VIPER S SERIES

SMALL VIPER LUMINAIRE

Cat.#		BEACON
Job	Туре	design , performance , technology
		Approvals

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.
- The housing is designed for an optional twist lock photo control receptacle.
- Ambient operating temperature -40°C to 40°C
- 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
- \bullet Lifeshield $^{\text{TM}}$ 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 eve 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 cost while optimizing light quality 24/7. See ordering information or visit

www.hubbelllighting.com/sitesync_for more details.

Installation:

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

- IFS polyester powder-coat electro-statically applied and thermocured.
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermosetsuper TGIC polyester powder coat finish.
- The finish meets the AAMA 605.2 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.

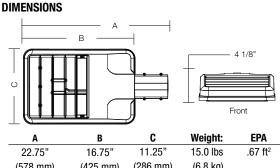
Listinas:

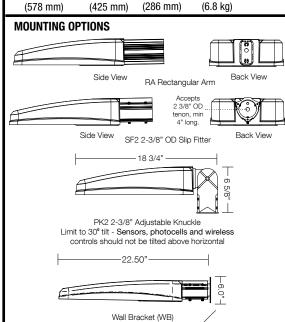
- DesignLights Consortium (DLC) qualified, consult DLC website for more details: http:// www.designlights.org/QPL
- Certified to UL 1598 and CSA C22.2 No.250.0
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://www.beaconproducts.com/products/vipersmall

Five year limited warranty for more information visit: www.hubbelllighting.com/resources/warrantv

PRODUCT IMAGE(S)







6.00"

(O

CERTIFICATIONS/LISTINGS







*3000K and warmer CCTs only

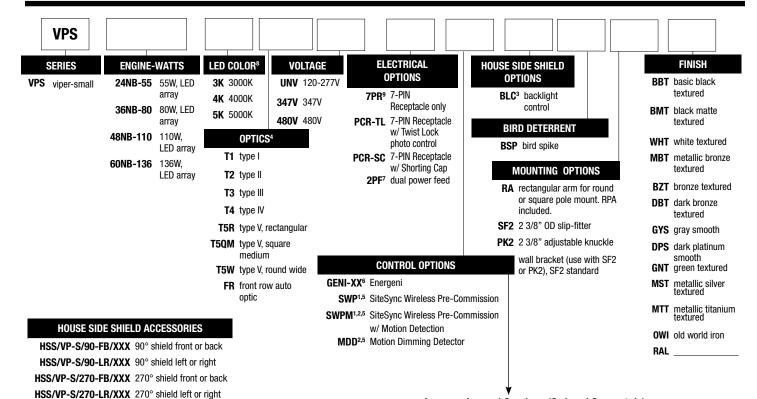


4x 0.50"



— 5 1/2"





HSS/VP-S/360/XXX Full shield (Replace XXX with notation for desired finish color)

(Refer to page 5 for shield images)

- Must specify group and zone information at time of order. See www.hubbelliighting.com/controls/sitesync for further details.

 2 Specify time delay, dimming level and mounting height.

 7 to optic only.

 7 to optic only.

 8 To rotate optics Left or right 90 degrees, specify L or R after the optical distribution example T4L.

 Not available with other wireless control or sensor options.

 8 When ordering fenergen; specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.

 7 Mot available of 374 TV or 487N inout
- table and options. Not available write sensor squares.

 Not available for 347V or 480V input.

 This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at:

 | This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at:

 | This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at:

 | This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at:
- 9 Shorting cap, phot control, or wireless control provided by others

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.HubbellLighting.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: VP-S/24NB-55/5K/T3/UNV/SWP/RA/DBT VP-S/24NB-55/5K/T3/UNV/SWPM-20F/RA/DBT

SiteSync only SiteSync with Motion Control

MDD ORDERING INFORMATION: When ordering a fixture with the motion detection option (MDD), please specify the appropriate information. These settings are specified in the ordering as shown in the example below

VP-S/24NB-55/5K/T3/UNV/MDD - 1 to 30 min. - 33% or 50% - ?? / RA/DRT High to Dim Delay Low Level Mounting Height (ft.)

LEFT ROTATED OPTIC RIGHT ROTATED OPTIC

Accessories and Services (Ordered Separately)

	7,
Catalog Number	Description
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.
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control
SW7PR+	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight
	Sensor 120-480VAC

- * 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 7pin receptacle.

