

# Exhibit I

# VIPER Area/Site

VIPER LUMINAIRE

**STREET LAMP\_S3/4/5**

## 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 Lighting Controls™, 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



## 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
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

### 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)

**MICROSTRIKE** | **STRIKE** <sup>OPTICS</sup>



**10-DAY QUICK SHIP PROGRAM**



### CONTROLS (CONTINUED)

- 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
- NX Lighting Controls™ 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

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to <http://www.designlights.org> for the most up-to-date list.
- 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.

### WARRANTY

- 5 year warranty

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)

# VIPER Area/Site

VIPER LUMINAIRE

## MICROSTRIKE OPTICS – ORDERING GUIDE

 = Service Program  
 Limit of 15 luminaires

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

CATALOG #

VP	Optic Platform	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
<b>Series</b>							
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 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 480L-285 40000 lumens 480L-320 44000 lumens 480L-340 48000 lumens 480L-390 52000 lumens 480L-425 55000 lumens 480L-470 60000 lumens 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>	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 5QW Type 5 Square Wide	BLANK No Rotation 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					
		3 Size 3					
		4 Size 4					

Mounting	Color	Options	Network Control Options
<b>A</b> Arm mount for square pole/flat surface (B3 Drill Pattern) (Does not include round pole adapter) <b>A_</b> Arm mount for round pole <sup>2</sup> <b>ASQU</b> Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern <b>A_U</b> Universal arm mount for round pole <sup>2</sup> <b>AAU</b> Adjustable arm for pole mounting (universal drill pattern) <b>AA_U</b> Adjustable arm mount for round pole <sup>2</sup> <b>ADU</b> Decorative upswept Arm (universal drill pattern) <b>AD_U</b> Decorative upswept arm mount for round pole <sup>2</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	<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 <b>Color Option</b> <b>CC</b> Custom Color	<b>F</b> Fusing <b>2PF</b> Dual Power Feed <b>2DR</b> Dual Driver <b>TE</b> Toolless Entry <b>BC</b> Backlight Control <sup>8</sup> <b>TB</b> Terminal Block	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,3,4</sup> <b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,3,4</sup> <b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>3,4</sup> <b>WIR</b> wiSCAPE® In-Fixture Module <sup>3,4</sup> <b>WIRSC</b> wiSCAPE® Module and Occupancy Sensor <sup>3,4</sup> <b>Stand Alone Sensors</b> <b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>9</sup> <b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>9</sup> <b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>9</sup> <b>7PR</b> 7-Pin Receptacle <sup>4</sup> <b>7PR-SC</b> 7-Pin Receptacle with shorting cap <sup>4</sup> <b>3PR</b> 3-Pin twist lock <sup>4</sup> <b>3PR-SC</b> 3-Pin receptacle with shorting cap <sup>4</sup> <b>3PR-TL</b> 3-Pin PCR with photocontrol <sup>4</sup> <b>Programmed Controls</b> <b>SCP_F</b> Sensor Control Programmable, 8F or 40F <sup>10</sup> <b>ADD</b> AutoDim Timer Based Dimming <sup>4</sup> <b>ADT</b> AutoDim Time of Day Dimming <sup>4</sup> <b>Photocontrols</b> <b>PC</b> 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

8 – BC not available on 4F and type 5 distributions

9 – BTS and BTSO are only available on Size 3 and Size 4

10 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.



# VIPER Area/Site

VIPER LUMINAIRE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## 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
VP Viper	ST Strike	1 Size 1	36L-39 <sup>8</sup>	5500 lumens	AM	monochromatic amber, 595nm	FR	Auto Front Row	BLANK No Rotation
			36L-55 <sup>8</sup>	7500 lumens			2	Type 2	L Optic rotation left
			36L-85	10000 lumens	27K8	2700K, 80 CRI	3	Type 3	R Optic rotation right
			36L-105	12500 lumens	3K7	3000K, 70 CRI	4F	Type 4 Forward	
			36L-120	14000 lumens	3K8	3000K, 80 CRI	4W	Type 4 Wide	
		2 Size 2	72L-115	15000 lumens	3K9	3000K, 90 CRI	5QN	Type 5 Square Narrow	
			72L-145	18000 lumens	35K8	3500K, 80 CRI	5QW	Type 5 Square Wide	
			72L-180	21000 lumens	4K7	4000K, 70 CRI	5QM	Type 5 Square Medium	
			72L-210	24000 lumens	4K8	4000K, 80 CRI	5W	Type 5 Wide (Round)	
			72L-240	27000 lumens	4K9	4000K, 90 CRI	5RW	Type 5 Rectangular	
		3 Size 3	108L-215 <sup>8</sup>	27000 lumens	5K7	5000K, 70 CRI	C	Corner Optic	
			108L-250	30000 lumens	5K8	5000K, 80 CRI	TC	Tennis Court Optic	
			108L-280	33000 lumens					
			108L-325	36000 lumens					
			108L-365	40000 lumens					
		4 Size 4	162L-320	40000 lumens					
			162L-365 <sup>10</sup>	44000 lumens					
			162L-405	48000 lumens					
			162L-445	52000 lumens					
			162L-485	55000 lumens					
			162L-545 <sup>8</sup>	60000 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	NXWS16F NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,3,4</sup>
A_ Arm mount for round pole <sup>3</sup>	BLS Black Gloss Smooth	E Battery Backup <sup>1,2,7,8,9</sup>	NXWS40F NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,3,4</sup>
ASQU Universal arm mount for square pole	DBT Dark Bronze Matte Textured	2PF Dual Power Feed	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>3,4</sup>
A_U Universal arm mount for round pole <sup>3</sup>	DBS Dark Bronze Gloss Smooth	2DR Dual Driver	WIR wiSCAPE® In-Fixture Module <sup>3,4</sup>
AAU Adjustable arm for pole mounting (universal drill pattern)	GTT Graphite Matte Textured	TE Tooless Entry	WIRSC wiSCAPE® Module and Occupancy Sensor <sup>3,4</sup>
AA_U Adjustable arm mount for round pole <sup>3</sup>	LGS Light Grey Gloss Smooth	BC Backlight Control	<b>Stand Alone Sensors</b>
ADU Decorative upswept Arm (universal drill pattern)	LGT Light Grey Gloss Textured	TB Terminal Block	BTS-14F Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>11</sup>
AD_U Decorative upswept arm mount for round pole <sup>3</sup>	PSS Platinum Silver Smooth		BTS-40F Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens <sup>11</sup>
MAF Mast arm fitter for 2-3/8" OD horizontal arm	WHT White Matte Textured		BTSO-12F Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>11</sup>
K Knuckle	WHS White Gloss Smooth		7PR 7-Pin Receptacle <sup>4</sup>
T Trunnion	VGTT Verde Green Textured		7PR-SC 7-Pin Receptacle with shorting cap <sup>4</sup>
WB Wall Bracket, horizontal tenon with MAF	Color Option		3PR 3-Pin twist lock <sup>4</sup>
WM Wall mount bracket with decorative upswept arm	CC Custom Color		3PR-SC 3-Pin receptacle with shorting cap <sup>4</sup>
WA Wall mount bracket with adjustable arm			3PR-TL 3-Pin PCR with photocontrol <sup>4</sup>
			<b>Programmed Controls</b>
			SCP_F Sensor Control Programmable, 8F or 40F <sup>12</sup>
			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 – Battery temperature rating -20C to 55C

3 – Replace “\_” with “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, up to 105 Watts

10 – Some voltage restrictions may apply when combined with controls

11 – BTS and BTSO are only available on Size 3 and Size 4

12 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.



currentlighting.com/beacon

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CATALOG #	
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## CONTROLS



Control Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	On/Off Control	Programming	Pair with Sensor	Sensor Mounting Height
NXW	–	✓	✓	–	–	✓	✓	–	–
NXWS_F	NXSMP2	✓	✓	✓	✓	✓	✓	–	16ft, 40ft
BTSO12F	BTSMP-OMNI-O	–	–	✓	✓	✓	Bluetooth	–	12ft
BTS_F	BTSMP	–	–	✓	✓	✓	Bluetooth	–	14ft, 40ft
SCP_F	–	–	–	✓	–	✓	✓	–	–
ADD	–	–	✓	–	–	✓	–	✓	–
ADT	–	–	✓	–	–	✓	–	✓	–
7PR	–	Paired with external control	Paired with external control	–	Paired with external control	Paired with external control	–	✓	–
7PR-SC	–	–	–	–	–	–	–	✓	–
3PR	–	–	–	–	–	Paired with external control	–	✓	–
3PR-SC	–	–	–	–	–	–	–	✓	–
3PR-TL	–	–	–	–	✓	✓	–	✓	–
WIR	–	✓	✓	–	✓	✓	Gateway	–	–
WIRSC	BTSMP	✓	✓	✓	✓	✓	Gateway	–	14ft, 40ft

