



**ADDENDUM #1**  
**Public Safety & Senior Center Parking Lot Projects**

The following changes are hereby made to the Contract Documents for the above referenced Project:

- **Spec sheets for the specific parking lot lights and light poles are attached for clarification purposes. This information pertains to Bid Items #21 and #47.**

This Addendum is hereby attached to and made part of the Bidding Documents and each Bidder shall acknowledge receipt of this Addendum on the Bid Form.

**Project Engineer:**

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# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## FEATURES

- Compact sleek design with multiple LED configurations and simple installation
- The Airo includes a universal mounting block for easy pole installation or mast arm option for 2-3/8" OD roadway brackets
- Capable of replacing up to 1000w HID luminaires
- Micro Strike optical distributions of Type 2, 3, 4W or 5QW
- Tool-less entry option for easy installation and maintenance
- 1.5G rated for high vibration applications including bridges and overpasses



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- Premium engineered individual acrylic lenses deliver IES Type 2, 3, 4W and 5QW distributions
- Lens distributions are field rotatable (in 90° increments) or exchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CRI) CCT
- 80, 160, or 320 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Tool-less entry to wiring/driver compartment optional
- Universal mounting block works with #2 drill pattern
- Fixture ships with slotted mounting block to accommodate wide range of drill patterns for easy retrofit opportunities
- Mast arm fitter accessory or option available for 2-3/8" OD brackets with vertical tilt of +3°, 0° or -3°

### 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 and 10KV 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 consumed

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 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
- SiteSync™ wireless control system is available via 7-pin See ordering information and details at: [www.hubbellighting.com/sitesync](http://www.hubbellighting.com/sitesync)
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor



## RELATED PRODUCTS

- [RAR1 Ratio](#) • [RAR2 Ratio](#) • [Cimarron LED](#)

### CONTROLS (CONTINUED)

- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor via 7-pin
- 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 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- DLC (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
- 1.5G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- 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 Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	3,200–36,000
Wattage Range	25–255
Efficacy Range (LPW)	118–148
Weight lbs. (kg)	14.5–17.5 (6.6–8.0)

# AIRO Micro Strike

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## ORDERING GUIDE

Example: ASL1-80L-50-3K7-2-UNV-ASQU-BLT-7PRMD-40F

CATALOG #

## ORDERING INFORMATION

Series	# LEDs	CCT/CRI	Distribution	Rotation/Orientation	Voltage	Mounting
<b>ASL1</b> ASL Microstrike Series	<b>80L-25</b> 3,000 lm <b>80L-39</b> 4,500 lm <b>80L-50</b> 6,000 lm <b>160L-70</b> 9,000 lm <b>160L-100</b> 12,000 lm <b>160L-115</b> 15,000 lm <b>160L-135</b> 18,000 lm	<b>3K7</b> 3000K, 70 CRI <b>4K7</b> 4000K, 70 CRI <b>5K7</b> 5000K, 70 CRI	<b>2</b> Type II <b>3</b> Type III <b>4W</b> Type 4W <b>5QW</b> Type 5QW	<b>L</b> Optic rotation left <b>R</b> Optic rotation right	<b>UNV</b> Universal 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	<b>ASQU</b> Arm Square w/ Universal Mount <b>A3</b> AS with 3.5-4.13" OD RPA3 & UM <b>A4</b> AS with 4.18-5.25" OD RPA4 & U <b>A5</b> AS with 5.5-6.5" OD RPA5 & UM <b>MAF</b> Mast Arm Fitter for 2-3/8" OD
<b>ASL2</b> ASL Microstrike Series	<b>320L-145</b> 21,000 lm <b>320L-170</b> 24,000 lm <b>320L-185</b> 27,000 lm <b>320L-210</b> 30,000 lm <b>320L-235</b> 33,000 lm <b>320L-255</b> 35,000 lm					

Control Options Network	Options	Color
<b>SWP<sup>1,2</sup></b> SiteSync pre-commissioned <b>SWPM<sup>1,2</sup></b> SiteSync wireless pre-commissioned w/ motion detection <b>NXSPW14F<sup>1</sup></b> NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS) <b>NXSPW30F<sup>1</sup></b> NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS) <b>NXSP14F<sup>1</sup></b> NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS) <b>NXSP30F<sup>1</sup></b> NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS) <b>NXWE<sup>1</sup></b> NX Wireless Enabled (module + radio)	<b>F<sup>3</sup></b> Fusing <b>BC</b> Backlight Control <b>TB<sup>4</sup></b> Terminal Block <b>TE</b> Toolless Entry <b>SSF</b> Stainless Steel Fasteners	<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 Matte Textured <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VG</b> Verde Green Textured
Stand Alone Sensors		Color Option
<b>SCP-8F<sup>5,6</sup></b> Remote control programmable line voltage sensor <b>SCP-40F<sup>5,6</sup></b> Remote control programmable line voltage sensor		<b>CC</b> Custom Color
Control Options Other		
<b>7PR</b> 7 Pin Receptacle <b>7PR-SC</b> 7 Pin Receptacle with shorting cap <b>7PR-MD8F</b> 7 pin receptacle with low voltage sensor at 8' mounting for external control accessory <b>7PR-MD40F</b> 7 pin receptacle with low voltage sensor at 40' mounting for external control accessory <b>7PR-TL</b> 7 Pin Receptacle with Photocontrol <b>ADD</b> AutoDim timer based dimming <b>ADT</b> AutoDim time of day dimming		
Sensors		
<b>BTS_F</b> Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens <sup>7</sup> <b>BTSO_F</b> Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens, up to 12' mounting height <sup>8</sup>		

