

# VIPER Area/Site

VIPER LUMINAIRE

MICRO STRIKE | 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



## 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 160L-50 <sup>6</sup> 7500 lumens 160L-75 10000 lumens 160L-100 12500 lumens 160L-115 15000 lumens 160L-135 18000 lumens 160L-160 21000 lumens	AP AP-Amber Phosphor Converted 27K8 2700K, 80 CRI 3K7 3000K, 70 CRI 3K8 3000K, 80 CRI 35K8 3500K, 80 CRI 3K9 3000K, 90 CRI 4K7 4000K, 70 CRI 4K8 4000K, 80 CRI 4K9 4000K, 90 CRI 5K7 5000K, 70 CRI 5K8 5000K, 80 CRI	2 Type 2 3 Type 3 4F Type 4 Forward 4W Type 4 Wide 5QM Type 5 Square Medium 5QW Type 5 Square Wide	L Optic rotation left R Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V
		2 Size 2	320L-145 21000 lumens 320L-170 24000 lumens 320L-185 27000 lumens 320L-210 30000 lumens 320L-235 33000 lumens 320L-255 36000 lumens 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	
A	Arm mount for square pole/flat surface
A_	Arm mount for round pole <sup>2</sup>
ASQU	Universal arm mount for square pole
A_U	Universal arm mount for round pole <sup>2</sup>
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole <sup>2</sup>
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole <sup>2</sup>
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

Options	
F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control
TB	Terminal Block

Network Control Options	
NXSPW-14F	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>1,3,4</sup>
NXSPW-40F	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>1,3,4</sup>
NXSP-14F	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>3,4</sup>
NXSP-40F	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>3,4</sup>
NXWE	NX Wireless Enabled (module + radio) <sup>3,4</sup>
WIR	wiSCAPE® In-Fixture Module <sup>3,4</sup>
WIRSC	wiSCAPE® Module and Occupancy Sensor <sup>3,4</sup>
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>4</sup>
BTS-40F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>4</sup>
BTSO-12F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height <sup>4</sup>
7PR	7-Pin Receptacle <sup>4</sup>
7PR-SC	7-Pin Receptacle with shorting cap <sup>4</sup>
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>
Programmed Controls	
ADD	AutoDim Timer Based Dimming <sup>4</sup>
ADT	AutoDim Time of Day Dimming <sup>4</sup>
Photocontrols	
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

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## STRIKE OPTIC – ORDERING GUIDE

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

CATALOG # \_\_\_\_\_

VP	Optic Platform	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
VP Viper	ST Strike	1 Size 1	<b>36L-39</b> <sup>8</sup> 5500 lumens <b>36L-55</b> <sup>8</sup> 7500 lumens <b>36L-85</b> 10000 lumens <b>36L-105</b> 12500 lumens <b>36L-120</b> 14000 lumens	<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	<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				
		3 Size 3	<b>108L-215</b> <sup>8</sup> 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				
		4 Size 4	<b>162L-320</b> 40000 lumens <b>162L-365</b> <sup>10</sup> 44000 lumens <b>162L-405</b> 48000 lumens <b>162L-445</b> 52000 lumens <b>162L-485</b> 55000 lumens <b>162L-545</b> <sup>8</sup> 60000 lumens <b>CLO</b> Custom Lumen Output <sup>1</sup>				

Mounting	
<b>A</b>	Arm mount for square pole/flat surface
<b>A<sub>L</sub></b>	Arm mount for round pole <sup>3</sup>
<b>ASQU</b>	Universal arm mount for square pole
<b>A<sub>U</sub></b>	Universal arm mount for round pole <sup>3</sup>
<b>AAU</b>	Adjustable arm for pole mounting (universal drill pattern)
<b>AA<sub>U</sub></b>	Adjustable arm mount for round pole <sup>3</sup>
<b>ADU</b>	Decorative upswept Arm (universal drill pattern)
<b>AD<sub>U</sub></b>	Decorative upswept arm mount for round pole <sup>3</sup>
<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, horizontal tenon with MAF
<b>WM</b>	Wall mount bracket with decorative upswept arm
<b>WA</b>	Wall mount bracket with adjustable arm

