FLEX DC® NEON SIDE is a high performance flexible LED fixture designed as a neon replacement but useful in a wide variety of applications where a smooth surface of light is desired.

ELECTRICAL

Input Voltage	24VDC
Dimming Options	• PURE DC™
	• DMX
	• 0-10V
	• MLV
	• Lutron (2-WIRE, 3-WIRE, EcoSystem)
Power Consumption	**3.66 Watts / ft:** White, RGB, Green, Blue
	2.19 Watts / ft: Red & Amber
Wire Size	18AWG, 2 wire (white and solid color)
	20AWG, 4 wire (RGB)
Certification	UL

PHYSICAL

Cuttable	**Every 3.94":** RGB
	Every 3.28": White, Green, Blue
	Every 4.92": Red, Amber
Bend Radius	2.36"
Operating Temperature	-40° C (-40°F) to +70°C (+158°F)
Environment	IP67
Maximum Run Length	**R, A:** 43.46'; **W, G, B:** 24.87'; **RGB:** 22.98'
Dimensions (WxH)	**Flat:** 0.45" (11.50mm) x 0.83" (21.00mm)
	Round: 0.45" (11.50mm) x 1.41" (36.00mm)

OPTIONS

Mounting	Mounting Channel
	Self Locking Mounting Clips

LUMEN OUTPUT

	FLAT		ROUND	
	2400K[1]	85.34 lm/ft	**2400K[1]**	103.63 lm/ft
	2700K	85.34 lm/ft	**2700K[1]**	103.63 lm/ft
	3000K	85.34 lm/ft	**3000K[1]**	103.63 lm/ft
	3500K	92.54 lm/ft	**3500K[1]**	115.82 lm/ft
	4000K[1]	92.54 lm/ft	**4000K[1]**	115.82 lm/ft
	5700K[1]	92.54 lm/ft	**5700K[1]**	115.82 lm/ft
	RGB	33.53 lm/ft	**RGB[1]**	39.62 lm/ft
	Red[1]	33.53 lm/ft	**Red[1]**	42.67 lm/ft
	Green[1]	67.06 lm/ft	**Green[1]**	85.34 lm/ft
	Blue[1]	10.67 lm/ft	**Blue[1]**	12.19 lm/ft

1: Special Order option. Will increase order lead time to 5-6 wks.

PERFORMANCE

Lumen Maintenance	50,000 Hours, L70@ 50ºC
	70,000 Hours, L70@ 25ºC
Warranty	5 years

PART NUMBER BUILDER

SERIES	+ SHAPE	+ COLOR		+ VOLTAGE	+ LENGTH	+ CONFIGURATION
FLEXNEON	**SF** = Side Flat	**24** = 2400K[1]	**RGB**	**24** = 24V	**S01** = Stock 1'	**FNC1** = FLEX DC® Neon Config 1
	SR = Side Round[1]	**27** = 2700K	**R** = Red[1]		**S02** = Stock 2'	**FNC2** = FLEX DC® Neon Config 2[1]
		30 = 3000K	**G** = Green[1]		**S06** = Stock 6'	
		35 = 3500K	**B** = Blue[1]		**S23** = Stock 23' (RGB Only)	*Note: See page 5 for Configurations*
		40 = 4000K[1]	**A** = Amber[1]		**S25** = Stock 25' (White Only)	
		57 = 5700K[1]			**XX** = Custom Length[1]	

1: Special Order option. Will increase order lead time to 5-6 wks.

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DIMENSIONS

• Due to the nature of the FLEX DC® NEON product, specific lengths may not fall exactly on a cutting point. In this case, Optic Arts® will always cut to the smaller dimension unless otherwise specified.

• Some on-site assembly required. See installation guides for details.
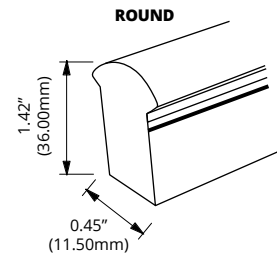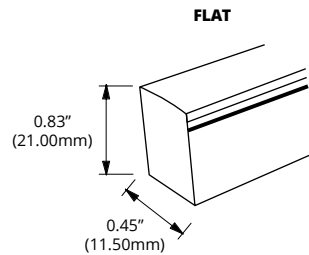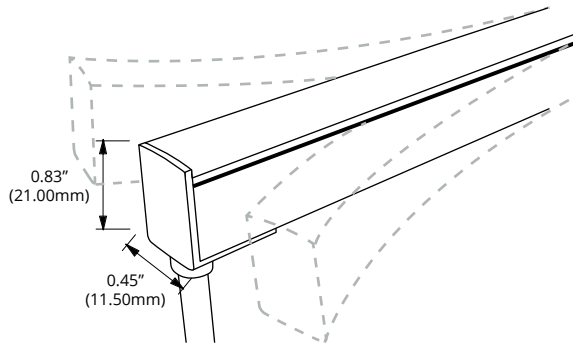
FLAT

