

V-Rail®

LED Illuminated Rail System





V-Rail[®] | LED Illuminated Rail System

V-Rail is a LED illuminated rail system uniquely designed to illuminate stairways, ramps and paths of egress. Available in 1.5" and 1.9", V-Rail also performs as a handrail or guardrail. Capable of delivering high levels of uniform light at an excess of 10 footcandles, V-Rail exceeds light levels as required by safety codes such as ANSI and NFPA. The award-winning luminaire offers superior performance levels, craftsmanship, elegant design aesthetics, and symmetrical or asymmetrical light distribution.



URBAN OUTFITTERS





V-Rail Is The Standard

1.5" or 1.9" Outer Diameter

Symmetrical or Asymmetrical Distribution

Post, Wall, Embedded or Custom Mount

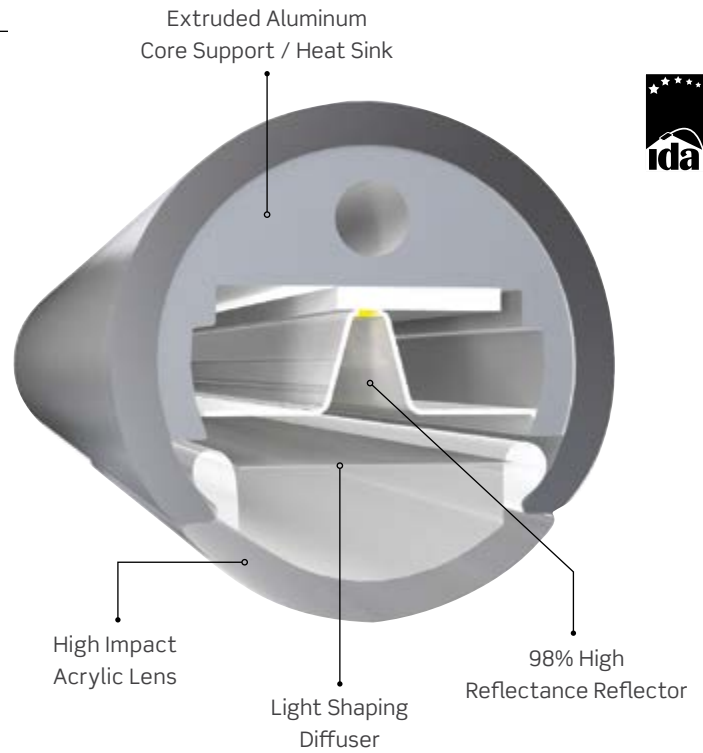
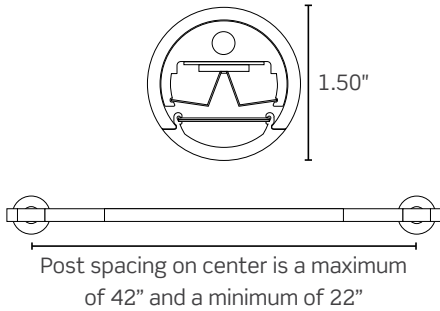
Integral or Remote Power Supply

Stainless Steel or Aluminum Construction

Architectural Powder Coat Options

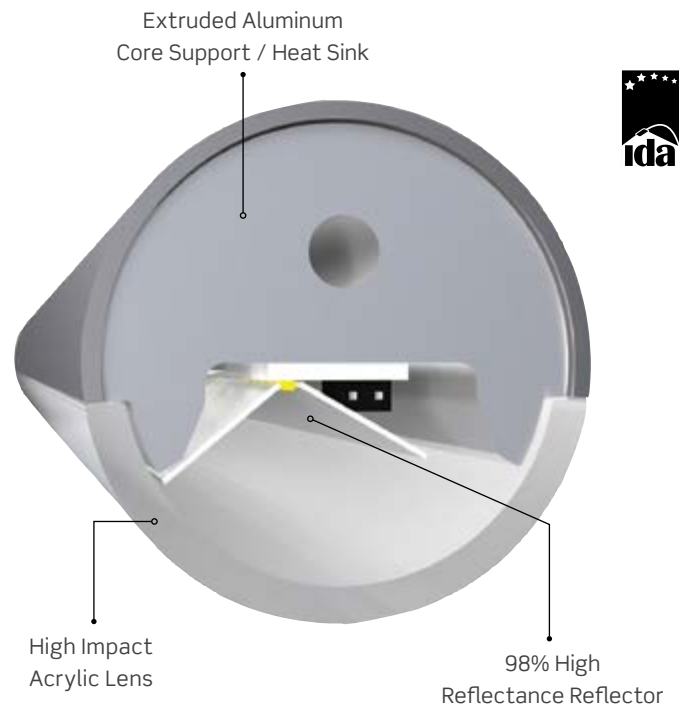
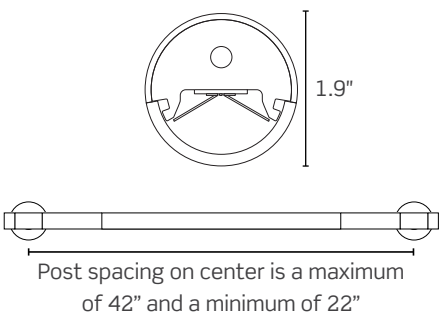
IVR15 1.5"

