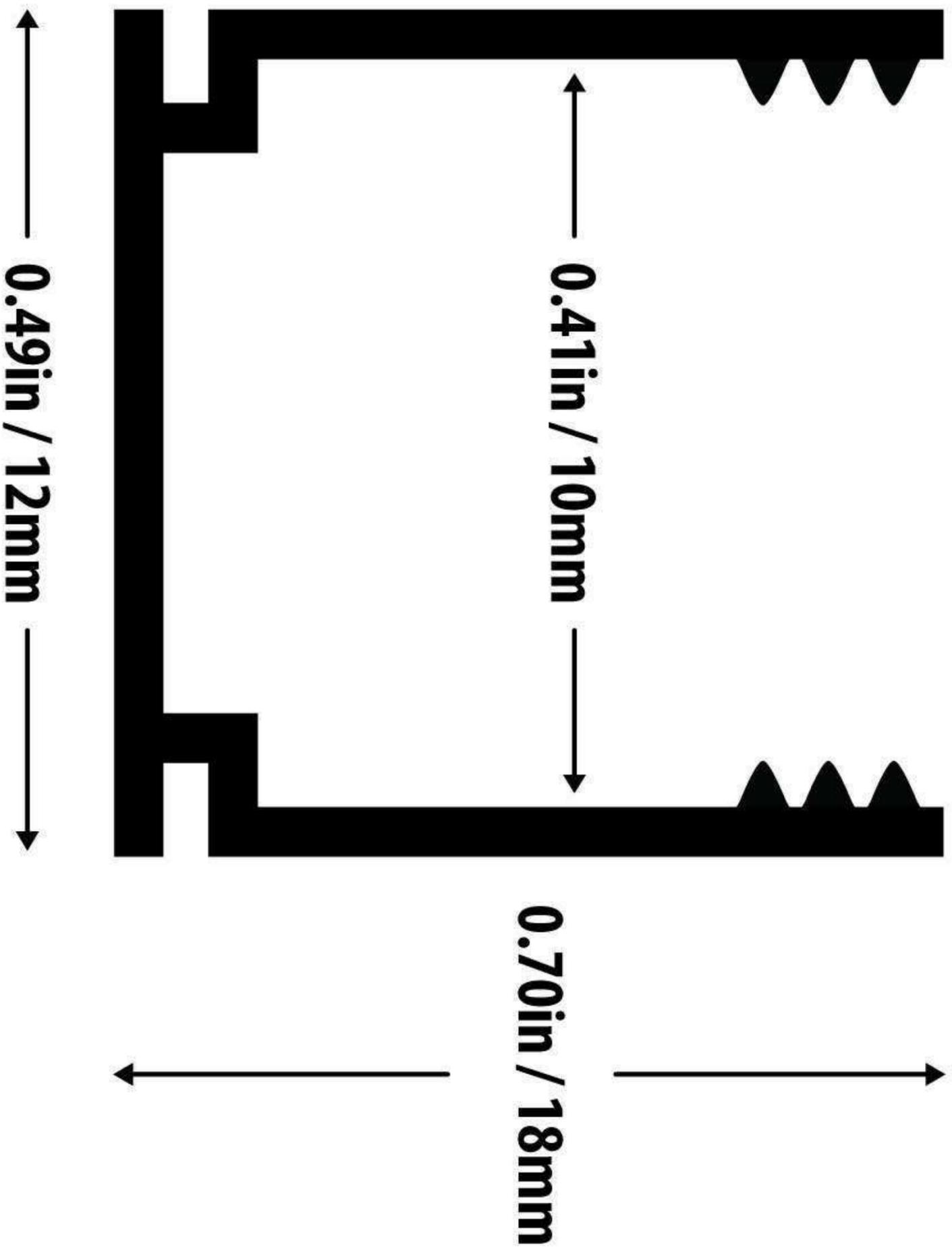
Prong



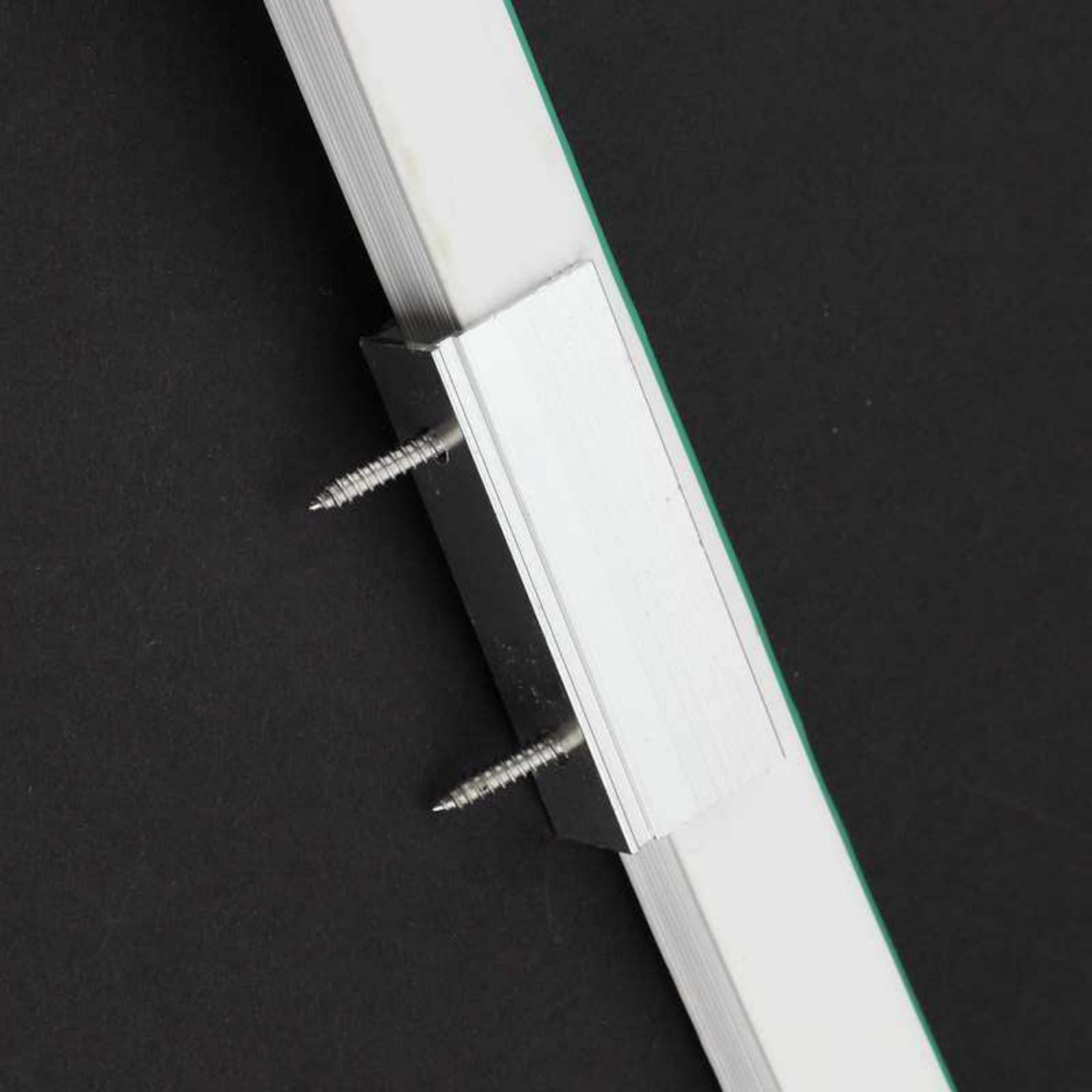
Power  
Adapter

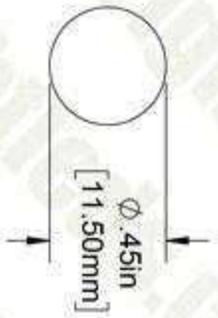


# Single Color Neon Channel Dimensions









RECOMMENDED  
HOLE SIZE

