

V15R-P

1.5" O.D. V-Rail Spot - Point Source

ELECTRICAL DATA (PER ENGINE)

Distribution	Nominal Delivered Lumens (Per Engine)	System Wattage	Efficiency
Wide Flood Symmetric Asymmetrical	L1: 150lm @ 3000K / 80CRI L1: 148lm @ 3000K / 80CRI	1.9W (Per Engine)	79 lm/W 78 lm/W
Wide Flood Symmetric Asymmetrical	L2: 211lm @ 3000K / 80CRI L2: 208lm @ 3000K / 80CRI	2.7W (Per Engine)	78 lm/W 77 lm/W

SERVICE

- Intense Lighting provides shop drawings/specifications to satisfy architects and electrical contractors when an order is placed
- Railing is fabricated to site specifications included in your order
- All light engines are assembled at the factory and shipped integral to the rail for ease of installation

CONSTRUCTION AND FINISH

- Internal Construction: Heavy duty Anodized 6082-T6 Aluminum Alloy
- External Rail Jacket: Available in 304 or 316 Stainless steel
- Standard finishes include #4 satin brushed stainless steel or powder coated silver, white, black, or bronze (AAMA 2604) Consult factory for custom material, custom polish finish, or custom powder coated finishes

DIMMING

- 0-10V 10%; Universal 120V-277V
- Lutron LFA2W Hi-Lume 2-Wire 1%; 120V only

LED LIGHT SOURCE

- High power chip scale package for high efficacy performance and energy conservation in a compact form factor
- 80 CRI 2700K, 3000K, 3500K or 4000K
- 3 Step MacAdam (3 SDCM)
- Rated life of >50,000 hours L70 based on LED testing per LM-80-08 and projected values using IESNA TM21-11
- Light engines are easily accessible for field maintenance

OPTICAL SYSTEM

- Patent pending fully integrated optical system and light shaping diffuser for up to 80% transmission efficiency with precise shaping, control and distribution of light
- High-impact acrylic lens is secured with (2) fasteners with recessed accessibility for tamper resistance. Dedicated optic distributions include asymmetric and wide flood symmetric

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 (optional)

INTEGRAL POWER SUPPLY

Supplies 24V electronically stabilized power to LED's. U.L. Class 2 output for safe operation. Surface Mounted Post or embedded mounted Post are available. See mounting submittal sheets for detailed information.

MOUNTING / INSTALLATION

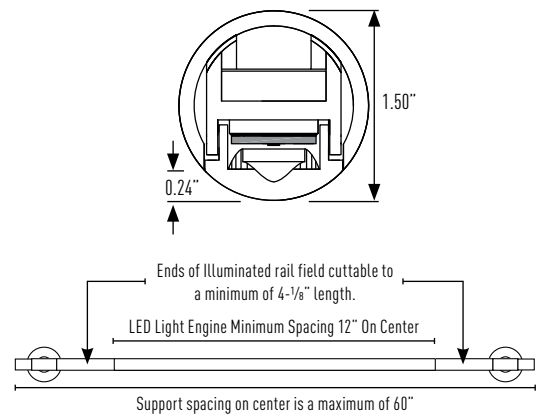
Wall, post, or embedded mount is available. See mounting submittal sheets for detailed information.

EMERGENCY

Remote emergency inverter available. Can be remote up to 1000 ft.

