



IVR15-SPI-WLC

1.5" Wildlife Certified V-Rail w/ 2" Post Integral Power Supply

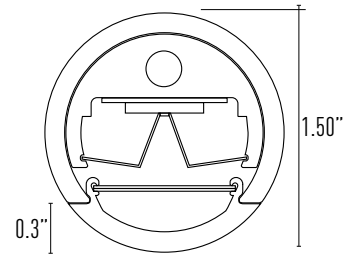
JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



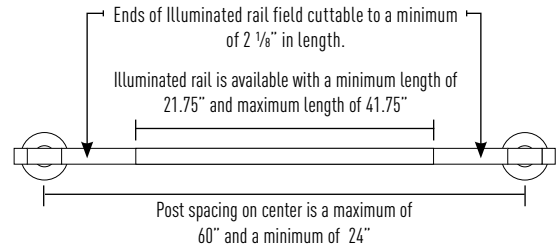
intertek



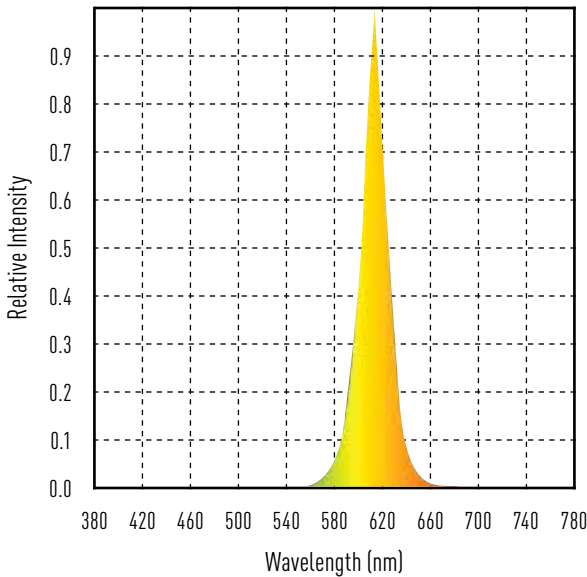
surface



90° APERTURE



WAVELENGTH CHART



FEATURES

The wildlife certified V-Rail is designed using amber LEDs that emit only within wavelengths safe for sea turtle navigation near coastal areas.

CONSTRUCTION

Internal Rail Construction: Heavy duty extruded 6061-T6 Aluminum Alloy.
External Rail Jacket: Available in 304 or 316 stainless steel. Consult factory for custom powder coat finishes (AAMA 2604).

MONOCHROMATIC LED LIGHT SOURCE

Closely packed array of small LEDs allow for smooth seamless illumination with immediate overlap to avoid pixilation and provide a continuous flow of light. Amber LED emits in long wavelengths greater than 580nm, and a range that doesn't disorient sea turtle hatchlings.

- 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)

- System Power Consumption: 4.6W / per ft.

OPTICAL SYSTEM

Innovative optical system includes integral reflector and light shaping diffuser. Diffuser provides a 92% transmission efficiency, control and distribution of light. Distributions include flood, narrow and asymmetric.

MOUNTING / INSTALLATION

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

SURFACE™ SIMULATED NATURAL FINISHES

- Available in 12 standard wood grain powder coated finishes
- Consult factory

EMERGENCY

Remote emergency inverter available. Can be remote up to 1000 ft. available. See IB-IIS specification sheet.