### Notes:

- Not compatible with 80L configurations
- Not compatible with 480V configurations
- Must specify voltage
- Not available with a combination or 347/480 and fusing
- Must specify voltage, 120V or 277V only
- Order at least one SPC-REMOTE per project location to program and control the occupancy sensor
- Replace " " with "14" for up to 14' mounting height, "40F" for 15-40' mounting height
- Replace " " with "12" for up to 12' mounting height

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## CONTROL ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> SCP-Remote	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
<input type="checkbox"/> SWUSB	SiteSync™ Software on USB
<input type="checkbox"/> SWTAB	SiteSync™ Windows Tablet
<input type="checkbox"/> SWBRG	SiteSync™ Wireless Bridge Node
<input type="checkbox"/> SWFC	SiteSync™ Field Commission Serve
<input type="checkbox"/> SW7PR	SiteSync™ on fixture module via 7PR
<input type="checkbox"/> WIR-RME-L	wiSCAPE External Fixture Module
<input type="checkbox"/> NXOFM-1R1D-UNV	NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- \* When ordering SiteSync at least one of these two interface options must be ordered per project
- + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle

## ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> ASL1-HSS-90-B-XXX <sup>1</sup>	House Side Shield Back 90 deg
<input type="checkbox"/> ASL1-HSS-90-F-XXX <sup>1</sup>	House Side Shield Front 90 deg
<input type="checkbox"/> ASL1-HSS-90-S-XXX <sup>1</sup>	House Side Shield Side 90 deg
<input type="checkbox"/> ASL1-HSS-270-BSS-XXX <sup>1</sup>	House Side Shield Back, Side & Side 270 deg
<input type="checkbox"/> ASL1-HSS-270-FSS-XXX <sup>1</sup>	House Side Shield Front, Side & Side 270 deg
<input type="checkbox"/> ASL1-HSS-270-FSB-XXX <sup>1</sup>	House Side Shield Front, Side & Back 270 deg
<input type="checkbox"/> <b>ASL1-HSS-360-XXX<sup>1</sup></b>	<b>House Side Shield 360 deg</b>
<input type="checkbox"/> ASL2-HSS-90-B-XXX <sup>1</sup>	House Side Shield Back 90 deg
<input type="checkbox"/> ASL2-HSS-90-F-XXX <sup>1</sup>	House Side Shield Front 90 deg
<input type="checkbox"/> ASL2-HSS-90-S-XXX <sup>1</sup>	House Side Shield Side 90 deg
<input type="checkbox"/> ASL2-HSS-270-BSS-XXX <sup>1</sup>	House Side Shield Back, Side & Side 270 deg
<input type="checkbox"/> ASL2-HSS-270-FSS-XXX <sup>1</sup>	House Side Shield Front, Side & Side 270 deg
<input type="checkbox"/> ASL2-HSS-270-FSB-XXX <sup>1</sup>	House Side Shield Front, Side & Back 270 deg
<input type="checkbox"/> ASL2-HSS-360-XXX <sup>1</sup>	House Side Shield 360 deg
<input type="checkbox"/> ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms
<input type="checkbox"/> SETA2-XX <sup>1</sup>	Square pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon)
<input type="checkbox"/> RETA2-XX <sup>1</sup>	Round pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon), requires CL1S-RPA4-ACC-XX for each luminaire
<input type="checkbox"/> RARBC80L	Backlight Control 80L
<input type="checkbox"/> RARBC160L	Backlight Control 160L
<input type="checkbox"/> RARBC320L	Backlight Control 320L
<input type="checkbox"/> RARBC480L	Backlight Control 480L
<input type="checkbox"/> CL1S-RPA4-ACC-XX <sup>1</sup>	Round Pole Adapter (* denotes pole diameter; 3 = 3 1/4" - 3 3/4"; 4* = 3 7/8" - 6")
<input type="checkbox"/> ASL-ARMMTG-XX <sup>1</sup>	Arm mounting kit for side of pole attachment
<input type="checkbox"/> WB-AREA-XX <sup>1</sup>	Wall bracket, Compatible with standard arm mount option
<input type="checkbox"/> ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms

<sup>1</sup> Replace XX or XXX with color choice, eg.: DB for Dark Bronze or BLT for Black Matte Textured