ROUND

DIMENSIONS

Width	**Flat:** 0.45" (11.50mm); **Round:** 0.45" (11.50mm)
Height	**Flat:** 0.83" (21.00mm); **Round:** 1.42" (36.00mm)
Cuttable Segment Length	**RGB -** 3.94" (100.07mm)
	White, Green, Blue - 3.28" (83.31mm)
	Red & Yellow - 4.92" (124.97mm)
Max Run Length	**RGB -** 22.98' (7004.30mm)
	White, Green, Blue - 24.87' (7580.38mm)
	Red & Amber - 43.46' (13246.61mm)
Min. Bend Radius	2.36" (59.94mm)

ACCESSORIES
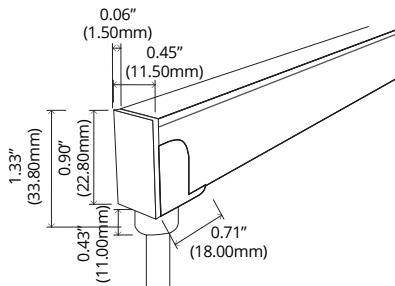
MOLDED POWER FEED CONNECTOR - BOTTOM
Installed on Stocked Fixtures

	PART #	
FLAT	FLEXNEON-SF-S-PFC-M-L-01B	Molded Rear Power Feed, Standard 1'
	FLEXNEON-SF-R-PFC-M-L-01B	Molded Rear Power Feed, RGB 1'
ROUND	FLEXNEON-SR-S-PFC-M-L-01B	Molded Rear Power Feed, Standard 1'
	FLEXNEON-SR-R-PFC-M-L-01B	Molded Rear Power Feed, RGB 1'

Note: Each power feed ships with integral 1' wire lead with outdoor connector installed.
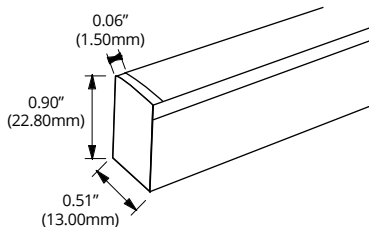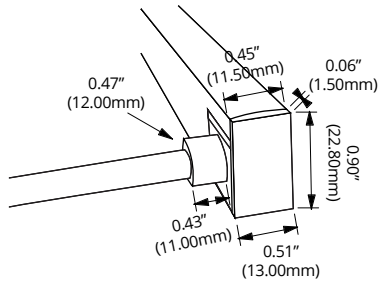
MOLDED END CAP
Installed on Stocked Fixtures

	PART #	
FLAT	FLEXNEON-SF-S-CAP-M	Molded End Cap
ROUND	FLEXNEON-SR-S-CAP-M	Molded End Cap

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ACCESSORIES

MOLDED POWER FEED CONNECTOR - SIDE

Special Order - 5-6 weeks

PART #

FLAT	**FLEXNEON-SF-S-PFC-M-L-01S**	Molded Side Power Feed, Standard 1'
	FLEXNEON-SF-R-PFC-M-L-01S	Molded Side Power Feed, Left, RGB 1'
ROUND	**FLEXNEON-SR-S-PFC-M-L-01S**	Molded Side Power Feed, Standard 1'
	FLEXNEON-SR-R-PFC-M-L-01S	Molded Side Power Feed, RGB 1'

Note: Each power feed ships with integral 1' wire lead with outdoor connector installed.
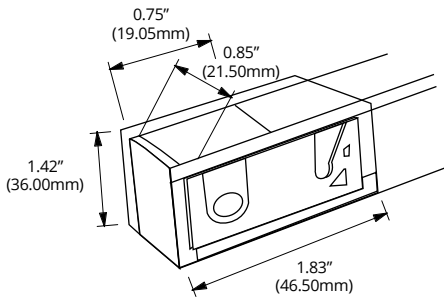
FIELD TRIMMING ENDCAP