- True 1.5" Outer Diameter
- 90° Lens Aperture Ensures Optimum Glare Control
- Unique Three-Part IDA-Approved Optical System
- Precise Symmetrical or Asymmetrical Light Distribution



IVR2 1.9"

- 1.9" Outer Diameter
- 160° Lens Aperture Provides Optional Lumen Output for Unparalleled Performance
- Precise Symmetrical or Asymmetrical Light Distribution

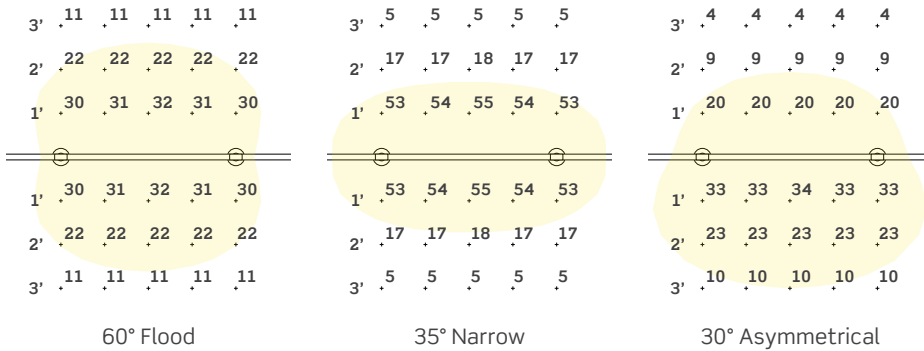


IVR15 Performance Redefined

Innovative optical system includes integral reflector and light shaping diffuser. High performance optical system provides precise shaping, control and distribution of light. High-impact acrylic lens is secured with (2) countersunk flush screws, (1) at each end. Distributions include flood, narrow, and asymmetric.

Photometric Data:

- LED: 4.6W High Output
- CCT: 3500K
- Illuminated Rail Length: 41"
- Rail Height: 36"
- Post Spacing: 48"



LED Light Engine (per foot):

High Output

System Power Consumption: 4.6W

- 4000K: 219 lm
- 3500K: 207 lm
- 3000K: 202 lm
- 2700K: 194 lm

Shared Features

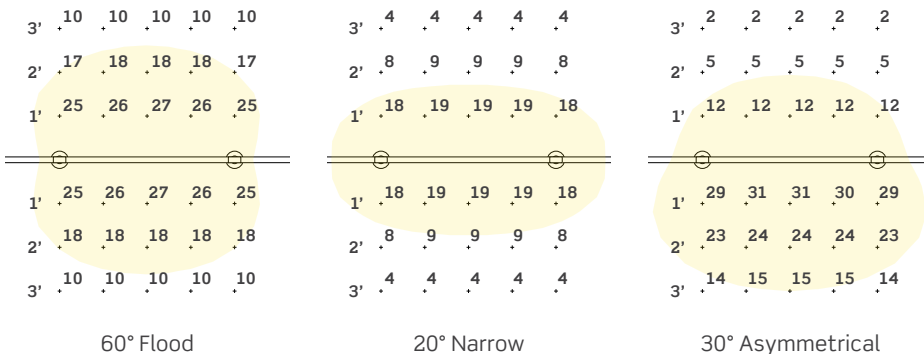
- For Handrail or Guardrail Applications
- Post, Embedded or Wall Mount Options
- Remote Driver or Integral Driver
- Complies with ADA Requirements and Other Applicable Codes
- IDA "Dark Sky" Approved
- Dimming and Emergency Options Available
- Standard and Custom Infill Options
- Suitable for Interior or Exterior Installations

IVR2 Maximum Output

A unique reflector system allows for symmetric or asymmetric light distributions. The internal reflector is constructed of a high performance patented material with 99% reflectivity. Reflector distributions are preset at the factory to the precise angle to deliver uniform, quality light on the required task. The optical system is protected by a high-impact acrylic lens with a perimeter silicone gasket seal that is secured by (2) countersunk stainless steel tamperproof screws.