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
				Lumens	LPW <sup>1</sup>	B	U	G	Lumens	LPW <sup>1</sup>	B	U	G	Lumens	LPW <sup>1</sup>	B	U	G
ASL1	25	25.4	2	3430	135	2	0	2	3413	134	2	0	2	3225	127	2	0	2
			3	3465	136	2	0	2	3448	136	2	0	2	3259	128	2	0	2
			4W	3401	134	2	0	3	3384	133	2	0	3	3198	126	2	0	3
			5QW	3483	137	4	0	2	3466	136	4	0	2	3274	129	4	0	2
	39	38.0	2	5237	138	3	0	3	5211	137	3	0	3	4924	130	3	0	3
			3	5292	139	2	0	2	5265	139	2	0	2	4976	131	2	0	2
			4W	5193	137	2	0	3	5168	136	2	0	3	4883	129	2	0	3
			5QW	5318	140	4	0	2	5292	139	4	0	2	4999	132	4	0	2
	50	49.7	2	6294	127	2	0	2	6263	126	2	0	2	5918	119	2	0	2
			3	6360	128	2	0	2	6328	127	2	0	2	5980	120	2	0	2
			4W	6242	126	2	0	3	6211	125	2	0	3	5869	118	2	0	3
			5QW	6392	129	4	0	2	6360	128	4	0	2	6008	121	4	0	2
	70	68.4	2	9461	138	3	0	3	9414	138	3	0	3	8897	130	3	0	3
			3	9560	140	2	0	2	9513	139	2	0	2	8989	131	2	0	2
			4W	9383	137	2	0	3	9336	136	2	0	3	8822	129	2	0	3
			5QW	9608	140	4	0	2	9560	140	4	0	2	9032	132	4	0	2
	100	88.0	2	11945	136	2	0	2	11886	135	2	0	2	11232	128	2	0	2
			3	12070	137	2	0	2	12010	136	2	0	2	11349	129	2	0	2
			4W	11846	135	2	0	3	11787	134	2	0	3	11139	127	2	0	3
			5QW	12131	138	4	0	2	12070	137	4	0	2	11403	130	4	0	2
	115	109.7	2	15683	143	2	0	2	15605	142	2	0	2	14977	137	2	0	2
			3	15486	141	2	0	2	15411	140	2	0	2	14819	135	2	0	2
			4W	15305	140	2	0	3	15232	139	2	0	3	14646	134	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	18089	136	3	0	3	17999	135	3	0	3	17275	130	3	0	3
			3	17861	134	2	0	2	17776	133	2	0	2	17092	128	2	0	2
			4W	17653	132	2	0	3	17569	132	2	0	3	16893	127	2	0	3
			5QW	18155	136	4	0	2	18064	136	4	0	2	17338	130	4	0	2
ASL2 Performance Data on next page																		

<sup>1</sup> VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations. Actual performance may differ as a result of end-user environment and application.

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
				Lumens	LPW <sup>1</sup>	B	U	G	Lumens	LPW <sup>1</sup>	B	U	G	Lumens	LPW <sup>1</sup>	B	U	G
ASL2	145	143.0	2	21007	147	3	0	4	20902	146	3	0	4	20061	140	3	0	4
			3	20842	146	3	0	4	20738	145	3	0	4	19904	139	3	0	4
			4W	20595	144	3	0	5	20492	143	3	0	5	19668	138	3	0	5
			5QW	21130	148	5	0	4	21024	147	5	0	4	20179	141	5	0	4
	170	168.0	2	24447	146	3	0	4	24325	145	3	0	4	23347	139	3	0	4
			3	24256	144	3	0	4	24134	144	3	0	4	23164	138	3	0	4
			4W	23968	143	3	0	5	23848	142	3	0	5	22889	136	3	0	5
			5QW	24591	146	5	0	4	24468	146	5	0	4	23484	140	5	0	4
	185	185.0	2	26651	144	4	0	5	26518	143	4	0	5	25452	138	4	0	5
			3	26442	143	3	0	4	26310	142	3	0	4	25252	136	3	0	4
			4W	26129	141	4	0	5	25998	141	4	0	5	24953	135	4	0	5
			5QW	26808	145	5	0	5	26674	144	5	0	5	25602	138	5	0	5
	210	210.0	2	29880	142	3	0	4	29731	142	3	0	4	28535	136	3	0	4
			3	29646	141	3	0	4	29497	140	3	0	4	28312	135	3	0	4
			4W	29294	139	3	0	5	29148	139	3	0	5	27976	133	3	0	5
			5QW	30056	143	5	0	4	29905	142	5	0	4	28703	137	5	0	4
	235	235.0	2	32959	140	3	0	4	32794	140	3	0	4	31475	134	3	0	4
			3	32700	139	3	0	4	32537	138	3	0	4	31229	133	3	0	4
			4W	32312	137	3	0	5	32151	137	3	0	5	30858	131	3	0	5
			5QW	33152	141	5	0	4	32987	140	5	0	4	31661	135	5	0	4
	255	261.2	2	36218	139	4	0	5	36037	138	4	0	5	34588	132	4	0	5
			3	35934	138	3	0	4	35754	137	3	0	4	34317	131	3	0	4
			4W	35508	136	4	0	5	35330	135	4	0	5	33910	130	4	0	5
			5QW	36431	139	5	0	5	36249	139	5	0	5	34792	133	5	0	5

<sup>1</sup> VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations. Actual performance may differ as a result of end-user environment and application.

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## ELECTRICAL DATA

Family	Nominal Wattage	Input Voltage (Volts)	Current (AMPS)	System Power (Watts)
AIRO (ASL1)	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
		347	0.07	
		480	0.05	
	39	120	0.32	38
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.41	49.7
		208	0.24	
		240	0.21	
		277	0.18	
		347	0.14	
		480	0.10	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
		347	0.20	
		480	0.14	
	100	120	0.73	88
		208	0.42	
		240	0.37	
		277	0.32	
		347	0.25	
		480	0.18	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
	135	120	1.11	133.3
		208	0.64	
		240	0.56	
		277	0.48	
		347	0.38	
		480	0.28	
AIRO (ASL2) Next Page				

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## ELECTRICAL DATA (CONT'D)

Family	Nominal Wattage	Input Voltage (Volts)	Current (AMPS)	System Power (Watts)
AIRO (ASL2)	145	120	1.19	143.0
		208	0.69	
		240	0.60	
		277	0.52	
		347	0.41	
		480	0.30	
	170	120	1.40	168.0
		208	0.81	
		240	0.70	
		277	0.61	
		347	0.48	
		480	0.35	
	185	120	1.54	185.0
		208	0.89	
		240	0.77	
		277	0.67	
		347	0.53	
		480	0.39	
	210	120	1.75	210.0
		208	1.01	
		240	0.88	
		277	0.76	
		347	0.61	
		480	0.44	
	235	120	1.96	235.0
		208	1.13	
		240	0.98	
		277	0.85	
		347	0.68	
		480	0.49	
	255	120	2.18	261.2
		208	1.26	
		240	1.09	
		277	0.94	
		347	0.75	
		480	0.54	



# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11' L96 60,000	50,000	100,000	L70 (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

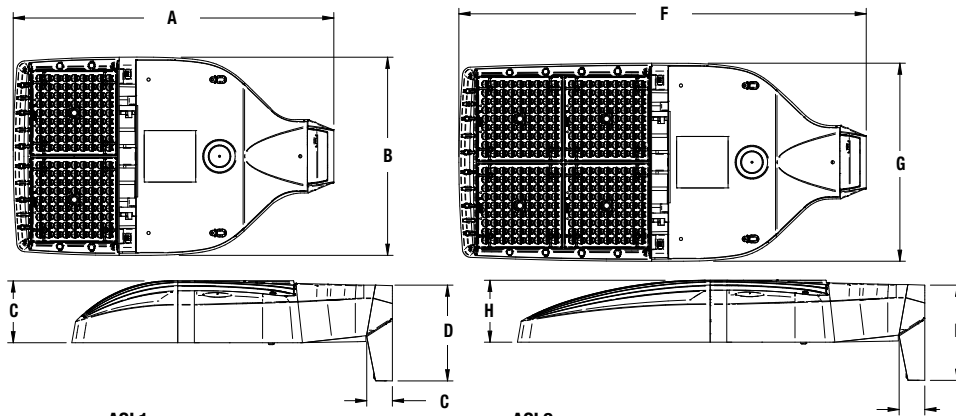
1. Projected per IESNA TM-21-11 (\* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.06
10° C	50° F	1.03
20° C	68° F	1.01
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.97
50° C	122° F	0.94

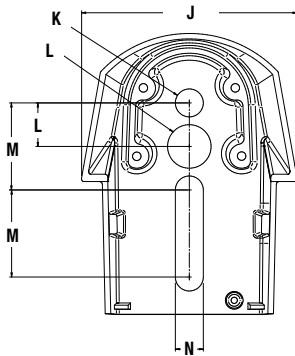
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

## DIMENSIONS



Weight	
ASL1	14.47 lbs (6.56 kgs)
ASL2	17.47 lbs (7.92 kgs)

A	B	C	D	E	F	G	H	I	ASL1 EPA@0°	ASL2 EPA@0°	ASL1 w/ HSS	ASL2 w/ HSS
18.9"	11.7"	3.7"	5.65"	1.5"	24.0"	11.7"	3.7"	5.62"	.46 ft. <sup>2</sup>	.56 ft. <sup>2</sup>	.73 ft. <sup>2</sup>	1.01 ft. <sup>2</sup>
480mm	297mm	94mm	144mm	38mm	610mm	297mm	94mm	143mm	.14 m <sup>2</sup>	.17 m <sup>2</sup>	.22 m <sup>2</sup>	.31 m <sup>2</sup>



J	K	L	M	N
4.33"	.562"	.875"	1.75"	.562"
480mm	297mm	94mm	610mm	297mm

## PHOTOMETRY

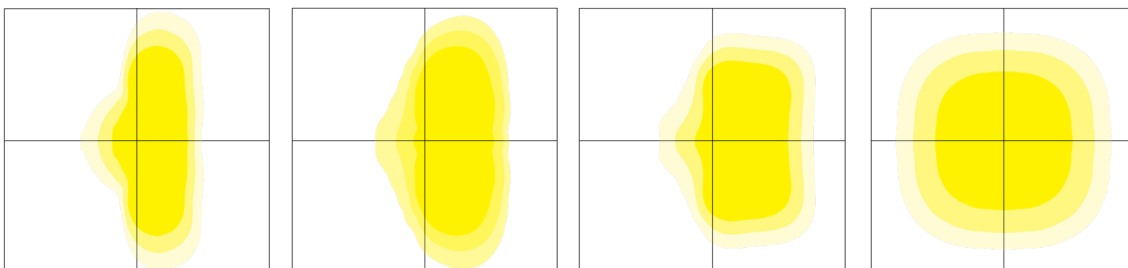
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

Type II

Type III

Type IV

Type V



# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## ADDITIONAL INFORMATION (CONT'D)

### OCCUPANCY SENSOR

- Individual fixture control
- Dims product when space is not occupied



### 7-PIN RECEPTACLE

- Compatible with 3-pin, 5-pin or 7-pin photocontrols
  - Turns fixture on when sun sets, off when sun rises
  - Wireless networked solution
  - For use with a variety of control platforms
- \*Additional accessories required.



### NX

## NX DISTRIBUTED INTELLIGENCE™

Hubbell Controls Solutions' NX Distributed Intelligence™ platform delivers a lighting control solution capable of seamlessly connecting exterior and interior applications.

- Standalone or networked fixture control
- Astronomical time schedules
- BACnet building networking
- Connects with indoor wired, wireless or hybrid networks
- Wireless setup via app
- Occupancy Sensor option dims product when space is not occupied



### SITESYNC LIGHTING CONTROL



SiteSync Lighting Control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution.

- Pre-commissioning options available
- Standalone or networked fixture control
- Astronomical time schedules
- Occupancy Sensor option dims product when space is not occupied



# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

### 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
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

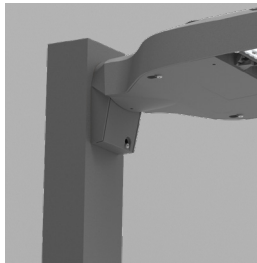
ADT-AutoDim Time of Day Based Option

- 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.