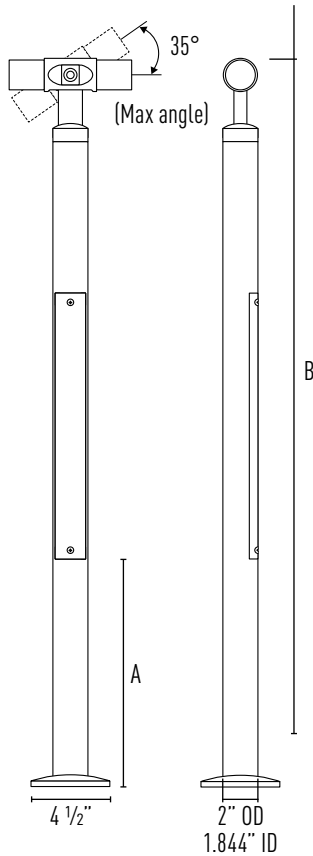
WARRANTY / LISTINGS

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



IVR15-SPI-WLC

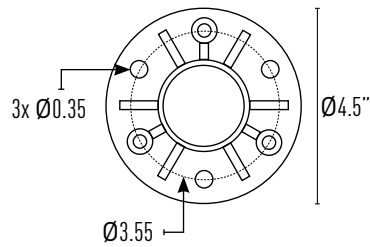
2" Post Mount Assembly



DIMENSIONS

	Guard Rail	Hand Rail
A	17"	14"
B	42"	36"

BASE SPECIFICATION



JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

CONSTRUCTION

Post mount assembly is available in No. 4 polished 304 stainless steel. Consult factory for custom powder coat finishes (AAMA 2604).

MAINTENANCE

Posts include a driver access door where power supply components are easily accessible. Tamper proof hardware and special tools are standard and included.

POWER SUPPLY

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

See driver specifications.

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

MOUNTING / INSTALLATION

Post are to be spaced at a maximum of 60" and minimum of 24" on centers. Post mount is to be surface mounted to concrete utilizing 3/8" anchor bolts (supplied by others). Anchoring means must be determined by local codes. Not to be supplied or engineered by Intense Lighting. See post mount installation chart for more information. Anchorage template available by request.

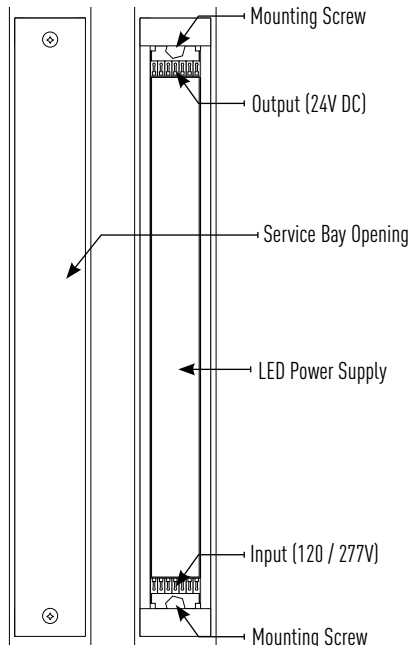
OPERATION

Post with integral power supply will power up-to 83 1/2" of illuminated rail.