PART #

FLAT	**FLEXNEON-SF-CAP-S**	FIELD TRIMMING ENDCAP KIT
ROUND	**FLEXNEON-SR-CAP-S**	FIELD TRIMMING ENDCAP KIT
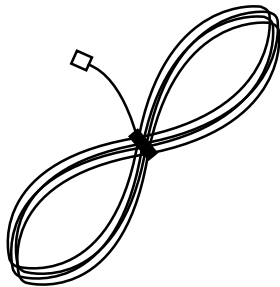
LEAD CONNECTOR WIRE

PART #

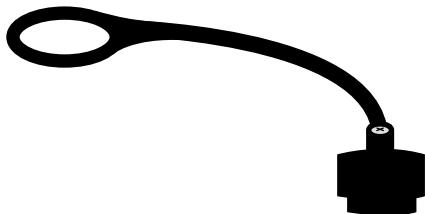|	
LC-O2P-W-M72	Male Lead Connector Wire for FLEX DC® NEON White & Solid Color, 6'
LC-O5P-W-M72	RGB Male Lead Connector Wire for FLEX DC® NEON RGB, 6'

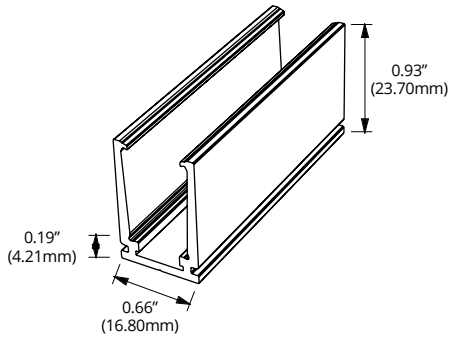*Note: Lead Connector Wire is used to connect FLEX DC® NEON to Driver.*

POWER CONNECTOR ENDCAP

PART #

FLEXNEON-LC-CAP

Note: When a run ends with an open power connector, the connector needs to be capped off in both indoor and outdoor installations.

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ACCESSORIES

0.93"
(23.70mm)

0.19"
(4.21mm)

0.66"
(16.80mm)

ALUMINUM CHANNEL

PART #

FLEXNEON-S-CH-2M   2 meter channel

0.93"
(23.70mm)

0.19"
(4.21mm)

0.66"
(16.80mm)
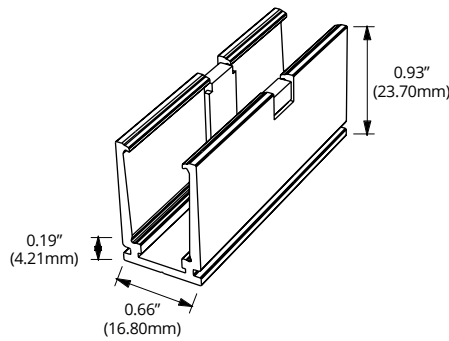
SELF-LOCKING ALUMINUM CHANNEL

PART #

FLEXNEON-S-CH-2M-SL   2 meter self-locking channel

0.93"
(23.70mm)

0.19"
(4.21mm)

1.37"
(35.00mm)

0.66"
(16.80mm)
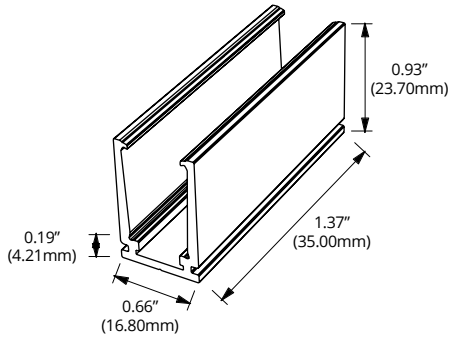
ALUMINUM MOUNTING CLIP

PART #

FLEXNEON-S-MC1   1.37" Mounting Clip

0.93"
(23.70mm)

0.19"
(4.21mm)

1.37"
(35.00mm)

0.66"
(16.80mm)
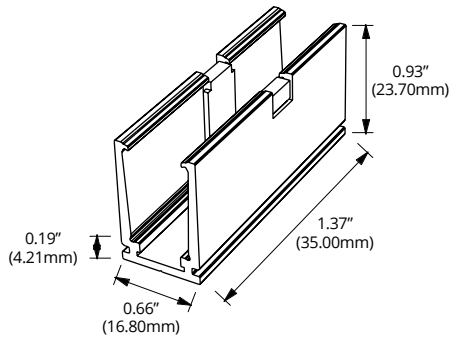
SELF-LOCKING ALUMINUM MOUNTING CLIPS

PART #

FLEXNEON-S-MC1-SL   1.37" Self-locking Mounting Clip

---

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CONFIGURATION TYPES

(1) Factory Stock Pre-Built Lengths (Lead Time: 1 Week)

STOCK 1'