Photometric Data:

- LED: 4.6W High Output
- CCT: 4000K
- Illuminated Rail Length: 41"
- Rail Height: 36"
- Post Spacing: 48"



LED Light Engine (per foot):

High Output

System Power Consumption: 4.6W

- 4000K: 241 lm
- 3500K: 207 lm
- 3000K: 202 lm
- 2700K: 197 lm

Super High Output

System Power Consumption: 9.5W

- 4000K: 483 lm
- 3500K: 415 lm
- 3000K: 404 lm
- 2700K: 395 lm

IVR15-SPI 1.5"

Integral Power Supply

1.5" O.D. Illuminated Rail

Materials	304 or 316 Stainless Steel
Light Source	LED
Wattage	4.6W (Per Foot)
CCT	2700, 3000, 3500, 4000K
CRI	85 CRI
Top Rail OD	1.5"
Post OD	2"



Construction:

Internal Rail Construction: Heavy duty extruded 6061-T6 Aluminum Alloy.

External Rail Jacket: Available in 304 or 316 stainless steel. Standard finishes include silver, white, black, or bronze powder coat (AAMA 2604). Consult factory for custom powder coat finishes.

LED Light Source:

Closely packed array of small LEDs allow for smooth seamless illumination with immediate overlap to avoid pixelation and provide a continuous flow of light. Color temperature options include 2700K, 3000K, 3500K, or 4000K.

- 85 CRI
- 50,000 hours of average rated life at 70% output
- LED components are easily accessible to allow for easy maintenance

LED Light Engine (per foot):

High Output

- System Power Consumption: 4.6W
- Cool White 4000K: 219 lm
- Neutral White 3500K: 207 lm
- Warm White 3000K: 202 lm
- Warm White 2700K: 194 lm

Sea Turtle Lighting:

V-Rail 1.5" and 1.9" are offered in amber LED, peaking at 606 nanometers, ideal for coastal applications where Sea Turtle Lighting is required. Recommended and available in marine grade 316 stainless steel. Consult factory for details.

Optical System:

Innovative optical system includes integral reflector and light shaping diffuser. Provides precise shaping, control, and efficient light distribution. High-impact acrylic lens is secured with (2) countersunk flush screws, (1) at each end. Distributions include 60° flood, 35° narrow, and 30° asymmetric.

Mounting / Installation:

Each rail support is secured to the swivel mount on specified mounting system. Post or embedded mounts are available. See mounting submittal sheets for detailed information.

Integral Power Supply:

Lutron 3-Wire Hi-lume® 1% A-Series Driver is a high-performance LED driver that provides smooth, continuous 1% dimming.

Emergency:

Remote emergency inverter available. Can be remote up to 1000 ft. See page 11 for remote emergency inverter specification.

Warranty / Listings:

- 5-Year Intense LED Limited Warranty (LED & Power Supply Only)
- ETL Wet Location Listed
- IDA Approved
- ADA Compliant

Integral power supply see page 10 for specification

Specification:

Example: IVR15-SPI-ST-P36-HO27-60S
(Specify quantity by foot)

Series	1.5" O.D. w/ Integral Power Supply
Finish	
-ST	304 Stainless Steel ¹
-C	Custom
Mounting/Height	
-P36	36" Post Mount
-P42	42" Post Mount
-E36	36" Embedded Mount
-E42	42" Embedded Mount
LED Output	
-HO	4.6W Per Foot
Color Temperature	
27	2700K
30	3000K
35	3500K
40	4000K
Light Distribution	
-60S	60° Flood
-35S	35° Narrow
-30AS	30° Asymmetric
Electrical	
blank	Lutron 3-Wire Hi-lume 1% A-Series 120/277V
Options	
-I	Infill ²

NOTES:

1. 316 stainless steel available. Consult factory.
2. Special order. Consult factory.

IVR15-RPS 1.5"

Remote Power Supply

1.5" O.D. Illuminated Rail

Materials	304 or 316 Stainless Steel
Light Source	LED
Wattage	4.6W (Per Foot)
CCT	2700, 3000, 3500, 4000K
CRI	85 CRI
Top Rail OD	1.5"
Post OD	1.5"



Construction:

Internal Rail Construction: Heavy duty extruded 6061-T6 Aluminum Alloy.

External Rail Jacket: Available in 304 or 316 stainless steel. Standard finishes include silver, white, black, or bronze powder coat (AAMA 2604). Consult factory for custom powder coat finishes.

LED Light Source:

Closely packed array of small LEDs allow for smooth seamless illumination with immediate overlap to avoid pixelation and provide a continuous flow of light. Color temperature options include 2700K, 3000K, 3500K or 4000K.

- 85 CRI
- 50,000 hours of average rated life at 70% output
- LED components are easily accessible to allow for easy maintenance

LED Light Engine (per foot):

High Output

- System Power Consumption:** 4.6W
- Cool White 4000K: 219 lm
- Neutral White 3500K: 207 lm
- Warm White 3000K: 202 lm
- Warm White 2700K: 194 lm

Sea Turtle Lighting:

V-Rail 1.5" and 1.9" are offered in amber LED, peaking at 606 nanometers, ideal for coastal applications where Sea Turtle Lighting is required. Recommended and available in marine grade 316 stainless steel. Consult factory for details.

