



# V-Line® Gen4 V4290

PATENTS  
PENDING

## Miniature High Output LED Luminaire

### PRODUCT HIGHLIGHTS

- 5 Watts / Ft.
- 20-30V DC Input
- 0 to 100% Dimming
- 11", 16", 22", 32", 42", 48" Lengths
- Active Thermal Management
- 0.66" x 0.69" Profile
- 65° Emitting Angle
- Flexible Mounting Options

## SPECIFICATIONS

### SUITABLE ENVIRONMENTS



Dry Damp

A wet location model is available.

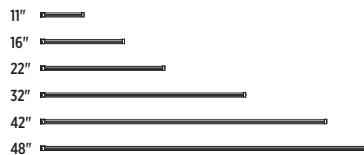
### LED COLORS

- Cool White
- Neutral White
- Warm White

### FINISH

- Black

### LENGTHS



### BEAM ANGLES



### CERTIFICATIONS



## Features

### ■ RUGGED DESIGN

V-Line Gen 4 luminaires are 100% functionally tested and burned in for 24 hours prior to shipment. Premium materials and ruggedized construction include Mil-Spec anodized aluminum construction and UV-resistant acrylic lens.

### ■ TIGHT LED SPACING, ADVANCED OPTICS

The V4290's incredibly small cross-section and tight 1" LED spacing enables high output and consistent illumination in very small spaces.

### ■ SMARTDRIVER™ INTEGRATED

Onboard electronic regulation ensures current consistency and management of the LED source. Accepting a wide range of voltage, the V4290 provides 100% light output, even over long runs and when connected to 24V DC battery systems (e.g., Marine, Transit, & Off-Grid).

### ■ 0 TO 100% DIGITAL DIMMING

Connection with i2Systems LightLink dimmers allows simple dimming control in order to optimize lighting effects and dim to low levels without flicker.

### ■ ACTIVE THERMAL MANAGEMENT

Onboard Active Thermal Management anticipates and protects against overheating by gradually dimming the V4290 to a calculated intensity.\*

*\*Please ensure the V4290 is operated within its specified temperature parameters listed on page 2.*

### ■ FLEXIBLE MOUNTING OPTIONS

Stainless Steel brackets (not shown) are available in adjustable or fixed options (see next page). Snap-on design allows installation to any position along the fixture.



## SPECIFICATIONS

ITEM	PARAMETER	VALUE
Electrical	Input Power	4.5W/11", 7W/16", 9W/22", 14W/32", 18W/42", 20W/48"
	Input Voltage Range	20-30V DC, 24V DC Nom.
	Integrated Driver	✓
	0-100% Dimming	✓
	Protection Features	Transient Protection, Reverse Polarity, Autoreset Fuse, Protected Dim Line, Active Thermal Management
Optical	Emitting Angle	65°
	LED Color	Cool White, Neutral White, Warm White
	LED Colors per Fixture	1
	Class	Class 2 LED Product
Physical	Dimensions	Refer to drawings on right
	Housing Construction	Aluminum
	Lens Material	Acrylic
	Lengths	11", 16", 22", 32", 42", 48"
	Finishes	Black
	Mounting Method	Adjustable, Fixed, or Fixed End Dovetail
	Operating Temp. Range	-20°C to 40°C, Max. Case Temp (T <sub>C</sub> ): 50°C
	Humidity	0 to 95%, non-condensing
	Environment	Dry, Damp**
Certification	FCC Part 15, Class A, eULus (US & Canada), RoHS Compliant	

\*Due to constant power design, input current (I<sub>in</sub>) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

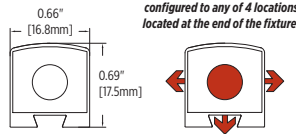
\*\*A Wet Location Model of the V4290 is available. Refer to V4295.

## DIMENSIONS

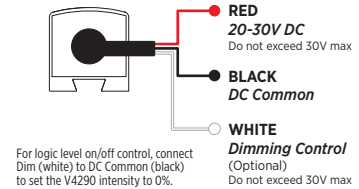
### Lengths



### End



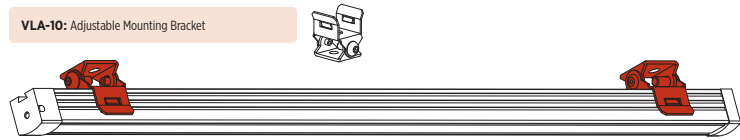
### WIRE FUNCTION



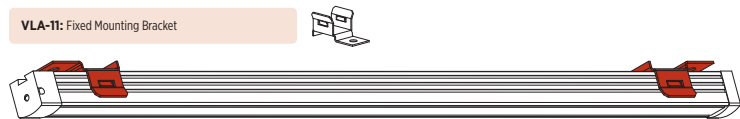
Included cable is 6 feet in length.

## MOUNTING

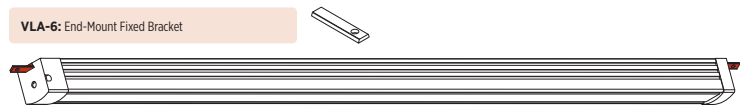
### VLA-10: Adjustable Mounting Bracket



### VLA-11: Fixed Mounting Bracket



### VLA-6: End-Mount Fixed Bracket



## ACCESSORIES

KEYWORD	ITEM NUMBER	DESCRIPTION	FIXTURE MAX
Adjustable Mounting Bracket	VLA-10	Stainless Steel Adjustable Mounting Bracket w/ Stainless Steel Mounting Screw, Snap On Installation to Fixture Housing.	
Fixed Mounting Bracket	VLA-11	Stainless Steel Fixed Mounting Bracket w/ Stainless Steel Mounting Screw, Snap On Installation to Fixture Housing.	
End-Mount Fixed Bracket	VLA-6	Fixed Aluminum Mounting Bracket w/ Stainless Steel Screws. Mates with Dovetail Slots on Fixture Ends.	
LightLink LL-101	LL-101 Series	Dimming Controller, including Momentary (MOM) Switch Interface.	Dims up to 20 Feet of V4290
LightLink LL-105-R	LL-105-R	Dimming Controller, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Feet of V4290
LightLink LL-205	LL-205 Series	Dimmer, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Feet of V4290
Power Box	PS24V75W-E05P	Power Box, 75W, 120-277VAC Input, 24VDC Output, Steel Enclosure.	Powers up to 16 Feet of V4290

## BUILDING A 120V AC LED LINEAR SYSTEM

### Baseline System



Maximum recommended distance between the Power Box and the last V4290 Luminaire is 30 feet using 16awg wire.

## ORDERING NUMBER

FACTORY NUMBER EXAMPLE: **V4290A-26CBB1**  
 USER SELECTED OPTION 22" Length, 65 Degree Beam Angle, Warm White LED

<b>V4290A</b>	-	<b>*</b>	<b>6</b>	<b>*</b>	<b>XXX</b>	<b>1</b>
<b>Product Type</b>		<b>Length</b>	<b>Beam Angle</b>	<b>LED Color</b>	<b>Color Bin Code</b>	
		1 - 11" 8 - 16" 2 - 22" 3 - 32" 4 - 42" 5 - 48"	6 - 65°	A Cool White B Neutral White C Warm White		