Hubbell Control Solutions - Accessories (sold separately)

	` .	• /
Catalog Number	Description	HCS System
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

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

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 no interface with occupancy sensors







PERFORMANCE DATA

					5K					4K					3K			
				(5000	(5000K nominal, 70 CRI)		(4000K nominal, 70 CRI)					(3000K nominal, 70 CRI)						
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION Type	LUMENS	LPW ¹	В	U	G	LUMENS	LPW ¹	В	U	G	LUMENS	LPW ¹	В	U	G
			FR/T1	6339	114	1	0	1	6276	112	1	0	1	5389	97	1	0	1
			T2	5666	102	2	0	2	5610	101	2	0	2	4816	86	1	0	2
			T3	5610	101	1	0	2	5554	100	1	0	2	4784	86	1	0	2
24	700 mA	55 W	T4	6171	111	1	0	2	6110	109	1	0	2	5245	94	1	0	2
			T5R	6283	113	3	0	3	6221	111	3	0	3	5341	96	3	0	3
			T5QM	6171	111	3	0	1	6110	109	3	0	1	5245	94	2	0	1
			T5W	6087	109	3	0	1	6027	108	3	0	1	5201	93	3	0	1
			FR/T1	9515	114	1	0	1	9414	112	1	0	1	8083	96	1	0	1
			T2	8505	101	2	0	3	8415	100	2	0	3	7224	87	2	0	2
			T3	8415	100	2	0	2	8331	99	2	0	2	7175	86	2	0	2
36	700 mA	80 W	T4	9256	110	1	0	3	9164	109	1	0	3	7868	94	1	0	3
			T5R	9425	112	3	0	3	9331	111	3	0	3	8011	96	3	0	3
			T5QM	9257	110	3	0	1	9164	109	3	0	1	7868	94	3	0	1
			T5W	9131	109	3	0	2	9040	108	3	0	2	7801	93	3	0	2
			FR/T1	12679	114	2	0	1	15522	113	2	0	1	10777	97	1	0	1
			T2	11332	102	3	0	3	11220	101	3	0	3	9633	87	2	0	3
			T3	11220	101	2	0	3	11108	100	2	0	3	9567	86	2	0	3
48	700 mA	110 W	T4	12342	111	2	0	3	12219	110	2	0	3	10491	95	2	0	3
			T5R	12567	113	4	0	4	12441	112	4	0	4	10682	96	3	0	3
			T5QM	12342	111	3	0	2	12219	111	3	0	2	10491	95	3	0	2
			T5W	12175	110	4	0	2	12053	109	4	0	2	10402	94	4	0	2
			FR/T1	15848	116	2	0	1	15690	115	2	0	1	13471	98	2	0	1
			T2	14165	103	3	0	3	14025	102	3	0	3	12041	88	3	0	3
			T3	14025	102	3	0	3	13885	101	3	0	3	11959	87	3	0	3
60	700 mA	136 W	T4	15427	113	2	0	3	15274	111	2	0	3	13114	96	2	0	3
			T5R	15708	115	4	0	4	15259	111	4	0	4	13352	97	4	0	4
			T5QM	15427	113	4	0	2	15274	111	4	0	2	13314	96	3	0	2
			T5W	15218	111	4	0	2	15066	111	4	0	2	13002	95	4	0	2

'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-user environment and application.





PHOTOMETRICS Type II VP-S-60NB-136-5K-T2

VP-S-60NB-136-5K-T3

Type III

Type IV VP-S-60NB-136-5K-T4

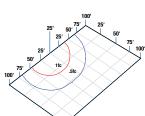


Type V Square Medium VP-S-60NB-136-5K-T5QM

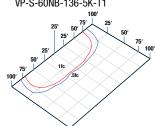
VP-S-60NB-136-5K-T5R

Type V Rectangular

Type V Round Wide VP-S-60NB-136-5K-T5W



Front Row Auto Optic / Type I VP-S-60NB-136-5K-FR VP-S-60NB-136-5K-T1



ELECTRICAL DATA

# OF LEDS	NUMBER OF Drivers	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
			120		0.5
24	2	700 mA	277 347	55	0.2
			480		0.1
			120		0.7
36	1	700 mA	277	80	0.3
30	1	700 IIIA	347	00	0.2
			480		0.2
			120		0.9
48	1	700 mA	277	110	0.4
40		700 IIIA	347	110	0.3
			480		0.2
			120		1.1
60	1	700 mA	277	136	0.5
00		700 IIIA	347	130	0.4
			480		0.3

PROJECTED LUMEN MAINTENANCE

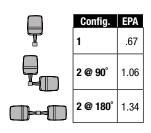
AMBIENT				¹TM-21-11		Calculated L70
TEMP.	0	25,000	50,000	60,000	100,000	(HOURS)
25°C / 77°C	1.00	0.97	0.95	0.95	0.92	>470,000

¹ Projected per IESNA TM-21-11
Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

AMBIENT TEMP	ERATURE	LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.98
40°C	104°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

EPA





Config.	EPA
3 @ 120°	1.68
3 @ 90°	1.73
4 @ 90°	2.12

DRILL PATTERN

RECTANGULAR ARM (A) Compatible with Pole drill pattern B3 4" Suggested distance from top of pole Ø5/8"· 2X Ø5/16"· Rectangular Arm Ø4" Pole -Ø5" Pole -Ø6" Pole