Optical System:

Innovative optical system includes integral reflector and light shaping diffuser. Provides precise shaping, control, and efficient light distribution. High-impact acrylic lens is secured with (2) countersunk flush screws, (1) at each end. Distributions include 60° flood, 35° narrow, and 30° asymmetric.

Mounting / Installation:

Each rail support is secured to the swivel mount on specified mounting system. Wall, post or embedded mounts are available. See mounting submittal sheets for detailed information.

Remote Mounting Power Supply:

Configured per project requirements. Supplies 24V electronically stabilized power to LED's. U.L. Class 2 output for safe operation. Housed to NEMA rated enclosures. Intense Lighting provides shop drawings and specification to satisfy architect and electrical contractor.

Emergency:

Remote emergency inverter available. Can be remote up to 1000 ft. See page 11 for remote emergency inverter specification.

Warranty / Listings:

- 5-Year Intense LED Limited Warranty (LED & Power Supply Only)
- ETL Wet Location Listed
- IDA Approved
- ADA Compliant

Remote power supply see page 10 for specification

Specification:

Example: IVR15-RPS-ST-P36-HO27-60S
(Specify quantity by foot)

SERIES	1.5" O.D. w/ Remote Power Supply
FINISH	
-ST	304 Stainless Steel ¹
-C	Custom
MOUNTING/HEIGHT	
-W	Wall Mount
-P36	36" Post Mount
-P42	42" Post Mount
-E36	36" Embedded Mount
-E42	42" Embedded Mount
LED OUTPUT	
-HO	4.6W Per Foot
-NL	No LED (Rail Only) ³
COLOR TEMPERATURE	
27	2700K
30	3000K
35	3500K
40	4000K
LIGHT DISTRIBUTION	
-60S	60° Flood
-35S	35° Narrow
-30AS	30° Asymmetric
ELECTRICAL	
blank	24V Input
OPTIONS	
-I	Infill ²

NOTES:

- 316 stainless steel available. Consult factory.
- Special order. Consult factory.
- Rail only, omit LED Output, Color Temperature, Light Distribution and Electrical.

IVR2-SPI 1.9"

Integral Power Supply

1.9" O.D. Illuminated Rail

Materials	304 or 316 stainless steel & aluminum
Light Source	LED
Wattage	4.6W, 9.5W (Per Foot)
CCT	2700, 3000, 3500, 4000K
CRI	85 CRI
Top Rail OD	1.9"
Post OD	2"



Construction:

Internal Rail Construction: Heavy duty extruded 6061-T6 Aluminum Alloy.

External Rail Jacket: Available in 304 or 316 stainless steel. Standard finishes include silver, white, black, or bronze powder coat (AAMA 2604). Consult factory for custom powder coat finishes.

LED Light Source:

Closely packed array of small LEDs allow for smooth seamless illumination with immediate overlap to avoid pixelation and provide a continuous flow of light. Color temperature options include 2700K, 3000K, 3500K, or 4000K.

- 85 CRI
- 50,000 hours of average rated life at 70% output

LED Light Engine (per foot):

High Output

- System Power Consumption 4.6W
- Cool White 4000K: 241 lm
- Neutral White 3500K: 207 lm
- Warm White 3000K: 202 lm

Super High Output

- System Power Consumption: 9.5W
- Cool White 4000K: 483 lm
- Neutral White 3500K: 415 lm
- Warm White 3000K: 404 lm

Sea Turtle Lighting:

V-Rail 1.5" and 1.9" are offered in amber LED, peaking at 606 nanometers, ideal for coastal applications where Sea Turtle Lighting is required. Recommended and available in marine grade 316 stainless steel. Consult factory for details.

Light Distribution & Output:

The V-Rail optical system includes a unique reflector that allows you to put the light where it is needed. Factory preset distributions include 60° symmetric, 20° symmetric, and 30° asymmetric.

Optical Lens System:

High-impact acrylic lens is sealed with silicone. Lens is secured with (2) countersunk flush screws, (1) at each end.

Reflector System:

Internal reflector system is constructed of an innovative material that has 99% reflectance properties. Reflector allows up to 140° total adjustment. Right to left side reflector panels are independently adjustable from -30° to 70°. When the outer reflector panel is adjusted toward a stairway, ramp, or walkway, the reflector panel will act as a glare shield from distant viewing angles below an elevated platform.

Mounting / Installation:

Each rail support is secured to the swivel mount on specified mounting system. Post or embedded mounts are available. See mounting submittal sheets for detailed information.

Integral Power Supply:

Lutron 3-Wire Hi-lume® 1% A-Series Driver is a high-performance LED driver that provides smooth, continuous 1% dimming.

Emergency:

Remote emergency inverter available. Can be remote up to 1000 ft. See page 11 for remote emergency inverter specification.