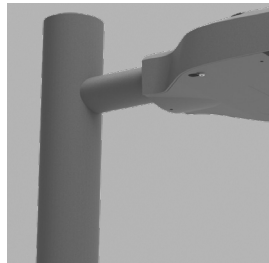
EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

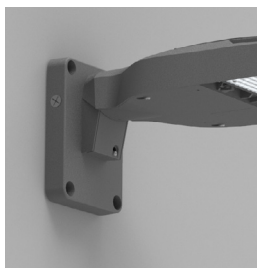
### MOUNTING



**Arm Mount** – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor S2 drill pattern.



**MAF** – Fits 2-3/8" OD arms Roadway applications.



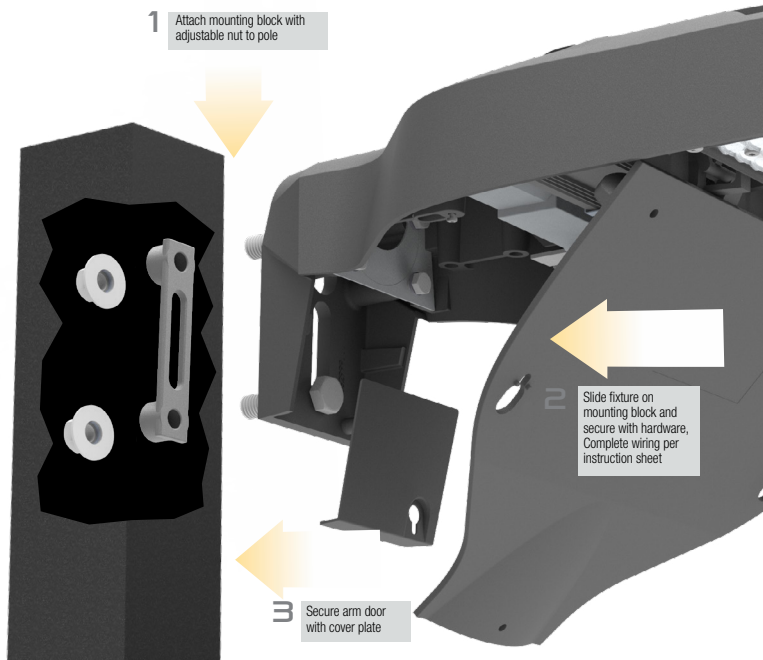
**Wall Mount** – Wall mount bracket designed for building mount applications.

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

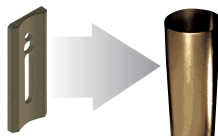
## ADDITIONAL INFORMATION (CONT'D)

### MOUNTING (CONT'D)



**Universal Mount** – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5"

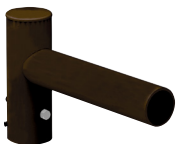
### ACCESSORY



**ROUND POLE ADAPTER**



**WB-AREA-XX**



**SPOKE BRACKET** (single arm shown)  
Horizontal round arm tenon adapters for use with MAF mounting type or accessory kit. Reference SH Spoke Pole Top Brackets for ordering information.

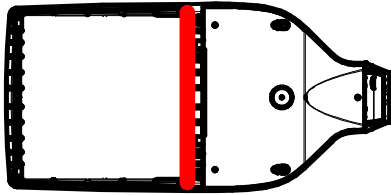
# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

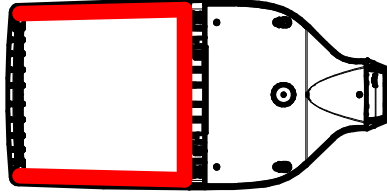
## ADDITIONAL INFORMATION (CONT'D)

### CONFIGURATIONS

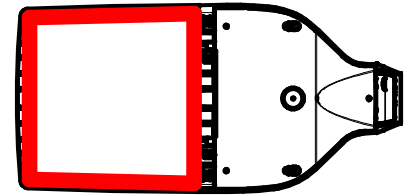
ASLx HSS-90-B-xx



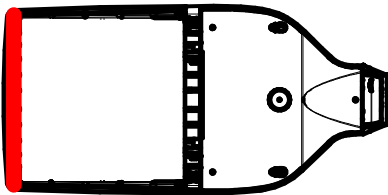
ASLx HSS-270-BSS-xx



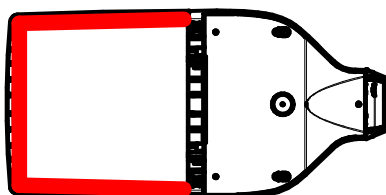
ASLx HSS-360-xx



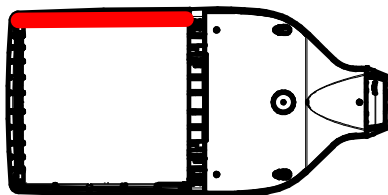
ASLx HSS-90-F-xx



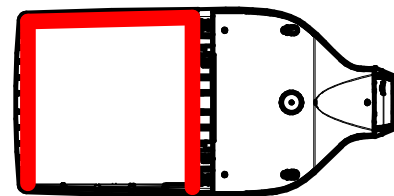
ASLx HSS-270-FSS-xx



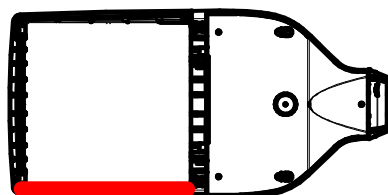
ASLx HSS-90-S-xx



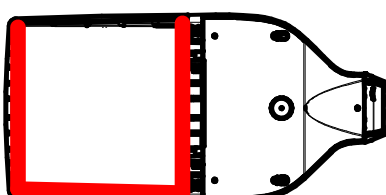
ASLx HSS-270-FSB-xx



ASLx HSS-90-S-xx



ASLx HSS-270-FSB-xx



## USE OF TRADEMARKS AND TRADE NAMES

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## APPLICATIONS

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

## CONSTRUCTION

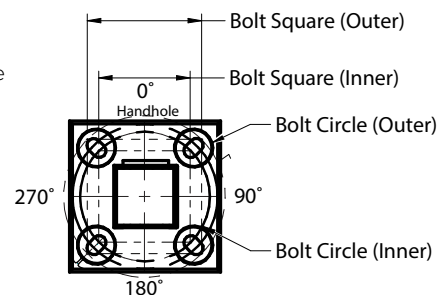
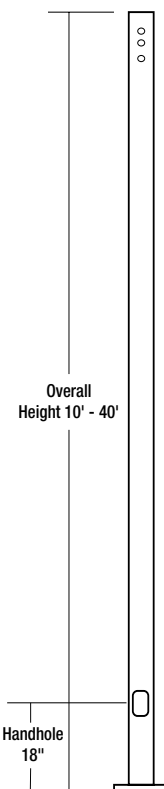
- Shaft: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- base cover: Two-piece square aluminum base cover included standard
- pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- hand hole: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
- Anchor bolt part numbers:
  - 3/4 x 30 x 3 — TAB-30-M38
  - 1 x 36 x 4 — TAB-36-M38

## FINISH

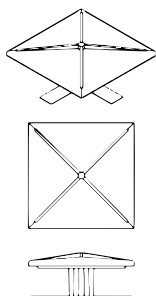
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

## WAREHOUSE 'STOCKED' POLES:

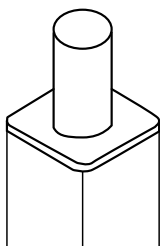
- SSSH-20-40-STK and SSSH-25-40-STK
- The above catalog numbers use a combination of the S2 and B3 drill pattern



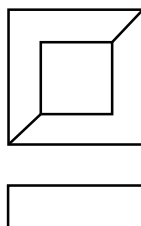
### POLE CAP



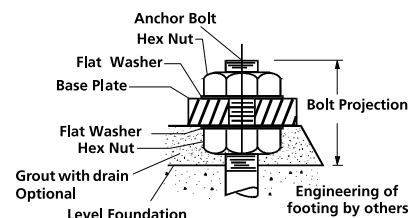
### TENON



### BASE COVER



### BASE DETAIL



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RESET

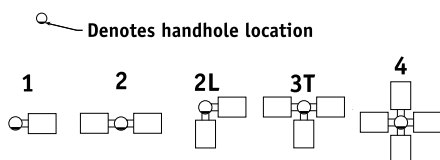
## ORDERING GUIDE

Example: SSS-H-25-40-A/B/C-2L-S2-DBT-UL

CATALOG #

Series	Height	Shaft	Thickness	Mounting	Finish	Options
<b>SSS-H</b> Square Straight Steel Pole Hubbell Outdoor	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 3 Ordering matrix	<b>1</b> Single arm mount <b>2</b> Two fixtures at 180° <b>2L</b> Two fixtures at 90° <b>3T</b> Three fixtures at 90° <b>4</b> Four fixtures at 90° <b>TA</b> Tenon (2.38" OD x 4" Tall) <b>TB</b> Tenon (2.88" OD x 4" Tall) <b>TC</b> Tenon (3.5" OD x 6" Tall) <b>TR<sup>1</sup></b> Removable Tenon (2.38" x 4") <b>OT</b> Open Top (includes pole cap)	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VGT</b> Verde Green Textured  <b>Color Option</b> <b>CC</b> Custom Colors  <b>Drill Pattern</b> <b>B3</b> 2 bolt (2-1/2" spacing), Ratio <b>S2</b> 2 bolt (3-1/2" spacing)	<b>GFI<sup>2</sup></b> 20 Amp GFCI Receptacle and Cover <b>EHH<sup>2</sup></b> Extra Handhole <b>C05<sup>2</sup></b> .5" Coupling <b>C07<sup>2</sup></b> .75" Coupling <b>C20<sup>2</sup></b> 2" Coupling <b>MPB<sup>2</sup></b> Mid-pole Luminaire Bracket <b>VM2</b> 2nd mode vibration damper <b>LAB</b> Less Anchor Bolts <b>UL</b> UL Certified

## MOUNTING ORIENTATION



## ACCESSORIES- ORDER SEPARATELY

CATALOG NUMBER	DESCRIPTION
VM1 <sup>3</sup>	1st mode vibration damper
VM2SXX*	2nd mode vibration damper

\* XX = 08 for 8', 12 for 12', 15 for 16', 20 for 20', and 24' for 24'

### Notes:

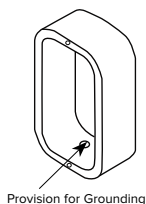
- Removable tenon used in conjunction with side arm mounting.  
First specify desired arm
- Specify option location using logic found on page 1 (Option Orientation)
- VM1 recommended on poles 20' and taller with EPA of less than 1.

