GEN LED ACOLYTE®
### Architectural Lighting Solutions

NEON SILHOUETTE PLUS

This bendable, waterproof silicone fixture features all the benefits of modern LEDs while creating the classic look of neon tubes. Available in Static White, Variable White and color changing RGBW, Neon Contour Plus is designed with a larger profile to brave the elements in façade lighting and lettering. It's like neon, but better – and bigger!

• Side-bending flexible silicone creates vivid lines of light
• RGBW, Static White, Variable White at 4.5 W/ft (14.76 W/m)
• Addressable RGBW at 5.3 W/ft (17.4 W/m)
• Static White, Variable White cut lengths at 1.97 in. (50 mm)
• RGBW cut lengths at 3.28 in. (83.33 mm)
• Addressable RGBW cut lengths at 3.94 in. (100 mm)
• Waterproof and UV resistant
• Sleek flat design helps create elegant lighting solutions
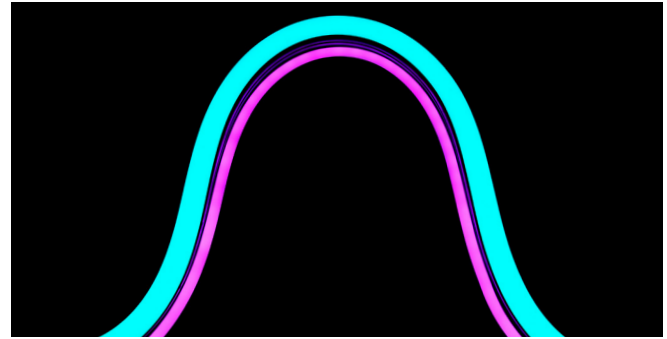
Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail / Signage
Healthcare	Public Spaces	

UL CE RoHS REACH IP67

ORDERING GUIDE

Category	Wattage & Color		Power Feed Direction
NLSP			
NLSP - Neon Silhouette Plus	**4.524** - 4.5 W/ft 2400K	**4.5VW** - 4.5 W/ft Variable White (2400K-6000K)	**E** - End Feed
	4.527 - 4.5 W/ft 2700K	**4.5RGB27** - 4.5 W/ft RGB+White (2700K)	**B** - Bottom Feed
	4.530 - 4.5 W/ft 3000K	**4.5RGB30 -** 4.5 W/ft RGB+W (3000K)	
	4.535 - 4.5 W/ft 3500K	**4.5RGB40 -** 4.5 W/ft RGB+W (4000K)	
	4.540 - 4.5 W/ft 4000K	**5.3RGB30ADD -** 5.3 W/ft RGBW (3000K) Addressable	

Mounting

1. Aluminum Mounting Clip
Recommended for curved applications with 6 in. (150 mm) on center spacing
Part #: NLSPLUSMOUNTCLIPV2

2. Neon Silhouette Plus Mounting Channel
Recommended for all straight run applications
Sold by the foot, up to 6 ft 6 in. / 2 m
Part #: NLSPCHV2

