

AIRO

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 ft OD roadway brackets
- Capable of replacing up to 400w HID luminaires
- 8, 16 or 24 LED configurations with high performance lenses optimize photometric performance
- Tool-less entry for easy installation and maintenance
- 3G rated for high vibration applications including bridges and overpasses



RELATED PRODUCTS

θ [RAR1 Ratio](#) θ [RAR2 Ratio](#) θ [Cimarron LED](#)



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Stylish vertically finned die-cast and extruded aluminum for maximum heat dissipation
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- EPA: 8L – .50ft², 16L – .62ft², 24L – .74ft²
- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

OPTICS

- Premium engineered individual acrylic lenses deliver IES Type II, III, IV and V distributions
- Lens distributions are field rotatable (in 90° increments) or exchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CRI) CCT
- Zero uplight

INSTALLATION

- Tool-less entry to wiring/driver compartment
- 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

ELECTRICAL

- Configured with 8, 16, or 24 high current and high output LEDs to replace 150, 250 and 400wHID respectively

ELECTRICAL CONTINUED

- 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 10KA 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)
- 0-10V dimming leads available for use with control devices (provided by others, must specify lead length)
- In addition, AIRO can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7
- For more information, see ordering information or visit www.hubbellighting.com/sitesync

CERTIFICATIONS

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- IDA approved
- 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	5,752-21,331
Wattage Range	56-225
Efficacy Range (LPW)	82-136
Fixture Projected Life (Hours)	L70>125K
Weight lbs. (kg)	15-25 (6.8-10.8)

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ORDERING GUIDE

Example: ASL-A-8L-3K-070-2-U-BLT-7PR

CATALOG #

ORDERING INFORMATION

Series	Mounting	# LEDs	CCT	Drive Current	Distribution	Voltage	Color
ASL ¹ ASL Series	A Arm MAF Mast Arm Fitter	8L 8 High brightness LEDs 16L 16 High brightness LEDs 24L 24 High brightness LEDs	3K 3000K, 70 CRI 4K 4000K, 70 CRI 5K 5000K, 70 CRI	070 700mA ³ 140 1400mA ^{5,8} 210 2100mA	2 IES Type II 3 IES Type III 4 IES Type IV 5 IES Type V	U Universal 120-277V 1 120V 2 208V 3 240V 4 277V 5 480V F 347V	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Brone Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VG Verde Green Textured Color Option CC Custom Color

Options	
F	Fusing (voltage specified and determined by voltage field)
7PR²	7-pin ANSI twist-lock photocell receptacle
RPA(x)	Round pole adapter (Replace X with 3, 4, 5 or 6 indicating pole diameter)
SWP⁶	SiteSync pre-commissioned
SWPM⁶	SiteSync wireless pre-commissioned w/ motion detection
SCP_F^{5,7}	Programmable motion sensor with dimming control (line voltage device not for use with 7PR receptacle option and external wireless control devices); A minimum of one SCP-REMOTE accessory remote control required for configuration; Wide lens with motion detection radius
TB	Terminal block

Notes:

- Order poles with #2 drill pattern
- 7-pin ANSI C136.41–2013 receptacle for use with standard Twist-Lock® photocontrols, shunting caps and ANSI C136.41 external wireless control devices with and without motion/occupancy override.
- For 24L configurations only
- Contact factory for minimum order quantities
- Not available with 347V or 480V
- Specify group and zone. For more details, see SiteSync product page www.hubbellighting.com/controls/SiteSync
- Specify mounting height; 8 = 8' or less, 9' to 40'
- Only available with 16L and 24L configurations

STOCK ORDERING INFORMATION

Catalog Number	Description	Mtg.	Distribution	Wattage	# Drivers Drive Current	Voltage	CCT	Lumens	LPW	Weight lbs. (kg)
ASL-16L-3	Medium size 16 LED configuration, Dark Bronze	Arm	Type III	115	1@2100mA	120V-277V	4000K	12,674	110	18 (8.16)
ASL-16L-4	Medium size 16 LED configuration, Dark Bronze	Arm	Type IV	115	1@2100mA	120V-277V	4000K	12,974	113	18 (8.16)
ASL-24L-3	Large size 24 LED configuration, Dark Bronze	Arm	Type III	169	1@2100mA	120V-277V	4000K	18,595	110	20 (9.07)
ASL-24L-4	Large size 24 LED configuration, Dark Bronze	Arm	Type IV	169	1@2100mA	120V-277V	4000K	19,036	113	20 (9.07)

CONTROLS

Hubbell Control Solutions — Accessories (Sold Separately)