## ORDERING GUIDE (CONTINUED)

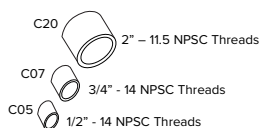
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters									
SSS-H-10-40-A-XX-XX	10	3.0	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	77
SSS-H-12-40-A-XX-XX	12	3.7	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	90
SSS-H-14-40-A-XX-XX	14	4.3	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	103
SSS-H-16-40-A-XX-XX	16	4.9	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	116
SSS-H-18-40-A-XX-XX	18	5.5	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	129
SSS-H-20-40-A-XX-XX	20	6.1	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	142
SSS-H-25-40-A-XX-XX	25	7.6	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	175
SSS-H-14-40-B-XX-XX	14	4.3	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	152
SSS-H-16-40-B-XX-XX	16	4.9	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	171
SSS-H-18-40-B-XX-XX	18	5.5	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	190
SSS-H-20-40-B-XX-XX	20	6.1	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	209
SSS-H-25-40-B-XX-XX	25	7.6	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	257
SSS-H-30-40-B-XX-XX	30	9.1	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	304
SSS-H-16-50-B-XX-XX	16	4.9	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	219
SSS-H-18-50-B-XX-XX	18	5.5	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	243
SSS-H-20-50-B-XX-XX	20	6.1	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	267
SSS-H-25-50-B-XX-XX	25	7.6	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	327
SSS-H-30-50-B-XX-XX	30	9.1	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	387
SSS-H-25-50-C-XX-XX	25	7.6	5" square	.25"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	427
SSS-H-30-50-C-XX-XX	30	9.1	5" square	.25"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	507
SSS-H-20-60-B-XX-XX	20	6.1	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	329
SSS-H-25-60-B-XX-XX	25	7.6	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	404
SSS-H-30-60-B-XX-XX	30	9.1	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	479
SSS-H-35-60-B-XX-XX	35	10.7	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	554
SSS-H-40-60-B-XX-XX	40	12.2	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	629

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

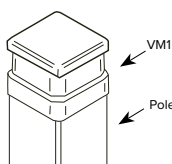
### EHH EXTRA HANDHOLE



### C05 - C07 - C20 - COUPLING



### VM1 - VIBRATION DAMPER 1ST MODE



Field installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 20' and taller with a total EPA of 1.0 or less.

### VM2 - VIBRATION DAMPER 2ND MODE



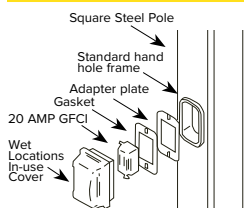
Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

### VM2SXX - VIBRATION DAMPER 2ND MODE

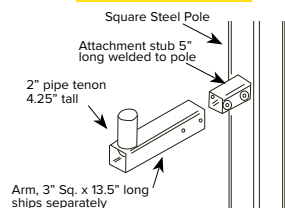


Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

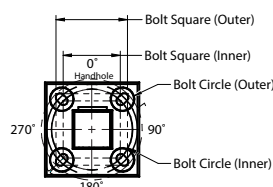
### GFI - 20 AMP GFCI RECEPTACLE & COVER



### MPB - MID POLE BRACKET



### OPTION ORIENTATION

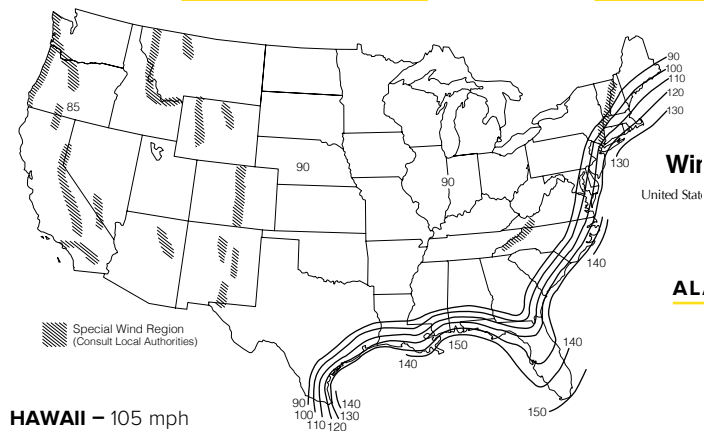


Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: SSS-H-20-40-A-TA-DBT-C07-0-15 (5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.