Color	
<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>LGT</b>	Light Grey Gloss Textured
<b>PSS</b>	Platinum Silver Smooth
<b>WHT</b>	White Matte Textured
<b>WHS</b>	White Gloss Smooth
<b>VGT</b>	Verde Green Textured
Color Option	
<b>CC</b>	Custom Color

Options	
<b>F</b>	Fusing
<b>E</b>	Battery Backup <sup>1,2,7,8,9</sup>
<b>2PF</b>	Dual Power Feed
<b>2DR</b>	Dual Driver
<b>TE</b>	Tooless Entry
<b>BC</b>	Backlight Control
<b>TB</b>	Terminal Block

Network Control Options	
<b>NXSPW-14F</b>	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>1,4,5</sup>
<b>NXSPW-40F</b>	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>1,4,5</sup>
<b>NXSP-14F</b>	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' <sup>4,5</sup>
<b>NXSP-40F</b>	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 40' <sup>4,5</sup>
<b>NXWE</b>	NX Wireless Enabled <sup>4,5</sup>
<b>WIR</b>	wiSCAPE® In-Fixture Module <sup>4,5</sup>
<b>WIRSC</b>	wiSCAPE® Module and Occupancy Sensor <sup>4,5</sup>
Stand Alone Sensors	
<b>BTS-14F</b>	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>5</sup>
<b>BTS-40F</b>	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor <sup>5</sup>
<b>BTSO-12F</b>	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height <sup>5</sup>
<b>7PR</b>	7-Pin Receptacle <sup>5</sup>
<b>7PR-SC</b>	7-Pin Receptacle with shorting cap <sup>5</sup>
<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>
Programmed Controls	
<b>ADD</b>	AutoDim Timer Based Dimming <sup>5</sup>
<b>ADT</b>	AutoDim Time of Day Dimming <sup>5</sup>
Photocontrols	
<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

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## ORDERING GUIDE (CONTINUED)

CATALOG # \_\_\_\_\_

Accessory Type	Size	Option	Color	Hubbell Control Solutions — Accessories (Sold Separately)	
SHD Shield	1 Size 1	<b>HSS-90-B</b> House Side Shield 90° Back	<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>Color Option</b> <b>CC</b> Custom Color	<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  For additional information related to these accessories please visit <a href="http://www.hubbellcontrolsolutions.com">www.hubbellcontrolsolutions.com</a> . Options provided for use with integrated sensor, please view specification sheet ordering information table for details.	
	2 Size 2	<b>HSS-90-F</b> House Side Shield 90° Front			
	3 Size 3	<b>HSS-90-S</b> House Side Shield 90° Side			
	4 Size 4	<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			
	MTG Mounting	<b>HSS-360</b> House Side Shield 360°			<b>BC</b> Back Light Control
		<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>Accessory Type</b>	<b>Option</b>				
MSC Miscellaneous	<b>BIRD SPK</b> Bird Spike				

## CONTROLS



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="#">BTISO12F</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		

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## 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

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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