WARRANTY / LISTINGS

- 5-year Limited Warranty (LED & Power Supply Only)
- ETL Wet Location Listed
- IDA Approved
- ADA Compliant
- PATENT# 11,333,310 B2



V-Rail (Example: V15R-P12-ST4S4-P36M-L127WF-RD10UNV-EM3)
(Specify Quantity By Foot)

Series	Spacing On Center	Material	Finish	Mounting	Style	Output (Per Engine)	CCT/CRI
V15R-P	12 (12" Spacing)	-ST4 (304 Stainless Steel)	S4 (Satin #4 Brushed Finish)	-P36 (34-38in, Post Mount)	M (Modular)	-L1 (1.9W)	27 (2700K / 80CRI)
	24 (24" Spacing)	-ST6 ³ (316 Stainless Steel)	W (White, Powder Coat)	-P42 (42in, Post Mount)	S (Seamless)	-L2 (2.7W)	30 (3000K / 80CRI)
	30 (30" Spacing)	-C (Custom, Consult Factory)	B (Black, Powder Coat)	-E36 (34-38in, Embedded Mount)			35 (3500K / 80CRI)
	36 (36" Spacing)		BR (Bronze, Powder Coat)	-E42 (42in, Embedded Mount)			40 (4000K / 80CRI)
	48 (48" Spacing)		SV (Silver, Powder Coat)	-WB ¹ (Wall Bracket)			
	60 (60" Spacing)		C (Custom, Consult Factory)	-GB ¹ (Glass / Guardrail Bracket)			
	C (Custom, Consult Factory)			-C (Custom, Consult Factory)			

Beam	Style	Dimming	Voltage	Options
WF (Wide Flood, Symmetric)	-R (Remote Power Supply)	NON (Non-Dimming)	UNV (Universal, 120V-277V)	-I (Infill, Consult Factory For Infill Options)
AS (Asymmetric)	-I ⁹ (Integral Power Supply)	D10 ⁸ (0-10V 10%)	120 (120V)	-CU ⁸ (Curved Rail Layout. Consult Factory)
		LUT2 ^{4,7,8} (LFA2W Lutron Hi-Lume 2-Wire 1%)	277 (277V)	
		C ⁸ (Custom, Consult Factory)	347 ^{5,6} (347V-480V)	

Emergency Accessories

- EM1² (EM Backup 125W, IB-IIS-125-SM)
- EM3² (EM Backup 375W, IB-IIS-375-LED)
- EM5² (EM Backup 550W, IB-IIS-550-I)
- EM5HE (High Efficiency EM Backup 550WHE, IB-IIS-550-HE)

Notes:

- Not compatible with integral driver option
- Compatible with 120V or 277V only
- Longer lead time may apply
- 120V Only
- Available in non-dimming only
- Remote Only
- Integral Only
- Consult Factory
- Must select Voltage; 120V or 277V

V-RAIL L/M-111522 P-1

INTENSE LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883

For Intense Lighting's limited product warranty, go to www.intenselighting.com. For a printed copy of the warranty, you may call 800 961-5321.

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V15R-P

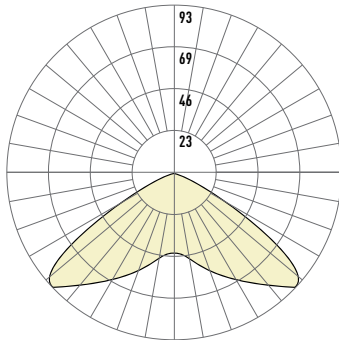
1.5" O.D. V-Rail Spot - Point Source

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

Symmetrical Distribution (Per Engine)

(L2: 2.7W at 3000K / 80 CRI)

PHOTOMETRIC CURVE:



Lumens: 211 lm
Efficacy: 78 lm/W

Wattage: 2.7W
CCT: 3000K / 80CRI

(5ft on Center / 36" Rail / 20ft Run)