Warranty / Listings:

- 5-Year Intense LED Limited Warranty (LED & Power Supply Only)
- C-UL-US Wet Location Listed
- IDA Approved
- ADA Compliant

Integral power supply see page 10 for specification

Specification:

Example: IVR2-SPI-ST-P36-HO27-60S
(Specify quantity by foot)

SERIES	IVR2-SPI 1.9" O.D. w/ Integral Power Supply
FINISH	
-ST	304 Stainless Steel ¹
-W	White Aluminum
-B	Black Aluminum
-BR	Bronze Aluminum
-SV	Silver Aluminum
-C	Custom Powder Coat ²
MOUNTING/HEIGHT	
-P36	36" Post Mount
-P42	42" Post Mount
-E36	36" Embedded Mount
-E42	42" Embedded Mount
LED OUTPUT	
-HO	High Output
-SHO	Super High Output
COLOR TEMPERATURE	
27	2700K
30	3000K
35	3500K
40	4000K
LIGHT DISTRIBUTION	
-60S	60° Flood
-20S	20° Narrow
-30AS	30° Asymmetric
ELECTRICAL	
blank	Lutron 3-Wire Hi-lume 1% A-Series 120/277V
OPTIONS	
-I	Infill ²

Notes:

1. 316 stainless steel available. Consult factory.
2. Special order. Consult factory.

IVR2-RPS 1.9"

Remote Power Supply

1.9" O.D. Illuminated Rail

Materials	304 or 316 stainless steel & aluminum
Light Source	LED
Wattage	4.6W, 9.5W (Per Foot)
CCT	2700, 3000, 3500, 4000K
CRI	85 CRI
Top Rail OD	1.9"
Post OD	2"



Construction:

Internal Rail Construction: Heavy duty extruded 6061-T6 Aluminum Alloy.

External Rail Jacket: Available in 304 or 316 stainless steel. Standard finishes include silver, white, black, or bronze powder coat (AAMA 2604). Consult factory for custom powder coat finishes.

LED Light Source:

Closely packed array of small LEDs allow for smooth seamless illumination with immediate overlap to avoid pixelation and provide a continuous flow of light. Color temperature options include 2700K, 3000K, 3500K, or 4000K.

- 85 CRI
- 50,000 hours of average rated life at 70% output

LED Light Engine (per foot):

High Output

- System Power Consumption: 4.6W
- Cool White 4000K: 241 lm
- Neutral White 3500K: 207 lm
- Warm White 3000K: 202 lm

Super High Output

- System Power Consumption: 9.5W
- Cool White 4000K: 483 lm
- Neutral White 3500K: 415 lm
- Warm White 3000K: 404 lm

Sea Turtle Lighting:

V-Rail 1.5" and 1.9" are offered in amber LED, peaking at 606 nanometers, ideal for coastal applications where Sea Turtle Lighting is required. Recommended and available in marine grade 316 stainless steel. Consult factory for details.

Light Distribution & Output:

The V-Rail optical system includes a unique reflector that allows you to put the light where it is needed. Factory preset distributions include 60° symmetric, 20° symmetric, and 30° asymmetric.

Optical Lens System:

High-impact acrylic lens is sealed with silicone. Lens is secured with (2) countersunk flush screws, (1) at each end.

Reflector System:

Internal reflector system is constructed of an innovative material that has 99% reflectance properties. Reflector allows up to 140° total adjustment. Right to left side reflector panels are independently adjustable from -30° to 70°. When the outer reflector panel is adjusted toward a stairway, ramp or walkway, the reflector panel will act as a glare shield from distant viewing angles below an elevated platform.

Mounting / Installation:

Each rail support is secured to the swivel mount on specified mounting system. Wall, post, or embedded mounts are available. See mounting submittal sheets for detailed information.

Emergency:

Remote emergency inverter available. Can be remote up to 1000 ft. See page 11 for remote emergency inverter specification.

Remote Mounting Power Supply:

Configured per project requirements. Supplies 24V electronically stabilized power to LED. U.L. Class 2 output for safe operation. Housed to NEMA rated enclosures. Intense Lighting provides shop drawings and specification to satisfy architect and electrical contractor.

Warranty / Listings:

- 5-Year Intense LED Limited Warranty (LED & Power Supply Only)
- C-UL-US Wet Location Listed
- IDA approved
- ADA compliant

Remote power supply see page 10 for specification

Specification:

Example: IVR2-RPS-ST-P36-HO27-60S
(Specify quantity by foot)

SERIES	IVR2-RPS 1.9" O.D. w/ Remote Power Supply
FINISH	
-ST	304 Stainless Steel ¹
-W	White Aluminum
-B	Black Aluminum
-BR	Bronze Aluminum
-SV	Silver Aluminum
-C	Custom Powder Coat ²
MOUNTING/HEIGHT	
-W	Wall Mount
-P36	36" Post Mount
-P42	42" Post Mount
-E36	36" Embedded Mount
-E42	42" Embedded Mount
LED OUTPUT	
-HO	High Output
-SHO	Super High Output
-NL	No LED (Rail Only) ³
COLOR TEMPERATURE	
27	2700K
30	3000K
35	3500K
40	4000K
LIGHT DISTRIBUTION	
-60S	60° Flood
-20S	20° Narrow
-30AS	30° Asymmetric
ELECTRICAL	
blank	24V Input
OPTIONS	
-I	Infill ²