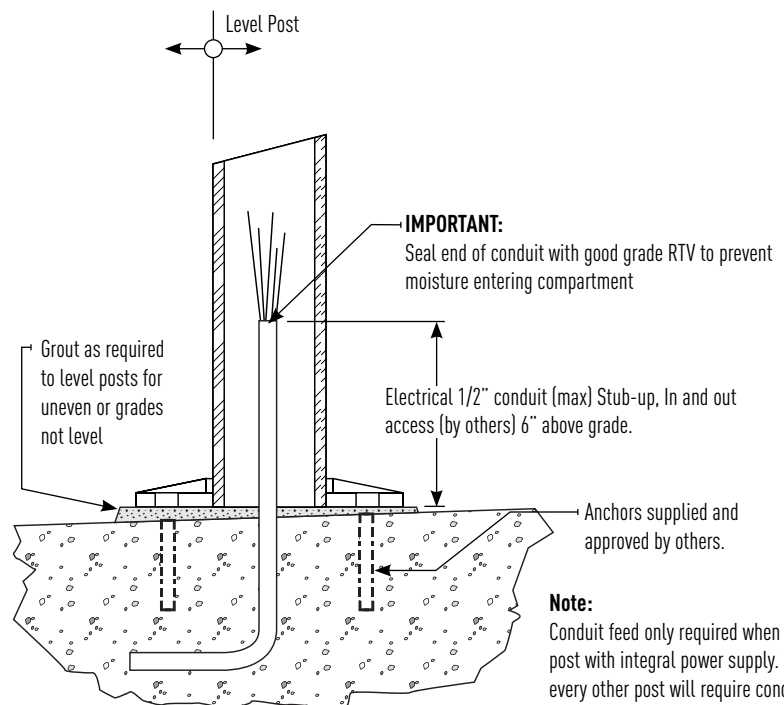
FITTINGS

Consult factory for standard fittings and epoxy weld adhesive specification.

Post Specification



Post Mount Installation Detail

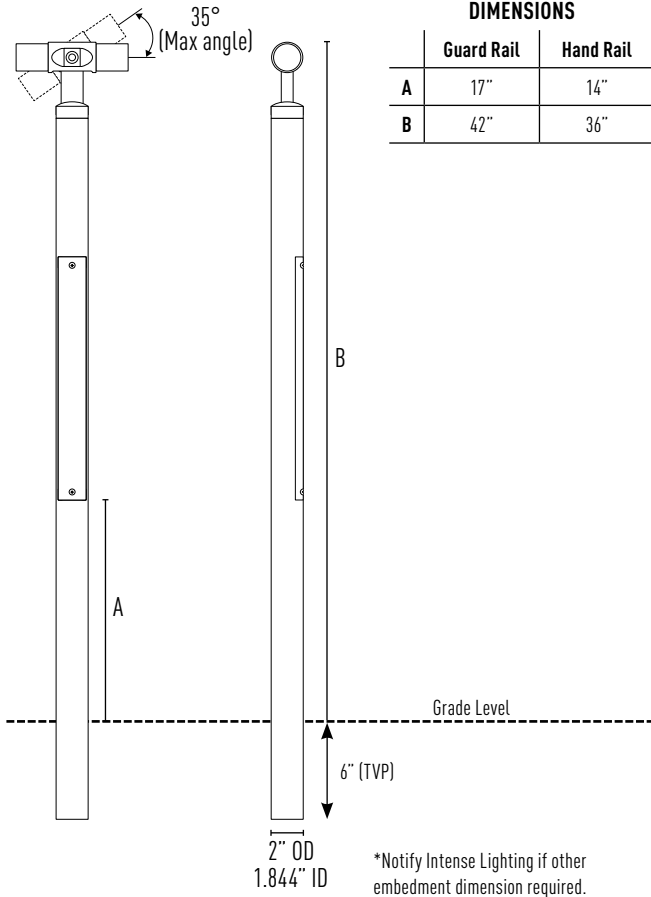


Note:
Conduit feed only required when installing post with integral power supply. Typically every other post will require conduit feed.



IVR15-SPI-WLC

2" Post Embedded Assembly



JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

CONSTRUCTION

Post mount assembly is available in No. 4 polished 304 stainless steel. Consult factory for custom powder coat finishes (AAMA 2604).

MAINTENANCE

Posts include a driver access door where power supply components are easily accessible. Tamper proof hardware and special tools are standard and included.

POWER SUPPLY

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

See driver specifications.

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

MOUNTING / INSTALLATION

Post are to be spaced at a maximum of 60" and minimum of 24" on centers. Embedded mount post are set into place using Rockite® or Kwixset® anchor cement. A minimum of 6" post must be embedded into concrete to structurally secure post. Anchoring means must be determined by local codes. Not to be supplied or engineered by Intense Lighting. See Embedded Mount Installation chart for more information.

