

- |             |                  |             |                 |
|-------------|------------------|-------------|-----------------|
| Virgo™ XS   | # VI-VXS-2- ____ | Virgo+™ LS2 | # VI-V2-2- ____ |
| Virgo™ X    | # VI-VX-6- ____  | Virgo+™ LS3 | # VI-V3-3- ____ |
|             | # VI-VX-12- ____ | Virgo+™ LS4 | # VI-V4-4- ____ |
| Virgo+™ LS1 | # VI-V1-1- ____  | Virgo+™ LS6 | # VI-V6-6- ____ |

### Products, components & tools for easy installation

Virgolite™ LED modules

Virgolite™ bases\*

14 AWG electrical conductor

#8 fasteners

14 AWG wire connectors

Wire stripper / Cutter

Screw driver or power drill

Tape Measure



\* Each module comes with one base



### WARNING

**Risk of electrical shock.** Before installing, switch power off at the electrical panel and follow appropriate safety procedures.

**Before installation.** Prepare a layout, a required list of material and inspect the area of installation.

**Loading.** Factors can affect the loading of the power supply. The user shall ensure that maximum loading will not be exceeded.

**Safe installation.** The user is responsible for the safe electrical and mechanical installation of the power supply and of the suitability of the wiring system, mounting surfaces and hardware used. All equipment shall be installed in accordance with the electrical code in a neat and workmanlike manner. See NECA 1-2010 standard "Good Workmanship in Electrical Construction".

**Wiring.** The user is responsible for proper selection of the electrical conductor type; see the requirements in technical bulletin #27 "Wiring for architectural applications".

**Class 2 circuit** shall be physically separated from other circuit types.

## Characteristics

	Virgo™ XS	Virgo™ X	Virgo+™ LS2 / LS3 / LS4 / LS6	Virgo+™ LS1
Input Power	Only from the following Class 2 power supplies: LMPS-350 or LMPS-750			
Dimming Option	Only with: LMPS-Dimmer Controller and LMPS-Dimmer Extender			
Ambient Operating Temperature	-40°F to 122°F (-40°C to 50°C)			
Operating Environment	Dry and damp locations (with LMPS-350 and LMPS-750), wet locations (only with LMPS-350)			Dry and damp locations
Ingress Protection Rating	IP67			IP66
Warranty	5 years			
Overall Length	XS: 2.165" (66.4mm)	Short: 3.210" (81.5 mm)	Long: 6.033" (153.2 mm)	1.695" (43.1mm)
Weight	XS: 0.027 lbs (12.2 g)	Short: 0.074 lbs (33.3 g)	Long: 0.109 lbs (49.3 g)	0.02 lbs (9 g)
Housing	White ABS Plastic			White Polycarbonate
Certification	Luminaires			

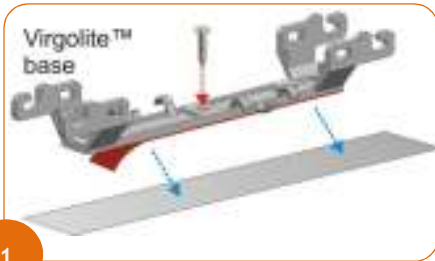


The Virgolite™ LED modules shall only be used with the following Class 2 power supplies: LMPS-350 or LMPS-750. Failure to comply will void all warranties and ETL listings.

## Bill of Material & Layout

For material estimations, please refer to the *technical bulletin #7 (Virgolite™ Architectural Lighting Applications Installation Guide)* and the *Distance Factor Calculator*. For a free layout, please complete the layout request form on our website. For technical assistance, please contact us 1.800.665.1166.

## Installation - Virgo+™ LS2, Virgo+™ LS3, Virgo+™ LS4, Virgo+™ LS6



1

Clean the surface properly. Remove tape backing and stick the base into place. Secure with a #8 screw if necessary. If the base is facing down, use a #8 screw



2

For a uniform pitch, install bases side by side.



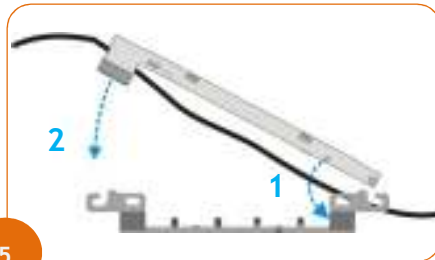
3

Use a 14 AWG stranded wire and thread all modules in series onto the wire.



4

Align the modules with their Virgolite™ bases.



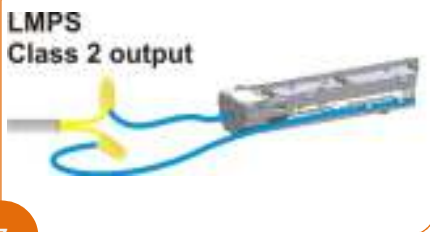
5

Snap the module in its Virgolite™ base as per above.



6

On the last module, bend the wire to create a return path to the power supply. Use the module hooks for a clean installation and attach the return wire to each module hook.



7

To close the loop, connect both ends of the wire to the LMPS power supply.

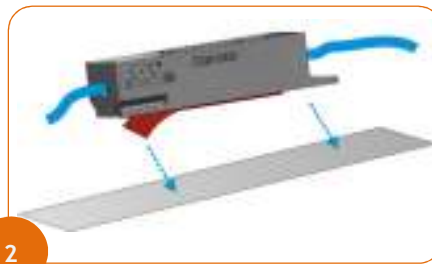
*Note: Must use HEICO lighting™ LED power supplies.*

## Installation - Virgo™ XS



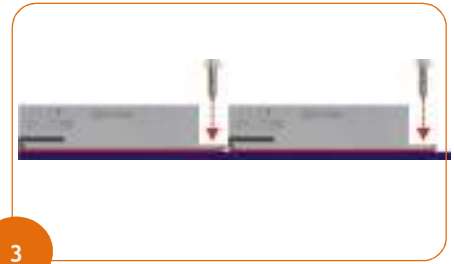
1

Use a 14 AWG stranded wire and thread all modules in series onto the wire. Max wire OD : 0,120 inch.



