BEACON
design . performance . technology

VIPER S
SMALL VIPER LUMINAIRE

OPTICS
STRIKE

FEATURES

- Small size companion to Viper Large
- Wide choice of different LED wattage configurations
- Nine optical distributions
- Designed to replace HID lighting up to 400W MH or HPS
- Suitable for wet locations

CSA C US

DLC QPL LISTED

ida DARK SKY APPROVED 2016 darksky.org

*3000K and warmer CCTs only

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE   wiSCAPE   energeni   SiteSync LIGHTING CONTROL

RELATED PRODUCTS

Viper Large

SPECIFICATIONS

CONSTRUCTION
- Manufactured with die cast aluminum
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3,000-hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds
- External hardware is corrosion resistant

OPTICS
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one-piece optical system
- One-piece silicone gasket ensures a weatherproof seal around each individual optic
- One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel

INSTALLATION
- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included

ELECTRICAL
- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV)
- Power factor is ≥ .90 at full load
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- Fixture electrical compartment contains all LED driver components and a push-button terminal block for AC power connections
- Optional 7-pin ANSI C136.41-2013 Twist-Lock® photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices
- Ambient operating temperature -40°C to 25°C
- Surge protection: 20kA
- Lifeshield™ Circuit (see Electrical Data)

CONTROLS
- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration

CONTROLS (CONTINUED)
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7

CERTIFICATIONS
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Certified to UL 1598 and UL 8750
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available online

WARRANTY
- 5 year warranty
- See HLI Commercial and Industrial Outdoor Lighting Warranty for additional information

KEY DATA	
Lumen Range	5400–16,216
Wattage Range	55–136
Efficacy Range (LPW)	100–124
Reported Life (Hours)	L70>377,000
Input Current Range (Amps)	0.1–1.1

Photometry · Viper Brochure · Dimensional Drawings · ENERGENI · SiteSync

HUBBELL Lighting

BEACON
design . performance . technology

VIPER S
SMALL VIPER LUMINAIRE

ORDERING GUIDE

Example: VPS–24L–55–4K7–4W–UNV–A–DB–TL–GENI–04–BC

CATALOG #

VPS —

Series	LED Engine		CCT/CRI[7]		Distribution		Rotation		Voltage	
VPS Viper Small	**24L-55**	55W, LED array	**3K7**	3000K, 70 CRI	**FR**	Type 1/Front Row	**Blank**	No rotation	**UNV**	120–277V
	36L-65	65W, LED array	**4K7**	4000K, 70 CRI	**2**	Type 2	**L**	Optic rotation left[5]	**347**	347V
	36L-80	80W, LED array	**5K7**	5000K, 70 CRI	**3**	Type 3	**R**	Optic rotation right[5]	**480**	480V
	48L-110	110W, LED array			**4**	Type 4				
	60L-136	136W, LED array			**4W**	Type 4 Wide				
					5QM	Type 5QM				
					5R	Type 5R (rectangular)				
					5W	Type 5W (round wide)				
					TC	Tennis Court				

Mounting		Color		Control Options		Options	
A	Rectangular Arm (formerly RA) for square or round pole	**BLT**	Black Matte Textured	**7PR**	7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)	**F**	Fusing
MAF	Mast Arm Fitter (formerly SF2) for 2⅜" OD horizontal arm	**BLS**	Black Gloss Smooth			**BC**	Backshield (available for FR, 2, 3, 4, 4W Optics)
K	Knuckle (formerly PK2) limit to 30° tilt or 2⅜" OD horizontal arm or vertical tenon	**DBT**	Dark Bronze Matte Textured	**7PR-SC**	7-Pin Receptacle w/Shorting Cap		
		DBS	Dark Bronze Gloss Smooth	**7PR-TL**	7-Pin Receptacle w/Twist-Lock® photo control		
WB	Wall Bracket	**GTT**	Graphite Matte Textured	**SCP/_F**	Programmable Occupancy Sensor w/ daylight control [1,2,6]		
AD	Universal Arm for square pole	**LGS**	Light Grey Gloss Smooth	**GENI-XX**	ENERGENI[3]		
AD3	Adapter for 2.4"–4.1" round pole	**PSS**	Platinum Silver Smooth	**SWP**	SiteSync Pre-Commission[1,4]		
AD4	Adapter for 4.2"–5.3" round pole	**WHT**	White Matte Textured	**SWPM_F**	SiteSync Pre-Commission w/ Sensor [1,2,4]		
AD5	Adapter for 5.5"–5.9" round pole	**WHS**	White Gloss Smooth				
AD6	Adapter for 6.0"–6.5" round pole	**VGT**	Verde Green Textured				
		Color Option					
		CC	Custom Color				

House Side Shield Accessories

☐	**HSS/VP-S/90-FB/XXX**	90° shield front or back
☐	**HSS/VP-S/90-LR/XXX**	90° shield left or right
☐	**HSS/VP-S/270-FB/XXX**	270° shield front or back
☐	**HSS/VP-S/270-LR/XXX**	270° shield left or right
☐	**HSS/VP-S/360/XXX**	Full shield

Replace XXX with notation for desired finish color. Refer to page 8 for shield images.

Mounting Accessories

☐	**VPL-AD-RPA3**	2.4"–4.1" Round Pole Adapter for AD arm
☐	**VPL-AD-RPA4**	4.2"–5.3" Round Pole Adapter for AD arm
☐	**VPL-AD-RPA5**	5.5"–5.9" Round Pole Adapter for AD arm
☐	**VPL-AD-RPA6**	6.0"–6.5" Round Pole Adapter for AD arm

Notes:
1. Not available with other wireless control or sensor options
2. Specify mounting height; 8 = 8' or less, 40 = 9' to 40'
3. Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options
4. Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
5. Only available with FR, 2, 3, 4, 4W and 5R distributions
6. Order at least one SCP-REMOTE per project location to program and control the occupancy sensor

Accessories and Services (Ordered Separately)

☐	**SCP-REMOTE**	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
☐	**SWUSB***	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
☐	**SWTAB***	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node
☐	**SWBRG**	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested
☐	**SW7PR+**	SiteSync 7-Pin on fixture module On/Off/Dim, Daylight Sensor 120–480VAC
☐	**BIRD-SPIKE-3**	Bird Spikes

* When ordering SiteSync at least one of these two interface options must be ordered per project.
+ Available as a SiteSync retrofit solution for fixtures with an existing 7-pin receptacle.

Hubbell Control Solutions — Accessories (Sold Separately)

NX Distributed Intelligence™

☐	**NXOFM-1R1D-UNV**	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120–480VAC

wiSCAPE® Lighting Control

☐	**WIR-RME-L**	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110–480VAC

For additional information related to these accessories please visit www.hubbellcontrolsolutions.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

HUBBELL Lighting®

BEACON
design . performance . technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER S
SMALL VIPER LUMINAIRE

CONTROLS

SiteSync — Precommissioned Ordering Information:
When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit the SiteSync family page on our website or contact Hubbell Lighting tech support at 864-678-1000.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/   SiteSync only
           VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/   SiteSync with Motion Control

SiteSync 7-Pin Module:
• SiteSync features in a new form
• Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
• Does not interface with occupancy sensors

SW7PR

NX Distributed Intelligence™ Lighting Controls:
Supports both indoor and outdoor applications in a variety of deployment options: wired, wireless and hybrid.
Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.

NX DISTRIBUTED™ INTELLIGENCE

NX Integrated Controls Reference								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wireless								
NXOFM-1R1D-UNV	SCLNX	Yes	Yes	Yes	Yes	Yes	Yes	Yes, Bluetooth App

wiSCAPE™:
Supports remote management, monitoring and metering of outdoor wireless lighting applications such as smart campuses, smart cities, parking lots, parking lots and roadways.

wiSCAPE™

wiSCAPE Reference								
wiSCAPE Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
Networked – Wireless								
WIR-RME-L	WIR-RME-L	Yes	Yes	No	Yes	Yes	Yes	wiSCAPE Gateway

HUBBELL Lighting

VIPER S
SMALL VIPER LUMINAIRE

DATE: LOCATION:
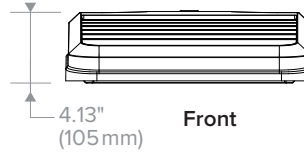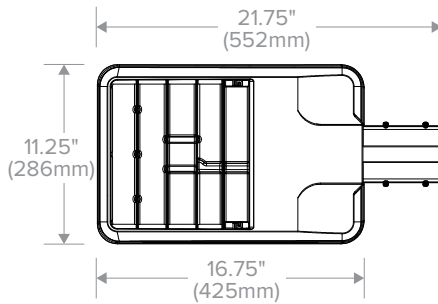
TYPE: PROJECT:

CATALOG #:

DELIVERED LUMENS

# of LEDs	DRIVE CURRENT (mA)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
24	700 mA	55W	FR	6357	118	1	0	1	6486	120	1	0	1	5804	107	1	0	1
			2	6132	114	1	0	1	6257	116	1	0	2	5599	104	1	0	1
			3	6015	111	1	0	2	6137	114	1	0	2	5492	102	1	0	2
			4	5921	110	1	0	2	6034	112	1	0	2	5400	100	1	0	2
			4W	5793	108	1	0	2	5909	110	1	0	2	5272	98	1	0	2
			5QM	6022	112	2	0	1	6145	114	2	0	1	5499	102	2	0	1
			5R	6063	112	3	0	3	6187	115	3	0	3	5536	103	3	0	3
			5W	5908	109	3	0	1	6028	112	3	0	1	5908	102	3	0	1
			TC	6183	113	1	0	1	6309	118	1	0	1	5645	105	1	0	1
36	560 mA	65W	FR	7864	121	1	0	1	8041	124	1	0	1	7189	111	1	0	1
			2	7586	117	1	0	2	7757	119	1	0	2	6934	107	1	0	2
			3	7441	114	1	0	2	7609	117	1	0	2	6802	105	1	0	2
			4	7317	110	1	0	2	7482	112	1	0	2	6688	100	1	0	2
			4W	8690	108	1	0	2	8864	110	1	0	2	7908	98	1	0	2
			5QM	7450	115	3	0	1	7618	117	3	0	1	6810	105	3	0	1
			5R	7501	115	3	0	3	7670	118	3	0	3	6857	105	3	0	3
			5W	7309	112	3	0	1	7473	115	3	0	1	6681	103	3	0	1
36	700 mA	80W	FR	9535	118	1	0	1	9730	120	1	0	1	8706	107	1	0	1
			2	9197	114	1	0	2	9385	116	1	0	2	8398	104	1	0	2
			3	9022	111	1	0	2	9206	114	1	0	2	8238	102	1	0	2
			4	8871	110	1	0	2	9052	112	1	0	2	8100	100	1	0	2
			4W	11587	108	1	0	3	11819	110	1	0	3	10544	98	1	0	3
			5QM	9033	112	3	0	1	9217	114	3	0	1	8248	102	3	0	1
			5R	9095	112	3	0	3	9280	115	3	0	3	8304	103	3	0	3
			5W	8861	109	3	0	2	9043	112	3	0	2	8092	100	3	0	2
			TC	9275	115	1	0	1	9464	118	1	0	1	8468	105	1	0	1
48	700 mA	110W	FR	12713	118	1	0	1	12973	120	2	0	1	11608	107	1	0	1
			2	12263	114	2	0	2	12513	116	2	0	2	11197	104	2	0	2
			3	12029	111	2	0	2	11275	114	2	0	2	10984	102	1	0	2
			4	11828	110	1	0	2	12069	112	1	0	3	10800	100	1	0	2
			4W	14484	108	2	0	4	14774	111	2	0	4	13180	98	2	0	3
			5QM	12044	112	3	0	2	12290	114	3	0	2	10997	102	3	0	1
			5R	12126	112	3	0	3	12374	115	3	0	3	11072	103	3	0	3
			5W	12126	109	4	0	2	12057	112	4	0	2	10789	100	4	0	2
			TC	12366	115	1	0	2	12619	118	1	0	2	11290	105	1	0	2
60	700 mA	136W	FR	15891	117	2	0	2	16216	120	2	0	2	14511	107	2	0	1
			2	15329	113	2	0	2	15642	116	2	0	2	13997	103	2	0	2
			3	15037	111	2	0	3	15344	113	2	0	3	13730	101	2	0	3
			4	14784	109	1	0	3	15086	111	1	0	3	13500	100	1	0	3
			4W	14802	109	2	0	3	15104	112	2	0	3	13515	100	2	0	3
			5QM	15055	111	3	0	2	15362	114	3	0	2	13747	102	3	0	2
			5R	15158	112	4	0	4	15469	114	4	0	4	13841	102	4	0	4
			5W	14781	109	4	0	2	15083	111	4	0	2	13495	100	4	0	2
			TC	15458	115	1	0	2	15834	118	1	0	2	14113	105	1	0	2

HUBBELL Lighting

BEACON
design . performance . technology

VIPER S
SMALL VIPER LUMINAIRE

HUBBELL

DIMENSIONS

21.75"
(552mm)

11.25"
(286mm)

16.75"
(425mm)

4.13"
(105 mm)   **Front**

Weight	15.0 lbs (6.8 kg)
EPA	.67 ft²

A Arm (formerly RA)

Side View   Back View
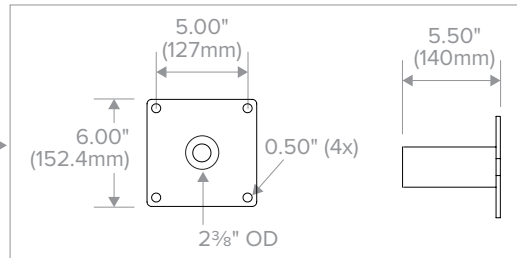
MAF (formerly SF2)

Side View   Back View
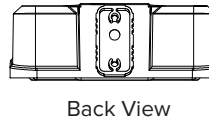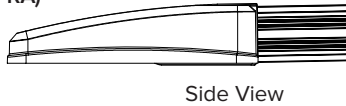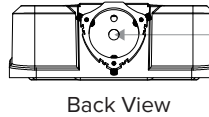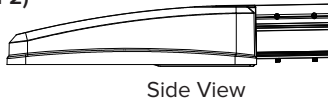
Accepts 2⅜" OD tenon, min 5" long.
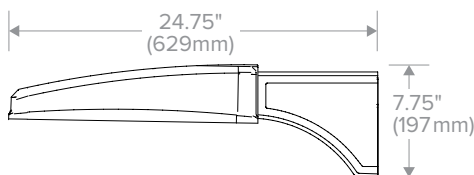
2⅜" Adjustable Knuckle (K) (formerly PK2)

18.75"
(476.3mm)

6.63"
(168.4mm)
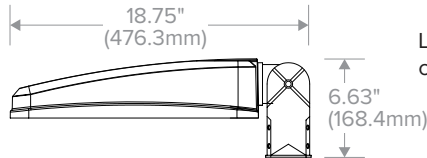
Limit to 30° tilt. Sensor, photocell and wireless controls should not be tilted above horizontal.

Wall Bracket (WB)

22.50"
(572mm)

6.00"
(152.4mm)

5.00"
(127mm)

6.00"
(152.4mm)

0.50" (4x)

2⅜" OD

5.50"
(140mm)

AD Decorative Arm

24.75"
(629mm)

7.75"
(197 mm)

4.88"
(124mm)

0.56"
(14.2mm)
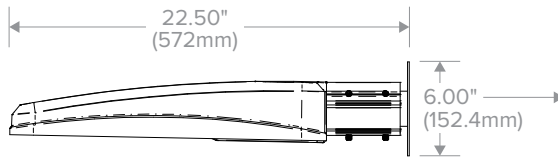
1.00"
(25.4mm)
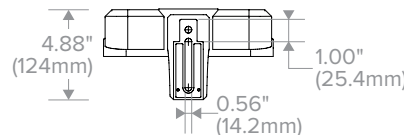
See page 9 for mounting details.

HUBBELL   HUBBELL Lighting

VIPER S
SMALL VIPER LUMINAIRE

PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

Type FR – Front Row/Auto Optic
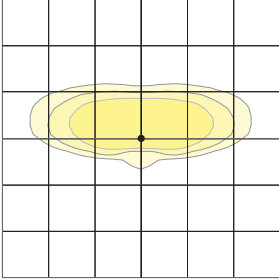
Type 2
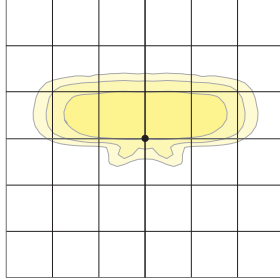
Type 3
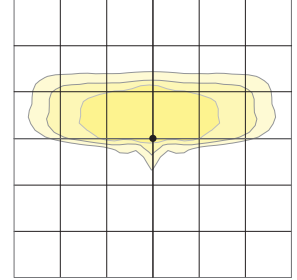
Type 4
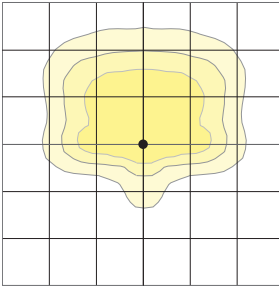
Type 4 Wide
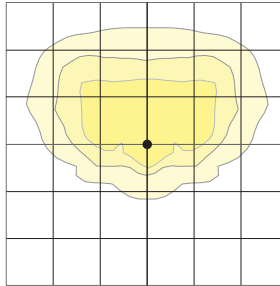
Type 5QM
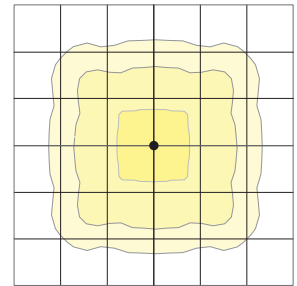
Type 5R (rectangular)
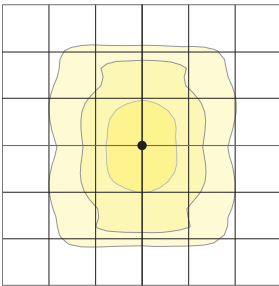
Type 5W (round wide)
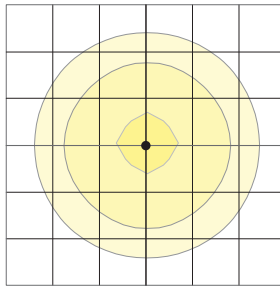
Type TC
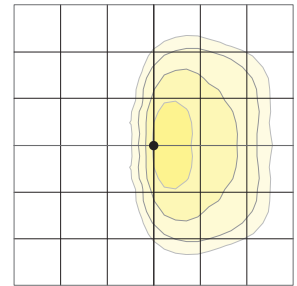
VIPER S
SMALL VIPER LUMINAIRE

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
24	1	700 mA	120	55	0.5
			277		0.2
			347		0.2
			480		0.1
36	1	525 mA	120	65	0.65
			277		0.28
			347		0.22
			480		0.16
		700 mA	120	80	0.7
			277		0.3
			347		0.2
			480		0.2
48	1	700 mA	120	110	0.9
			277		0.4
			347		0.3
			480		0.2
60	1	700 mA	120	136	1.1
			277		0.5
			347		0.4
			480		0.3

PROJECTED LUMEN MAINTENANCE						
Ambient Temp.	0	25,000	50,000	TM-21-11 60,000 [1]	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.97	0.95	0.95	0.92	>377,000

1 Projected per IESNA TM-21-11.
Data references the extrapolated performance projections for the 60 LED base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

LIFESHIELD™ CIRCUIT

Protects luminaire from excessive temperature. The device activates at a specific, factory-preset temperature and progressively reduces power over a finite temperature range. Operation is smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply or faulty wiring connection to the drivers. The device can co-exist with other 0–10V control devices (occupancy sensors, external dimmers, etc.)

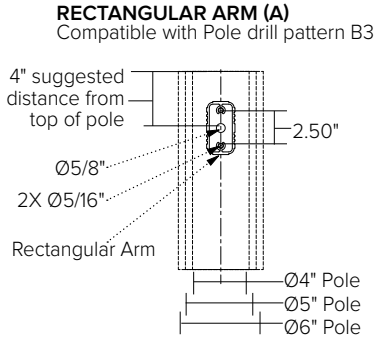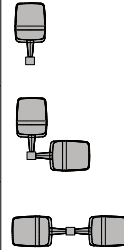## ADDITIONAL INFORMATION

ROTATION OPTIONS

LEFT ROTATED OPTIC   RIGHT ROTATED OPTIC
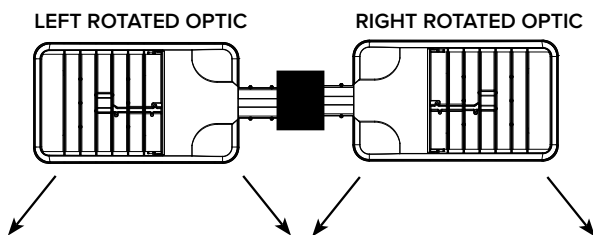
VIPER S
SMALL VIPER LUMINAIRE

ADDITIONAL INFORMATION (CONTINUED)

DRILL PATTERN

RECTANGULAR ARM (A)
Compatible with Pole drill pattern B3

4" suggested distance from top of pole

2.50"

Ø5/8"

2X Ø5/16"

Rectangular Arm

Ø4" Pole
Ø5" Pole
Ø6" Pole

EPA

Config.	EPA
1	.67
2 @ 90°	1.06
2 @ 180°	1.34

Config.	EPA
3 @ 120°	1.68
3 @ 90°	1.73
4 @ 90°	2.12
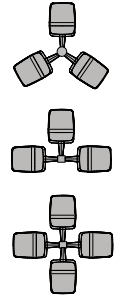
TENON TOP POLE BRACKET ACCESSORIES (ORDER SEPARATELY)
(2 3/8" OD tenon)

| TENON TOP POLE BRACKET ACCESSORIES (Order Separately)	
☐ **SETAVP-XX**	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
☐ **RETAVP-XX**	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
☐ **SETA2XX**	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
☐ **RETA2XX**	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only

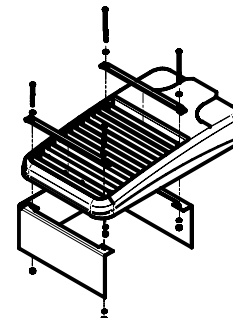### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES
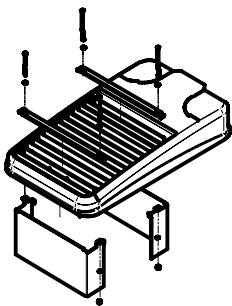
HSS/VP-S/90-FB/XXX
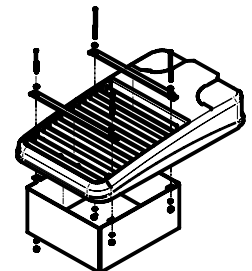90° shield front or back
(2 shields shown)
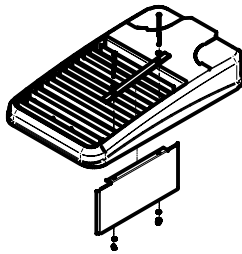
HSS/VP-S/90-LR/XXX
90° shield left or right
(1 shield shown in left orientation)
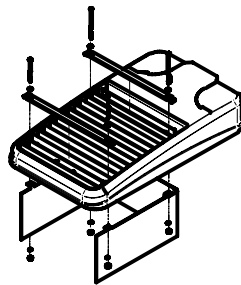
HSS/VP-S/270-FB/XXX
270° shield front or back
(1 shield shown in back orientation)

HSS/VP-S/270-LR/XXX
270° shield left or right
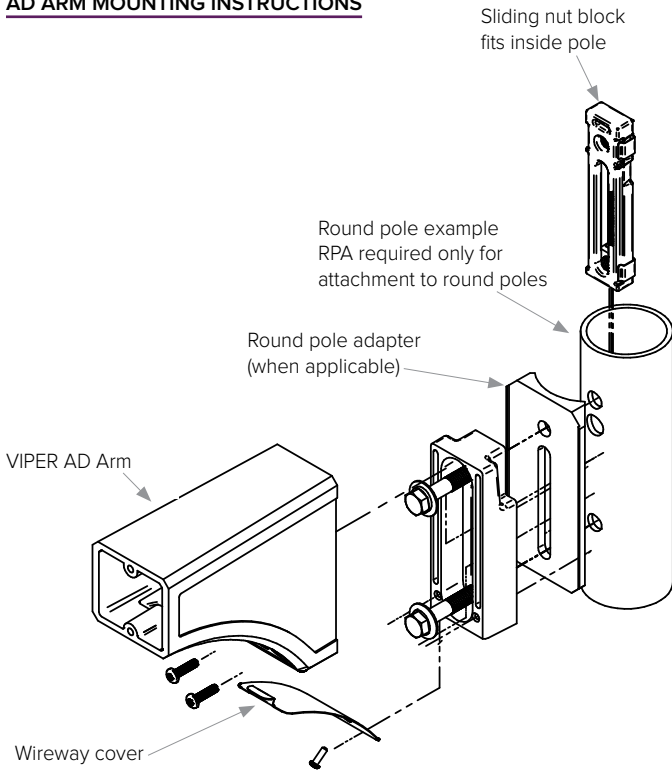(1 shield shown in right orientation)

HSS/VP-S/360/XXX
Full shield
(1 shield shown)

HUBBELL **HUBBELL Lighting**

VIPER S
SMALL VIPER LUMINAIRE

ADDITIONAL INFORMATION (CONTINUED)

AD ARM MOUNTING INSTRUCTIONS

Sliding nut block fits inside pole

Round pole example
RPA required only for attachment to round poles

Round pole adapter (when applicable)

VIPER AD Arm

Wireway cover

DECORATIVE ARM (AD)
Compatible with pole drill pattern S2

POLE TOP

3.875

.875

3.5

Ø.562 HOLE

Ø.562 3 HOLES

HUBBELL Lighting