# VIPER Area/Site

VIPER LUMINAIRE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## DELIVERED LUMENS

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

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	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS	162					
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

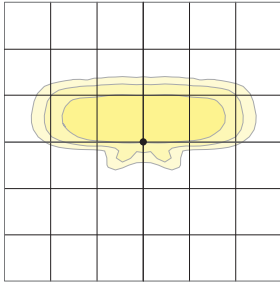
# VIPER Area/Site

VIPER LUMINAIRE

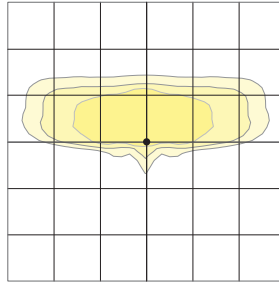
## MICRO STRIKE PHOTOMETRY

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

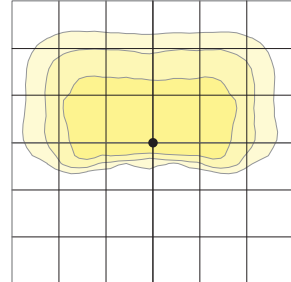
Type 2



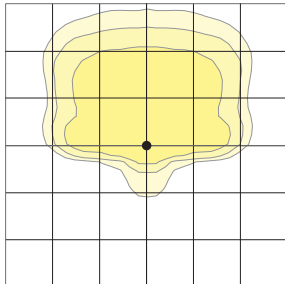
Type 3



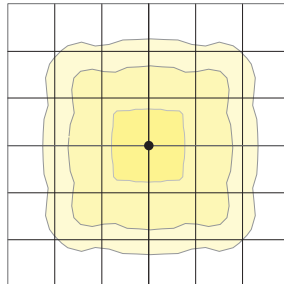
Type 4 Wide



Type 4F



Type 5QW



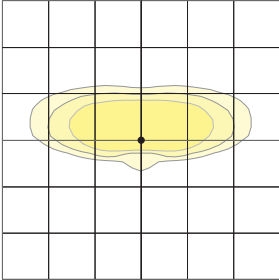
# VIPER Area/Site

VIPER LUMINAIRE

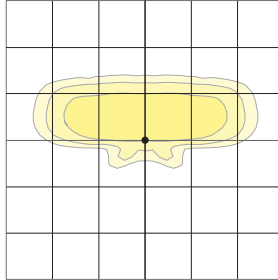
## OPTIC STRIKE PHOTOMETRY

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

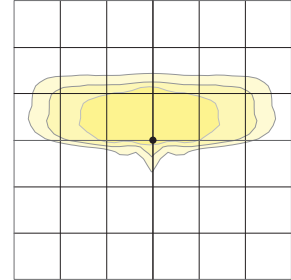
**Type FR – Front Row/Auto Optic**



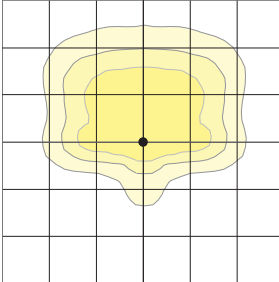
**Type 2**



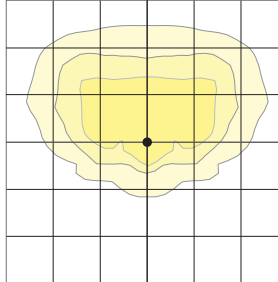
**Type 3**



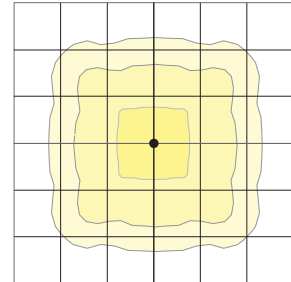
**Type 4 Forward**



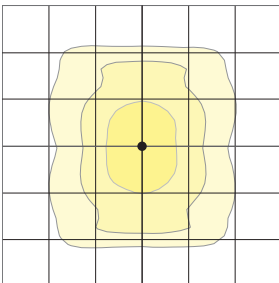
**Type 4 Wide**



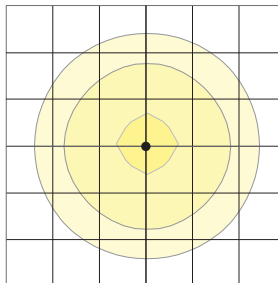
**Type 5QM**



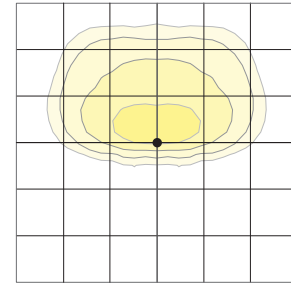
**Type 5RW (rectangular)**



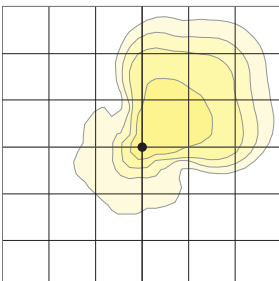
**Type 5W (round wide)**



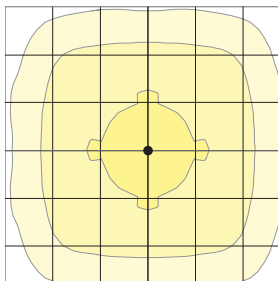
**Type TC**



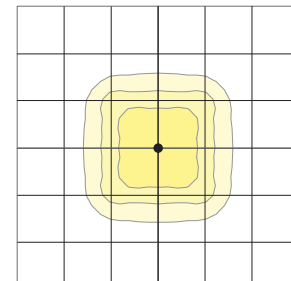
**Type Corner**



**Type 5QW**



**Type 5QN**



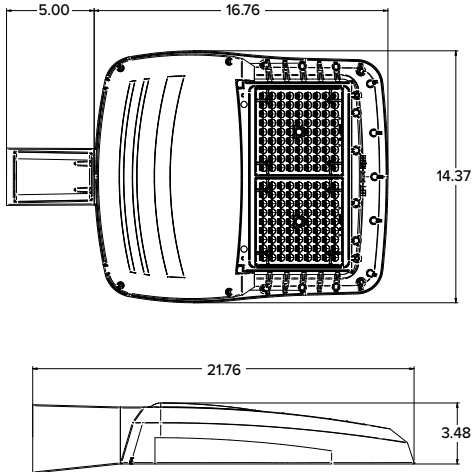
# VIPER Area/Site

VIPER LUMINAIRE

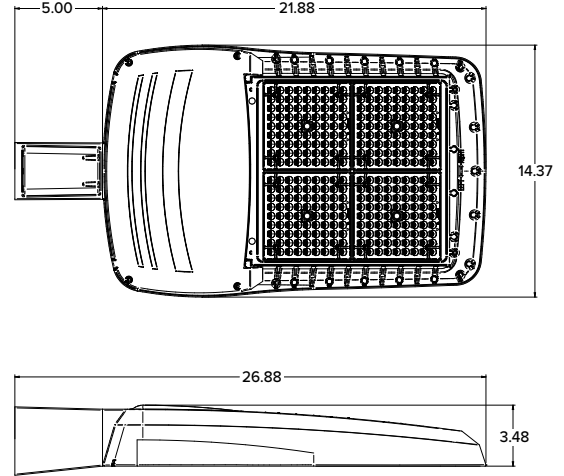
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## DIMENSIONS

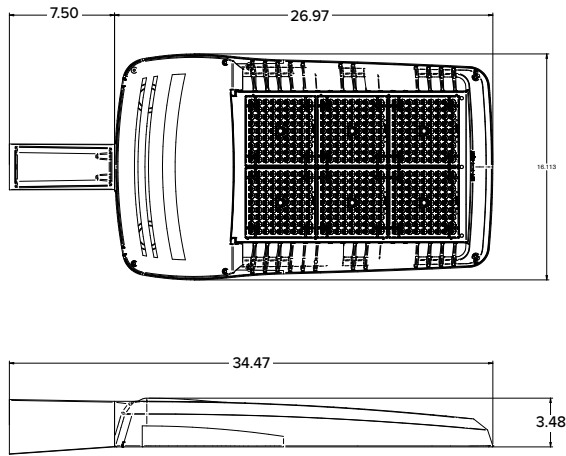
### SIZE 1



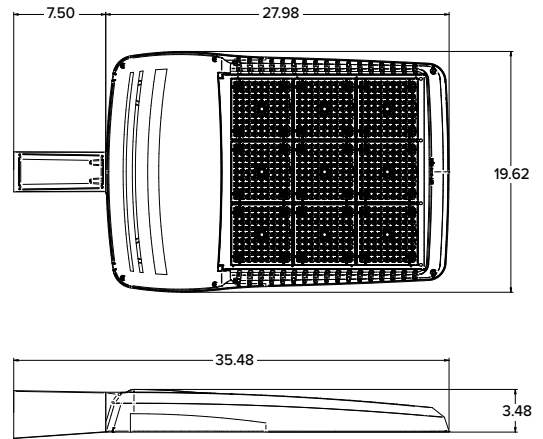
### SIZE 2









### 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

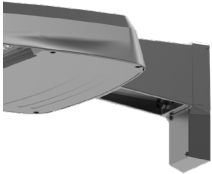
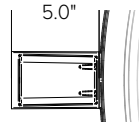
VIPER LUMINAIRE