<div>1ft</div>																				
<div>1ft</div>	1.2	1.1	1.0	1.1	1.3	1.3	1.1	1.0	1.0	1.3	1.3	1.1	1.0	1.1	1.3	1.3	1.1	1.0	1.1	1.2
	2.9	2.6	2.3	2.6	3.1	3.0	2.6	2.3	2.7	3.1	3.0	2.6	2.3	2.7	3.1	3.0	2.6	2.3	2.6	3.0
	4.5	4.2	4.0	4.3	4.7	4.7	4.3	4.0	4.3	4.7	4.7	4.3	4.0	4.3	4.7	4.7	4.3	4.0	4.3	4.6
	5.6	5.1	5.1	5.3	5.8	5.8	5.2	5.2	5.3	5.9	5.9	5.2	5.2	5.3	5.9	5.8	5.2	5.1	5.2	5.7
	5.9	5.8	6.0	5.7	6.1	6.1	5.9	6.0	5.8	6.1	6.2	5.9	6.0	5.8	6.1	6.1	5.9	6.0	5.7	5.9
	5.8	5.8	5.9	5.7	5.9	6.0	5.9	6.0	5.7	5.9	6.0	5.9	6.0	5.7	5.9	6.0	5.9	5.9	5.6	5.7
	5.3	5.0	5.0	5.7	5.4	5.5	5.1	5.0	4.9	5.4	5.5	5.1	5.0	4.9	5.4	5.5	5.1	5.0	4.8	5.2
	4.3	4.0	3.8	4.0	4.3	4.5	4.1	3.8	4.1	4.4	4.5	4.1	3.8	4.1	4.4	4.5	4.1	3.8	4.0	4.2
	2.8	2.4	2.2	2.5	2.9	2.9	2.5	2.2	2.5	2.9	2.9	2.5	2.2	2.5	2.9	2.9	2.5	2.2	2.4	2.8
	1.2	1.1	1.0	1.1	1.3	1.3	1.1	1.0	1.1	1.3	1.3	1.1	1.0	1.1	1.3	1.3	1.1	1.0	1.1	1.2
<div>5ft</div>	<div>20 ft</div>																			

(2ft on Center / 36" Rail / 20ft Run)

<div>1ft</div>																				
<div>1ft</div>	2.3	2.6	2.7	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.7	2.6	2.2
	5.5	6.2	6.5	5.7	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.9	6.8	6.9	6.8	6.8	6.7	6.6	6.2	5.4
	8.6	10.0	10.5	10.8	10.9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.9	11.0	10.8	10.6	9.9	8.6
	10.6	12.2	13.1	13.4	13.6	13.6	13.7	13.6	13.7	13.6	13.7	13.6	13.7	13.6	13.7	13.5	13.5	13.1	12.3	10.5
	11.2	13.2	14.2	14.7	14.8	14.9	14.9	15.0	15.0	15.0	15.0	15.0	14.9	15.0	14.9	14.9	14.7	14.3	13.2	11.4
	11.1	13.0	14.0	14.4	14.6	14.7	14.7	14.7	14.8	14.8	14.8	14.7	14.8	14.7	14.7	14.6	14.5	14.0	13.0	11.1
	5.9	11.6	12.4	12.7	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	12.9	12.9	12.7	12.4	11.5	11.0
	8.1	8.3	10.0	10.1	10.4	10.3	10.4	10.3	10.5	10.3	10.5	10.3	10.4	10.3	10.4	10.2	10.3	9.9	5.4	8.1
	5.1	5.8	6.2	6.3	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.5	6.4	6.4	6.4	6.2	5.9	5.1
	2.2	2.5	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.5	2.2
<div>5ft</div>	<div>20 ft</div>																			

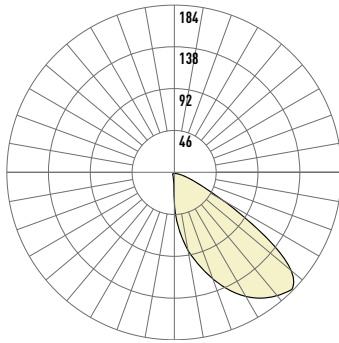
V15R-P

1.5" O.D. V-Rail Spot - Point Source

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

Asymmetrical Distribution (Per Engine) (L2: 2.7W at 3000K / 80 CRI)

PHOTOMETRIC CURVE:



Lumens: 208 lm
Efficacy: 77 lm/W

Wattage: 2.7W
CCT: 3000K / 80CRI

(5ft on Center / 36" Rail / 20ft Run)