W: 1.09'   RGB: 0.99'
(332.23mm) (301.75mm)

1.00'
(304.80mm)

1.00'
(304.80mm)

(Cap to seal connector if not in use)

STOCK 2'

W: 1.91'   RGB: 1.97'
(582.17mm) (600.46mm)

1.00'
(304.80mm)

1.00'
(304.80mm)

(Cap to seal connector if not in use)

STOCK 6'

W: 6.01'   RGB: 5.91'
(1831.85mm) (1801.37mm)

1.00'
(304.80mm)

1.00'
(304.80mm)

(Cap to seal connector if not in use)

STOCK 25'

W: 24.87'   RGB: 22.98'
(7580.38mm) (7004.30mm)
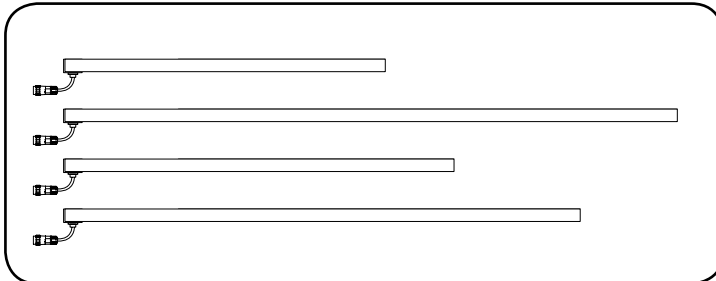
10.00'
(3048.00mm)
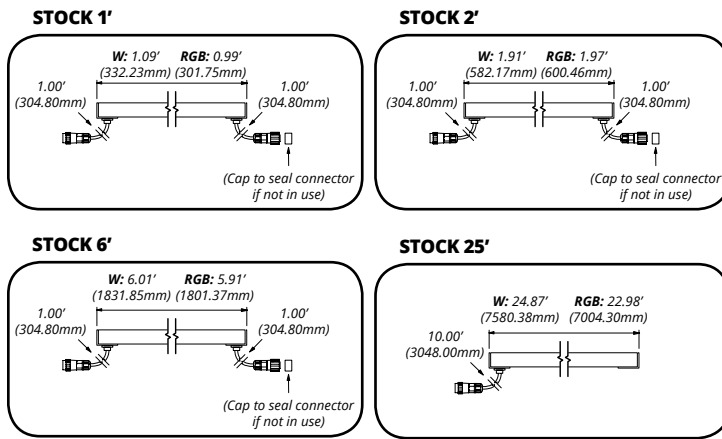
NOTES:

- Specify **FNC1**
- Specify FLEX DC® Neon type and clip/channel type
- Specify stock run lengths
- Specify number of lead wires and power connector caps
- Specify number of field trimming kits if field trimming will be performed

Included in Configuration 1:

Lead Wire w/Connector
(**Single Color:** LC-O2P-W-M72,
RGB: LC-O5P-W-M72)

Field Trimming End Cap

Connector End Cap

---
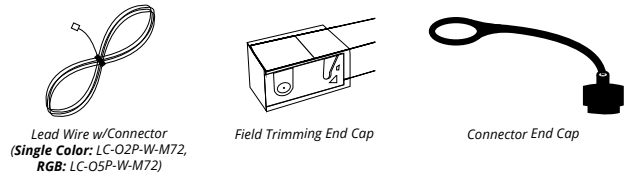
(2) Custom Length (Lead Time: 5-6 Weeks)

FLEX DC® NEON Cut to Specified Length

NOTES:

- Specify **FNC2**
- Specify FLEX DC® NEON type and clip/channel type
- Specify number of lead wires
- Single 1' power feed with outdoor connector provided on each fixture unless otherwise specified
- Customized power feed lengths and types available upon request. Contact Optic Arts to specify.

Included in Configuration 2:

Lead Wire w/Connector
(**Single Color:** LC-O2P-W-M72,
RGB: LC-O5P-W-M72)
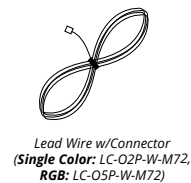
NOTES:

1. Due to the nature of the FLEX DC® NEON product, specific lengths may not fall exactly on a cutting point. In this case, Optic Arts® will always cut to the smaller dimension unless otherwise specified.