## MOUNTING



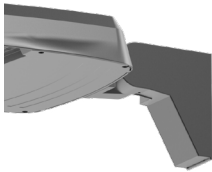
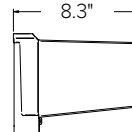
### A-STRAIGHT ARM MOUNT

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



### ASQU-UNIVERSAL ARM MOUNT

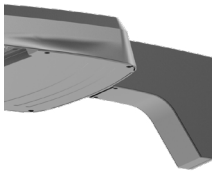
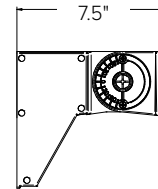
Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)



### AAU-ADJUSTABLE ARM FOR POLE MOUNTING

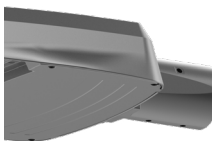
Rotatable arm mounts directly to pole. Compatible with drill patterns from 2.5" to 4.5" and Current drill pattern S2 and B3. For round poles add applicable suffix (2/3/4/5). Rotatable in 15° aiming angle increments. Micro Strike configurations have a 45° aiming limitation.

Strike configurations have a 30° aiming limitation.



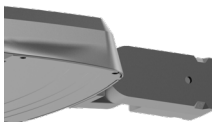
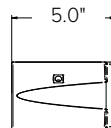
### ADU-DECORATIVE UPSWEPT ARM

Upswept Arm compatible with drill patterns from 2.5" to 4.5" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5).



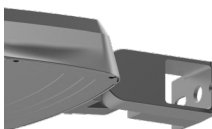
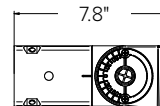
### MAF-MAST ARM FITTER

Fits 2-3/8" OD horizontal tenons.



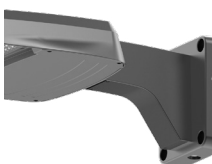
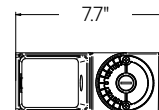
### K-KNUCKLE

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.



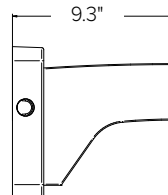
### T-TRUNNION

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

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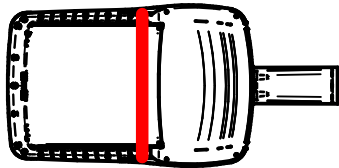
## ADDITIONAL INFORMATION (CONTINUED)

### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

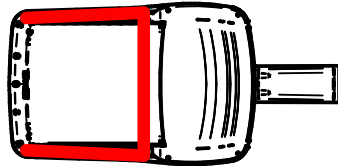
HSS has a depth of 5" for all Viper sizes

Not to be used with Occupancy Sensors as the shield may block the light to the sensor.

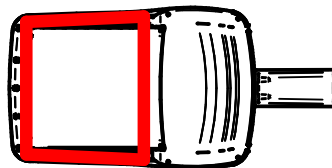
VPR2x HSS-90-B-xx



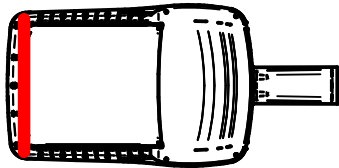
VPR2x HSS-270-BSS-xx



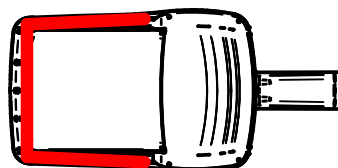
VPR2x HSS-360-xx



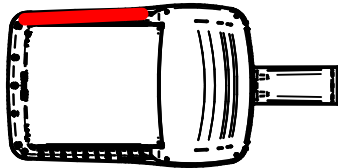
VPR2x HSS-90-F-xx



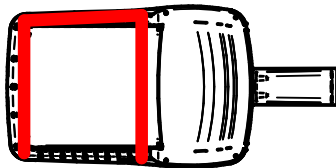
VPR2x HSS-270-FSS-xx



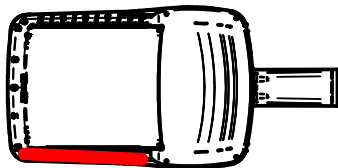
VPR2x HSS-90-S-xx



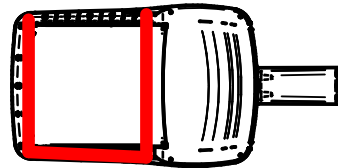
VPR2x HSS-270-FSB-xx



VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx



# VIPER Area/Site

VIPER LUMINAIRE

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TYPE:	PROJECT:
CATALOG #:	

## 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

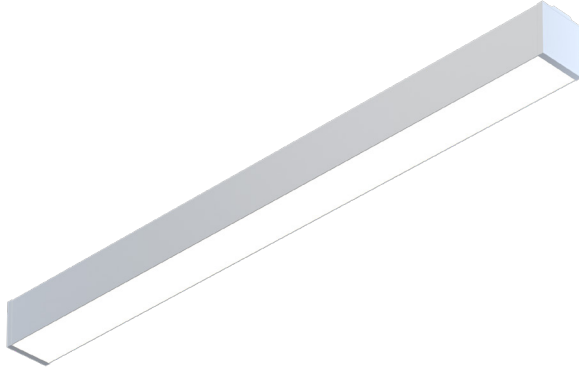
- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

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

# LS Wet direct

## CANOPY LIGHT\_L

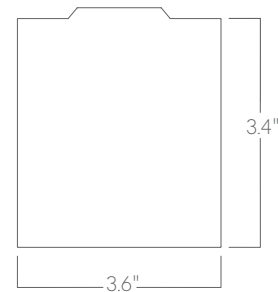


The LS Series of architectural luminaires offers a wide range of profiles and mounting options. Custom lengths are tailored to suit any modern space.

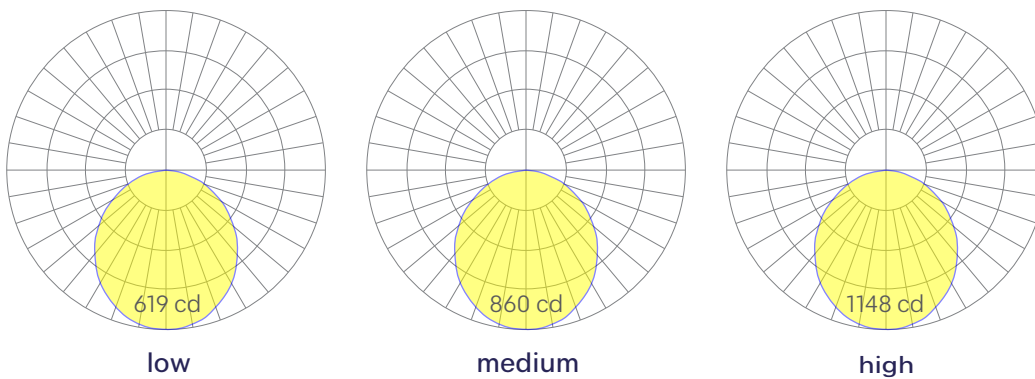
## Features

- Aluminum housing with waterproof seals and connectors
- Rated for wet locations
- Aluminum core LED boards
- Specifiable color temperature. CRI > 90, R9 >50
- Custom lengths and finishes available
- Integral specifiable dimmable drivers or PoE (remote)
- 5 Year, 50,000 hour warranty

## Dimensions



## Optics



Representative distribution and peak candela. For other options see order information or IES files [here](#).