NX Distributed Intelligence™

- ☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120–480VAC

wiSCAPE® Lighting Control

- ☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110–480VAC

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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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CONTROL ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
☐ SCP-Remote	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
☐ SWUSB	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node*
☐ SWTAB	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node*
☐ SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested
☐ SW7PR	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC*

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
☐ ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms
☐ SETA2-XX ¹	Square pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon)
☐ RETA2-XX ¹	Round pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon), requires CL1S-RPA4-ACC-XX for each luminaire
☐ TETA2-XX ¹	Hexagonal pole tenon adapter (3 at 120 degrees) (2 3/8" OD tenon)
☐ ASL-EHS-BL	External house side shield (1 kit contains 6 shields)
☐ ASL-ESS-BL	External side shield (1 kit contains 6 shields)
☐ ASL-ARMMTG-XX ¹	Arm mounting kit for side of pole attachment
☐ SCP-REMOTE	Remote control for SCPW option. Order at least one per project to program and control
☐ CL1S-RPA4-ACC-XX ¹	Round Pole Adapter (* denotes pole diameter; 3 = 3 1/4" - 3 3/4"; 4* = 3 7/8" - 6")
☐ WB-AREA-XX ¹	Wall bracket, Compatible with standard arm mount option
☐ PTL-1	Photocontrol - twist-lock cell (120V) - Requires 7PR option
☐ PTL-8	Photocontrol - twist-lock cell (120-277V) - Requires 7PR option
☐ PSC	Shorting cap - twist-lock - Requires 7PR option
☐ ASL8L2LENS	Type II, 2 lenses included
☐ ASL8L3LENS	Type III, 2 lenses included
☐ ASL8L4LENS	Type IV, 2 lenses included
☐ ASL8L5LENS	Type V, 2 lenses included

¹ Replace XX with color choice, eg.: DB for Dark Bronze

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PERFORMANCE DATA

Description	# of LEDs	Drive Current	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
					Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G
ASL-8	8	2100	59	2	6628	112	1	0	1	6563	111	1	0	1	5906	100	1	0	1
				3	6455	109	1	0	1	6391	108	1	0	1	5752	97	1	0	1
				4	6607	112	1	0	1	6542	111	1	0	1	5888	100	1	0	1
				5	6512	110	3	0	1	6448	109	3	0	1	5803	98	3	0	1
ASL-16	16	1400	56	2	7609	136	2	0	2	7492	134	2	0	2	6830	122	1	0	1
				3	7410	133	2	0	2	7296	131	2	0	2	6652	119	1	0	1
				4	7586	136	1	0	2	7469	134	1	0	2	6809	122	1	0	1
				5	7476	134	3	0	2	7361	132	3	0	1	6711	120	3	0	1
ASL-16	16	2100	115	2	13145	114	2	0	2	13015	113	2	0	2	11713	102	2	0	2
				3	12801	111	2	0	2	12674	110	2	0	2	11406	99	2	0	2
				4	13104	114	2	0	2	12974	113	2	0	2	11676	102	2	0	2
				5	12915	112	4	0	2	12788	111	4	0	2	11509	100	4	0	2
ASL-24	24	1400	114	2	14744	129	3	0	3	14517	127	2	0	2	13336	117	2	0	2
				3	14358	126	3	0	3	14137	124	3	0	3	12987	114	2	0	2
				4	14698	129	2	0	2	14472	127	2	0	2	13295	117	2	0	2
				5	14486	127	4	0	2	14263	125	4	0	2	13103	115	4	0	2
ASL-24	24	2100	169	2	19286	114	3	0	3	19095	113	3	0	3	17186	102	3	0	3
				3	18781	111	3	0	3	18595	110	3	0	3	16736	99	2	0	2
				4	19227	114	3	0	2	19036	113	3	0	2	17133	101	2	0	2
				5	18949	112	4	0	2	18761	111	4	0	2	16885	100	4	0	2
ASL-24	24	700	225	2	21063	94	3	0	3	20880	93	3	0	3	18474	82	3	0	3
				3	21111	94	3	0	3	20927	93	3	0	3	18516	82	3	0	3
				4	21258	94	3	0	2	21073	94	3	0	2	18645	83	3	0	2
				5	21331	95	4	0	2	21145	94	4	0	2	18709	83	4	0	2

¹ *347 and 480 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 shown. Actual performance may differ as a result of end-user environment application and inherent performance balances of the electrical components.

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ELECTRICAL DATA

Catalog number	# of Drivers	Input Voltage	Current (AMPS)	System Power
8	1@(2100mA)	120	59	0.49
		208	59	0.28
		240	59	0.25
		277	59	0.21
16	1@(1400mA)	120	56	0.47
		277	56	0.20
16	1@(2100mA)	120	115	0.96
		208	115	0.55
		240	115	0.48
		277	115	0.42
24	1@(1400mA)	120	114	0.95
		277	114	0.41
24	1@(2100mA)	120	169	1.41
		208	169	0.81
		240	169	0.70
		277	169	0.61
24	1@(700mA)	120	225	1.88
		208	225	1.08
		240	225	0.94
		277	225	0.81

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).