1ft	2.4	2.3	2.3	2.4	2.6	2.6	2.4	2.3	2.4	2.6	2.6	2.4	2.3	2.4	2.6	2.6	2.4	2.3	2.3	2.4
5ft	5.7	5.3	5.2	5.5	5.9	5.9	5.4	5.3	5.5	5.3	5.9	5.4	5.3	5.5	5.9	5.3	5.3	5.2	5.4	5.7
10ft	3.1	8.7	8.6	9.0	8.8	9.2	8.8	8.6	9.0	8.9	9.2	8.8	8.6	9.0	8.8	9.2	8.7	8.6	8.9	8.7
15ft	11.4	9.9	8.2	8.5	11.5	11.5	9.4	8.3	9.5	1.5	11.5	9.4	8.3	8.5	11.5	11.5	9.4	8.2	9.4	11.4
20ft	9.3	6.8	5.2	6.6	9.5	9.4	6.8	5.2	6.6	9.5	9.4	6.8	5.2	6.6	9.5	9.4	6.8	5.2	6.5	9.4
25ft	1.9	1.5	1.5	1.6	2.1	2.0	1.6	1.5	1.6	2.1	2.0	1.6	1.5	1.6	2.1	2.0	1.6	1.5	1.6	2.0
30ft	0.5	0.5	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.4	0.5	0.5
35ft	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40ft	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
45ft	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20ft																				

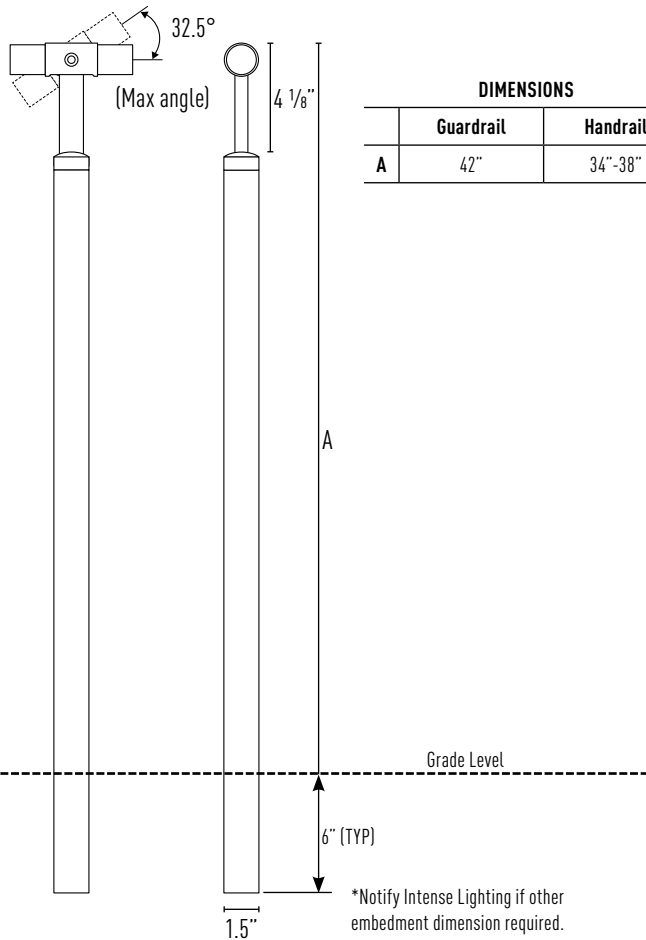
(2ft on Center / 36" Rail / 20ft Run)

1ft	4.6	5.3	5.8	5.9	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.0	5.9	5.7	5.3	4.6
5ft	11.0	12.6	13.5	13.7	13.9	13.9	14.0	13.9	14.0	13.9	14.0	13.9	14.0	13.9	14.0	13.8	13.4	12.7	10.8
10ft	17.8	20.2	22.1	21.7	22.5	21.8	22.6	21.8	22.6	21.5	22.6	21.5	22.6	21.8	22.5	21.8	22.4	21.3	20.8
15ft	20.7	23.7	24.7	24.9	25.1	25.0	25.1	25.1	25.1	25.1	25.2	25.1	25.1	25.0	25.1	25.0	25.0	24.6	23.6
20ft	15.9	18.0	18.3	18.7	18.6	18.8	18.6	18.8	18.6	18.8	18.6	18.8	18.6	18.6	18.8	18.5	18.5	17.6	15.8
25ft	3.5	4.1	4.1	4.4	4.3	4.4	4.3	4.4	4.3	4.4	4.3	4.4	4.3	4.4	4.3	4.4	4.2	4.2	3.9
30ft	1.0	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.0
35ft	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6
40ft	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4
45ft	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
20ft																			

V15R-P

1.5" O.D. Remote Post Embedded Assembly

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



	Guardrail	Handrail
A	42"	34"-38"

CONSTRUCTION AND FINISH

Embedded mount assembly is available in 304 or 316 No.4 polished stainless steel. Periodic cleaning is required to preserve stainless finish. 316 Stainless Steel is recommended for installations in coastal areas, near bodies of water, or other harsh environments. Available finishes include #4 satin or powder coated silver, white, black and bronze (AAMA 2604). Consult factory for custom material, custom polish finish, or custom powder coated finishes.

MOUNTING / INSTALLATION

Post are to be spaced at a maximum of 60" 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 and size must be determined by local codes. Not to be supplied or engineered by Intense Lighting. See Embedded Mount Installation detail for more information.

FITTINGS

Consult factory for standard fittings and epoxy weld adhesive.

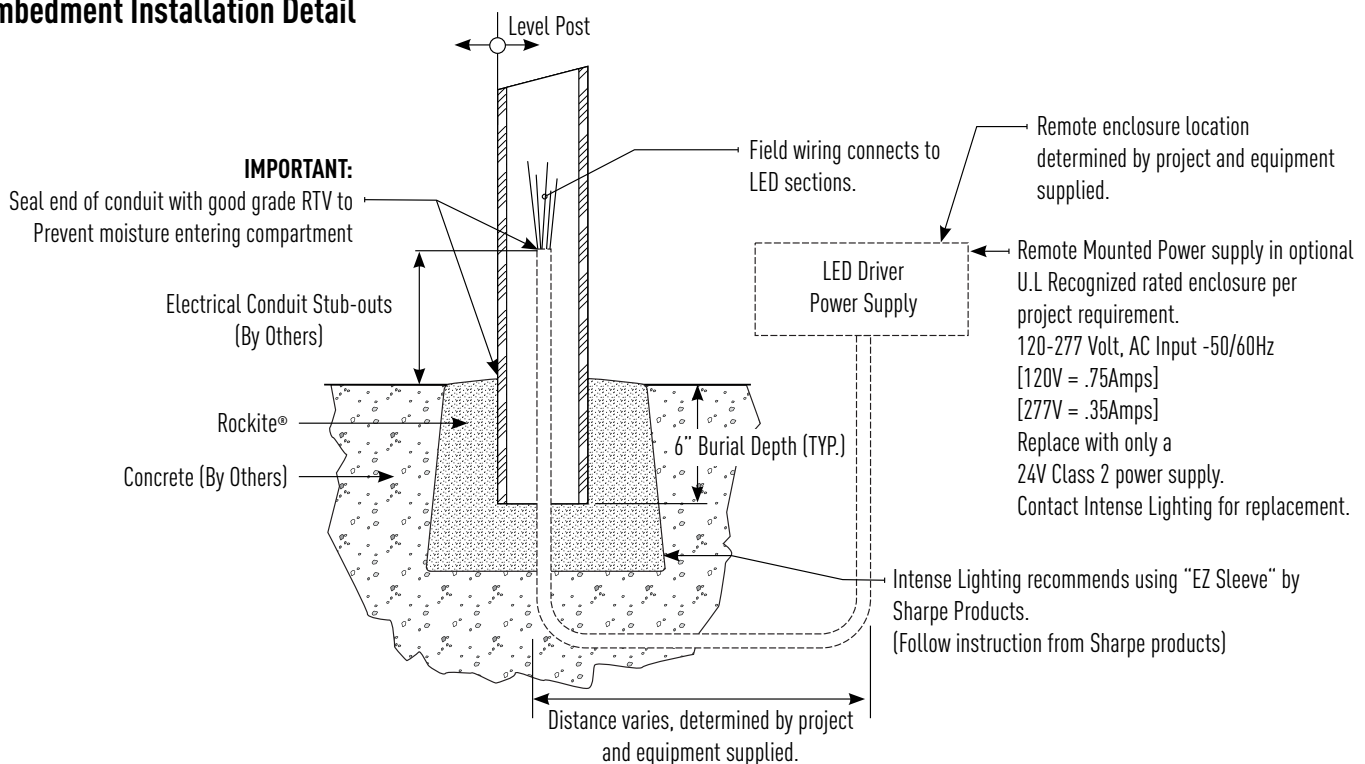
INFILL OPTIONS

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. Post apacing maximum may vary depending on infill chosen.

INFILL OPTIONS



Embedment Installation Detail



V-RAIL U/M-111522 P-4

INTENSE LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883

For Intense Lighting's limited product warranty, go to www.intenselighting.com. For a printed copy of the warranty, you may call 800 961-5321.

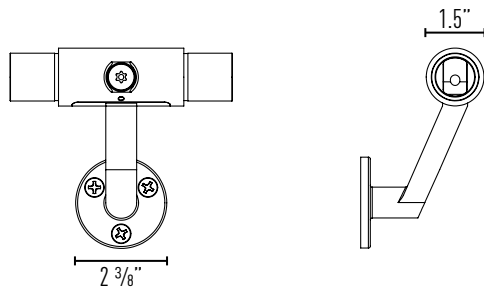
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intense[®] a LEVITON[®] company

V15R-P

1.5" O.D. Remote Wall Mount Assembly

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



CONSTRUCTION AND FINISH

Wall mount assembly is available in No.4 polished 304 stainless steel. Periodic cleaning is required to preserve stainless finish. 316 Stainless Steel is recommended for installations in coastal areas, near bodies of water, or other harsh environments. Available finishes include #4 satin or powder coated silver, white, black and bronze (AAMA 2604). Consult factory for custom material, custom polish finish, or custom powder coated finishes.

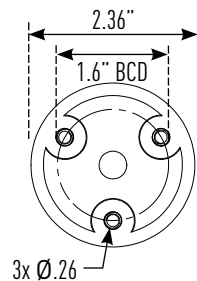
MOUNTING / INSTALLATION

Supports are to be spaced at a maximum of 60" on centers. Wall mount assembly is to be mounted to concrete wall utilizing anchor bolts (supplied by others). Anchoring means and size must be determined by local codes. Not to be supplied or engineered by Intense Lighting. See Wall Mount Installation detail for more information. Anchorage template available by request.

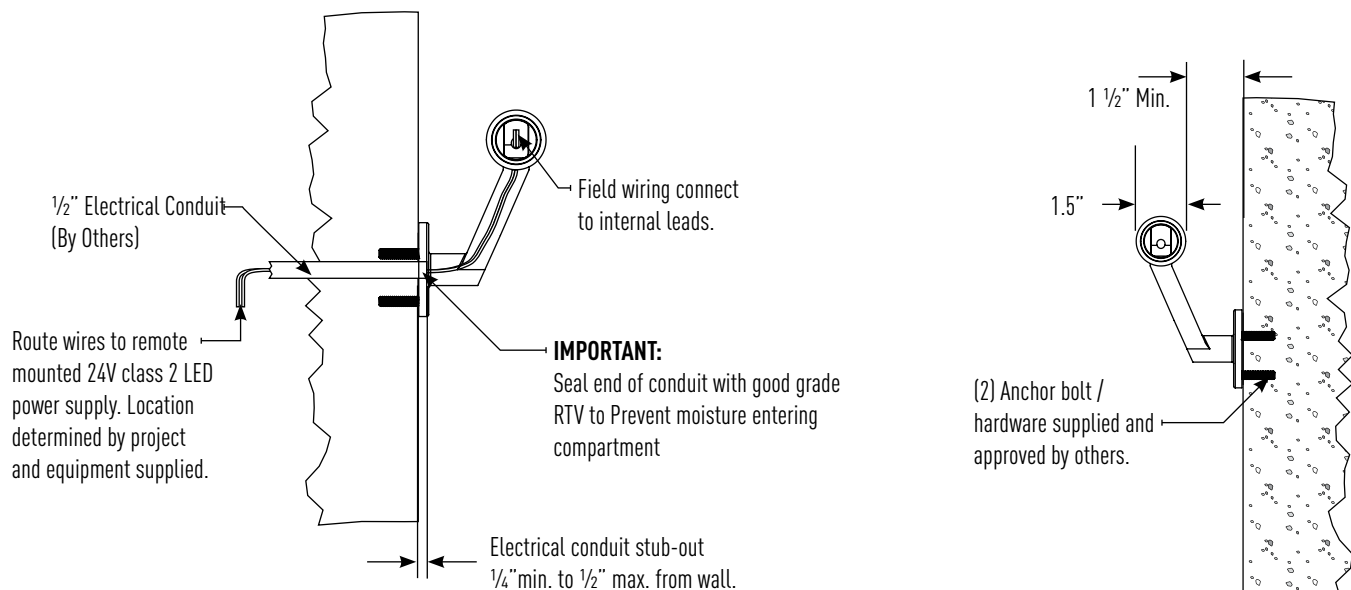
FITTINGS

Consult factory for standard fittings and epoxy weld adhesive.

WALL BRACKET SPECIFICATION



Wall Mounted Installation Detail



V15R-P

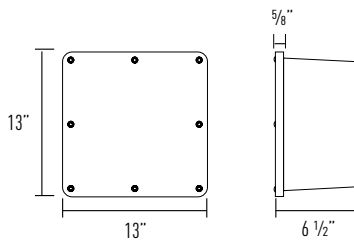
Remote Power Supply - Multiple Output Wet Location Enclosure

Nema 4x UL Listed Outdoor Rated PVC Boxes

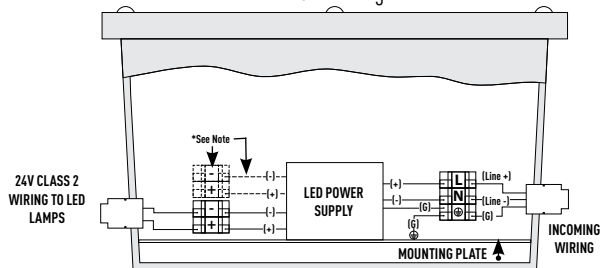
Non-Corroding, Non-Conducting, Fire Resistant, Concrete Tight



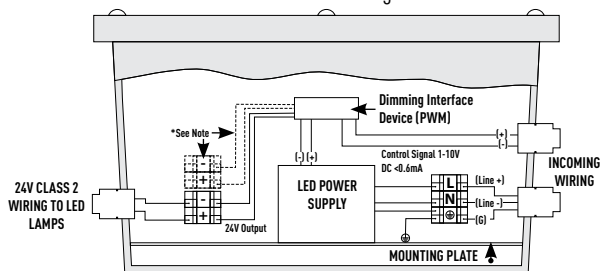
Suitable for Surface Mount and Recessed Mount



LED Remote Power Supply "No Dimming"



LED Remote Power Supply "With Dimming"



Wire gauge to be determined per project. Voltage drop occurs with distance. Any change in wire length requires re-engineering.