# LS Wet direct

## Ordering Information

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12

Example: LS WET - 8 - 35 - MED - UNV - DB - W - SM - SD - CCS - DAYCKT - NA

Fixture ID	1	Length	2	Color Temperature	3	Output	4
LS WET		8 X' 8 ft Continuous Runs <sup>1</sup>		27 2700K/90 CRI 30 3000K/90 CRI 35 3500K/90 CRI 40 4000K/90 CRI 50 5000K/90 CRI  WD <sup>1</sup> Warm Dim 2200K-3000K TW <sup>2</sup> Tunable White 2700K-6500K		LOW Low output MED Medium output HIGH High output CUST Custom output <sup>1</sup>	
		<sup>1</sup> Joiner brackets provided; 8ft increments only.		<sup>1</sup> Must use WD10 driver. <sup>2</sup> Must use TW10 or PSQ driver.		<sup>1</sup> consult factory	
Voltage	5	Driver	6	Finish	7	Mounting	8
UNV Universal (120/277V) 347V <sup>1</sup>		DB Standard 0-10V 1% DB.1% 0-10V 0.1% ELV <sup>2</sup> Reverse Phase 1% (120V only) TRI <sup>2</sup> Forward phase (120V only) LDE1 Lutron Digital EcoSystem DALI DALI-2 Driver PoE Power over ethernet. TW10 Dual channel, 0-10V for tunable white. WD10 0-10V Warm Dim PSQ Lutron T-Series 2-channel 1% for tunable white DMX <sup>1</sup> DMX512		SA Satin Aluminum (Standard) W White BLK Black		SM Surface mount WM Wall mount PS-X Pendant stem (12", 18", 24", 36", 48")	
		<sup>1</sup> Set to default address 001. Contact us for other addressing needs. All DMX drivers provided in remote enclosures. <sup>2</sup> For compatible dimmers, click here.				White stems and canopy provided. Must specify other requests	
Optics	9	Sensors/Controls	10	Circuit	11	Options	12
SD Standard Diffuser		NA None CCS Casambi Module		NA None EMPCK Emergency Battery Pack EMCKT Emergency Circuit		STD White Canopy + White Cord CAN-X <sup>1</sup> Canopy + color SJ-X <sup>2</sup> SJ Cord + color	
						<sup>1</sup> See finish options <a href="#">here</a> . <sup>2</sup> SJ Cord only available in White or Black.	

## Performance

Output <sup>1</sup>	Watts/ft	Lumens/ft
Low	5	425
Medium	7	590
High	10	844

<sup>1</sup>Based on a typically configured 90 CRI, 3500K luminaire using one driver.

Custom outputs available. Please consult factory.  
For 4000K multiply by 1.05; for 3000K 0.9%; for 2700K, 0.92.

## Technical Information



click [here](#) or  
scan QR code

Wiring diagrams, PoE and sensor details

Modification date: July 2023

Page 2 of 4

# LS Wet direct

## Drivers & Electrical

Integral drivers\* with 0-10V Dimming standard. Several other driver options available; see ordering information.

\*DMX drivers are provided in remote enclosures.

## Sensors & Controls

Sensors are installed on an aluminum plate adjacent to the luminaire lens<sup>1</sup>. Coronet remains agnostic in our approach to sensors and control systems; our fixtures are compatible with most systems offered.

<sup>1</sup>Not applicable to indirect only models. Consult factory.

## Emergency Back-Up

For fixtures three-feet or longer, a 4W integral emergency driver may be wired to 4ft sections. 7W, 10W, and 12W drivers are also available (not all integral; consult factory). Emergency circuits for use with building generators are also available.

## PoE (Power over Ethernet)

Compatible with virtually all PoE systems including Molex Coresync, Igor, Smartengine, Platformatics, and NuLED SPICEbox.

Consult Factory for systems not listed, See [here](#) for more info.

## Finishes

All luminaires are finished in high quality polyester powder coating. Our standard color is satin aluminum.

## Weight

5 lbs per foot

## Optics

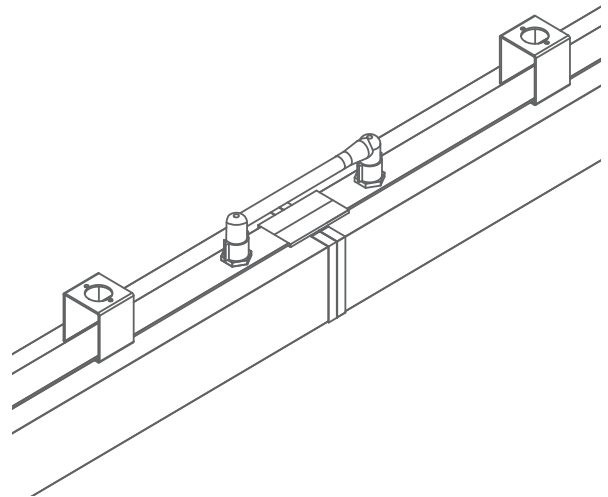
Extruded satin acrylic lenses provide excellent diffusion, high transmission, and no LED imaging.

## Construction

Housings are extruded premium, recycled aluminum. Individual fixtures are available up to 8' long.

## Joined Runs

Runs of any length may be specified and are comprised of multiple, factory-engineered, joined sections. Individually specified luminaires are not field joinable.

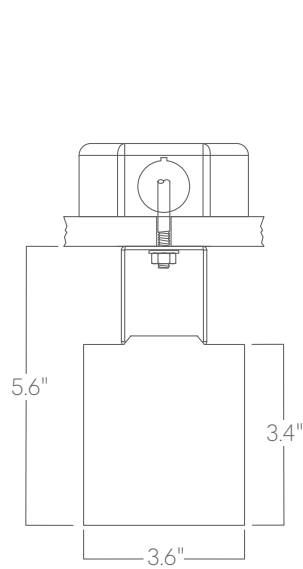


Representative joinery. For product specific details see installation guides or submittal drawings.

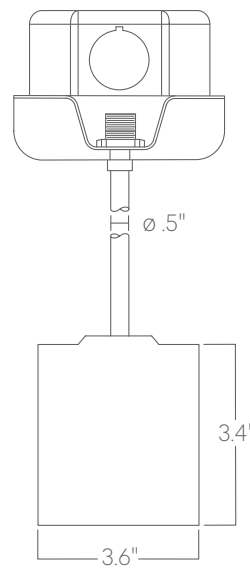
# LS Wet direct

## Mounting Options

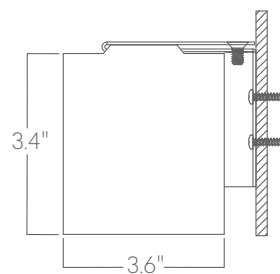
Custom mounting types and ceiling transitions available; consult factory.



**Surface mount**



**Pendant stem**



**Wall mount**



**Type:**  
**Job:**  
**Catalog number:**



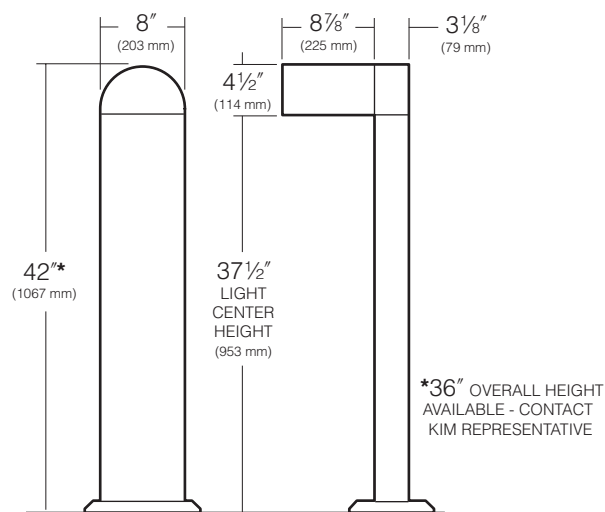
**Approvals:**

<b>SL1</b>	<b>/</b>	<b>/</b>	<b>/</b>
Fixture	Electrical Module	Finish	Options
	See page 2		See page 3

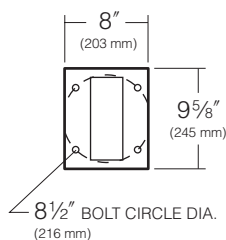
## Specifications

### SL1 LED

Maximum weight: 37 lb



### BASE PLAN SL1



**Head:** One-piece cast, low-copper (<0.6% Cu) aluminum, 3/16" wall thickness with external reveal unifying head and shaft. Attachment to shaft is by four bolts concealed within the head.

**Shaft:** One-piece extruded aluminum with internal tracks for attaching head and base.

**Base:** One-piece cast, low-copper (<0.6% Cu) aluminum secured to shaft by four concealed stainless steel bolts.

**Lens:** Clear flat 1/8" thick tempered glass retained by two stainless steel brackets, and four stainless steel, hex socket cap screws, fully gasketed.

**LED Optical System:** A total of 27 mid power LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 version and four (4) modules for 36 version. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

**LED Driver:** Universal voltage from 120 to 277V with a  $\pm 10\%$  tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

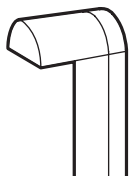
**Anchor Bolts:** Four 3/8" x 10" + 2" zinc plated L-hooks complete with leveling nuts, washers, couplings, rigid pressed board template and black stainless steel bolts.

**Finish:** Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

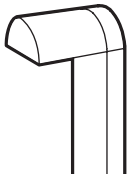
**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.




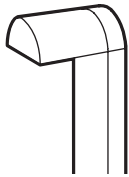
## Standard Features

<b>Fixture</b>	Cat. No. <b>SL1</b> Site Lightforms		
<b>Electrical Module</b> <b>LED</b> = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available: <div> <div> <b>xL</b>  <b>Source:</b>              <b>18L</b> = 18 version              <b>36L</b> = 36 version         </div> <div> <b>xK</b>  <b>Color Temperature:</b>              2K = 580nm - Amber              3K = 3000K              4K = 4000K              5K = 5000K         </div> <div> <b>UV</b>  <b>Voltage:</b>              <b>UV</b> Universal Voltage shall range from 120V-277V         </div> </div>		
<b>Finish</b> TGIC powder coat paint	Cat. No.: Color:   <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> Graphic Matte Textured   <b>LGS</b> Light Grey Gloss Smooth	Cat. No.: Color:   <b>LGT</b> Light Grey Matte Textured   <b>PSS</b> Platinum Silver Gloss Smooth   <b>VGT</b> Verde Green Matte Textured   <b>WHS</b> White Gloss Smooth   <b>WHT</b> White Matte Textured   <b>CC</b> <sup>2</sup> Custom Color	<sup>2</sup> Custom colors subject to additional charges, minimum quantities and extended lead times.
<b>0-10V Dimming Interface</b>	Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems. Note: Not compatible with current sourcing dimmers. Controls compatible via Pink and Purple dimming lead. <div> </div>		



Optional Features

<b>Battery Back-up</b> Cat. No.   <b>EM</b>   <b>No Option</b>	Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.	 battery back-up
<b>Optional Duplex Receptacle</b> Cat. No.   <b>DR</b>   <b>DR-GFI</b>   <b>No Option</b>	Mounted 18" from bottom of shaft with a gasketed While-In-Use cover with locking tab. Painted to match bollard. <b>DR</b> weather proof duplex receptacle rated 20A, 125V. <b>DR-GFI</b> weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.	



## Lumen Data

Electrical Drive Current					
450mA					
18 Version			36 Version		
Volts - AC	Amps - AC	System Watts	Volts - AC	Amps - AC	System Watts
120	0.22	26	120	0.48	56
208	0.13	26	208	0.27	56
240	0.11	26	240	0.24	56
277	0.09	26	277	0.21	56

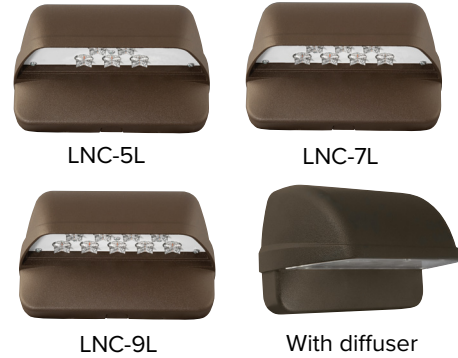
B.U.G. Rating for 450mA (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare		
Temperature	18 VERSION	36 VERSION
3000K	B1 U0 G1	B2 U0 G1
4000K	B1 U0 G1	B2 U0 G1
5000K	B1 U0 G1	B2 U0 G1

Absolute Lumens for 450mA		
Temperature	18 VERSION	36 VERSION
3000K	2448	5058
4000K	2511	5188
5000K	2540	5247

LED performance and lumen output continues to improve at a rapid pace.  
For custom optics and color temperature configurations, contact factory.

## FEATURES

- Compact LNC LED is designed for perimeter illumination and available in 3 lumen packages for safety, security and identity
- 3000K, 4000K, 5000K and Amber color temperatures
- Up to 4:1 spacing to mounting height ratio means fewer fixtures to install
- Acrylic diffuser included! Use for applications near entrances or locations where reduced brightness is desired. (Maximum spacing with diffuser 30ft)
- Die-cast aluminum housing with decorative Laredo styling
- Full cut-off neighbor friendly
- Listed to UL1598 for use in wet locations



\*3000K and warmer CCTs only

## SPECIFICATIONS

### CONSTRUCTION

- Decorative die-cast aluminum housing and door
- Rugged design protects internal components and provides excellent thermal management for long life
- Powder paint finishes provide lasting appearance in outdoor environments
- Full cut-off distribution; Ambient diffuser included, use for applications near entrances or locations where reduced brightness is desired

### OPTICS

- Drivers are 120-277V, 50/60Hz Type II, III and Type IV lenses provide wide lateral spread
- 3000K - 80 CRI, 4000K - 70 CRI, and 5000K - 70 CRI, CCT nominal
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

### INSTALLATION

- Quick mount adapter provides quick installation, designed for recessed box 4" square junction box

### ELECTRICAL

- 60,000 hours minimum LED life at L96 rating per IESNA TM-21-11
- Minimum operating temperature is -40°C/-40°F
- 0-10V dimming 120-277V only
- LNC5L – 5 LEDs, Types II, III or IV available, see page 2 for electrical details
- LNC7L – 7 LEDs, Type II, III or IV available, see page 2 for electrical details
- LNC9L – 9 LEDs, Types II, III or IV available, see page 2 for electrical details

### CONTROLS

- Photocontrol option is available to provide dusk-to-dawn control for additional energy savings

### CERTIFICATIONS

- Listed and labeled to UL 1598 for wet locations, 25°C ambient environments

### WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	800–2100
Wattage Range	13–22
Efficacy Range (LPW)	64–95
Fixture Projected Life (Hours)	L96>60K
Weights lbs. (kg)	9.6 (24.5)

## ORDERING GUIDE

Example: LNC-5L-U-3K-2-BLT-PCU

CATALOG #

## ORDERING INFORMATION

Series	# LEDs	Voltage	CCT/CRI	IES Distribution	Finish	Controls
LNC LNC Zero Uplight	<b>5L</b> 5 LEDs <b>7L</b> 7 LEDs <b>9L</b> 9 LEDs	<b>U</b> 120-277V <b>1</b> 120V <b>2</b> 208V <b>3</b> 240V <b>4</b> 277V	<b>3K</b> 3000K nominal, 70 CRI <b>4K</b> 4000K nominal, 70 CRI <b>5K</b> 5000K nominal, 70 CRI <b>AM</b> Amber (590 μm available for "Turtle Friendly"/ observatory applications, 350mA (consult factory) <sup>1</sup>	<b>2</b> Type II <b>3</b> Type III <b>4</b> Type IV	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Brone 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>VGTT</b> Verde Green Textured <b>Color Option</b> <b>CC</b> Custom Color	<b>PCU</b> Universal Button Photocell

Notes:

<sup>1</sup> Amber LEDs only available on 7L and 9L configurations, 350mA

## REPLACEMENT PARTS AND ACCESSORIES

Catalog Number	Description
<input type="checkbox"/> 93039574	Frosted comfort shield, improved uniformity with only 5% reduction

## PERFORMANCE DATA

# Of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)		4K (4000K NOMINAL 70 CRI)		3K (3000K NOMINAL 80 CRI)		AM ( $<580$ nm wave-length)		
				Lumens	LPW*	Lumens	LPW	Lumens	LPW	Lumens	System Watts	LPW*
5	STD. (700mA) AM (350mA)	13W	2	1,150	88.5	1,052	81	883	68	—	—	—
			3	1,132	87	1,077	83	833	64	—	—	—
			4	1,146	88	1,053	81	849	65	—	—	—
7		17W	2	1,515	89	1,369	80.5	1,272	75	—	—	—
			3	1,500	88	1,539	90.5	1,392	82	268	6.6	59
			4	1,557	91.5	1,535	90	1,425	84	—	—	—
9		22W	2	2,069	94	2,033	92	1,588	72	—	—	—
			3	2,024	92	1,989	90	1,623	74	—	—	—
			4	2,095	95	2,059	93.5	1,680	76	382	8.3	46

\* 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. Please consult IES files for BUG ratings.

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11* L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.97	0.96	0.95	>791,000
40°C / 104°F	0.99	0.96	0.96	0.96	0.94	>635,000

\* Projected per IESNA TM-21-11 \* Data references the extrapolated performance projections for the LNC-12LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

## ELECTRICAL DATA

# OF LEDS	Drive Current (mA)	Input Voltage (V)	Oper. Current (Amps)	System Power (W)
9	STD. (700mA)	120	0.11	13
		277	0.05	
12	STD. (700mA)	120	0.14	17
		277	0.07	
12	STD. (700mA)	120	0.17	22
		277	0.09	

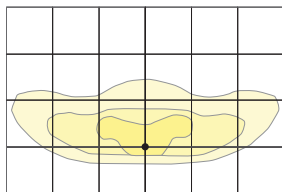
## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		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	1.00
40° C	104° F	0.99
50° C	122° F	0.98

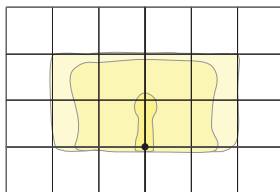
Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

## PHOTOMETRY

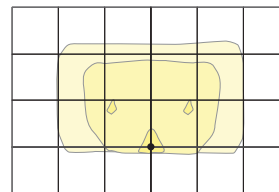
LNC9LU – Type II



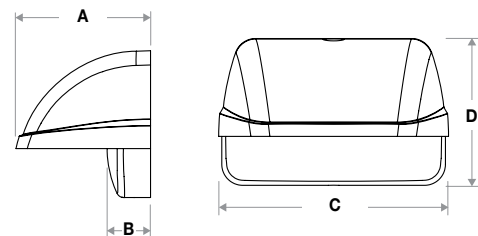
LNC9LU – Type III



LNC9LU – Type IV



## DIMENSIONS



A	B	C	D
4.81" (122 mm)	1.55" (39 mm)	8.22" (209 mm)	5.25" (133 mm)

## ADDITIONAL INFORMATION

### SHIPPING INFORMATION

Catalog Number	G.W(kg)/ CTN	Carton Dimensions			Carton Qty. per Master Pack
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)	
LNC-5LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)	2
LNC-7LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)	2
LNC-9LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)	2

## USE OF TRADEMARKS AND TRADE NAMES

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# LNC2

SMALL LED LITEPAK

## EMERGENCY BATTERY PACK\_WALL LIGHT

### FEATURES

- 60% more lumens and increased performance than smaller LNC models
- 3000K, 4000K and 5000K as well as Amber
- Type II, III and IV distributions available for a variety of application needs
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada
- Full cut-off, neighbor friendly
- Optional photocontrol for additional energy savings



**IP65**



10-DAY QUICK SHIP PROGRAM



### CONTROL TECHNOLOGY



### SPECIFICATIONS

#### CONSTRUCTION

- Rugged die-cast aluminum housing protects components and provides an architectural appearance
- Casting thermally conducts LED heat to optimize performance and long life
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.

#### OPTICS

- Zero uplight distributions using individual acrylic Micro Strike Optics
- LED optics provide IES type III and IV distributions. Optional (CS) acrylic diffuser available for reduced glare
- Prismatic refractor lens provides ~10% uplight for increased vertical footcandles and forward light projection ideal for security lighting
- L96 at 60,000hrs (Projected per IESNA TM-21-11), see table on page 3 for all values

#### INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct j-box mount.
- Optional 1/2" conduit hubs available (standard for control options and battery versions)

#### ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option available in 25W and 35W configurations
- Minimum operating temperature is -40°C/-40°F
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- Driver RoHS and IP66
- 10kA surge protector available as an option
- 3000K CCT nominal, 4000K CCT nominal, 5000K CCT nominal (70 CRI)

#### CONTROLS

- Universal button photocontrol for use with 120-277V configurations
- Occupancy sensor options available for complete on/off and dimming control
- NX Lighting Controls™ available that feature dimming and occupancy sensor
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress. Uses 15 watts of power for about 2000 lumens
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options can not be included in one fixture.

#### CERTIFICATIONS

- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to <http://www.designlights.org/> for the most up-to-date list.
- Fixture is IP65 rated
- 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.

#### WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1000-5600
Wattage Range	10-45
Efficacy Range (LPW)	108-124
Weights lbs. (kg)	9.6 (24.5)

# LNC2

SMALL LED LITEPAK

## ORDERING GUIDE

CATALOG #

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

= Service Program  
Limit of 15 luminaires



Example: LNC2-48L-25-3K7-3-UNV-DBT-PC

## ORDERING INFORMATION

Series	Light Engine	CCT/CRI	Distribution	Voltage
LNC2 Small LitePak LNC2	<b>48L-10</b> 1000 lumens <b>48L-15</b> 2000 lumens <b>48L-20</b> 2500 lumens <b>48L-25</b> 3500 lumens <b>48L-35</b> 4500 lumens <b>48L-45</b> 5500 lumens <b>P15</b> 15w Prismatic <b>P25</b> 25w Prismatic <b>P35</b> 35w Prismatic	<b>3K7</b> 3000K, 70 CRI <b>4K7</b> 4000K, 70 CRI <b>5K7</b> 5000K, 70 CRI <b>AP</b> Amber Phosphor Converted <sup>12</sup>	<b>3</b> Type 3 <b>4W</b> Type 4 Wide <b>FT</b> Forward Throw <sup>8</sup>	<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 <sup>7</sup> <b>480</b> 480V <sup>7</sup>

Mounting	Finish	Control Options	Additional Options
Leave blank for down <b>NV</b> Inverted <sup>3</sup>	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Brone 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>PC</b> Photocontrol <sup>4</sup> <b>BTS012F</b> "Bluetooth Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height <sup>5,9</sup> <b>SCP_F</b> Programmable Occupancy Sensor to Control Options Section <sup>10,11</sup>	<b>F</b> Fusing (specify voltage) <b>EH</b> Battery Backup Unit with Heater (-30°C) <sup>6</sup> <b>E</b> Battery Backup Unit (0°C) <sup>6</sup> <b>CS</b> Comfort Shield (N/A with Prismatic Refractor) <b>2DR</b> Dual Driver <sup>1,2</sup> <b>2PF</b> Dual Power Feed <sup>1,2</sup> <b>CH</b> Surface Conduit Hubs <sup>5</sup> <b>SP</b> 10kA Surge Protector

### NOTES

- Available in 35 & 45W
- Options cannot be combined with controls or PC option
- Not available with occupancy sensor, battery backup or prismatic refractor options
- PC comes in standard housing
- BTS and CH options come in medium back box
- E and EH come in large back box
- 347V & 480V only available in 25 and 35W
- FT only for P15, P25, P35 Prismatic lenses option
- Only available in 45 Watt
- Not available in 347/480 Volt
- Select 8 ft or 20 ft mounting height
- Can be ordered as ETO

## REPLACEMENT PART - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> WP-BB-XXX*	Accessory for conduit entry

Notes:

\* Replace XXX with paint color

## PERFORMANCE DATA

System Watts	Input Voltage	Current (AMPS)	System Power (W)
10W	120	0.09	10.6
	277	0.038	
	347	0.031	
	480	0.022	
15W	120	0.12	14.5
	277	0.07	
	347	0.04	
	480	0.03	
20W	120	0.169	20
	277	0.072	
	347	0.058	
	480	0.042	
25W	120	0.235	28
	277	0.101	
	347	0.081	
	480	0.058	
35W	120	0.305	36.4
	277	0.131	
	347	0.105	
	480	0.076	
45W	120	0.378	45.1
	277	0.163	
	347	0.13	
	480	0.094	

## PROJECTED LUMEN MAINTENANCE

### STANDARD 9, 12 AND 18L VERSIONS

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11* L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1	0.97	0.95	0.94	0.91	408,000
40°C / 104°F	0.99	0.96	0.94	0.93	0.89	356,000