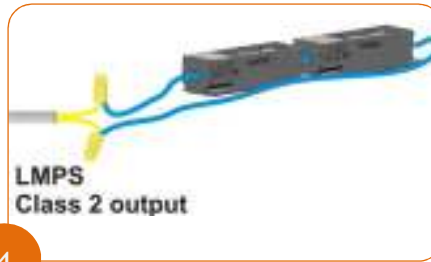
2

Clean the surface. Peel off the tape protector and stick the module.



3

Secure with a #8 screw if necessary. If the base is facing down, use a #8 screw. For a uniform pitch, install the modules side by side. Do not tighten the screws.

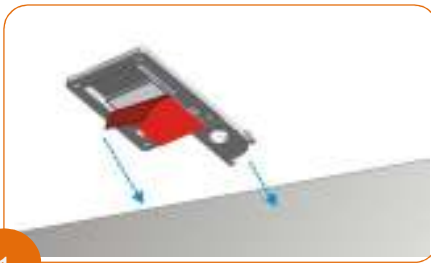


4

To close the loop, connect both ends of the wire to the LMPs power supply.

*Note: Must be with HEICO lighting™ LED power supplies.*

## Installation - Virgo+™ LS1



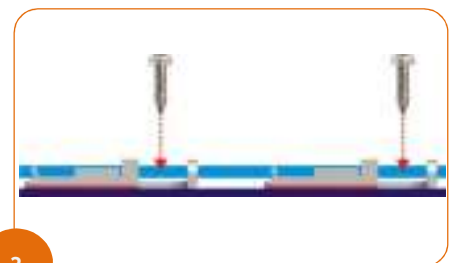
1

Clean the surface. Remove tape backing and stick the base into place.



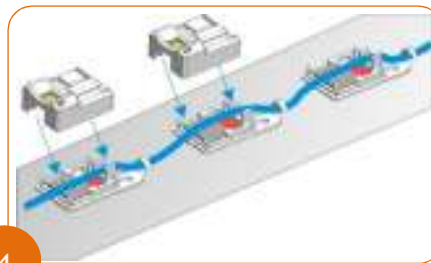
2

Select the pitch according to the LED configuration desired. For uniform illumination, install the modules side by side.



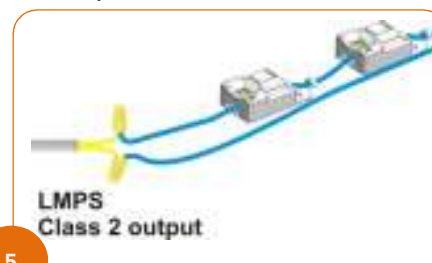
3

Secure with a #8 screw if necessary. If the base is facing down, use a #8 screw. Do not tighten the screws.



4

Snap the top LED module onto its base. Ensure the top is well clipped.



5

To close the loop, connect both ends of the wire to the LMPs power supply.

*Note: Must be with HEICO lighting™ LED power supplies.*

## Troubleshooting

Symptom	Solution
Some LED arrays on one power supply are dim or completely off.	<ul style="list-style-type: none"><li>• Verify all connections. LED arrays must be wired in series.</li><li>• Check AC input and/or check circuit breaker.</li></ul>
All LED arrays on one power supply are dim or are flickering.	<ul style="list-style-type: none"><li>• Verify that the power supply is not overloaded. Revise the loading accordingly.</li><li>• Verify that the correct model of power supply is used.</li><li>• Verify that the correct distance factor was applied.</li><li>• Verify that the correct extension wire is used.</li></ul>
Some LED arrays or one or many LEDs on a LED arrays do not light.	<ul style="list-style-type: none"><li>• Replace the affected LED arrays.</li></ul>
The splice connections are very hot.	<ul style="list-style-type: none"><li>• Verify that the splice connections are made with a splice connector approved for the purpose and that the connections are secured.</li></ul>

For further information, please refer to technical bulletin #5 Contactless LED System Troubleshooting.

## Additional Information

- If you are using an LMPS-Dimmer, please refer to technical bulletin #11 *LMPS-Dimmer Architectural Lighting Installation Guide* for further instructions.
- Turn off power before installation, inspection, repair or removal.
- The user is responsible for proper selection of the electrical conductor type that will be used for the specific application; please refer to the requirements in technical bulletin #27 *Wiring for Architectural Applications*.
- Follow all National Electrical Codes (NEC) and local codes.
- HEICO lighting™ makes no warranty expressed or implied as to the fitness of use of the products. Their use shall be solely by the judgment and at the risk of the user notwithstanding any statement in this technical bulletin.

Refer to the following literature for additional information:

- Virgolite™ Modules Family Specification Sheet Document 13023002G1
- Technical bulletin #5 Contactless LED System Troubleshooting
- Technical bulletin #7 Virgolite™ Architectural Lighting Applications Installation Guide
- Technical bulletin #9 Virgo+™ LS1 Loading Instructions in Architectural Applications
- Technical bulletin #27 Wiring Guide

For other configurations or general information, please contact HEICO lighting™ 1-800-665-1166 . [www.heicolighting.com](http://www.heicolighting.com)