NOTES:

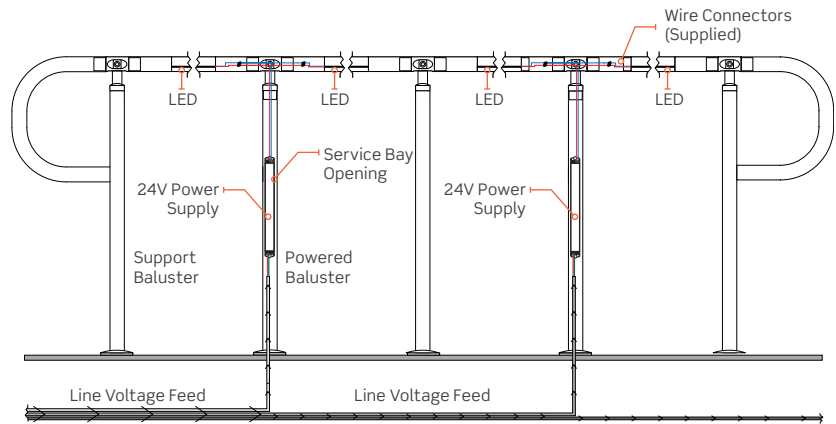
- 316 stainless steel available. Consult factory.
- Special order. Consult factory.
- Rail only, omit LED Output, Color Temperature, Light Distribution and Electrical

Power Supply Integral & Remote

Integral Power Supply

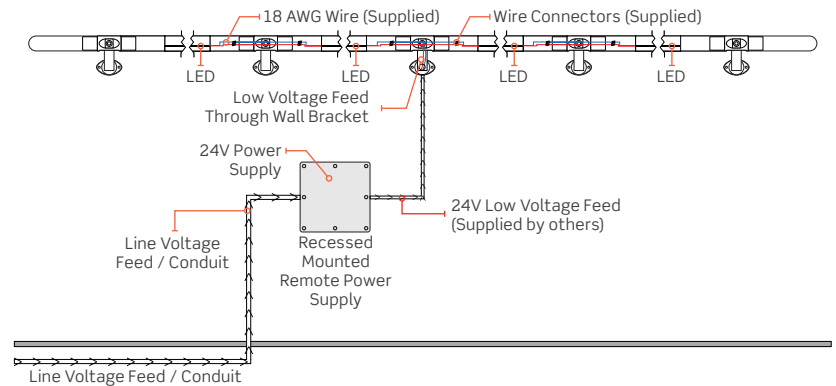
Lutron 3-Wire Hi-lume® 1% A-Series Driver is a high-performance LED driver that provides smooth, continuous 1% dimming.

- Dimming Range: 100% to 1%
- Operating Voltage: 120-277V @ 50/60Hz
- Rated lifetime of 50,000 hrs. @ tc = 65°C
- Power Factor: > 0.9 at 40W
- Standby Power Consumption: < 1.0W
- Total Harmonic Distortion: < 20% at 40W
- Inrush Current: < 2A



Remote Power Supply

Intense Lighting offers a variety of remote power supplies with a maximum wattage of 300W per enclosure. Multiple voltage inputs are supported including 120-277V and 347V. All power supplies within the enclosure are pre-wired at the factory with push-in wire terminal blocks for easy connectivity. In addition, Intense also offers surface mount wet location power supplies without an enclosure for areas that are confined or restricted for space. All equipment is C-UL-US listed. Driver specifications available online at www.intenselighting.com



*Typical electrical installations shown. Electrical installations differ by location and local codes. Consult factory or www.intenselighting.com

Remote Power Supply Load: Maximum Mounting Distance (ft) To LED Input (At Full Load)

POWER SUPPLY	OUTPUT / INPUT	22 AWG	18 AWG	14 AWG	12 AWG
IB-OT96	(96W / 120V/277V)	7 ft	18 ft	46 ft	71 ft
IB-ADV24V-347	(96W / 347V)	7 ft	18 ft	46 ft	71 ft

Remote wiring limitation for constant voltage power supplies due to EMI.

All constant voltage power supplies are limited to 32 ft maximum remote mounting distance for EMI compliance (except NAED 51524 OT3/120-240/350 – 50 ft).

Although it is possible to exceed the EMI limited remote mounting distance, it is the responsibility of the installer and/or end user to take precautions to prevent and/or test the effects of EMI on the installation. Additional EMC/EMI filters may be required on the output side of the power supply for compliance of installations above the limits given in the table above.