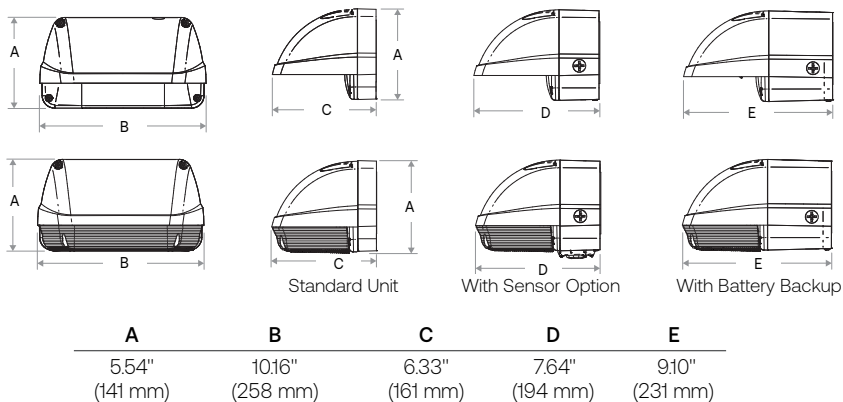
### LUMINAIRE AMBIENT TEMP FACTOR

AMB TEMP		LUMEN MULTIPLIER
0C	32F	1.03
10C	50F	1.01
20C	68F	1
25C	77F	1
30C	86F	0.99
40C	104F	0.98

## LUMEN

Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)			4K (4000K NOMINAL 70 CRI)			3K (3000K NOMINAL 80 CRI)		
			Lumens	LPW	B-U-G	Lumens	LPW	B-U-G	Lumens	LPW	B-U-G
10W	10.6W	Type 3	1213	121	B0-U0-G0	1117	112	B0-U0-G0	1081	108	B0-U0-G0
		Type 4	1244	124	B0-U0-G0	1144	114	B0-U0-G0	1109	111	B0-U0-G0
15W	14.5W	Type 3	1820	121	B0-U0-G0	1676	112	B0-U0-G1	1622	108	B0-U0-G1
		Type 4	1868	125	B0-U0-G1	1718	115	B0-U0-G1	1663	111	B0-U0-G1
20W	20W	Type 3	2427	121	B0-U0-G1	2234	112	B0-U0-G1	2163	108	B0-U0-G1
		Type 4	2487	124	B0-U0-G1	2292	115	B0-U0-G1	2218	111	B0-U0-G1
25W	28W	Type 3	3033	121	B1-U0-G1	2793	112	B0-U0-G1	2703	108	B0-U0-G1
		Type 4	3112	124	B0-U0-G1	2862	114	B0-U0-G1	2772	111	B0-U0-G1
35W	36.4W	Type 3	4247	121	B1-U0-G1	3910	112	B1-U0-G1	3785	108	B0-U0-G1
		Type 4	4355	124	B1-U0-G2	4011	115	B1-U0-G1	3881	111	B1-U0-G1
45W	45.1W	Type 3	5466	118	B1-U0-G1	5031	112	B1-U0-G1	4871	106	B1-U0-G2
		Type 4	5604	117	B1-U0-G2	5159	108	B1-U0-G2	4995	104	B1-U0-G2

## DIMENSIONS



## LNC2

SMALL LED LITEPAK

### ADDITIONAL INFORMATION

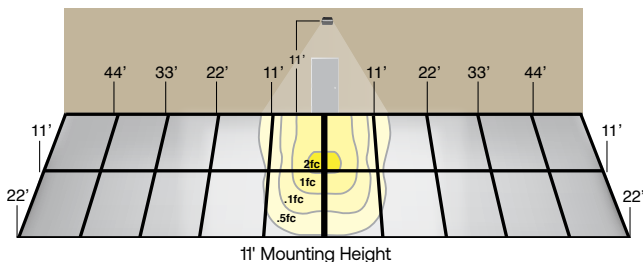
#### SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions			Carton Qty. per Master Pack
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)	
LNC2	14.3 (6.5)	14.5 (37)	11.4 (29)	8.4 (21.5)	2

#### CONTROL TABLE

Control Option	Sensor	Network-able	Scheduling	Occupancy	Daylight Harvesting	On/Off Control	Programming	Pair with Sensor	Sensor Mounting Height
PC	–	–	–	–	–	✓	–	–	–
BTSO12F	BTSMP-OMNI	–	–	✓	✓	with auxiliary driver	–	–	12 ft

#### LNC2 - BATTERY BACK UP



Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions and mounting height of 11'.

Diagrams for illustration purposes only, please consult factory for application layout.

Battery backup units consume 6 watts when charging a dead battery and 2 watts during maintenance charging. EH (units with a heater) consume up to an additional 8 watts when charging if the battery temp is lower than 10°C

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

## FEATURES

- For ceiling mount and parking garage applications from an 8–15 foot mounting height
- Edge-lit flat lens for optimal visual comfort and uniformity across the lens
- Two optical distributions specifically design for parking garage and canopy applications are available making the Beacon Edge-Lit luminaire both versatile and functional
- UL/cUL listed for wet locations, IP65 and 3G vibration rated
- Occupancy sensor available for complete on/off and dimming operation



See Certification Specifications

## GARAGE\_F-1



## RELATED PRODUCTS

- [Drive Edge-Lit SRT2](#)
[Orbeon](#)
[Viper Small](#)

## SPECIFICATIONS

### HOUSING

- Die-cast aluminum housing ensures long electrical component life and luminaire performance
- Corrosion resistant powder coat finish both protects and provides architectural appearance
- One piece molded silicone gasket ensures weather proof seal
- Thermally isolated driver mounted to dedicated bracket reduces operating temperatures and increases driver life and reliability

### OPTICS

- Edge-lit acrylic light guide provides blended non-pixelated light for unprecedented visual comfort
- Choice of multiple light outputs with lumen range of 2000–6000
- Two distribution types: Type 5 Square Wide, Type 5 Concentrated
- Wide variety of CCT's and CRI's offered: 3000K (70CRI), 3000K (80CRI), 3500K (80CRI), 4000K (70CRI), 4000K (80CRI) or 5000K (70 CRI) CCT

### ELECTRICAL

- 120V–277V 50/60Hz available
- 0–10V dimming drivers are RoHS compliant
- 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 24" standard

### INSTALLATION

- Standard quick mount plate over standard 4" junction box or octagonal junction box and allows for simplified fixture installation
- Standard luminaire accepts a rigid or 3/4" NPT stem for pendant mounting via wet location j-box (by others)
- Optional bird deterrent shroud available for field installation

### OPTIONS/CONTROLS

- Standalone occupancy sensor available for on/off or dimming operation
- Uplight option provides approximately 800 lumens and consumes only 8 additional watts
- Vandal resistant wire guard available as an option for factory installation or as an accessory for field installation
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

### CERTIFICATIONS

- Listed to UL1598 for use in wet location, listed for -40°C to 40°C applications
- IDA approved with zero uplift for 3000K and warmer CCTs
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
- 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](http://Buy American Solutions)
- IP65

### WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	2000–6800
Wattage Range	15–55W
Efficacy Range (LPW)	99–118
Reported Life (Hours)	50K
Weight lbs. (kg)	8 (3.6)

# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

## ORDERING GUIDE

Example: SRT1-35-3K7-5QW-UNV-BLT-WG

CATALOG #

Series	Engine	CCT	Distribution	Voltage	Color/Finish	Options
SRT1 Edge-Lit Parking Garage Size 1	15 15W Nominal 2000 lm	3K7 3000K, 70 CRI	5QW Type 5 Square Wide	UNV 120V- 277V	BLT Black Matte Textured	WG Wire Guard
	20 20W Nominal 2500 lm	3K8 3000K, 80 CRI	5C Type 5 Concentrated	120 120V	BLS Black Gloss Smooth	UD Uplight Module <sup>3</sup>
	35 35W Nominal 4500 lm	35K8 3500K, 80 CRI		208 208V	DBT Dark Bronze Matte	F Single Fuse (120, 277) <sup>1</sup>
	55 55W Nominal 6500 lm	4K7 4000K, 70 CRI		240 240V	DBS Dark Bronze Gloss Smooth	LD3 36" Lead Length <sup>2</sup>
		4K8 4000K, 80 CRI		277 277V	GTT Graphite Matte Textured	LD6 72" Lead Length <sup>2</sup>
		5K7 5000K, 70 CRI			LGS Light Grey Gloss Smooth	LD9 108" Lead Length <sup>2</sup>
					PSS Platinum Silver Smooth	SP10K 10kA Surge Protection <sup>3</sup>
					WHT White Matte Textured	LMB Less Mounting Bracket
					WHS White Gloss Smooth	CD Continuous Dimming <sup>4</sup>
					VGT Verde Green Textured	
					<b>Color Option</b>	
					CC Custom Colors	

Control Options	
<b><u>NX Standalone</u></b>	
<b>NXOS12F</b>	NX Distributed Intelligence™, PIR Occ. Sensor, Dimming Daylight Harvesting, up to 12' MH
<b><u>Sensor Controls</u></b>	
<b>SCP-8F</b>	Remote control programmable line voltage sensor (8-12' recommended mounting height) <sup>4</sup>
<b>SCP-20F</b>	Remote control programmable line voltage sensor (12-20' recommended mounting height) <sup>4</sup>

### Accessories (Order Separately)

- ☐ **SRT1-WG** Wire Guard
- ☐ **SRT-MB** Mounting bracket for pre-installation
- ☐ **SRT1-BS-XXX** Bird deterrent shroud for SRT1 version, not available with uplight
- ☐ **SCP-REMOTE** Remote control for SCP option; order at least on per project to program and control