2. Some on-site assembly required. See installation guides for details.

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COMPATIBLE DRIVERS
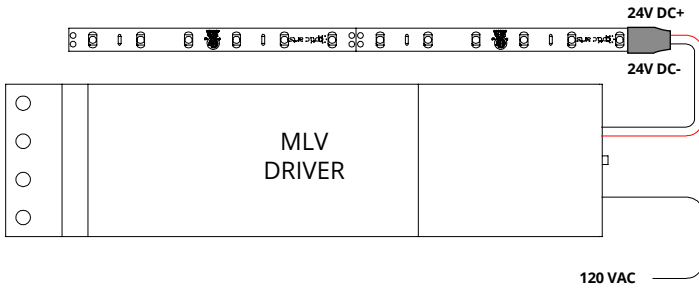
MLV (MLV)

PART	DESCRIPTION
ML10S24VDC	10W 120VAC DIMMABLE DRIVER
ML20S24VDC	20W 120VAC DIMMABLE DRIVER
ML35S24VDC	35W 120VAC DIMMABLE DRIVER
ML35S24VDC-277	35W 277VAC DIMMABLE DRIVER
ML40S24VDC	40W 120VAC DIMMABLE DRIVER
ML50S24VDC	50W 120VAC DIMMABLE DRIVER
ML50S24VDC-277	50W 277VAC DIMMABLE DRIVER
ML60S24VDC	60W 120VAC DIMMABLE DRIVER
ML75S24VDC	75W 120VAC DIMMABLE DRIVER
ML75S24VDC-277	75W 277VAC DIMMABLE DRIVER
ML96S24VDC	96W 120VAC DIMMABLE DRIVER
ML96S24VDC-277	96W 120VAC DIMMABLE DRIVER
EM2-200S24DC	200W 120VAC DIMMABLE DRIVER, 2 96W CIRCUITS
EM3-300S24DC	300W 120VAC DIMMABLE DRIVER, 3 96W CIRCUITS
EM2-200S24DC-277	200W 120VAC DIMMABLE DRIVER, 2 96W CIRCUITS
EM3-300S24DC-277	288W 120VAC DIMMABLE DRIVER, 3 96W CIRCUITS

DIMENSIONS

10W-50W	**H** 2.11"; **W** 7.38"; **D** 1.60"
60W-96W	**H** 3.93"; **W** 8.13"; **D** 1.59"
200-300W	**H** 5.69"; **W** 10.29"; **D** 3.13"

DIMMING PERFORMANCE

MLV DRIVER	Dims to 20% on most MLV dimmers

NOTE: Must be loaded between 75%-100% of rated load to maintain FLEX DC® warranty

24V DC+
24V DC-

MLV
DRIVER

120 VAC
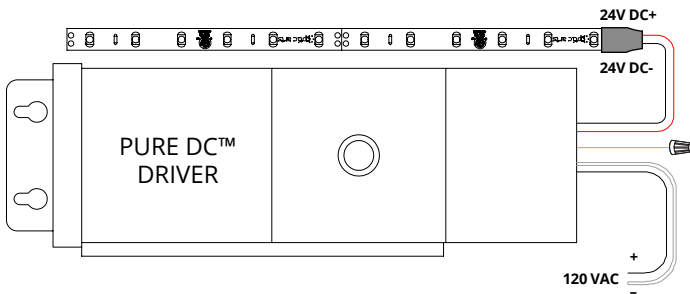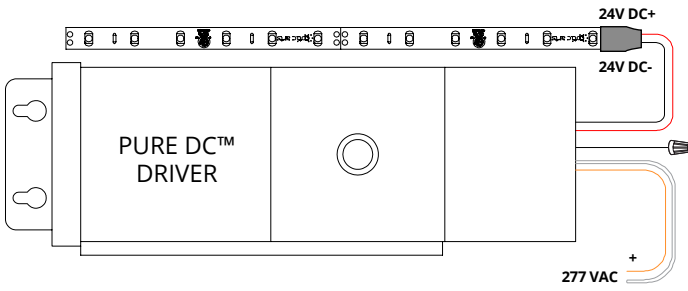
PURE DC™ MLV (PDC)

PART	DESCRIPTION
PDC.40.24	40W 120/277VAC PURE DC™ MLV DIMMABLE DRIVER
PDC.96.24	96W 120/277VAC PURE DC™ MLV DIMMABLE DRIVER

DIMENSIONS

40W	**L** 14.25"; **W** 3.00"; **H** 2.88"
96W	**L** 14.75"; **W** 4.31"; **H** 4.81"