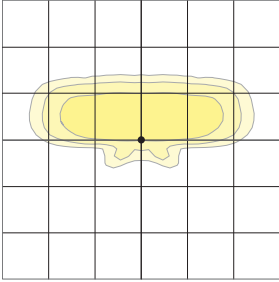
# VIPER Area/Site

VIPER LUMINAIRE

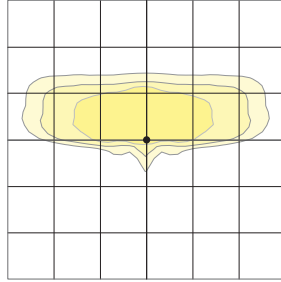
## MICRO STRIKE PHOTOMETRY

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

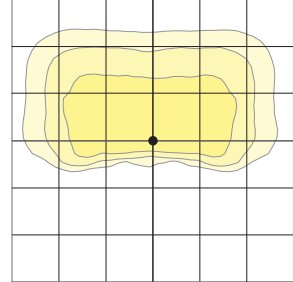
Type 2



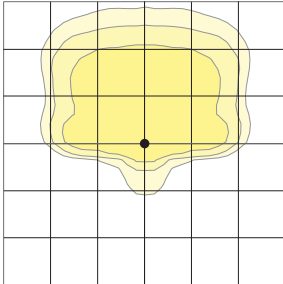
Type 3



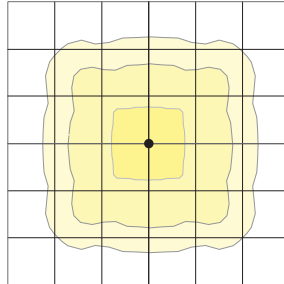
Type 4 Wide



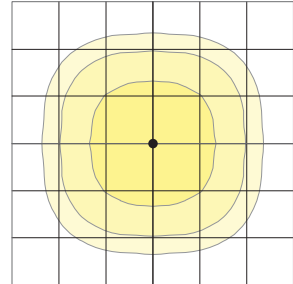
Type 4F



Type 5QM



Type 5QW





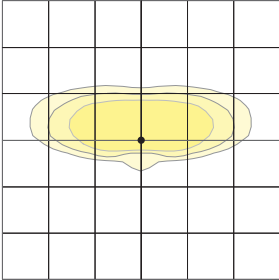
# VIPER Area/Site

VIPER LUMINAIRE

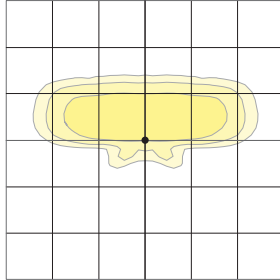
## OPTIC STRIKE PHOTOMETRY

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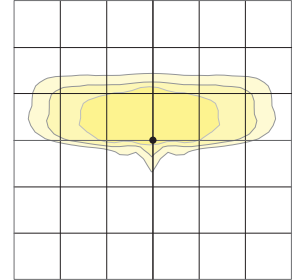
**Type FR – Front Row/Auto Optic**