#### Notes:

- 1 Must specify voltage
- 2 Standard wire lead length 24"
- 3 SP10K or NXOS12F not available with uplight (UD)
- 4 120V or 277V only

## PERFORMANCE DATA

Nominal Watts	Nominal Lumens	Distribution	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
15	2500	5C	2470	146.61	1	0	1	2459	145.91	1	0	1	2364	140.30	1	0	1
		5QW	2378	141.15	1	0	1	2367	140.48	1	0	1	2276	135.07	1	0	1
20	3000	5C	3093	136.86	1	0	1	3078	136.21	1	0	1	2960	130.97	1	0	1
		5QW	2974	131.60	1	0	1	2960	130.97	1	0	1	2846	125.93	1	0	1
35	4500	5C	4757	131.05	2	0	1	4734	130.42	2	0	1	4552	125.41	2	0	1
		5QW	4574	126.01	2	0	1	4552	125.41	2	0	1	4377	120.58	2	0	1
55	6500	5C	6814	127.13	2	0	1	6782	126.52	2	0	1	6521	121.66	2	0	1
		5QW	6552	122.24	3	0	1	6521	121.66	3	0	1	6270	116.98	3	0	1

## ELECTRICAL DATA

Nominal Watts	System Watts	Line Voltage		AMPS AC				Dimming Range	Absolute Voltage Range on 0-10V (+)	
		VAC	HZ	120	208	240	277		VAC	HZ
15	16.9	120-277	50/60	0.14	0.08	0.07	0.06	10% to 100%	0V	10V
20	21.6	120-277	50/60	0.18	0.10	0.09	0.08	10% to 100%	0V	10V
35	34.6	120-277	50/61	0.29	0.17	0.14	0.12	10% to 100%	0V	10V
55	54.9	120-277	50/62	0.46	0.26	0.23	0.20	10% to 100%	0V	10V



# SRT1 EDGE-LIT

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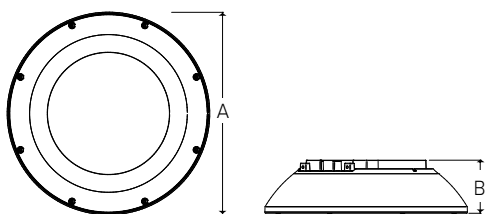
## PROJECTED LUMEN MAINTENANCE

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	0.98	0.96	0.95	0.89	278,000
40°C / 104°F	0.99	0.98	0.96	0.94	0.88	264,000

## 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

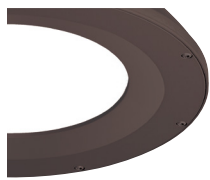
## DIMENSIONS



A	B	Weight
12" (304mm)	3.1" (78mm)	8lbs (3.6kg)

## ADDITIONAL INFORMATION

### FINISH OPTIONS



**DB** Dark Bronze Textured



**BL** Black Textured



**PS** Platinum Silver Smooth



**GYS** Gray Smooth



**WH** White Textured



**GT** Graphite Textured



**Wire Guard**

An optional wire guard can be specified at the factory or as an accessory for field installation.



**Bird Deterrent**

An optional bird shroud deterrent can be specified at the factory or as an accessory for field installation.

# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

## ADDITIONAL INFORMATION (CONT'D)

### MOUNTING



Surface Mount

Mounting plate with “quick mount” hanger for one person simple installation.



Pendant Mount

Standard 3/4" threaded entry for pendant applications.

**GARAGE\_F-1**

### CONTROLS



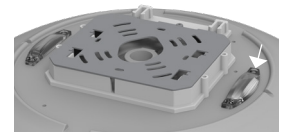
Standalone Controls

Optional passive infrared sensors are available for basic occupancy and daylight sensing. Programmable via remote or Bluetooth® phone app.

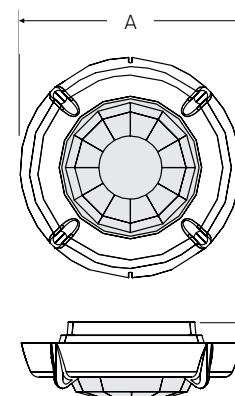
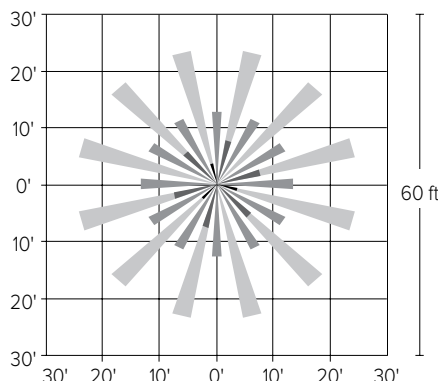
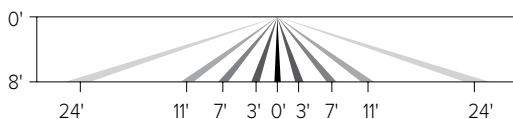


Uplight

Optional uplight module provides 800 lumens of indirect illumination for improved visual quality while eliminating cave effect.



### SCP-8F



A	B
2.3" (59mm)	.8" (20mm)

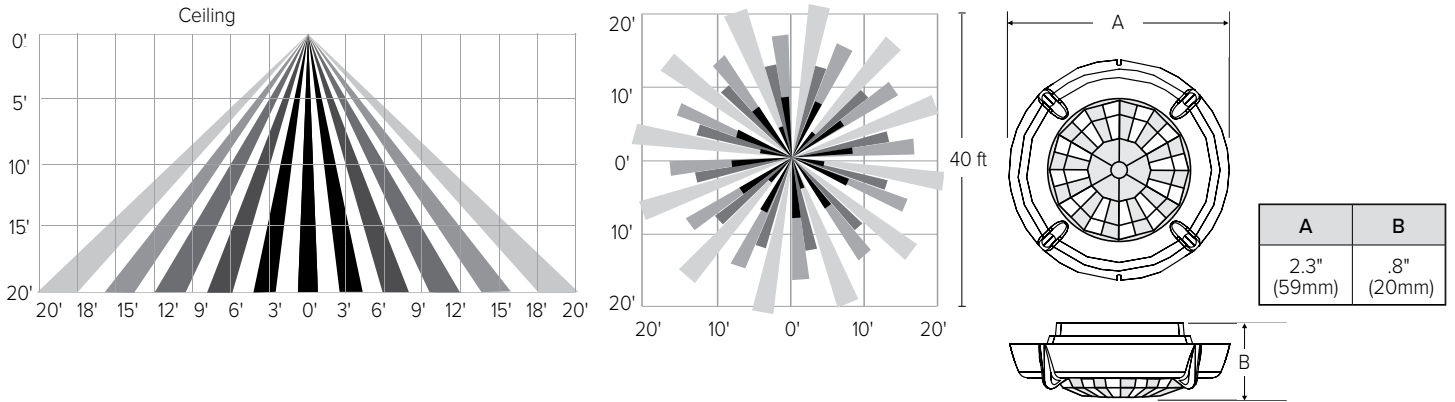
# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

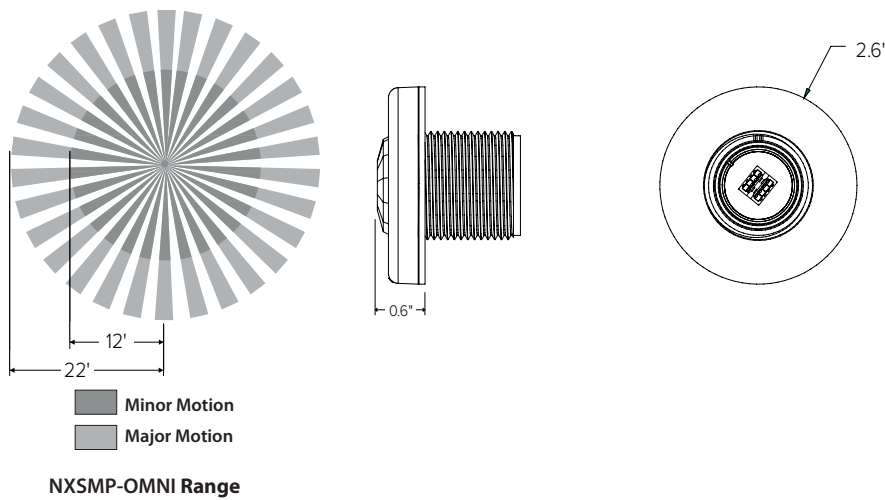
## ADDITIONAL INFORMATION (CONT'D)

### CONTROLS (CONT'D)

#### SCP-20F



#### NXOS12F



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