

# VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE | **STRIKE** OPTICS

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, wiSCAPE and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped



See Certification Specifications

## CONTROL TECHNOLOGY

**NX** DISTRIBUTED™  
INTELLIGENCE

**wiSCAPE™**

## SPECIFICATIONS

### CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

### OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles.
- All mounting hardware included

### INSTALLATION (CONTINUED)

- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater than 20ft, a vibration damper is recommended

### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard

### CONTROLS (CONTINUED)

- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor
- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

### CERTIFICATIONS

- Meets the qualifications for DLC Premium
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#).

### WARRANTY

- 5 year warranty
- See [HLI Commercial and Industrial Outdoor Lighting Warranty](#) for additional information



### KEY DATA

Lumen Range	5,000–80,000
Wattage Range	36–600
Efficacy Range (LPW)	92–155
Weight lbs. (kg)	13.7-30.9 (6.2-13.9)

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## MICROSTRIKE OPTICS – ORDERING GUIDE

Example: VP-2-320L-145-3K7-2-R-UNV-A3-BLT

CATALOG #

VP									
Series	Optic Platform	Size	Light Engine		CCT/CRI		Distribution	Optic Rotation	Voltage
VP Viper	Micro Strike	1 Size 1	160L-35 <sup>6</sup>	5500 lumens	AP	AP-Amber Phosphor Converted	2 Type 2	L Optic rotation left	UNV 120-277V
			160L-50 <sup>6</sup>	7500 lumens			3 Type 3	R Optic rotation right	120 120V
			160L-75	10000 lumens	27K8	2700K, 80 CRI	4F Type 4 Forward		208 208V
			160L-100	12500 lumens	3K7	3000K, 70 CRI	4W Type 4 Wide		240 240V
			160L-115	15000 lumens			5QM Type 5 Square Medium		277 277V
			160L-135	18000 lumens	3K8	3000K, 80 CRI	5QW Type 5 Square Wide		347 347V
			160L-160	21000 lumens	35K8	3500K, 80 CRI			480 480V
		2 Size 2	320L-145	21000 lumens	3K9	3000K, 90 CRI			
			320L-170	24000 lumens	4K7	4000K, 70 CRI			
			320L-185	27000 lumens	4K8	4000K, 80 CRI			
			320L-210	30000 lumens	4K9	4000K, 90 CRI			
			320L-235	33000 lumens	5K7	5000K, 70 CRI			
			320L-255	36000 lumens	5K8	5000K, 80 CRI			
			320L-315 <sup>6</sup>	40000 lumens					
		3 Size 3	480L-285	40000 lumens					
			480L-320	44000 lumens					
			480L-340	48000 lumens					
			480L-390	52000 lumens					
			480L-425	55000 lumens					
			480L-470	60000 lumens					
		4 Size 4	720L-435	60000 lumens					
			720L-475	65000 lumens					
			720L-515	70000 lumens					
			720L-565 <sup>6</sup>	75000 lumens					
			720L-600 <sup>6</sup>	80000 lumens					
			CLO	Custom Lumen Output <sup>1</sup>					

Mounting	Color	Options	Network Control Options
A Arm mount for square pole/flat surface	BLT Black Matte Textured	F Fusing	NXSPW-14F NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>1,3,4</sup>
A_ Arm mount for round pole <sup>2</sup>	BLS Black Gloss Smooth	2PF Dual Power Feed	NXSPW-40F NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>1,3,4</sup>
ASQU Universal arm mount for square pole	DBT Dark Bronze Matte Textured	2DR Dual Driver	NXSP-14F NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>3,4</sup>
A_U Universal arm mount for round pole <sup>2</sup>	DBS Dark Bronze Gloss Smooth	TE Tooless Entry	NXSP-40F NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>3,4</sup>
AAU Adjustable arm for pole mounting (universal drill pattern)	GTT Graphite Matte Textured	BC Backlight Control	NXWE NX Wireless Enabled (module + radio) <sup>3,4</sup>
AA_U Adjustable arm mount for round pole <sup>2</sup>	LGS Light Grey Gloss Smooth	TB Terminal Block	WIR wiSCAPE® In-Fixture Module <sup>3,4</sup>
ADU Decorative upswept Arm (universal drill pattern)	LGT Light Grey Gloss Textured		WIRSC wiSCAPE® Module and Occupancy Sensor <sup>3,4</sup>
AD_U Decorative upswept arm mount for round pole <sup>2</sup>	PSS Platinum Silver Smooth		<b>Stand Alone Sensors</b>
MAF Mast arm fitter for 2-3/8" OD horizontal arm	WHT White Matte Textured		BTS-14F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>4</sup>
K Knuckle	WHS White Gloss Smooth		BTS-40F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>4</sup>
T Trunnion	VGT Verde Green Textured		BTSO-12F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height <sup>4</sup>
WB Wall Bracket, horizontal tenon with MAF	<b>Color Option</b>		7PR 7-Pin Receptacle <sup>4</sup>
WM Wall mount bracket with decorative upswept arm	CC Custom Color		7PR-SC 7-Pin Receptacle with shorting cap <sup>4</sup>
WA Wall mount bracket with adjustable arm			3PR 3-Pin twist lock <sup>4</sup>
			3PR-SC 3-Pin receptacle with shorting cap <sup>4</sup>
			3PR-TL 3-Pin PCR with photocontrol <sup>4</sup>
			<b>Programmed Controls</b>
			ADD AutoDim Timer Based Dimming <sup>4</sup>
			ADT AutoDim Time of Day Dimming <sup>4</sup>
			<b>Photocontrols</b>
			PC Button Photocontrol <sup>4,7</sup>

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information

2 – Replace “\_” with “2” for 2.5”-3.4” OD pole, “3” for 3.5”-4.13” OD pole, “4” for 4.18”-5.25” OD pole, “5” for 5.5”-6.5” OD pole