DIMMING PERFORMANCE

PURE DC™ DRIVER	Dims to 0.1% on most MLV dimmers

120 VAC WIRING

24V DC+
24V DC-

PURE DC™
DRIVER

120 VAC
+
−

277 VAC WIRING

24V DC+
24V DC-

PURE DC™
DRIVER

277 VAC
+
−

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COMPATIBLE DRIVERS

24V DC+ **24V DC-**

GG100-24-UNV

120 - 277 VAC
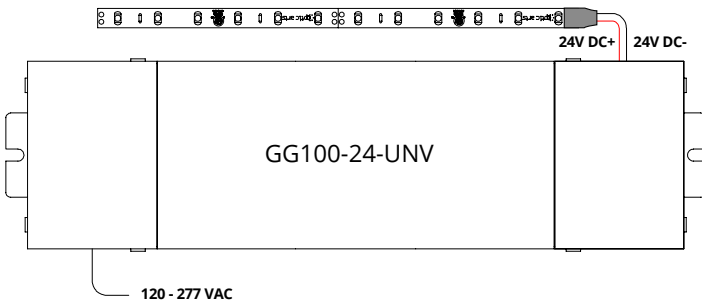
ELECTRONIC DRIVER - NON-DIM (ND)

PART	DESCRIPTION
GG100E-24-UNV	ELECTRONIC DRIVER

DIMENSIONS

96W	**H** 3.00"; **W** 11.46"; **D** 1.30"

DIMMING PERFORMANCE

ELECTRONIC DRIVER	Non-Dim

24V + **24V -**

GG100-24-UNV

120 - 277 VAC

0-10 + **0-10 -**

0 - 10 V CONTROLLER
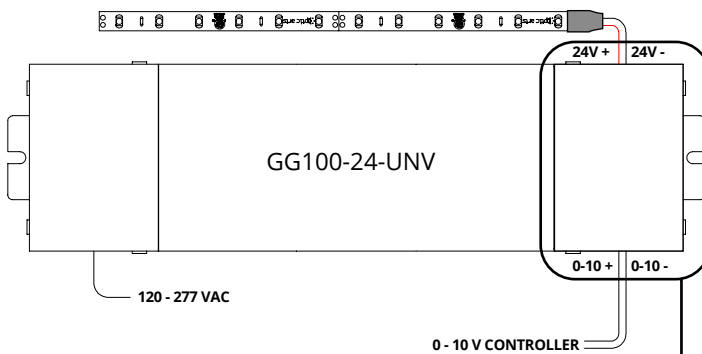
ELECTRONIC DRIVER W/0-10V MODULE (010)

PART	DESCRIPTION
GG100E-24-UNV-010V	96W 120-277VAC ELECTRONIC DRIVER WITH 0-10V DIMMING MODULE (SINK)

DIMENSIONS

96W	**H** 3.00"; **W** 11.46"; **D** 1.30"

DIMMING PERFORMANCE

ELECTRONIC DRIVER - 0-10V	Dims below 1% on most 0-10V dimmers

FIELD INSTALLED IN LOW VOLTAGE WIRING COMPARTMENT

- Install DIM-010V Module in low voltage wiring compartment.
- Max number of 25 modules on one dimmer. Consult dimmer datasheet for maximum device limitation of a specific controller.

GRAY WIRE TO 0-10V CONTROLLER -
VIOLET WIRE TO 0-10V CONTROLLER +

DIM-010V
0-10V MODULE

BLACK WIRE TO DC - OUTPUT OF DRIVER
RED WIRE TO DC + OUTPUT OF DRIVER

BLUE WIRE TO LED -
YELLOW WIRE TO LED +

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COMPATIBLE DRIVERS

120 - 277 VAC

GG100-24-UNV

24V DC-
24V DC+

DMX MODULE

eldoLED®

DMX in +
DMX in -
DMX in shield
LEDSync thru +
LEDSync thru -
LEDSync shield

LED+
CH1

OUT TO NEXT MODULE
FROM DMX CONTROLLER (BY OTHERS)

CH1
LED+
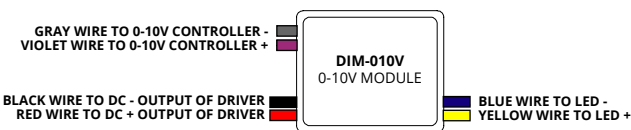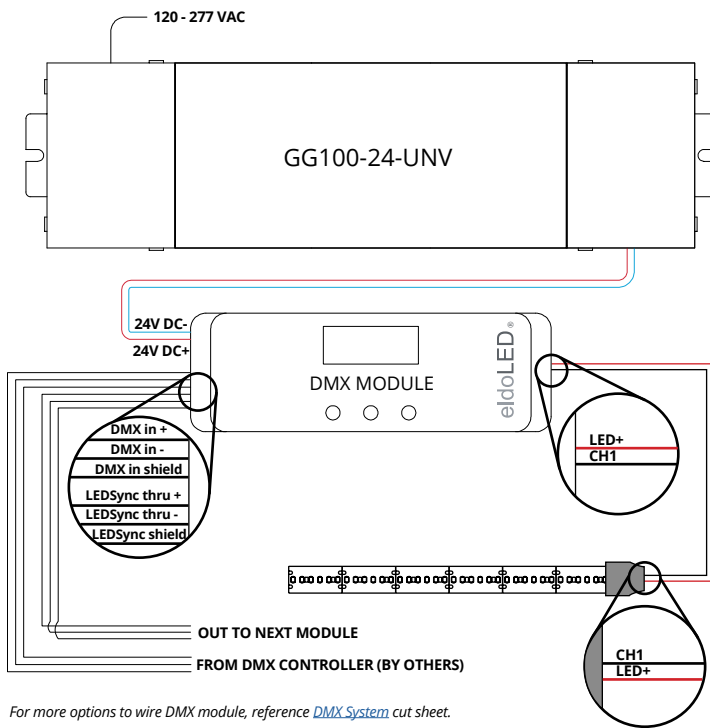
For more options to wire DMX module, reference DMX System cut sheet.

ELECTRONIC DRIVER W/DMX MODULE (DMX)

PART	DESCRIPTION
GG100E-24-UNV-DMX	96W 120-277VAC ELECTRONIC DRIVER WITH eldoLED DMX DIMMING MODULE

DIMENSIONS

96W	**H** 3.00"; **W** 11.46"; **D** 1.30"
DMX MODULE	**H** 1.97"; **W** 6.02"; **D** 0.91"

*Must be installed in UL box (by others)

DIMMING PERFORMANCE

ELECTRONIC DRIVER - DMX MODULE	Dims to 0.1% on most DMX systems

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COMPATIBLE DRIVERS

DIMMER WITH NEUTRAL

24V DC +
24V DC -

LUTRON HI-LUME®
1% 2-WIRE

DIMMED LINE (BLACK)

NEUTRAL-WIRE
DIMMER/MODULE/PANEL

LINE/HOT

NEUTRAL

NEUTRAL (WHITE)

NEUTRAL

DIMMER WITHOUT NEUTRAL

24V DC +
24V DC -

LUTRON HI-LUME®
1% 2-WIRE

DIMMED LINE (BLACK)

FORWARD PHASE DIMMER
WITHOUT NEUTRAL

LINE/HOT

NEUTRAL (WHITE)
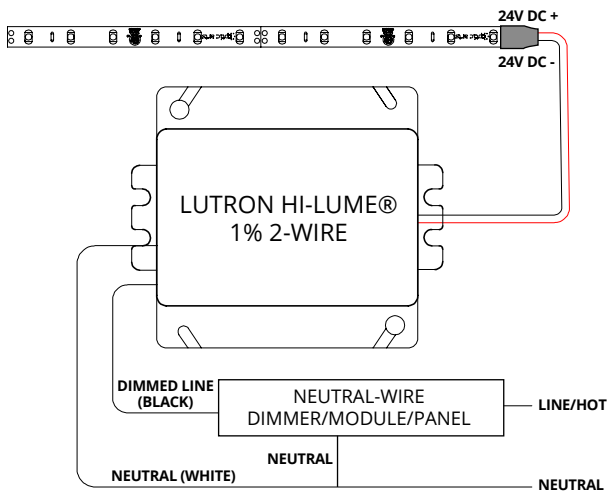
NEUTRAL
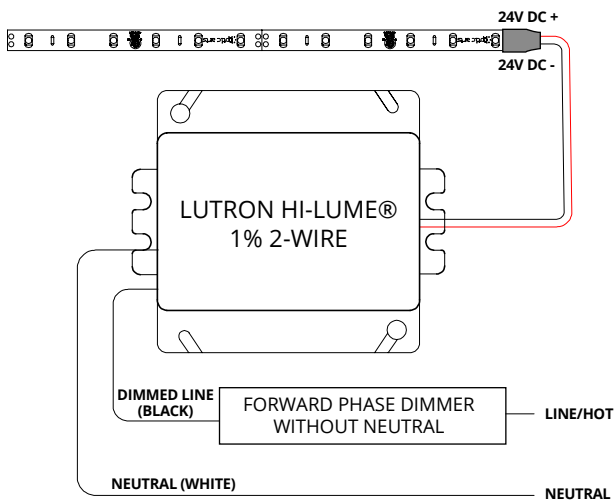
LUTRON HI-LUME® 1% 2-WIRE:
2-WIRE CONTROL FORWARD PHASE

Optic Arts is a Lutron OEM Advantage Partner

PART	DESCRIPTION
LTEA4U1UKL-CV240	5-40W, 120VAC, 2-WIRE FORWARD PHASE DRIVER

DIMENSIONS

LUTRON HI-LUME® 1% 2-WIRE	**H** 4.00"; **W** 4.89"; **D** 2.62"

DIMMING PERFORMANCE

LUTRON HI-LUME® 1% 2-WIRE	Dims to 1% with compatible Lutron controls

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COMPATIBLE DRIVERS

3-WIRE

24V DC +
24V DC -

E1 (Purple)
E2 (Purple)

LUTRON HI-LUME®
1% 3-WIRE

SWITCHED LINE (BLACK)
DIMMED LINE (ORANGE)

3-WIRE
DIMMER/MODULE/PANEL

LINE/HOT

NEUTRAL (WHITE) | **NEUTRAL**

NEUTRAL

ECOSYSTEM

24V DC +
24V DC -

TO ECOSYSTEM DIGITAL LINK

E1 (Purple)
E2 (Purple)

LUTRON HI-LUME®
1% 3-WIRE

LINE/HOT

DIMMED LINE (ORANGE)

NEUTRAL

LUTRON HI-LUME® 1%:

3-WIRE/ECOSYSTEM

Optic Arts is a Lutron OEM Advantage Partner

PART	DESCRIPTION
L3DA4U1UKL-CV240	5-40W, 120-277VAC, 3-WIRE/ECOSYSTEM DRIVER

DIMENSIONS	
LUTRON HI-LUME® 1% 3-WIRE/ ECOSYSTEM	**H** 4.00"; **W** 4.89"; **D** 2.62"

DIMMING PERFORMANCE	
LUTRON HI-LUME® 1% 3-WIRE/ ECOSYSTEM	Dims to 1% with compatible Lutron controls

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COMPATIBLE DRIVERS

3-WIRE

24V +
24V -

LUTRON HI-LUME®
PREMIER DRIVER

	SWITCHED LINE/HOT (L)
LINE/HOT	3-WIRE DIMMER/MODULE/PANEL	DIMMED HOT (DH)
	NEUTRAL	
NEUTRAL		

ECOSYSTEM

24V +
24V -

LUTRON HI-LUME®
PREMIER DRIVER
(WITH ECOSYSTEM CONTROL & SOFT-ON
FADE TO BLACK TECHNOLOGY)

TO ECOSYSTEM
DIGITAL LINK

E1 (Purple)
E2 (Purple)
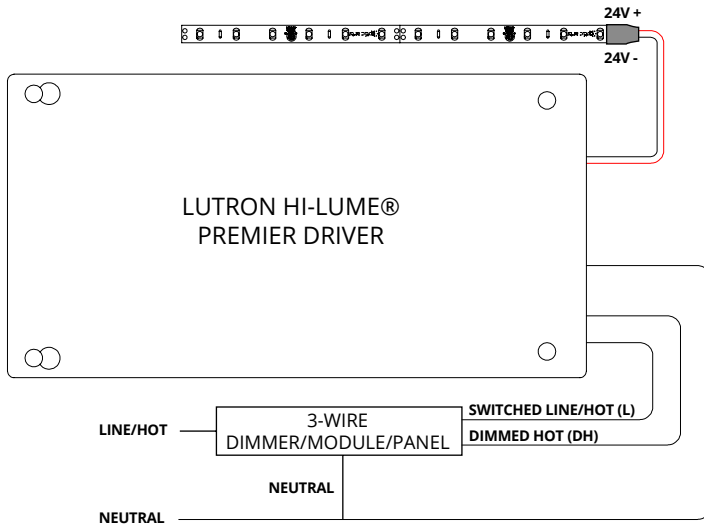
120-277 VAC

LUTRON HI-LUME® PREMIER:
3-WIRE/ECOSYSTEM

Optic Arts is a Lutron OEM Advantage Partner

PART	DESCRIPTION
L3D0-96W24V-U	2-96W, 120-277VAC, 3-WIRE/ECOSYSTEM DRIVER

DIMENSIONS

LUTRON HI-LUME® PREMIER	**H** 5.5"; **W** 10.5"; **D** 2.0"

DIMMING PERFORMANCE

LUTRON HI-LUME® PREMIER	Dims to 0.1% with compatible Lutron controls

NOTE: Lutron soft-on, fade to black technology available with Ecosystem Digital Control only.

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Optic Arts reserves the right to modify this specification without prior notice.

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