RESET

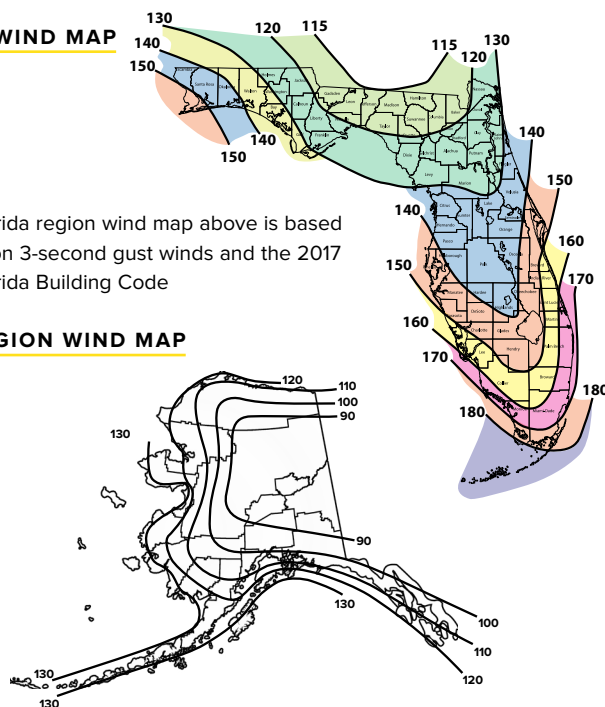
### ASCE7-05 WIND MAP



### FLORIDA REGION WIND MAP

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

### ALASKA REGION WIND MAP



**ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds  
(Use for all locations except Florida)**

Catalog Number	85	90	100	105	110	120	130	140	145	150
SSS-H-10-40-A	25.0	25.0	25.0	22.8	20.6	17.0	14.2	11.9	11.0	10.1
SSS-H-12-40-A	25.0	25.0	20.0	18.0	16.1	13.2	10.8	8.9	8.1	7.4
SSS-H-14-40-A	23.1	20.4	16.1	14.3	12.8	10.2	8.2	6.6	5.9	5.3
SSS-H-16-40-A	19.0	16.7	13.0	11.5	10.1	7.9	6.2	4.7	4.1	3.6
SSS-H-18-40-A	15.6	13.6	10.0	9.0	7.8	5.9	4.4	3.1	2.6	2.1
SSS-H-20-40-A	12.7	10.9	7.9	6.9	5.9	4.2	2.8	1.7	1.3	0.9
SSS-H-25-40-A	7.3	5.9	3.8	2.9	2.1	0.8	NR	NR	NR	NR
SSS-H-14-40-B	25.0	25.0	23.3	20.8	18.6	15.1	12.3	10.2	9.2	8.4
SSS-H-16-40-B	25.0	24.9	19.4	17.3	15.4	12.3	9.9	8.0	7.2	6.4
SSS-H-18-40-B	24.0	20.8	16.1	14.2	12.5	9.8	7.7	6.1	5.3	4.7
SSS-H-20-40-B	20.2	17.5	13.2	11.6	10.1	7.7	5.9	4.4	3.8	3.2
SSS-H-25-40-B	12.8	11.0	7.9	6.7	5.5	3.7	2.3	1.2	0.7	NR
SSS-H-30-40-B	8.0	6.6	4.1	3.1	2.2	0.8	NR	NR	NR	NR
SSS-H-16-50-B	25.0	25.0	25.0	25.0	24.8	20.1	16.5	13.6	12.3	11.2
SSS-H-18-50-B	25.0	25.0	25.0	22.9	20.4	16.4	13.2	10.7	9.6	8.6
SSS-H-20-50-B	25.0	25.0	21.3	18.9	16.7	13.2	10.4	8.1	7.2	6.3
SSS-H-25-50-B	20.7	17.8	13.3	11.5	9.8	7.2	5.0	3.3	2.6	1.9
SSS-H-30-50-B	13.5	11.3	7.7	6.2	4.9	2.8	1.1	NR	NR	NR
SSS-H-25-50-C	25.0	25.0	19.4	17.1	15.1	11.7	9.0	6.9	6.0	5.1
SSS-H-30-50-C	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4
SSS-H-20-60-B	25.0	25.0	25.0	25.0	25.0	20.2	16.1	12.9	11.5	10.3
SSS-H-25-60-B	25.0	25.0	20.6	18.0	15.6	11.8	8.7	6.2	5.2	4.2
SSS-H-30-60-B	21.4	18.1	12.9	10.7	8.8	5.7	3.3	1.3	NR	NR
SSS-H-35-60-B	14.0	11.3	6.9	5.2	3.6	1.0	NR	NR	NR	NR
SSS-H-40-60-B	8.1	5.8	2.2	NR	NR	NR	NR	NR	NR	NR

**Florida Building Code 2017 EPA Load Rating - 3 second gust  
wind speeds (Use for Florida only)**

Catalog Number	115	120	130	140	150	160	170	180
SSS-H-10-40-A	25.0	25.0	25.0	25.0	21.4	18.4	15.9	13.9
SSS-H-12-40-A	25.0	25.0	23.6	19.8	16.7	14.2	12.1	10.4
SSS-H-14-40-A	25.0	23.1	19.0	15.7	13.1	10.9	9.1	7.6
SSS-H-16-40-A	20.8	18.7	15.2	12.3	10.1	8.2	6.7	5.4
SSS-H-18-40-A	16.8	15.0	11.9	9.4	7.5	5.9	4.5	3.4
SSS-H-20-40-A	13.6	11.9	9.2	7.1	5.3	3.9	2.7	1.7
SSS-H-25-40-A	7.4	6.2	4.1	2.5	1.1	NR	NR	NR
SSS-H-14-40-B	25.0	23.6	19.4	16.1	13.4	11.2	9.4	7.8
SSS-H-16-40-B	21.4	19.2	15.6	12.7	10.4	8.5	6.9	5.6
SSS-H-18-40-B	17.2	15.4	12.2	9.7	7.7	6.1	4.7	3.6
SSS-H-20-40-B	13.9	12.3	9.5	7.3	5.5	4.1	2.9	1.9
SSS-H-25-40-B	7.7	6.4	4.3	2.6	1.3	NR	NR	NR
SSS-H-30-40-B	3.2	2.1	NR	NR	NR	NR	NR	NR
SSS-H-16-50-B	25.0	25.0	25.0	25.0	25.0	21.4	18.2	15.5
SSS-H-18-50-B	25.0	25.0	25.0	24.4	20.4	17.0	14.2	11.9
SSS-H-20-50-B	25.0	25.0	24.4	19.9	16.3	13.4	11.0	8.9
SSS-H-25-50-B	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-H-30-50-B	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-H-25-50-C	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-H-30-50-C	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-H-20-60-B	25.0	25.0	25.0	21.9	17.8	14.5	11.7	9.4
SSS-H-25-60-B	23.8	20.9	16.1	12.3	9.2	6.6	4.5	2.8
SSS-H-30-60-B	14.6	12.3	8.4	5.3	2.8	0.8	NR	NR
SSS-H-35-60-B	7.5	5.6	2.4	NR	NR	NR	NR	NR
SSS-H-40-60-B	1.8	NR	NR	NR	NR	NR	NR	NR

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RESET

**Notes:**

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

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