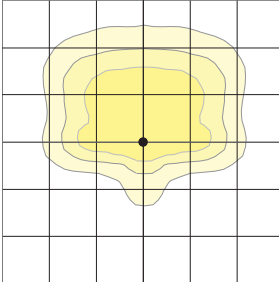
**Type 2**



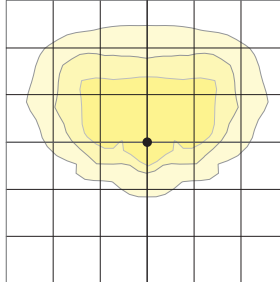
**Type 3**



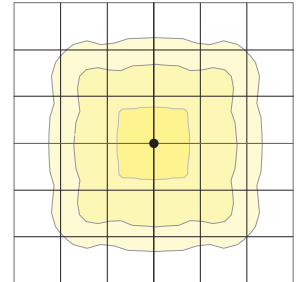
**Type 4 Forward**



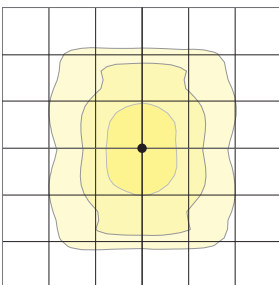
**Type 4 Wide**



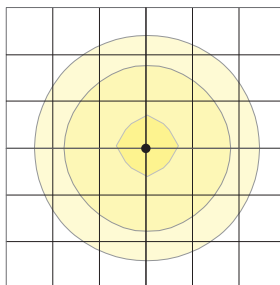
**Type 5QM**



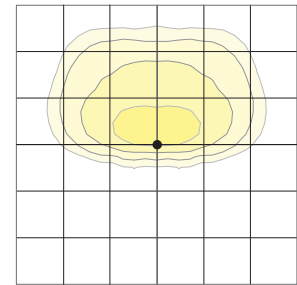
**Type 5R (rectangular)**



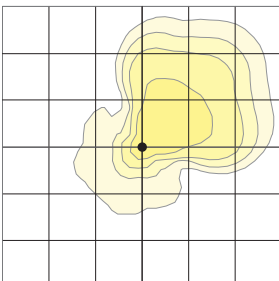
**Type 5W (round wide)**



**Type TC**



**Type Corner**

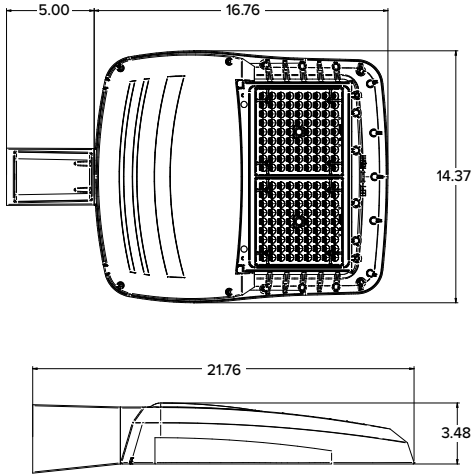


# VIPER Area/Site

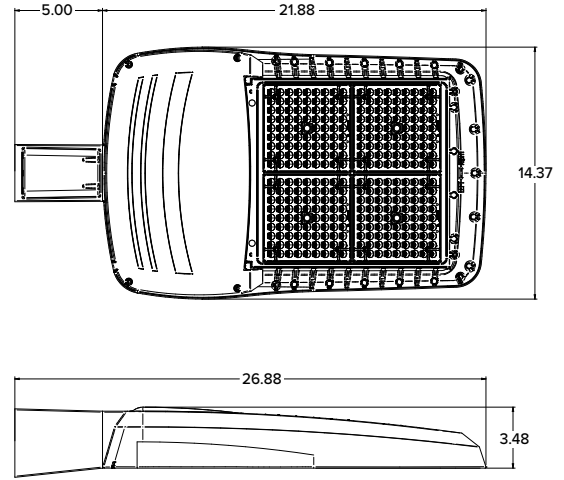
VIPER LUMINAIRE

## DIMENSIONS

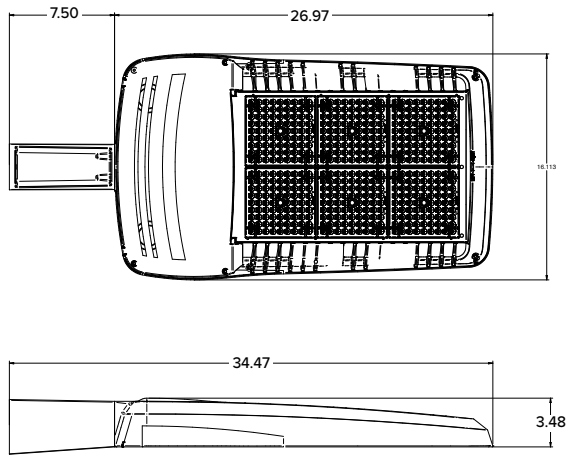
### SIZE 1



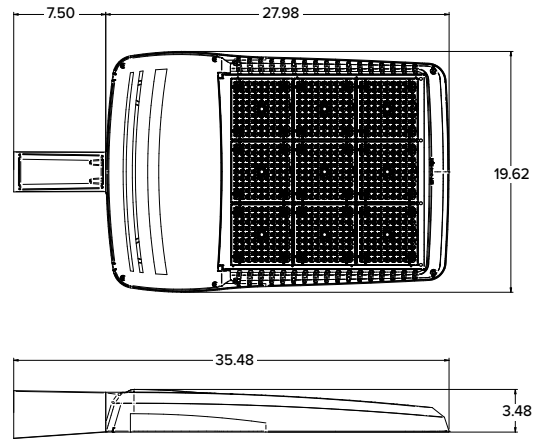
### SIZE 2









### 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

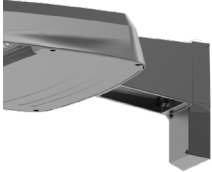
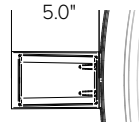
VIPER LUMINAIRE

## MOUNTING



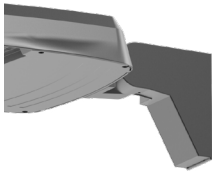
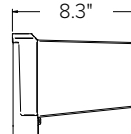
### ASQ-STRAIGHT ARM MOUNT

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)



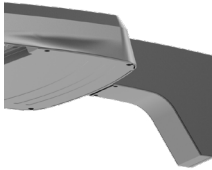
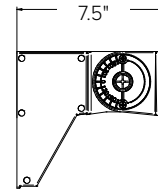
### ASQU-UNIVERSAL ARM MOUNT

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)



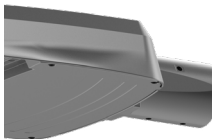
### AAU-ADJUSTABLE ARM FOR POLE MOUNTING

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.



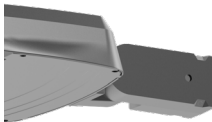
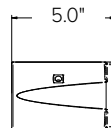
### ADU-DECORATIVE UPSWEPT ARM

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



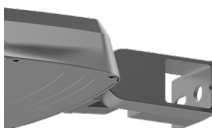
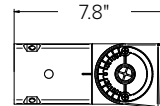
### MAF-MAST ARM FITTER

Fits 2-3/8" OD horizontal tenons.



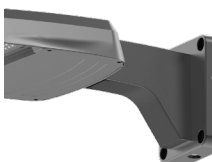
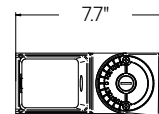
### K-KNUCKLE

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.



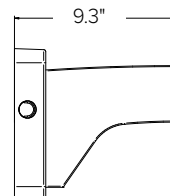
### T-TRUNNION

Trunion 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.



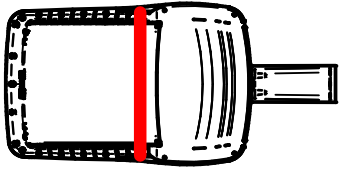
# VIPER Area/Site

VIPER LUMINAIRE

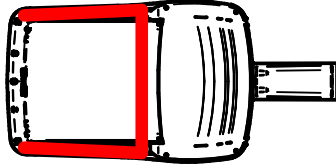
## ADDITIONAL INFORMATION (CONTINUED)

### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

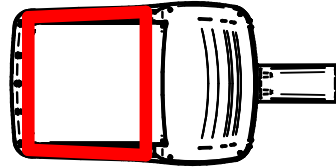
VPR2x HSS-90-B-xx



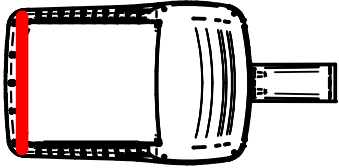
VPR2x HSS-270-BSS-xx



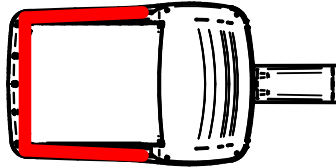
VPR2x HSS-360-xx



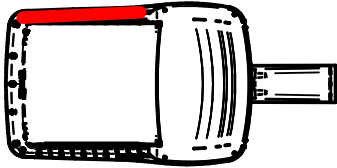
VPR2x HSS-90-F-xx



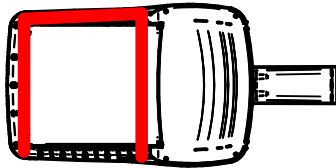
VPR2x HSS-270-FSS-xx



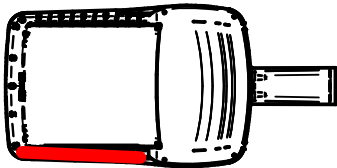
VPR2x HSS-90-S-xx



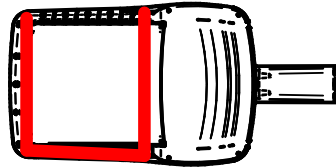
VPR2x HSS-270-FSB-xx



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

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