3 – Networked Controls cannot be combined with other control options

4 – Not available with 2PF option

5 – Not available with Dual Driver option

6 – Some voltage restrictions may apply when combined with controls

7 – Not available with 480V

# VIPER Area/Site

VIPER LUMINAIRE

## STRIKE OPTIC – ORDERING GUIDE

Example: VP-ST-1-36L-39-3K7-2-UNV-A-BLT

CATALOG #

VP							
Series	Optic Platform	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
VP Viper	ST Strike	1 Size 1	<b>36L-39<sup>8</sup></b> 5500 lumens <b>36L-55<sup>8</sup></b> 7500 lumens <b>36L-85</b> 10000 lumens <b>36L-105</b> 12500 lumens <b>36L-120</b> 14000 lumens <b>72L-115</b> 15000 lumens <b>72L-145</b> 18000 lumens <b>72L-180</b> 21000 lumens <b>72L-210</b> 24000 lumens <b>72L-240</b> 27000 lumens <b>108L-215<sup>8</sup></b> 27000 lumens <b>108L-250</b> 30000 lumens <b>108L-280</b> 33000 lumens <b>108L-325</b> 36000 lumens <b>108L-365</b> 40000 lumens <b>162L-320</b> 40000 lumens <b>162L-365<sup>10</sup></b> 44000 lumens <b>162L-405</b> 48000 lumens <b>162L-445</b> 52000 lumens <b>162L-485</b> 55000 lumens <b>162L-545<sup>8</sup></b> 60000 lumens <b>CLO</b> Custom Lumen Output <sup>1</sup>	<b>AM</b> monochromatic amber, 595nm  <b>27K8</b> 2700K, 80 CRI <b>3K7</b> 3000K, 70 CRI <b>3K8</b> 3000K, 80 CRI <b>3K9</b> 3000K, 90 CRI <b>35K8</b> 3500K, 80 CRI <b>4K7</b> 4000K, 70 CRI <b>4K8</b> 4000K, 80 CRI <b>4K9</b> 4000K, 90 CRI <b>5K7</b> 5000K, 70 CRI <b>5K8</b> 5000K, 80 CRI	<b>FR</b> Auto Front Row <b>2</b> Type 2 <b>3</b> Type 3 <b>4F</b> Type 4 Forward <b>4W</b> Type 4 Wide <b>5QN</b> Type 5 Square Narrow <b>5QM</b> Type 5 Square Medium <b>5QW</b> Type 5 Square Wide <b>5W</b> Type 5 Wide (Round) <b>5RW</b> Type 5 Rectangular <b>C</b> Corner Optic <b>TC</b> Tennis Court Optic	<b>L</b> Optic rotation left  <b>R</b> Optic rotation right	<b>UNV</b> 120-277V <b>120</b> 120V <b>208</b> 208V <b>240</b> 240V <b>277</b> 277V <b>347</b> 347V <b>480</b> 480V
		2 Size 2					
		3 Size 3					
		4 Size 4					

use UNV in lieu of the 277V fixture

Mounting	Color	Options	Network Control Options
<b>A</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>F</b> Fusing	<b>NXSPW-14F</b> NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>1,4,5</sup>
<b>A<sub>U</sub></b> Arm mount for round pole <sup>3</sup>	<b>BLS</b> Black Gloss Smooth	<b>E</b> Battery Backup <sup>1,2,7,8,9</sup>	<b>NXSPW-40F</b> NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>1,4,5</sup>
<b>ASQU</b> Universal arm mount for square pole	<b>DBT</b> Dark Bronze Matte Textured	<b>2PF</b> Dual Power Feed	<b>NXSP-14F</b> NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>4,5</sup>
<b>A<sub>U</sub></b> Universal arm mount for round pole <sup>3</sup>	<b>DBS</b> Dark Bronze Gloss Smooth	<b>2DR</b> Dual Driver	<b>NXSP-40F</b> NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>4,5</sup>
<b>AAU</b> Adjustable arm for pole mounting (universal drill pattern)	<b>GTT</b> Graphite Matte Textured	<b>TE</b> Toolless Entry	<b>NXWE</b> NX Wireless Enabled <sup>4,5</sup>
<b>AA<sub>U</sub></b> Adjustable arm mount for round pole <sup>3</sup>	<b>LGS</b> Light Grey Gloss Smooth	<b>BC</b> Backlight Control	<b>WIR</b> wiSCAPE® In-Fixture Module <sup>4,5</sup>
<b>ADU</b> Decorative upswept Arm (universal drill pattern)	<b>LGT</b> Light Grey Gloss Textured	<b>TB</b> Terminal Block	<b>WIRSC</b> wiSCAPE® Module and Occupancy Sensor <sup>4,5</sup>
<b>AD<sub>U</sub></b> Decorative upswept arm mount for round pole <sup>3</sup>	<b>PSS</b> Platinum Silver Smooth		<b>Stand Alone Sensors</b>
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured		<b>BTS-14F</b> Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>5</sup>
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth		<b>BTS-40F</b> Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>5</sup>
<b>T</b> Trunnion	<b>VG</b> Verde Green Textured		<b>BTSO-12F</b> Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height <sup>5</sup>
<b>WB</b> Wall Bracket, horizontal tenon with MAF	<b>Color Option</b>		<b>7PR</b> 7-Pin Receptacle <sup>5</sup>
<b>WM</b> Wall mount bracket with decorative upswept arm	<b>CC</b> Custom Color		<b>7PR-SC</b> 7-Pin Receptacle with shorting cap <sup>5</sup>
<b>WA</b> Wall mount bracket with adjustable arm			<b>3PR</b> 3-Pin twist lock <sup>5</sup>
			<b>3PR-SC</b> 3-Pin receptacle with shorting cap <sup>5</sup>
			<b>3PR-TL</b> 3-Pin PCR with photocontrol <sup>5</sup>
			<b>Programmed Controls</b>
			<b>ADD</b> AutoDim Timer Based Dimming <sup>5</sup>
			<b>ADT</b> AutoDim Time of Day Dimming <sup>5</sup>
			<b>Photocontrols</b>
			<b>PC</b> Button Photocontrol <sup>5,6</sup>

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information  
 2 – Battery temperature rating -20C to 55C  
 3 – Replace “\_” with “2” for 2.5”-3.4” OD pole, “3” for 3.5”-4.13” OD pole, “4” for 4.18”-5.25” OD pole, “5” for 5.5”-6.5” OD pole  
 4 – Networked Controls cannot be combined with other control options  
 5 – Not available with 2PF option  
 6 – Not available with 480V  
 7 – Not available with 347 or 480V  
 8 – Not available with Dual Driver option

9 – Only available in Size 1 housing  
 10 – Some voltage restrictions may apply when combined with controls

# VIPER Area/Site

VIPER LUMINAIRE

## ORDERING GUIDE (CONTINUED)

CATALOG #

Accessory Type	Size	Option	Color	Hubbell Control Solutions — Accessories (Sold Separately)
<b>SHD</b> Shield	1 Size 1 2 Size 2 3 Size 3 4 Size 4	<b>HSS-90-B</b> House Side Shield 90° Back <b>HSS-90-F</b> House Side Shield 90° Front <b>HSS-90-S</b> House Side Shield 90° Side <b>HSS-270-BSS</b> House Side Shield 270° Back/Side/Side <b>HSS-270-FSS</b> House Side Shield 270° Front/Side/Side <b>HSS-270-FSB</b> House Side Shield 270° Front/Side/Back <b>HSS-360</b> House Side Shield 360° <b>BC</b> Back Light Control	<b>BLS</b> Black Gloss Smooth <b>BLT</b> Black Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Gray Gloss Smooth <b>PSS</b> Platinum Silver Smooth <b>WHS</b> White Gloss Smooth <b>WHT</b> White Matte Textured <b>VGT</b> Green Landscape Decorative <b>LEG</b> Legacy Colors	<b>NX Distributed Intelligence™</b> <input type="checkbox"/> <b>NXOFM-1R1D-UNV</b> On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120–480VAC <b>wiSCAPE® Lighting Control</b> <input type="checkbox"/> <b>WIR-RME-L</b> On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110–480VAC <input type="checkbox"/> <b>SCP-REMOTE</b> Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
<b>MTG</b> Mounting		<b>A</b> Arm Mount for square pole/flat surface <b>ASQU</b> Universal Arm Mount for square pole <b>AAU</b> Adjustable Arm for pole mounting <b>ADU</b> Decorative upswept Arm <b>RPA</b> Round Pole Adapter <b>MAF</b> Mast Arm Fitter for 2-3/8" OD horizontal arm <b>K</b> Knuckle <b>T</b> Trunnion <b>WB</b> Wall Bracket (compatible with universal arm mounts)	<b>WHS</b> White Gloss Smooth <b>WHT</b> White Matte Textured <b>VGT</b> Green Landscape Decorative <b>LEG</b> Legacy Colors	
<b>MSC</b> Miscellaneous		<b>BIRD SPK</b> Bird Spike	<b>CC</b> Custom Color	