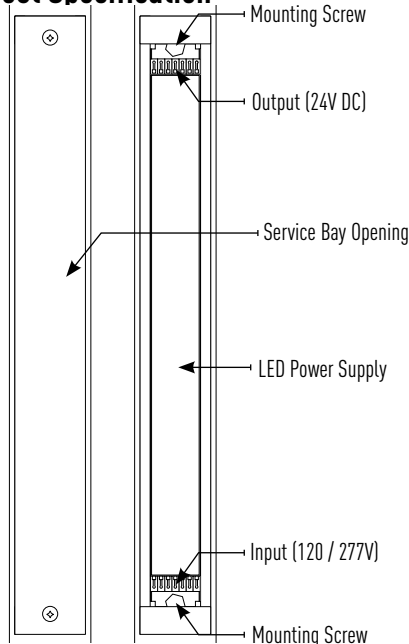
OPERATION

Post with integral power supply will power up-to 83 1/2" of illuminated rail.

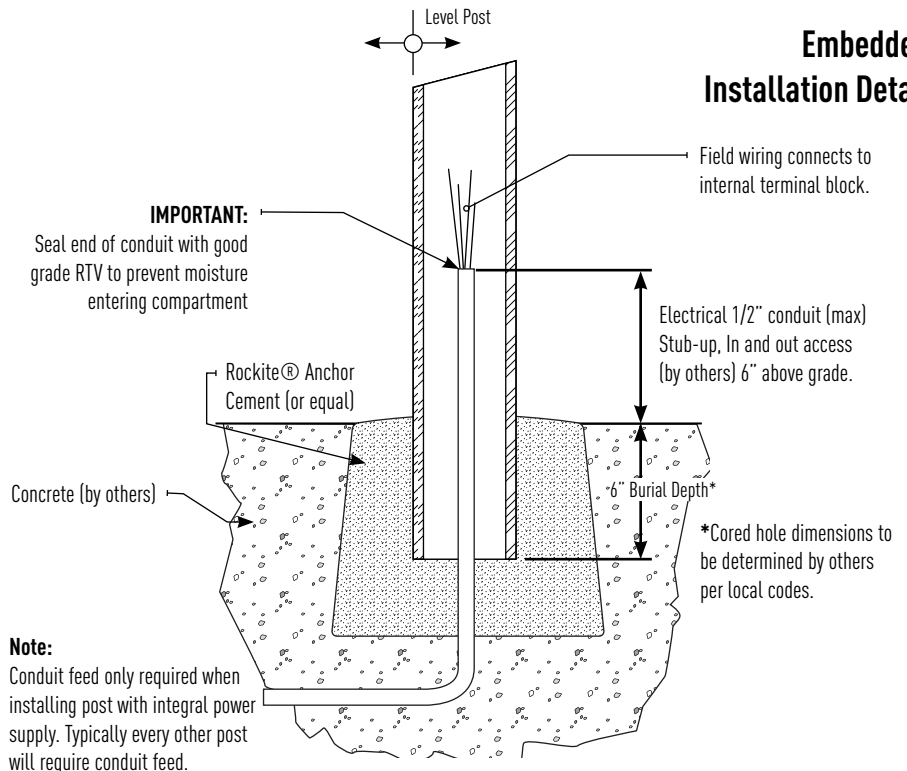
FITTINGS

Consult factory for standard fittings and epoxy weld adhesive specification.

Post Specification



Embedded Installation Detail



V-RAIL/M-940816 P-3

Intense Lighting

3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883
©2016 Intense Lighting, LLC. All rights reserved. Subject to change without notice.





Lutron Hi-lume® A-Series Driver

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



Width: 1.18" Height: 1.00" Length: 14.25"

Maximum Driver-to-LED Light Engine Wire Length	
Wire Gauge	Maximum Lead Length
18	15 ft (4.5 m)
16	25 ft (7.5 m)
14	40 ft (12 m)
12	60 ft (18 m)