*Notes: Dash lines represent additional outputs when supplied per project.

All components inside enclosure are supplied by Intense Lighting.

External connections and means to be determined by the local authority having jurisdiction. Not to be engineered or supplied by Intense Lighting.

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

IVR-RPS-1-0T96 - (1) 96W 120/277V (1) 24V Outputs

IVR-RPS-2-0T96 - (2) 96W 120/277V (2) 24V Outputs

FEATURES

- Protected against open circuit, short circuit, overload and overheating issues
- Universal 120-277V input
- Suitable for damp and wet locations
- Easy connectivity to terminal blocks
- Integrated 0-10V dimming available

SPECIFICATIONS

- Input Power: 108-305VAC, 50/60 Hz, .91A @ 120VAC
- Output Power: 96W 24V DC
- Ambient Temperature Range: -22°F to 158°F (-30°C to 70°C)¹
- Classification: Class 2
- Protection Rating: IP66

NOTES:

1.IB-0T96 Only

IVR-RPS-1-ADV24V-347 - (1) 96W 347V (1) 24V Outputs

IVR-RPS-2-ADV24V-347 - (2) 96W 347V (2) 24V Outputs

FEATURES

- Protected against open circuit, short circuit, overload and overheating issues
- Ideal for projects in USA with 480V input
- Ideal for projects in Canada with 347V input

SPECIFICATIONS

- Input Power: 347-480VAC,
- Output Power: 100W 24V DC
- Ambient Temperature Range: -40°C to 65°C
- Classification: Class 2
- Protection Rating: IP66

V15R-P

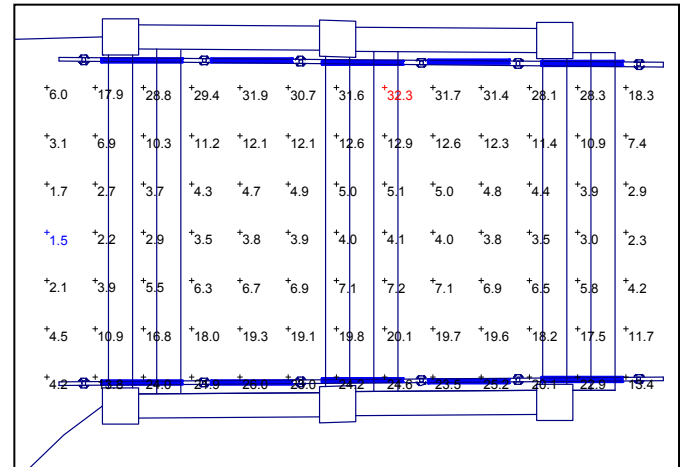
1.5" O.D. V-Rail Spot - Point Source

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

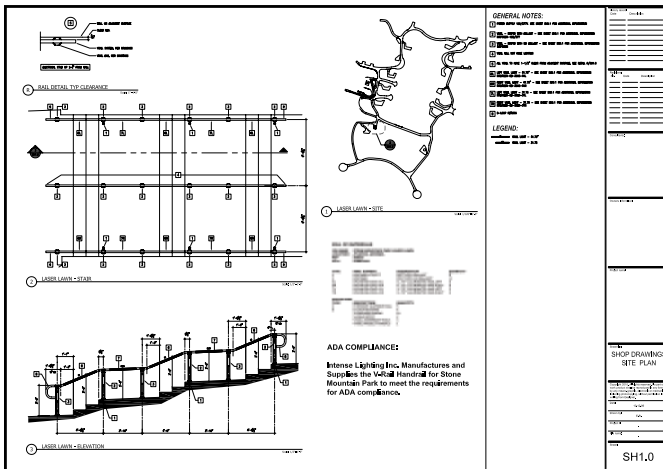
Specification and Delivery Process

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 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