## CONTROLS

wiSCAPE™ NX DISTRIBUTED INTELLIGENCE™

Control Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	On/Off Control	Programming	Pair with Sensor	Sensor Mounting Height
<a href="#">NXWE</a>	—	✓	✓	—	—	✓	✓	—	—
<a href="#">NXSPW_F</a>	<a href="#">NXSM-P</a>	✓	✓	✓	✓	✓	✓	—	14ft, 40ft
<a href="#">NXSP_F</a>	<a href="#">NXSM-P</a>	—	—	✓	✓	✓	—	—	14ft, 40ft
<a href="#">BTSO12F</a>	<a href="#">BTSMP-OMNI</a>	—	—	✓	✓	✓	Bluetooth	—	12ft
<a href="#">BTS_F</a>	<a href="#">BTSMP</a>	—	—	✓	✓	—	—	—	14ft, 40ft
<a href="#">ADD</a>	—	—	✓	—	—	✓	—	✓	—
<a href="#">ADT</a>	—	—	✓	—	—	✓	—	✓	—
<a href="#">7PR</a>	—	Paired with external control	Paired with external control	—	Paired with external control	Paired with external control	—	✓	—
<a href="#">7PR-SC</a>	—	—	—	—	—	—	—	✓	—
<a href="#">3PR</a>	—	—	—	—	—	Paired with external control	—	✓	—
<a href="#">3PR-SC</a>	—	—	—	—	—	—	—	✓	—
<a href="#">3PR-TL</a>	—	—	—	—	✓	✓	—	✓	—
<a href="#">WIR</a>	—	✓	✓	—	✓	✓	Gateway	—	—
<a href="#">WIRSC</a>	<a href="#">BTSMP</a>	✓	✓	✓	✓	✓	Gateway	—	14ft, 40ft



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## DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on [www.hubbellighting.com](http://www.hubbellighting.com)

## PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L <sub>70</sub> (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	—	0.841	—
3000K	0.977	0.861	0.647
3500K	—	0.900	—
4000K	1	0.926	0.699
5000K	1	0.937	0.791
Monochromatic Amber Multiplier			
Amber	0.250		

Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	—	0.859	—
3000K	0.941	0.912	0.703
3500K	—	0.906	—
4000K	1	0.894	0.734
5000K	1	0.879	0.711
Monochromatic Amber Multiplier			
Amber	0.255		



# VIPER Area/Site

VIPER LUMINAIRE

DATE:

LOCATION:

TYPE:

PROJECT:

CATALOG #:

## ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

# VIPER Area/Site

VIPER LUMINAIRE

## ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	115
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	113.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	1.00
208	0.19	0.26	0.41	0.50	0.58
240	0.16	0.23	0.35	0.44	0.50
277	0.14	0.20	0.31	0.38	0.43
347	0.11	0.16	0.24	0.30	0.35
480	0.08	0.11	0.18	0.22	0.25

# OF LEDS	72				
NOMINAL WATTAGE	120	145	180	210	215
SYSTEM POWER (W)	120.9	143.2	179.4	210.2	214.8
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.96	1.21	1.50	1.75	2.00
208	0.55	0.70	0.87	1.01	1.15
240	0.48	0.60	0.75	0.88	1.00
277	0.42	0.52	0.65	0.76	0.87
347	0.33	0.42	0.52	0.61	0.69
480	0.24	0.30	0.38	0.44	0.50

# OF LEDS	108				
NOMINAL WATTAGE	240	250	280	320	325
SYSTEM POWER (W)	241.7	250.8	278.3	322.1	324.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.79	2.08	2.33	2.71	3.04
208	1.03	1.20	1.35	1.56	1.75
240	0.90	1.04	1.17	1.35	1.52
277	0.78	0.90	1.01	1.17	1.32
347	0.62	0.72	0.81	0.94	1.05
480	0.45	0.52	0.58	0.68	0.76

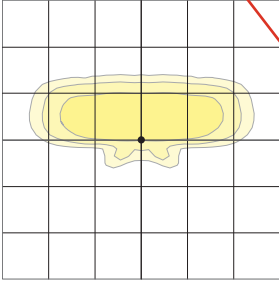
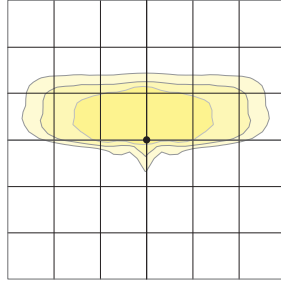
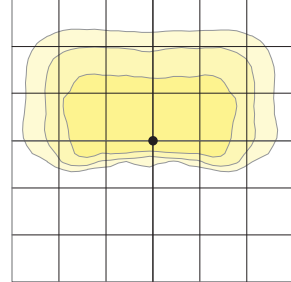
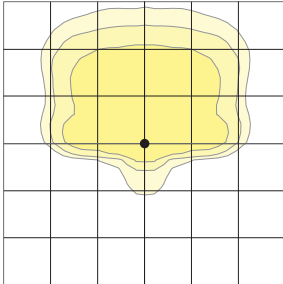
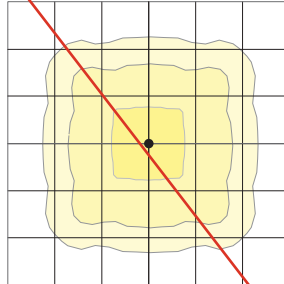
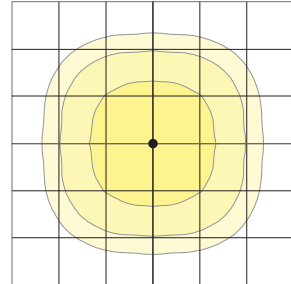
# OF LEDS	162				
NOMINAL WATTAGE	365	405	445	485	545
SYSTEM POWER (W)	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.67	3.38	3.71	4.04	4.54
208	1.54	1.95	2.14	2.33	2.62
240	1.33	1.69	1.85	2.02	2.27
277	1.16	1.46	1.61	1.75	1.97
347	0.92	1.17	1.28	1.40	1.57
480	0.67	0.84	0.93	1.01	1.14

# VIPER Area/Site

VIPER LUMINAIRE

## MICRO STRIKE 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 2**

**Type 3**

**Type 4 Wide**

**Type 4F**

**Type 5QM**

**Type 5QW**


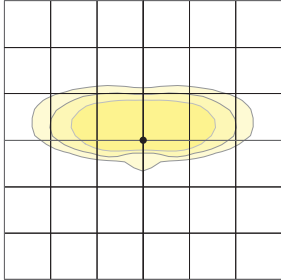
# VIPER Area/Site

VIPER LUMINAIRE

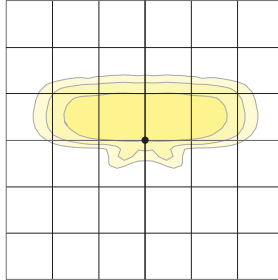
## OPTIC STRIKE PHOTOMETRY

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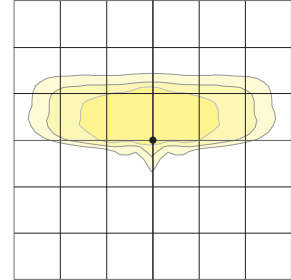
**Type FR – Front Row/Auto Optic**



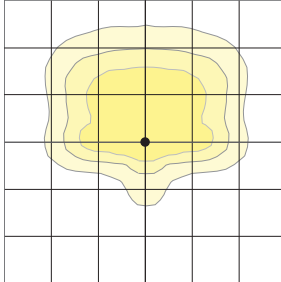
**Type 2**



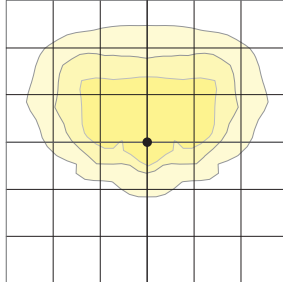
**Type 3**



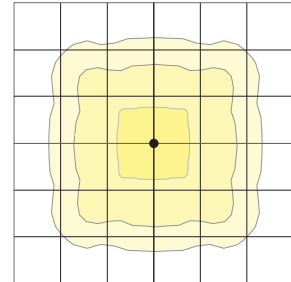
**Type 4 Forward**



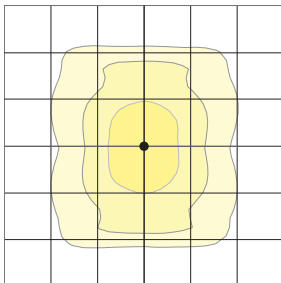
**Type 4 Wide**



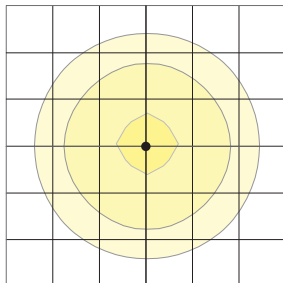
**Type 5QM**



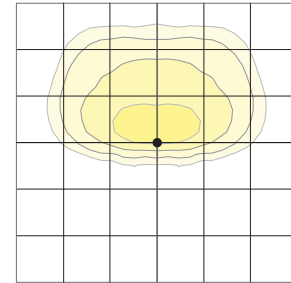
**Type 5R (rectangular)**



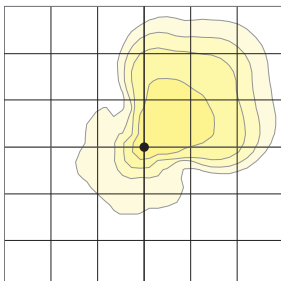
**Type 5W (round wide)**



**Type TC**



**Type Corner**

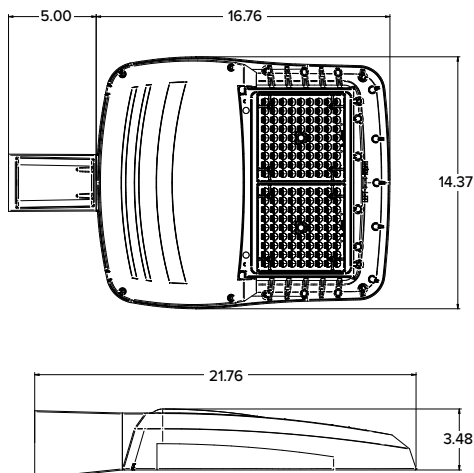


# VIPER Area/Site

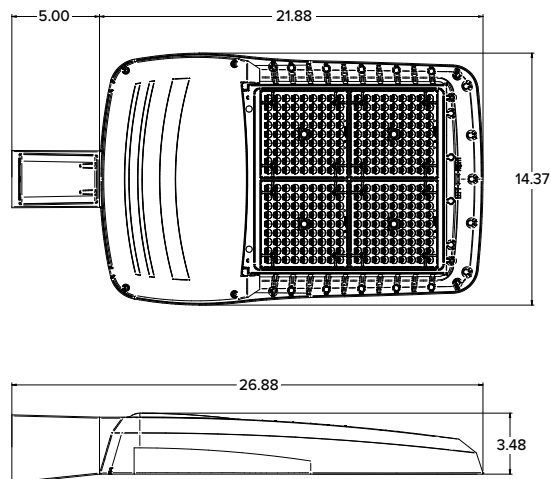
VIPER LUMINAIRE

## DIMENSIONS

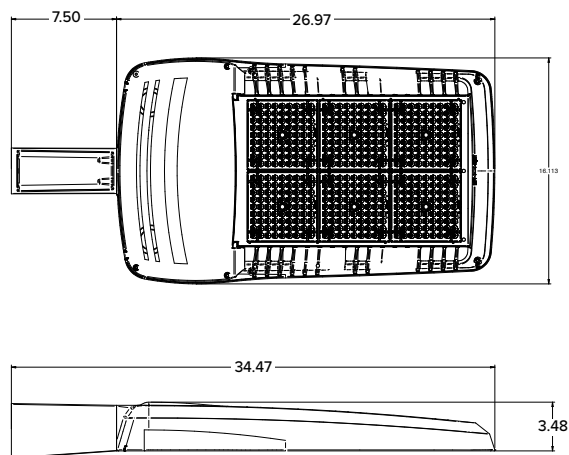
### SIZE 1



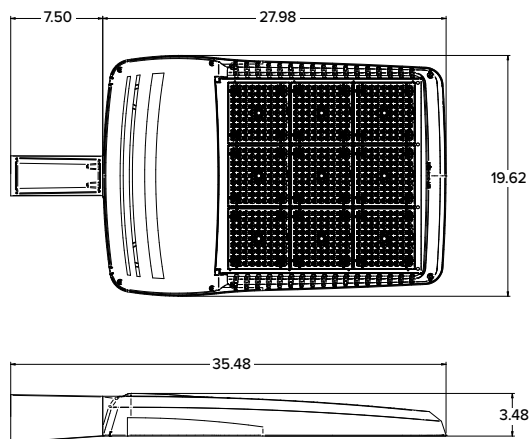
### SIZE 2









### SIZE 3



### SIZE 4



	EPA				Config.
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9



# VIPER Area/Site

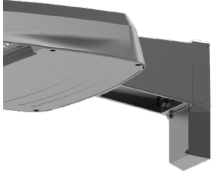
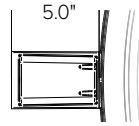
VIPER LUMINAIRE

## MOUNTING



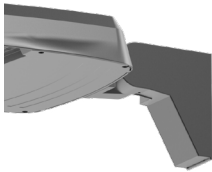
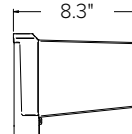
### ASQ-STRAIGHT ARM MOUNT

Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor B3 drill pattern. For round poles add applicable suffix (2/3/4/5)



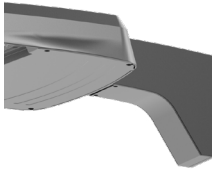
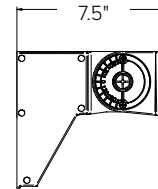
### ASQU-UNIVERSAL ARM MOUNT

Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and Hubbell drill pattern S2. For round poles add applicable suffix (2/3/4/5)



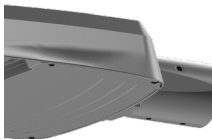
### AAU-ADJUSTABLE ARM FOR POLE MOUNTING

Rotatable arm mounts directly to pole. Compatible with drill patterns from 2.5" to 4.5" and Hubbell drill pattern S2. For round poles add applicable suffix (2/3/4/5). Rotatable in 15° aiming angle increments. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



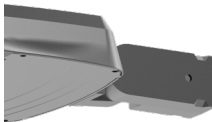
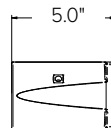
### ADU-DECORATIVE UPSWEPT ARM

Upswept Arm compatible with drill patterns from 2.5" to 4.5". For round poles add applicable suffix (2/3/4/5).



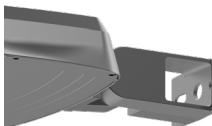
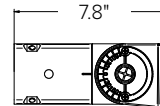
### MAF-MAST ARM FITTER

Fits 2-3/8" OD horizontal tenons.



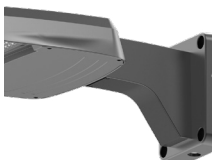
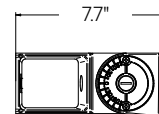
### K-KNUCKLE

Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



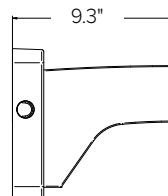
### T-TRUNNION

Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



### WM-WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.



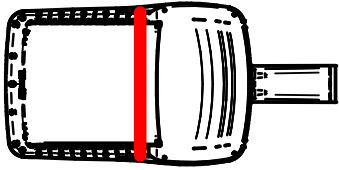
# VIPER Area/Site

VIPER LUMINAIRE

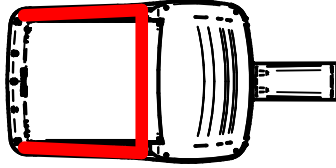
## ADDITIONAL INFORMATION (CONTINUED)

### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

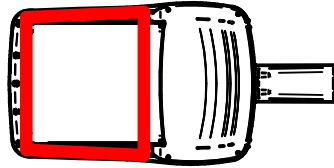
VPR2x HSS-90-B-xx



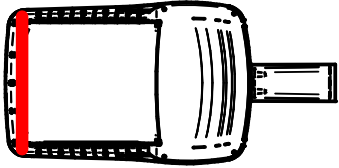
VPR2x HSS-270-BSS-xx



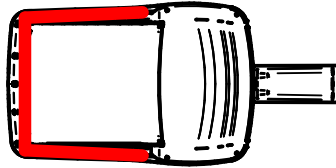
VPR2x HSS-360-xx



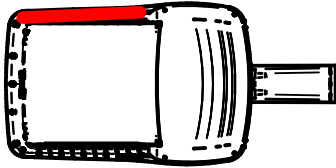
VPR2x HSS-90-F-xx



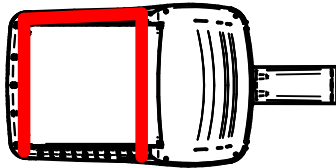
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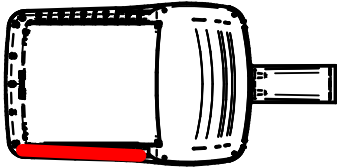
VPR2x HSS-90-S-xx



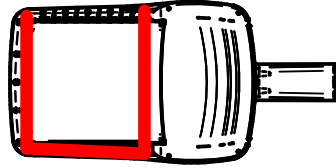
VPR2x HSS-270-FSB-xx



VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx



# VIPER Area/Site

VIPER LUMINAIRE

## ADDITIONAL INFORMATION (CONTINUED)

### PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

## USE OF TRADEMARKS AND TRADE NAMES

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# RSA-B-S SERIES POLES ROUND STRAIGHT ALUMINUM

Cat.#

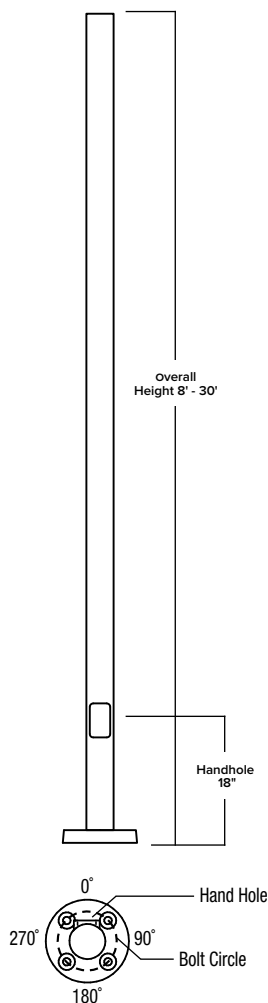
Job

Type

Approvals



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## APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

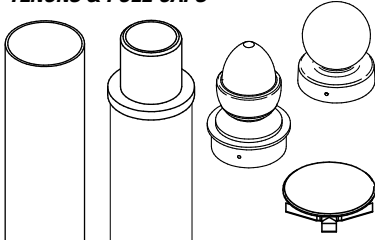
## CONSTRUCTION

- SHAFT:** One-piece straight aluminum with round cross section; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum.
- BOLT COVERS:** Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP OR FINALS:** Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE:** Aluminum hand hole frame; Mounting provisions for grounding lug located behind cover
- ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

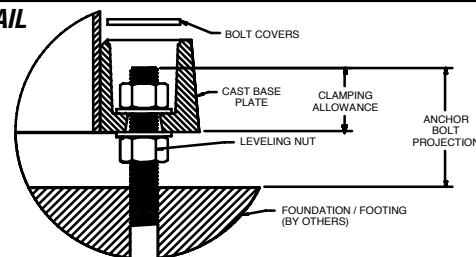
## FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in multiple standard colors; Custom colors available; RAL number preferable.

## TENONS & POLE CAPS



## BASE DETAIL

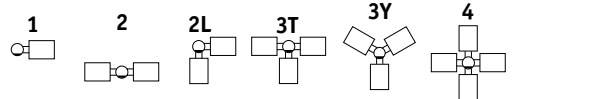


## ORDERING EXAMPLE:

RSA-B-S - 16 - 40 - A/B/C - CAP - 2L - B3 - DBT - VM2

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	FINISH	OPTIONS
<b>RSA-B-S</b> Round Straight Aluminum Pole Beacon Smooth	Reference page 2 Ordering matrix <b>20 - 50 - C</b>	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	<b>1</b> Single arm mount <b>2</b> Two fixtures at 180° <b>2L</b> Two fixtures at 90° <b>3T</b> Three fixtures at 90° <b>3Y</b> Three at 120° <b>4</b> Four fixtures at 90° <b>OT</b> Open top (includes pole cap) <b>TN3<sup>2</sup></b> Tenon 3 x 3 <b>TN4<sup>2</sup></b> Tenon 3 x 4 <b>TN5<sup>2</sup></b> Tenon 4 x 5 <b>TN8<sup>2</sup></b> Tenon 4 x 8 <b>ARC<sup>2</sup></b> Acorn Finial <b>BAL<sup>2</sup></b> Ball Finial <b>CAP<sup>2</sup></b> Flat Cap	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VG</b> Verde Green Textured <b>Color Option</b> <b>CC</b> Custom Color	<b>GFI<sup>1</sup></b> 20 Amp GFCI Receptacle and Cover <b>EHH<sup>1</sup></b> Extra Handhole <b>C05<sup>1</sup></b> .5" Coupling <b>C07<sup>1</sup></b> .75" Coupling <b>C20<sup>1</sup></b> 2" Coupling <b>VM2</b> 2nd mode vibration damper <b>LAB</b> Less Anchor Bolts

## MOUNTING ORIENTATION



## ACCESSORIES- Order Separately

Catalog Number	Description
VM2SXX	2nd mode vibration damper

1 Specify option location using logic found on page 2 (**Option Orientation**)  
2 Specify pole top



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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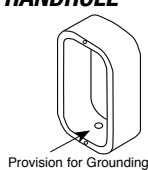
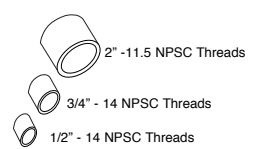
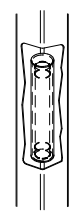
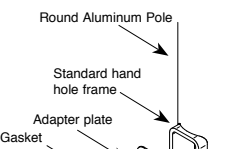
**HUBBELL**  
Lighting

RSA-B-S POLES-SPEC MARCH 1, 2021 12:16 PM

## ORDERING INFORMATION Cont.

Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Square	Base Plate Size	Anchor Bolt Size	Bolt Projection	Pole weight (lbs)
	Feet	Meters								
RSA-B-S-08-40-A	8	2.4	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	19
RSA-B-S-10-40-A	10	3.0	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	22
RSA-B-S-12-40-A	12	3.7	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	26
RSA-B-S-14-40-A	14	4.3	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	30
RSA-B-S-16-40-A	16	4.9	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	33
RSA-B-S-12-40-B	12	3.7	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	36
RSA-B-S-14-40-B	14	4.3	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	42
RSA-B-S-16-40-B	16	4.9	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	47
RSA-B-S-18-40-B	18	5.5	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	52
RSA-B-S-20-40-B	20	6.1	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	57
RSA-B-S-16-40-C	16	4.9	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	60
RSA-B-S-18-40-C	18	5.5	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	67
RSA-B-S-20-40-C	20	6.1	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	74
RSA-B-S-22-40-C	22	6.7	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	81
RSA-B-S-24-40-C	24	7.3	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	88
RSA-B-S-14-50-B	14	4.3	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	52
RSA-B-S-16-50-B	16	4.9	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	59
RSA-B-S-18-50-B	18	5.5	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	66
RSA-B-S-20-50-B	20	6.1	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	72
RSA-B-S-22-50-B	22	6.7	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	79
RSA-B-S-24-50-B	24	7.3	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	86
RSA-B-S-25-50-B	25	7.6	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	111
RSA-B-S-14-50-C	14	4.3	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	67
RSA-B-S-16-50-C	16	4.9	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	76
RSA-B-S-18-50-C	18	5.5	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	84
RSA-B-S-20-50-C	20	6.1	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	93
RSA-B-S-22-50-C	22	6.7	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	102
RSA-B-S-24-50-C	24	7.3	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	111
RSA-B-S-25-50-C	25	7.6	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	116
RSA-B-S-14-60-A	14	4.3	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	43
RSA-B-S-16-60-A	16	4.9	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	49
RSA-B-S-18-60-A	18	5.5	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	54
RSA-B-S-20-60-A	20	6.1	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	60
RSA-B-S-22-60-A	22	6.7	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	65
RSA-B-S-24-60-A	24	7.3	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	71
RSA-B-S-25-60-A	25	7.6	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	91
RSA-B-S-14-60-C	14	4.3	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	80
RSA-B-S-16-60-C	16	4.9	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	90
RSA-B-S-18-60-C	18	5.5	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	101
RSA-B-S-20-60-C	20	6.1	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	112
RSA-B-S-22-60-C	22	6.7	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	122
RSA-B-S-24-60-C	24	7.3	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	133
RSA-B-S-25-60-C	25	7.6	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	174
RSA-B-S-30-60-C	30	9.1	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	208

NOTE Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

<h3>EHH - EXTRA HANDHOLE</h3>  <p>Provision for Grounding</p>	<h3>C05 - C07 - C20 - COUPLING</h3>  <p>2" - 11.5 NPSC Threads 3/4" - 14 NPSC Threads 1/2" - 14 NPSC Threads</p>	<h3>VM2 - VIBRATION DAMPER 2ND MODE</h3>  <p>Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p>	<h3>GFI - 20 AMP GFCI RECEPTACLE &amp; COVER</h3>  <p>Round Aluminum Pole Standard hand hole frame Adapter plate Gasket 20 AMP GFCI</p>
<h3>OPTION ORIENTATION</h3> <p>Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: <b>RSA-B-S16-40A-TN3-DOT-C05-0-15</b> (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="673 1738 950 1896"> <h3>VM2SXX - VIBRATION DAMPER 2ND MODE</h3> <p>Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p> </div> <div data-bbox="958 1738 1063 1896"> <p>VM2S08 - 8' VM2S12 - 12' VM2S16 - 16' VM2S20 - 20' VM2S24 - 24'</p> </div> </div>			