DESCRIPTION

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

FEATURES

- Continuous, flicker free dimming from 100% to 1%
- Compatible with Energi Savr Node™ with EcoSystem® unit, QS control unit, PowPak® dimming allowing for integration into a planned or existing EcoSystem® lighting control solution.
- Standard 3-wire line-voltage phase-control technology for consistent dimming performance and compatibility with all Lutron® 3-wire fluorescent controls.
- Rated lifetime of 50,000 hours @ $t_c = 65^\circ\text{C}$
- UL recognized for United States and Canada
- RoHS Compliant
- Constant Voltage Driver with Pulse Width Modulation (PWM) dimming

PERFORMANCE

- Dimming Range: 100% to 1%
- Operating Voltage: 120-277V ~ at 50/60Hz
- Rated lifetime of 50,000 hours @ $t_c = 65^\circ\text{C}$
- Patented thermal foldback protection
- LEDs turn on to any dimmed level without going to full brightness
- Nonvolatile memory restores all driver settings after power failure
- Power Factor: > 0.9 at 40W
- Standby Power Consumption: < 1.0W
- Total Harmonic Distortion (THD): < 20% at 40W
- Inrush Current: < 2A
- Inrush Current Limiting Circuitry: eliminates circuit breaker tripping, switch arcing and relay failure
- Open circuit protected
- Short circuit protected
- Turn-on time: ≤ 1 second
- PWM Dimming Frequency: 550Hz

ENVIRONMENTAL

- Sound Rating: Class A
- Relative Humidity: Maximum 90% non-condensing
- Minimum operating ambient temperature $t_a = 32^\circ\text{F}$ (0°C)

STANDARDS

- Meets ANSI C62.41 category A surge protection standards up to and including 4 kV
- FCC Part 15 compliant for commercial applications at 120V ~ or 277V ~
- UL 8750 recognized

DRIVER WIRING AND MOUNTING

- Terminal blocks on the driver accept one solid wire per terminal from 18 to 16 AWG (0.75 to 1.5 mm²)
- Fixture must be grounded in accordance with local and national electrical codes

LISTINGS

- UL Recognized for United States and Canada
- RoHS Compliant
- FCC Compliant



IVR15-SPI-WLC

1.5" Wildlife Certified V-Rail w/ 2" Post Integral Power Supply

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

Example: IVR15-SPI-WLC-ST-P36-HO-60S

(Specify quantity by foot)

A	B	C	D	E	F	G
A Family		C Mounting/Height		E Light Distribution		G Options
IVR15-SPI-WLC 1.5" OD Illuminated Rail w/ 2" Slim Post Integral Power Supply		-P36 36" Post Mount -P42 42" Post Mount -E36 36" Embedded Mount -E42 42" Embedded Mount		-60S 60° Flood -35S 35° Narrow -30AS 30° Asymmetric		-I Infill ³
B Finish		D LED Output ⁴		F Electrical		
-ST 304 Stainless Steel ¹ -SU Surface™ ² -C Custom ³		-HO 4.6W		blank Lutron Hi-Lume® A-Series 120/277V Driver		

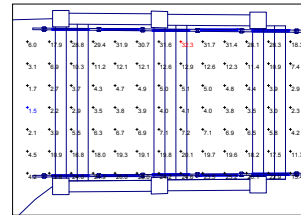
Notes:

1. 316 Stainless steel available by special order
2. See Surface™ simulated natural finishes submittal sheet for specification
3. Special order, consult factory
4. No LED (rail only), see IVR15-RPS

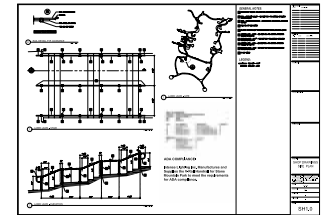
Specification and Delivery Process

Architectural drawings or detailed elevation drawings are required for a V-Rail quotation. A photometric layout will be provided if requested. 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 locations for remote power supplies. All products included will be labeled clearly to match the assembly drawing. Certain tools and equipment will be required for the assembly of V-Rail. A detailed list of tools can be found in the V-Rail Installation Guide. Installation guide available upon request, consult factory.



Photometric Layout



Shop Drawing / Assembly Guide



Completed Project

Notes: