SECURITY LIGHTING™

VIPER S SERIES
Small Viper Luminaire

BEACON
design . performance . technology

OPTICS
STRIKE

SPECIFICATIONS

Intended Use:

The Beacon Viper luminaire is available with a wide choice of different LED Wattage configurations and optical distributions designed to replace HID lighting up to 400W MH or HPS.

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.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- 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.
- Two-piece silicone and micro-cellular polyurethane foam gasket ensures a weather-proof seal around each individual LED.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV), or 347V or 480V input.
- 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 shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Surge protection - 20kA.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be 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 shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- 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.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see www.beaconproducts.com/products/energeni).
- In addition, Viper can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: www.hubbelllighting.com/sitesync

Installation:

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

Finish:

- 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 3000 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.

Certifications/Ratings:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details:
http://www.designlights.org/QPL
- Certified to UL 1598, UL 8750 and CSA C22.2 No.250.0
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://www.beaconproducts.com/products/vipersmall

Warranty:

Five year limited warranty for more information visit: www.hubbelllighting.com/resources/warranty
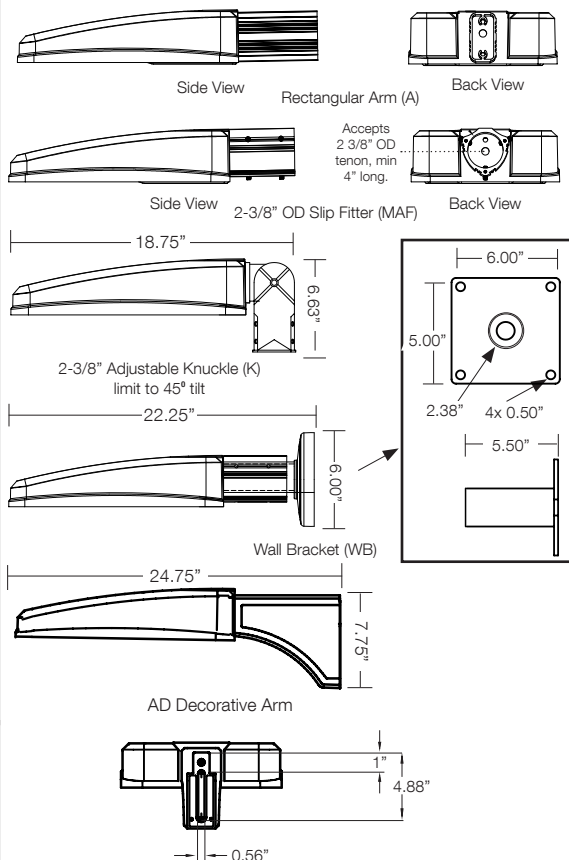
PRODUCT IMAGE(S)

DIMENSIONS

A	B	C	Weight:	EPA
21.75" (552 mm)	16.75" (425 mm)	11.25" (286 mm)	15.0 lbs (6.8 kg)	.67 ft^2

MOUNTING OPTIONS

Side View
Rectangular Arm (A)
Back View

Side View
2-3/8" OD Slip Fitter (MAF)
Accepts 2 3/8" OD tenon, min 4" long.
Back View

18.75"
6.63"
2-3/8" Adjustable Knuckle (K) limit to 45⁰ tilt

22.25"
6.00"
Wall Bracket (WB)

6.00"
5.00"
2.38" 4x 0.50"
5.50"

24.75"
7.75"
AD Decorative Arm

1"
4.88"
0.56"

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ORDERING INFORMATION

ORDERING EXAMPLE: VPS/24L-55/4K7/4W/UNV/A/DBT/7PR-TL/GENI-04/BC

VPS						
SERIES	**LED ENGINE**	**CCT/CRI[7]**	**ROTATION**	**VOLTAGE**	**COLOR**	**OPTIONS**

SERIES
VPS Viper

LED ENGINE
- 24L-55   55W, LED array
- 36L-65   65W, LED array
- 36L-80   80W, LED array
- 48L-110   110W, LED array
- 60L-136   136W, LED array

CCT/CRI[7]
- 3K7   3000K, 70 CRI
- 4K7   4000K, 70 CRI
- 5K7   5000K, 70 CRI

DISTRIBUTION
- FR   Type 1/Front Row
- 2   Type 2
- 3   Type 3
- 4   Type 4
- 4W   Type 4 Wide
- 5QM   Type 5QM
- 5R   Type 5R (rectangular)
- 5W   Type 5W (round wide)

ROTATION
- Leave blank for no rotation
- L[5]   Optic rotation left
- R[5]   Optic rotation right

VOLTAGE
- UNV   120-277V
- 120   120V
- 208   208V
- 240   240V
- 277   277V
- 347   347V
- 480   480V

MOUNTING
- A   Rectangular Arm (formerly RA) for square or round pole
- MAF   Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
- K   Knuckle (formerly PK2) limit to 45⁰ tilt or 2-3/8" OD horizontal arm or vertical tenon
- WB   Wall Bracket
- AD   Universal Arm for square pole
- AD3   Universal Arm for 2.4"-4.1" round pole
- AD4   Universal Arm for 4.2" -5.3" round pole
- AD5   Universal Arm for 5.5" -5.9" round pole
- AD6   Universal Arm for 6.0"-6.5" round pole

COLOR
- DBT   Dark Bronze Textured
- BMT   Black Matte Textured
- PS   Platinum Silver Smooth
- WHT   White Textured
- CC   Custom Color (RAL#)

OPTIONS
- F   Fusing
- BSP   Bird Spikes
- BC   Backlight control (limited to Type 4W only)

CONTROL OPTIONS
- 7PR   7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC   7-Pin Receptacle w/Shorting Cap
- 7PR-TL   7-Pin Receptacle w/Twist Lock photo control
- SCP/_F[1,2,6]   Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
- WSP/_F[1,2]   WASP Occupancy Sensor w/ daylight control (347 or 480 volts only)
- GENI-XX[3]   ENERGENI
- SWP[1,4]   SiteSync Pre-Commission
- SWPM[1,2,4]   SiteSync Pre-Comm w/ Sensor

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 5 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

PRECOMMISSIONED SITESYNC 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 www.hubbell-automation.com/products/sitesync/ or contact Hubbell Lighting tech support at (800) 345-4928.

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

Examples: VPS/24L-55/4K7/3/UNV/A/DBT/SWP/   SiteSync only
VPS/24L-55/4K7/3/UNV/A/DBT/SWPM-40F/   SiteSync with Motion Control

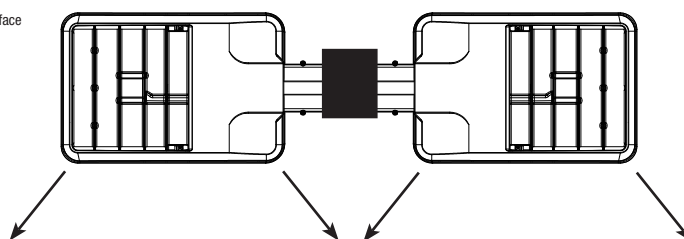**Accessories and Services (Ordered Separately)**

Catalog Number	Description
SCP-REMOTE	Remote control for SCP/_F option. Order at least one per project to program and control.
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG+	SiteSync Wireless Bridge Node

*When ordering with SiteSync, one of the interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

+ If needed, an additional Bridge Node can be ordered.

[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 1A, 2, 3, 4, 4W and 5R distributions
[6] Order at least one SCP-REMOTE per project location to program and control
[7] This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Small_LED_turtle_spec_sheet.pdf

SiteSync lighting control

SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

LEFT ROTATED OPTIC   **RIGHT ROTATED OPTIC**

HUBBELL Lighting

PERFORMANCE DATA				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	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	5406	100	1	0	2	6041	112	1	0	2	5406	100	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
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	7325	113	1	0	2	7490	115	1	0	2	6696	103	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	2	7473	115	3	0	2	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	8881	110	1	0	3	9062	112	1	0	3	8109	100	1	0	2
			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
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	12275	114	2	0	2	10984	102	1	0	2
			4	11828	110	1	0	3	12069	112	1	0	3	10800	100	1	0	2
			4W	11841	110	5	0	5	12083	112	2	0	3	11841	110	1	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	11825	109	4	0	2	12057	112	4	0	2	10789	100	4	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

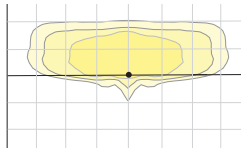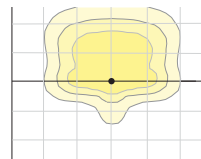## PHOTOMETRICS

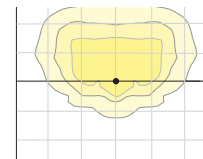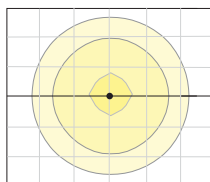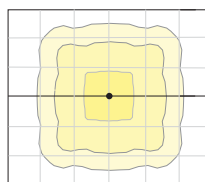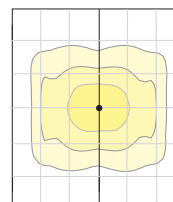Type FR - Front Row/Auto Optic
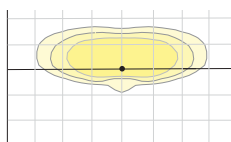
Type 2
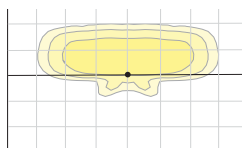
Type 3

Type 4

Type 4W

Type 5W

Type 5QM

Type 5R

[1] Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-use environment and application.

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
24	2	700 mA	120	55	0.5
			277		0.2
			347		0.2
			480		0.1
36	1	560 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

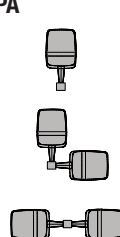| AMBIENT TEMP.	0	25,000	50,000	[1]TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1.00	0.97	0.95	0.95	0.92	>377,000

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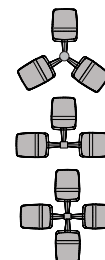
DRILL PATTERN

Compatible with Pole drill pattern B4

4" Suggested distance from top of pole

2.50"

Ø5/8"

2X Ø5/16"

Rectangular Arm

Ø4" Pole
Ø5" Pole
Ø6" Pole
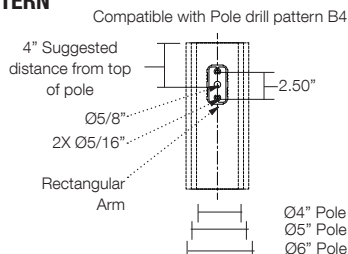
EPA

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)

Catalog Number	Description
SETA2-XX[1,2]	Square tenon adapter (4 at 90 degrees)
RETA2-XX[1,3]	Round tenon adapter (4 at 90 degrees)
TETA2-XX[1,2]	Hexagonal tenon adapter (3 at 120 degrees)

1 Replace XX with color choice, eg.: DB for Dark Bronze
2 Only for use with AD mounting option
3 Only for use with AD3 mounting option
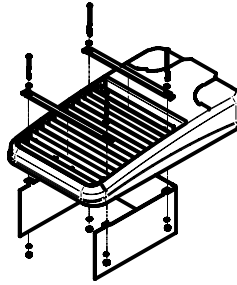
HUBBELL Lighting

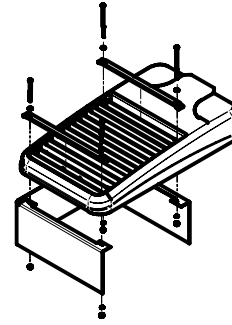## HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES
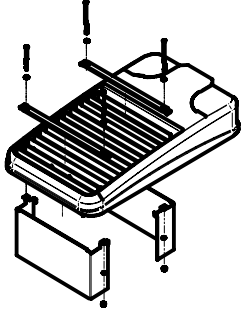
HSS/VP-S/90-FB/XXX
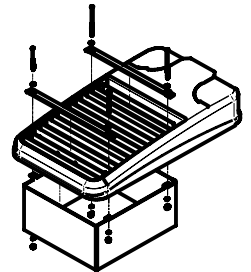90° shield front or back
(2 shields shown)
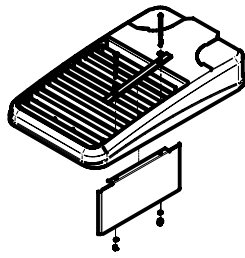
HSS/VP-S/90-LR/XXX
90° shield left or right
(1 shield shown in left orientation)

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)

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

HUBBELL Lighting