For more information about pole vibration and vibration dampers, please consult [http://cdn.spauldinglighting.com/content/products/literature/literature\\_files/Pole\\_Wind\\_Induced\\_Flyer\\_HL010022.pdf](http://cdn.spauldinglighting.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HL010022.pdf)  
Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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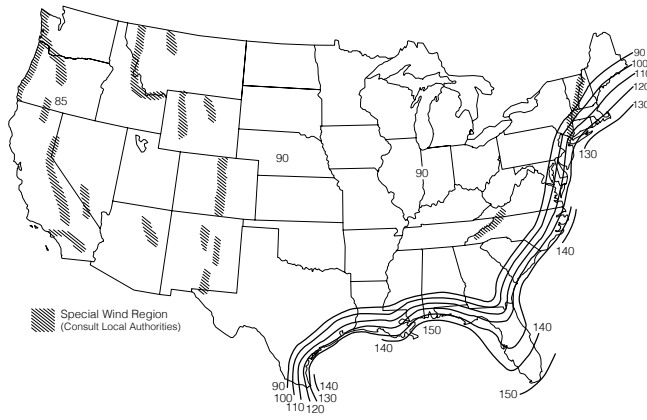
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RSA-B-S POLES-SPEC MARCH 1, 2021 12:16 PM

## ASCE7-05 WIND MAP



HAWAII – 105 mph

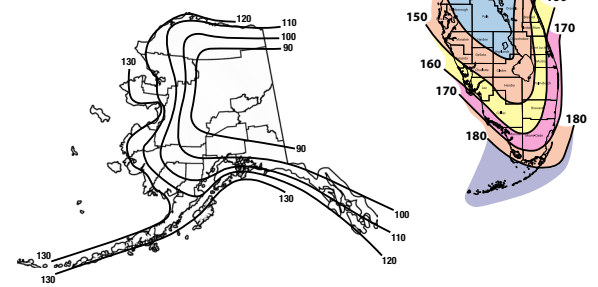
PUERTO RICO – 145 mph

ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds										
Catalog Number	85	90	100	105	110	120	130	140	145	150
RSA-B-S-08-40-A	12.2	10.8	8.6	7.7	6.9	5.6	4.8	4.1	3.8	3.5
RSA-B-S-10-40-A	9.0	7.9	6.2	5.5	4.8	3.9	3.2	2.7	2.5	2.3
RSA-B-S-12-40-A	6.8	5.9	4.5	3.9	3.4	2.6	2.1	1.7	1.6	1.4
RSA-B-S-14-40-A	5.1	4.4	3.1	2.6	2.2	1.6	1.2	0.9	0.8	0.7
RSA-B-S-16-40-A	3.8	3.2	2.1	1.6	1.3	0.7	0.5	NR	NR	NR
RSA-B-S-12-40-B	10.7	9.4	7.3	6.5	5.7	4.6	3.8	3.2	3.0	2.7
RSA-B-S-14-40-B	8.4	7.3	5.6	4.9	4.2	3.3	2.7	2.2	2.0	1.9
RSA-B-S-16-40-B	6.6	5.7	4.2	3.6	3.0	2.2	1.8	1.4	1.3	1.1
RSA-B-S-18-40-B	5.1	4.3	3.0	2.4	2.0	1.3	1.0	0.7	0.6	0.5
RSA-B-S-20-40-B	3.8	3.1	2.0	1.5	1.1	0.5	NR	NR	NR	NR
RSA-B-S-16-40-C	9.1	7.9	6.0	5.3	4.6	3.5	2.9	2.4	2.2	2.0
RSA-B-S-18-40-C	7.3	6.3	4.6	3.9	3.3	2.4	1.9	1.6	1.4	1.2
RSA-B-S-20-40-C	5.7	4.8	3.4	2.8	2.3	1.5	1.1	0.8	0.7	0.6
RSA-B-S-22-40-C	4.4	3.6	2.3	1.8	1.3	0.7	NR	NR	NR	NR
RSA-B-S-24-40-C	3.3	2.6	1.4	1.0	0.5	NR	NR	NR	NR	NR
RSA-B-S-14-50-B	14.6	12.8	10.2	9.2	8.4	7.0	5.8	5.0	4.6	4.3
RSA-B-S-16-50-B	11.9	10.3	8.1	7.3	6.6	5.4	4.5	3.8	3.5	3.3
RSA-B-S-18-50-B	9.5	8.2	6.3	5.7	5.1	4.2	3.4	2.8	2.6	2.4
RSA-B-S-20-50-B	7.5	6.4	4.8	4.3	3.8	3.0	2.4	2.0	1.8	1.6
RSA-B-S-22-50-B	5.9	4.8	3.5	3.1	2.7	2.1	1.6	1.3	1.1	1.0
RSA-B-S-24-50-B	4.4	3.5	2.4	2.0	1.7	1.3	0.9	0.6	0.5	NR
RSA-B-S-25-50-B	3.8	2.9	1.9	1.6	1.3	0.9	0.6	NR	NR	NR
RSA-B-S-14-50-C	19.6	17.3	13.9	12.6	11.4	9.5	8.1	6.9	6.4	5.9
RSA-B-S-16-50-C	16.2	14.2	11.3	10.2	9.3	7.7	6.5	5.5	5.1	4.7
RSA-B-S-18-50-C	13.2	11.5	9.1	8.2	7.4	6.1	5.1	4.3	4.0	3.7
RSA-B-S-20-50-C	10.8	9.3	7.2	6.5	5.8	4.8	3.9	3.3	3.0	2.7
RSA-B-S-22-50-C	8.7	7.4	5.6	5.0	4.5	3.6	2.9	2.4	2.2	2.0
RSA-B-S-24-50-C	7.0	5.8	4.3	3.8	3.3	2.6	2.1	1.6	1.5	1.3
RSA-B-S-25-50-C	6.0	4.7	3.2	2.8	2.4	1.8	1.3	1.0	0.8	0.6
RSA-B-S-14-60-A	14.7	13.1	10.5	9.5	8.6	7.2	6.0	5.1	4.8	4.4
RSA-B-S-16-60-A	11.9	10.6	8.5	7.6	6.9	5.7	4.7	4.0	3.7	3.4
RSA-B-S-18-60-A	9.5	8.4	6.7	6.0	5.4	4.4	3.6	3.0	2.8	2.5
RSA-B-S-20-60-A	7.5	6.5	5.1	4.6	4.1	3.3	2.7	2.2	2.0	1.8
RSA-B-S-22-60-A	5.7	5.0	3.8	3.4	3.0	2.3	1.8	1.5	1.3	1.2
RSA-B-S-24-60-A	4.3	3.7	2.7	2.3	2.0	1.5	1.1	0.8	0.7	0.6
RSA-B-S-25-60-A	3.6	3.1	2.2	1.9	1.6	1.1	0.8	0.5	NR	NR
RSA-B-S-14-60-C	25.0	25.0	22.2	19.0	17.2	14.3	12.1	10.3	9.6	8.9
RSA-B-S-16-60-C	25.0	22.9	18.6	16.8	14.4	12.0	10.1	8.6	7.9	7.4
RSA-B-S-18-60-C	21.4	19.1	15.5	14.0	12.0	9.9	8.3	7.0	6.5	6.0
RSA-B-S-20-60-C	17.9	15.9	12.8	11.6	10.5	8.1	6.8	5.7	5.2	4.8
RSA-B-S-22-60-C	15.0	13.3	10.7	9.6	8.7	6.6	5.5	4.6	4.2	3.9
RSA-B-S-24-60-C	12.5	11.1	8.8	7.9	7.1	5.4	4.4	3.6	3.3	3.0
RSA-B-S-25-60-C	11.4	10.1	8.0	7.2	6.5	4.8	3.9	3.2	2.9	2.6
RSA-B-S-30-60-C	6.9	6.0	4.6	4.1	3.6	2.4	1.8	1.4	1.2	1.1

## FLORIDA REGION WIND MAP

- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

## ALASKA REGION WIND MAP



\*PRINTED WITH PERMISSION FROM ASCE

Florida Building Code 2014 EPA Load Rating - 3 second gust wind speeds									
Catalog Number	115	120	130	140	150	160	170	180	
RSA-B-S-08-40-A	8.9	8.1	6.8	5.6	4.7	4.0	4.0	3.5	
RSA-B-S-10-40-A	6.4	5.8	4.7	3.8	3.1	2.5	2.8	2.4	
RSA-B-S-12-40-A	4.6	4.1	3.2	2.4	1.8	1.3	1.9	1.5	
RSA-B-S-14-40-A	3.2	2.8	2.0	1.4	0.9	NR	NR	NR	
RSA-B-S-16-40-A	2.1	1.7	1.0	0.5	NR	NR	NR	NR	
RSA-B-S-12-40-B	7.6	6.9	5.6	4.5	3.7	2.9	3.3	2.8	
RSA-B-S-14-40-B	5.8	5.1	4.0	3.1	2.4	1.8	2.4	2.0	
RSA-B-S-16-40-B	4.3	3.7	2.7	2.0	1.3	0.8	0.5	NR	
RSA-B-S-18-40-B	3.0	2.5	1.7	1.0	NR	NR	NR	NR	
RSA-B-S-20-40-B	1.9	1.5	0.7	NR	NR	NR	NR	NR	
RSA-B-S-16-40-C	6.2	5.5	4.3	3.3	2.5	1.9	1.7	1.5	
RSA-B-S-18-40-C	4.6	4.0	3.0	2.1	1.5	0.9	0.7	0.5	
RSA-B-S-20-40-C	3.3	2.8	1.9	1.2	0.6	NR	NR	NR	
RSA-B-S-22-40-C	2.3	1.8	1.0	NR	NR	NR	NR	NR	
RSA-B-S-24-40-C	1.3	0.9	NR	NR	NR	NR	NR	NR	
RSA-B-S-14-50-B	10.4	9.3	7.5	7.5	6.3	5.3	4.5	3.8	
RSA-B-S-16-50-B	8.0	7.1	5.6	5.9	4.9	4.0	3.3	2.7	
RSA-B-S-18-50-B	6.1	5.3	3.9	3.6	3.3	3.0	2.3	1.8	
RSA-B-S-20-50-B	4.4	3.7	2.9	2.8	2.7	2.1	1.5	1.1	
RSA-B-S-22-50-B	3.0	2.4	2.1	2.0	1.9	1.3	0.8	NR	
RSA-B-S-24-50-B	1.8	1.3	1.2	1.1	NR	NR	NR	NR	
RSA-B-S-25-50-B	1.3	0.7	1.0	0.5	NR	NR	NR	NR	
RSA-B-S-14-50-C	14.2	12.9	10.6	10.1	8.6	7.4	6.3	5.4	
RSA-B-S-16-50-C	11.3	10.2	8.2	7.5	6.9	5.8	4.9	4.2	
RSA-B-S-18-50-C	8.9	7.9	6.2	5.8	5.4	4.5	3.7	3.1	
RSA-B-S-20-50-C	6.9	6.0	4.9	4.5	4.2	3.4	2.7	2.1	
RSA-B-S-22-50-C	5.2	4.4	3.9	3.6	3.2	2.5	1.9	1.3	
RSA-B-S-24-50-C	3.7	3.0	2.8	2.5	2.3	1.7	1.1	0.7	
RSA-B-S-25-50-C	2.9	2.2	2.0	1.8	1.7	1.1	0.6	NR	
RSA-B-S-14-60-A	11.5	10.5	8.6	7.2	6.0	5.0	4.2	3.5	
RSA-B-S-16-60-A	9.3	8.4	6.8	5.5	4.5	3.7	2.9	2.3	
RSA-B-S-18-60-A	7.4	6.6	5.3	4.2	3.3	2.5	1.9	1.4	
RSA-B-S-20-60-A	5.9	5.2	4.0	3.0	2.2	1.6	1.0	0.6	
RSA-B-S-22-60-A	4.6	4.0	2.9	2.0	1.3	0.8	NR	NR	
RSA-B-S-24-60-A	3.5	2.9	2.0	1.2	0.6	NR	NR	NR	
RSA-B-S-25-60-A	3.0	2.4	1.5	0.8	0.2	NR	NR	NR	
RSA-B-S-14-60-C	23.7	21.7	18.3	15.6	13.3	11.5	9.9	8.6	
RSA-B-S-16-60-C	19.8	18.1	15.1	12.8	10.9	9.3	7.9	6.8	
RSA-B-S-18-60-C	16.5	15.0	12.4	10.4	8.7	7.4	6.2	5.2	
RSA-B-S-20-60-C	13.8	12.5	10.3	8.5	7.0	5.8	4.8	4.0	
RSA-B-S-22-60-C	11.6	10.5	8.5	6.9	5.6	4.5	3.6	2.9	
RSA-B-S-24-60-C	9.8	8.7	7.0	5.5	4.4	3.4	2.6	1.9	
RSA-B-S-25-60-C	9.0	8.0	6.3	4.9	3.8	2.9	2.1	1.5	
RSA-B-S-30-60-C	5.6	4.8	3.5	2.4	1.5	0.8	NR	NR	



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## NOTES

### Wind-speed Website disclaimer:

Hubbell Lighting has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third-party website provides a useful starting point for analyzing wind conditions, Hubbell Lighting has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Hubbell Lighting Inc. does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. <http://windspeed.atcouncil.org>

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. [http://cdn.spauldinglighting.com/content/products/literature/literature\\_files/Pole\\_Wind\\_Induced\\_Flyer\\_HLQI0022.pdf](http://cdn.spauldinglighting.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLQI0022.pdf)
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

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**Due to our continued efforts to improve our products, product specifications are subject to change without notice.**

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