AVAILABLE COLORS AND COLOR TEMPERATURES

2400K	2700K	3000K	3500K	4000K	VW	RGBW

POWER FEED OPTIONS / SPECIFICATIONS / USAGE GUIDELINES

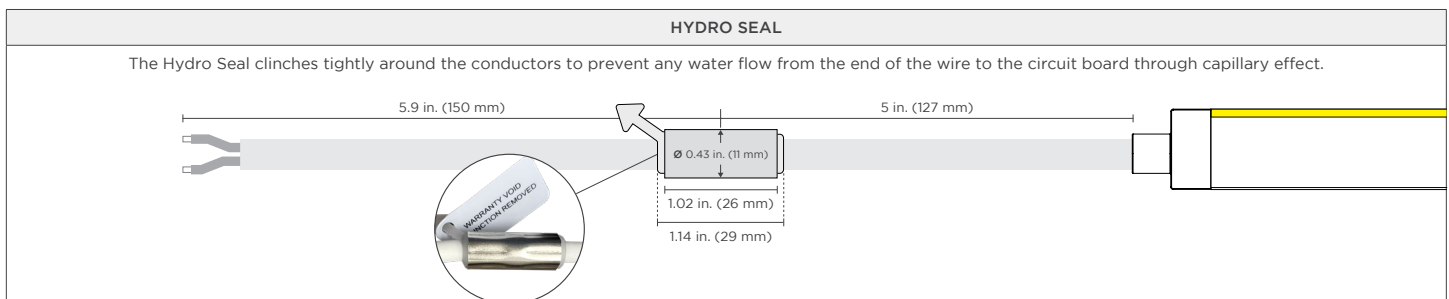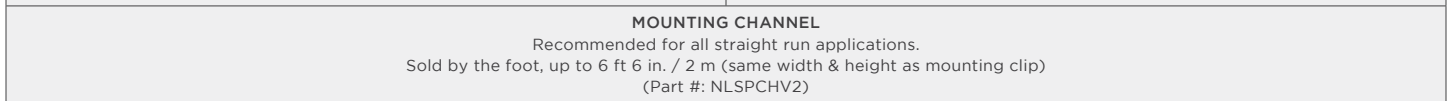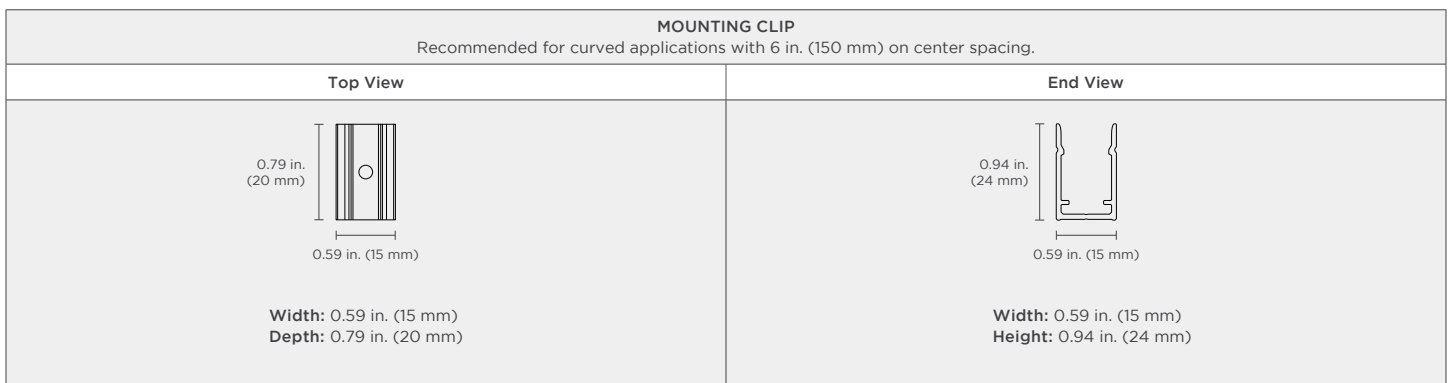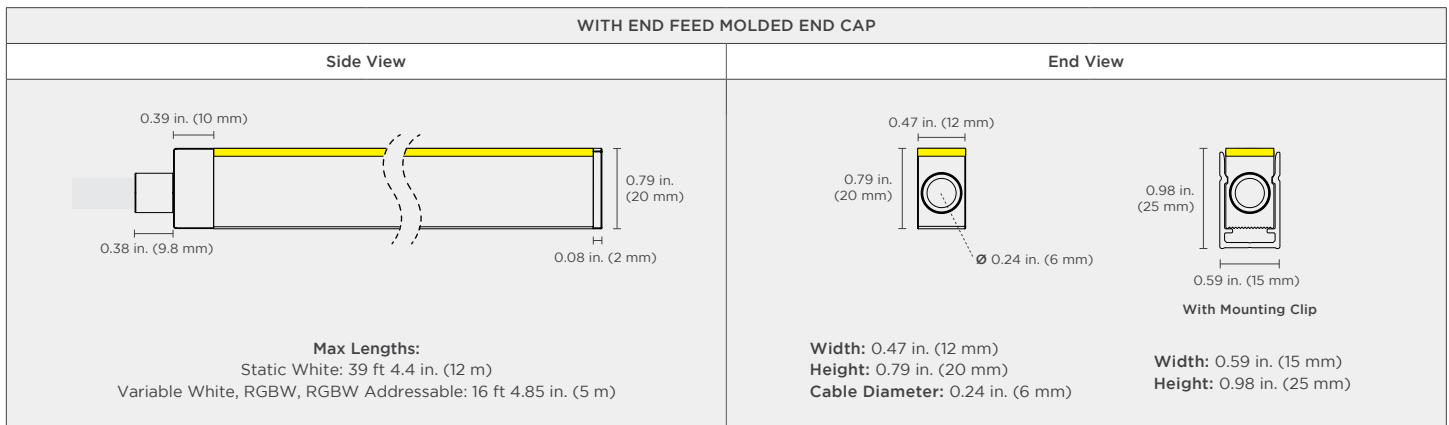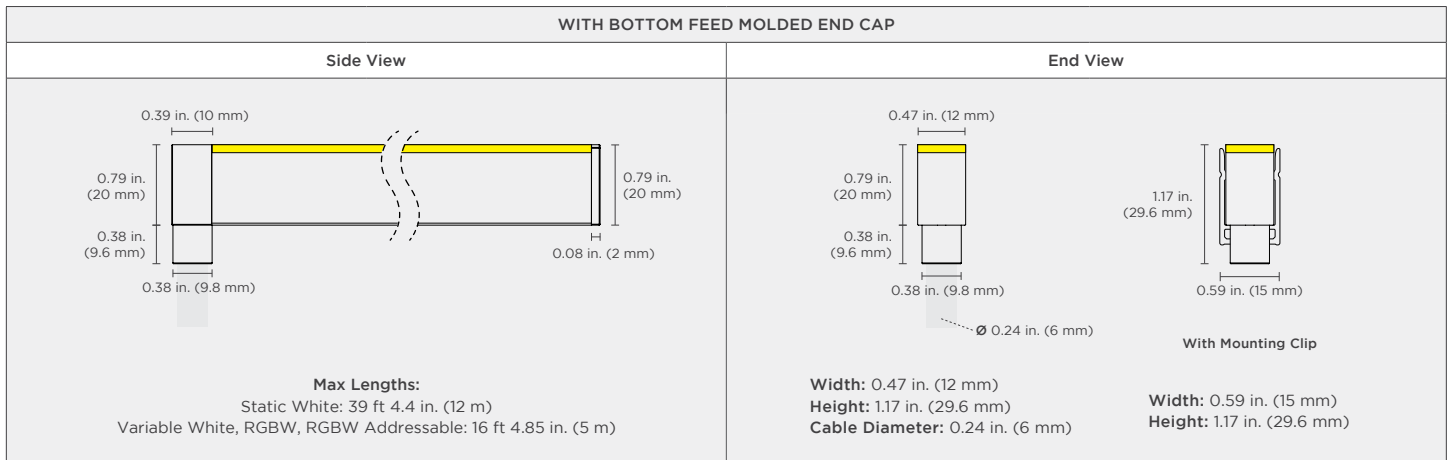| SPECIFICATIONS	NEON SILHOUETTE PLUS
Operating Voltage	24V DC
Power Consumption	Static White, Variable White, RGBW: 4.5 W/ft (14.76 W/m) RGBW Addressable: 5.3 W/ft (17.4 W/m)
Protection Rating	IP67
Beam Angle	110°
Dimming	ELV / MLV / 0-10 Volt / DMX
Operating Temperature	-4° F to 140° F (-20° C to 60° C)
Color Temperatures / Colors	2400K, 2700K, 3000K, 3500K, 4000K, Variable White (2400K-6000K), RGBW (2700K, 3000K, 4000K), RGBW (3000K) Addressable
Lamp Life	50,000 Hours
Max Length	Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)
Cuttable Length	Static White, Variable White: 1.97 in. (50 mm) RGBW: 3.28 in. (83.33 mm) RGBW Addressable: 3.93 in. (100 mm) **NOT FIELD CUTTABLE**
Power Cable Length	Standard: 12 in. (304.8 mm) / Custom: up to 20 ft (6 m)
UV Resistant	UV tested in accordance with ISO 4892-3 with no visible change on the appearance of the sample
Minimum Bend Diameter	9.44 in. (240 mm)
CRI (white)	90+ for all Color Temperatures
Lumens	**4.5 Static White** 4000K: 277 lm/ft (908.6 lm/m), 58 lm/W
	4.5 Variable White 200 lm/ft (656 lm/m), 35 lm/W
	4.5 RGBW Red: 9 lm/ft (29.5 lm/m), 10 lm/W / Green: 26 lm/ft (85.3 lm/m), 29 lm/W / Blue: 6 lm/ft (19.7 lm/m), 9 lm/W White: 46 lm/ft (150.9 lm/m), 35 lm/W / All LEDs at 100%: 87 lm/ft (285.4 lm/m), 19.3 lm/W
	5.3 RGBW Addressable Red: 10 lm/ft (32.8 lm/m), 7 lm/W / Green: 25 lm/ft (82 lm/m), 21 lm/W / Blue: 6 lm/ft (19.7 lm/m), 6 lm/W White: 28 lm/ft (91.8 lm/m), 39 lm/W