Emergency Inverter

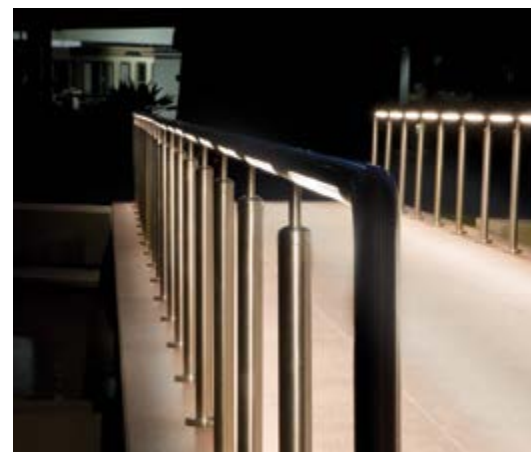
IOTA Emergency Inverter Unit is customizable to act as emergency lighting. The IOTA Emergency Unit Inverter is a UL listed stand-alone simulated sine wave output inverter designed to provide power to the V-Rail in a power loss situation. Designed for surface mount installation. Inverter comes with a three-year warranty and seven-year pro-rated battery warranty.

Specifications

- UL 924 Listed
- Emergency lighting supplied from one convenient source
- Includes momentary contact test switch, yellow ready indicator, green inverter-on indicator, and red charging indicator
- Dual voltage 120/277 60Hz
- Replaceable output fuse protection
- Valve Regulated Lead Acid (VRLA) battery provides long-life and is maintenance free
- Line voltage allows for remote mounting of emergency fixtures at distances up to 1000ft
- Low battery voltage disconnect
- Line latch protection
- Flying leads for operating switched fixtures
- Meets or exceeds all National Electrical Code and Life Safety Code emergency lighting requirements
- Surface wall mounting in white semi-gloss powder coat paint finish
- 3YR/7YR Pro-Rated Warranty



Consult Intense Lighting V-Rail Specialist for assistance determining emergency requirements.



Modular or Custom Seamless

Modular

V-Rail modular is designed to allow for flexibility during the installation process. Illuminated rails are offered at three pre-designated lengths and are cut in the field to the exact measurement required. The final construction of the rail is then assembled utilizing a very high strength adhesive to join the parts. Bonding adhesive is included with each V-Rail system. The bonding process is as follows.



Step 1

Adhesive is applied to the female connection of the joint.



Step 2

Join the rail to coupling rotating 180° to evenly distribute adhesive.



Step 3

Allow the bonded joint 24-hours to cure. Blue painter's tape is recommended to firmly hold the joints during curing.

Custom Seamless

Intense Lighting will fabricate the rail system to the provided specifications. Custom made with exact precision, V-Rail custom seamless is ideal for projects requiring a truly stunning aesthetic. V-Rail is available in post, embedded, or wall mount applications. 316 stainless steel option is the recommended style for coastal applications.



Mounting Options



Surface Post Mount

(SPI/RPS)

Surface post mount was designed to install on a level surface and is ideal for new installations or retrofits. Mounting base requires three anchors with a bolt circle diameter of 3 9/16". Standard height options include 36" and 42". Surface mounts accept 1/2" conduit in and out through the base. An anchor template is available by contacting Intense Lighting.



Wall Mount

(RPS Only)

V-Rail wall mount is secured by anchors and is ideal for installations when vertical surface is present. Conduit feed is wired through the wire way passage in the wall bracket. A drilling template is available by contacting Intense Lighting. Available in remote power supply only.



Embedded Mount

(SPI/RPS)

Embedded mount is recommended for installations with ramps or angled surfaces. Installation of the embedded mount requires the post to be recessed into poured concrete hole and secured with Rockite. Embedded mount may be used for new construction or retrofit installation. Available for V-Rail SPI/RPS.



Custom Mount

(SPI/RPS)

When you have existing posts or brackets you would like to keep, V-Rail can be custom fit to your existing mounting method in the field. Consult factory.

Infill Options

V-Rail is compatible with multiple infill options. Infill can be supplied by Intense Lighting or others. Custom infills supplied by Intense Lighting may require a structural analysis, please contact factory.



Cable



Rod



Glass

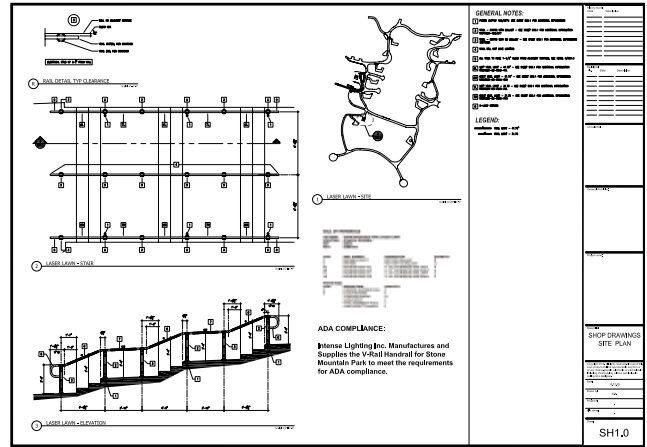


Perforated Metal

Specification & Delivery Process

Architectural drawings or detailed elevation drawings are required for a V-Rail quotation. Once an order is placed, Intense Lighting will provide detailed shop drawings for approval.

V-Rail will be delivered to the job site ready for installation. A detailed assembly drawing will be provided along with dimensions and power drop locations. All products included will be labeled clearly to match the assembly drawing. Certain tools / equipment will be required for the assembly. A detailed list of tools can be found in the V-Rail installation guide. The installation guide can be downloaded at www.intenselighting.com.



Shop Drawing / Assembly Guide



Warranty & Compliance



Compliance

Prior to installing V-Rail, it is important that the installer and electrician are familiar with the local building codes. All V-Rail systems are designed to comply with ADA code requirements. V-Rail is capable of producing light levels on the path of egress to meet the requirements of IBC (International Building Codes), ANSI, and the NFPA 101 Life Safety Codes. In the effort to reduce light pollution, V-Rail is certified by the International Dark-Sky Association. V-Rail is wet location listed therefore suitable for interior or exterior applications.



Warranty

V-Rail is offered with a 5-Year limited warranty. Complete warranty documentation can be downloaded at www.intenselightning.com



Turtle Friendly

V-Rail 1.5" and 1.9" are offered in amber LED, peaking at 606 nanometers, ideal for coastal applications where Sea Turtle Lighting is required. Recommended and available in marine grade 316 stainless steel. Consult factory for details.



Buy American Compliance

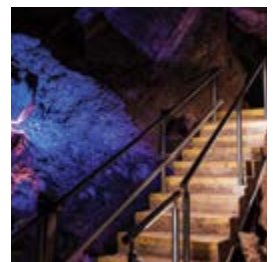
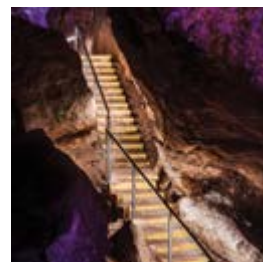
The American Recovery and Reinvestment Act of 2009 (ARRA) contains a Buy American provision in Section 1605. Based on currently available guidance on this provision, V-Rail complies with the Buy American provisions of the ARRA as they relate to Federal aid for EPA funded projects.





Alabaster Caverns

Freedom, Oklahoma

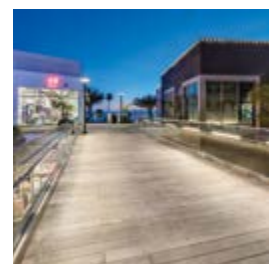






Pacific City

Huntington Beach, California

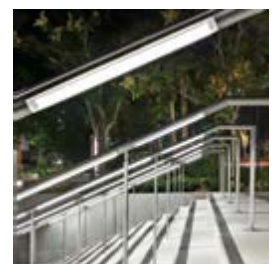






Grand Park

Los Angeles, California

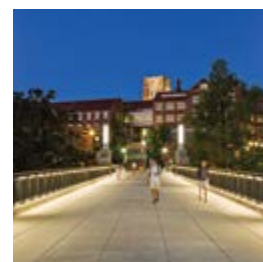






University of Tennessee

Knoxville, Tennessee

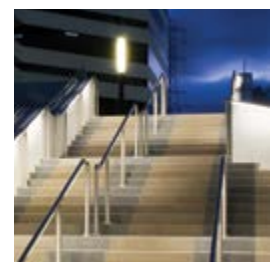
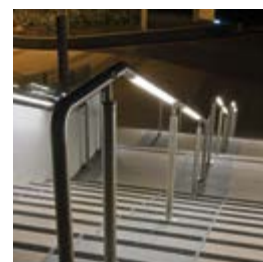
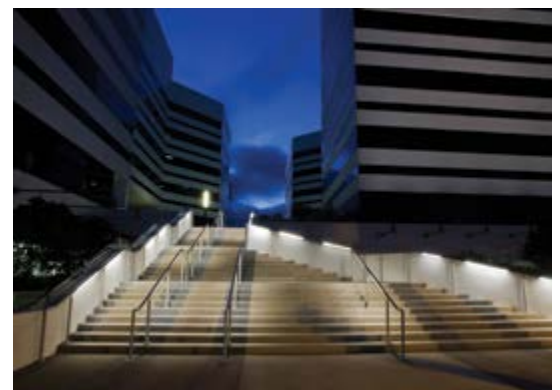






Manhattan Towers

Manhattan Beach, California



Intense Lighting
10385 SW Avery ST
Tualatin, OR 97062

tel 714 630-9877
fax 714 630-9883

info@intenselighting.com
www.intenselighting.com

A Leviton Company
www.leviton.com

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