MOLDED END CAPS

Molded End Cap

Molded Power Feed End Cap

USAGE GUIDELINES

- Neon Silhouette Plus cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a voided warranty.

- When installing this product take into account the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 140° F/60° C maximum that our product is rated for. High-risk locations like this should be avoided.

- This product is not intended to be submerged in pools and fountains and does not carry UL 676 certification to do so. Available for download at www.GENLEDBrands.com/Acolyte

- Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

- For use with Acolyte drivers, triac dimming modules, and 0-10 modules.

- Use with non-Acolyte triac, MLV or ELV drivers is not supported or warrantied

- Due to the cuttable points inside, this product's cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, this product is factory cut at the shorter cuttable point

- This product can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.
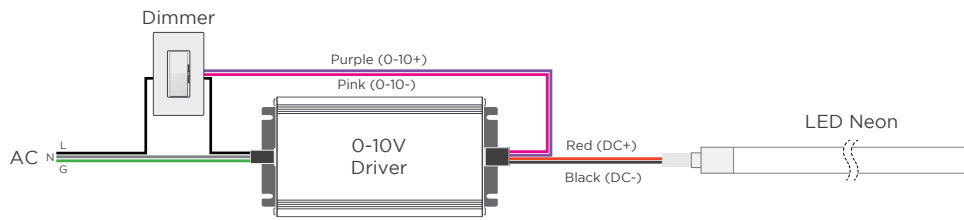
DIMENSIONS / DIAGRAMS

WITH BOTTOM FEED MOLDED END CAP

Side View	End View

Side View

0.39 in. (10 mm)
0.79 in. (20 mm)
0.79 in. (20 mm)
0.38 in. (9.6 mm)
0.08 in. (2 mm)
0.38 in. (9.8 mm)

Max Lengths:
Static White: 39 ft 4.4 in. (12 m)
Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)

End View

0.47 in. (12 mm)
0.79 in. (20 mm)
0.38 in. (9.6 mm)
0.38 in. (9.8 mm)
Ø 0.24 in. (6 mm)

1.17 in. (29.6 mm)
0.59 in. (15 mm)
With Mounting Clip

Width: 0.47 in. (12 mm)
Height: 1.17 in. (29.6 mm)
Cable Diameter: 0.24 in. (6 mm)

Width: 0.59 in. (15 mm)
Height: 1.17 in. (29.6 mm)

WITH END FEED MOLDED END CAP

Side View

0.39 in. (10 mm)
0.79 in. (20 mm)
0.38 in. (9.8 mm)
0.08 in. (2 mm)

Max Lengths:
Static White: 39 ft 4.4 in. (12 m)
Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)

End View

0.47 in. (12 mm)
0.79 in. (20 mm)
Ø 0.24 in. (6 mm)

0.98 in. (25 mm)
0.59 in. (15 mm)
With Mounting Clip

Width: 0.47 in. (12 mm)
Height: 0.79 in. (20 mm)
Cable Diameter: 0.24 in. (6 mm)

Width: 0.59 in. (15 mm)
Height: 0.98 in. (25 mm)

MOUNTING CLIP
Recommended for curved applications with 6 in. (150 mm) on center spacing.

Top View

0.79 in. (20 mm)
0.59 in. (15 mm)

Width: 0.59 in. (15 mm)
Depth: 0.79 in. (20 mm)

End View

0.94 in. (24 mm)
0.59 in. (15 mm)

Width: 0.59 in. (15 mm)
Height: 0.94 in. (24 mm)

MOUNTING CHANNEL
Recommended for all straight run applications.
Sold by the foot, up to 6 ft 6 in. / 2 m (same width & height as mounting clip)
(Part #: NLSPCHV2)

HYDRO SEAL

The Hydro Seal clinches tightly around the conductors to prevent any water flow from the end of the wire to the circuit board through capillary effect.

5.9 in. (150 mm)
5 in. (127 mm)
Ø 0.43 in. (11 mm)
1.02 in. (26 mm)
1.14 in. (29 mm)

WARRANTY VOID IF JUNCTION REMOVED

WIRING DIAGRAMS

0-10V

Dimmer

Purple (0-10+)
Pink (0-10-)

0-10V Driver

AC L N G

Red (DC+)
Black (DC-)

LED Neon

MLV / ELV

Dimmer

AC L N Ground

ELV/MLV Driver

Red (DC+)
Black (DC-)

LED Neon

DMX

5 Channel DMX Interface
Part #: DMXINFOLED5

DMX in

LED Neon

Red +
Black -

Driver

L N G

2-CHANNEL VARIABLE WHITE DIMMING

0-10V Dimmable 90W VW/WD Driver
Part #: DRVRFWDVW2490120

0-10V Wall Controller (Brightness)

0-10V Wall Controller (CCT)

Variable White Neon
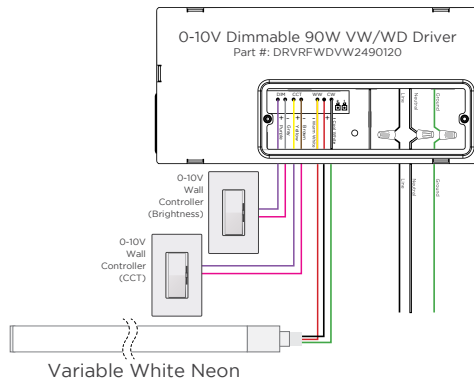
DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE

5 Channel DMX Interface
Part #: DMXINFOLED5

DMX in

LED Neon

Red +
Black -

Driver

L N G
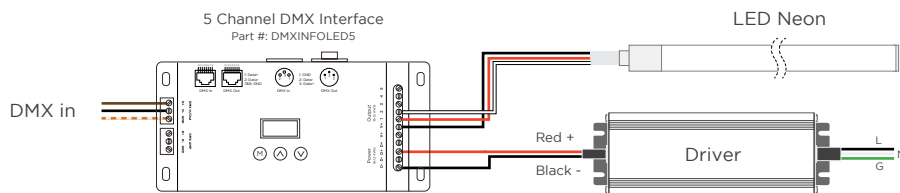
WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE
Red Wire (+) Positive
Black Wire (-) Negative

RGBW
Black Wire (+) Positive
Red Wire (-) goes to Red Channel
Green Wire (-) goes to Green Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

VARIABLE WHITE
Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
White Wire (-) goes to Cool White Channel

WIRING DIAGRAMS WITH RGBW ADDRESSABLE NEON SILHOUETTE PLUS

One DMX Universe consists of 128 addresses and 512 channels (42 ft 8 in. of Neon Silhouette Plus).

Any single run of Neon Silhouette Plus that is less than 16 ft 4.85 in. (5 m) can be wired directly to the controller.

For additional runs, Opto Splitter must be used. Each individual run will need its own Opto Splitter output.

WIRE INDEX

GND	
+	
PI	
B-	
A+	

Universe 1

Controller Input
Universe 1

2 Universe DMX Controller
Part Number: DMXCTRLDR2U

6 Universe DMX Controller
Part Number: DMXCTRLDR6U

Controller
(Driver sold separately)

DMXOS8
8 Way Isolated DMX Splitter / Booster
12-24VDC / 4.8W Max.

Driver 12-24V
(Driver sold separately)

DMX Opto Splitter
Part Number: DMXOS8

Output 1
Output 2
Output 3

3-conductor wire splice for DMX

2-conductor wire splice for power supply

16 ft 4.85 in. of LED Neon

6 ft 4.85 in. of LED Neon   6 ft 4.85 in. of LED Neon

12 ft 9.7 in. of LED Neon

Multiple runs can be tied to one driver as long as they do not exceed the driver's maximum load.

Line
Neutral
GND

Driver

24V DC
Output

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