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11 ¹ L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.93	0.90	0.86	0.75	>125,000
40°C / 104°F	0.99	0.90	0.86	0.81	0.67	>88,000

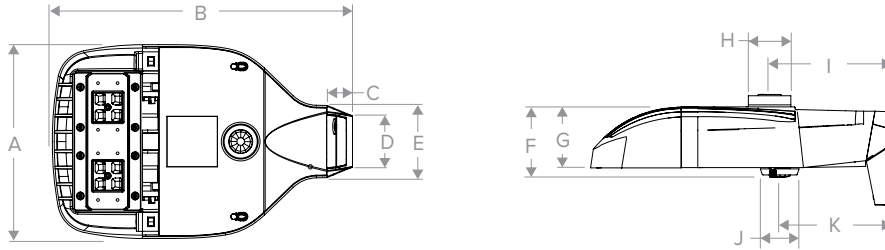
1. Projected per IESNA TM-21-11 (* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)

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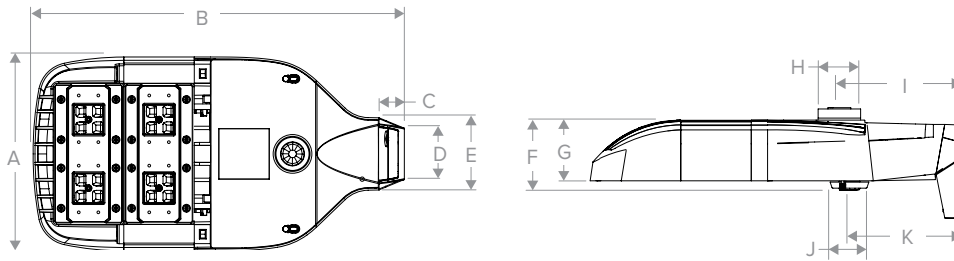
DIMENSIONS

ASL-8L



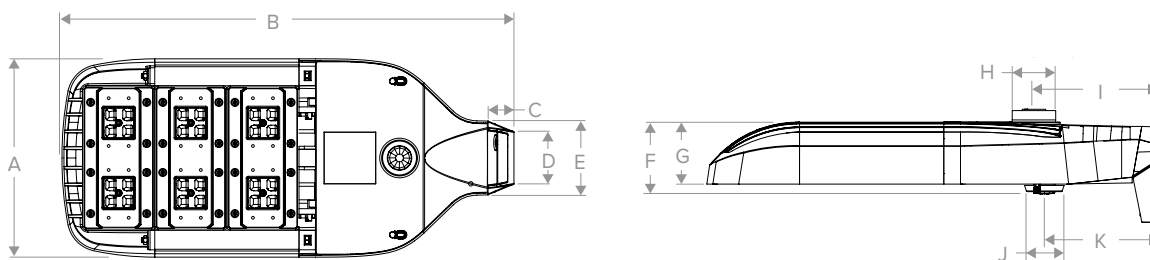
A	B	C	D	E	F	G	H	I	J	K
11.7"	17.25"	1.5"	3.1"	4.3"	5.9"	3.6"	2.5"	7.4"	2.3"	6.7"
297mm	438mm	38mm	78mm	109mm	150mm	91mm	63mm	188mm	58mm	170mm

ASL-16L



A	B	C	D	E	F	G	H	I	J	K
11.7"	22.4"	1.5"	3.1"	4.3"	5.9"	3.6"	2.5"	7.4"	2.3"	6.7"
297mm	569mm	38mm	78mm	109mm	150mm	91mm	63mm	188mm	58mm	170mm

ASL-24L



A	B	C	D	E	F	G	H	I	J	K
11.7"	17.25"	26.6"	3.1"	4.3"	5.9"	3.6"	2.5"	7.4"	2.3"	6.7"
297mm	438mm	675mm	78mm	109mm	150mm	91mm	63mm	188mm	58mm	170mm

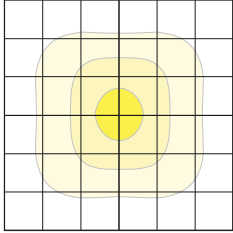
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PHOTOMETRY

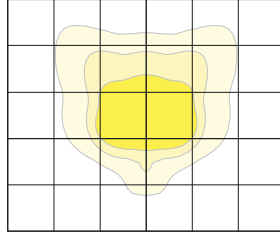
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

ASL-24L-5K Type V



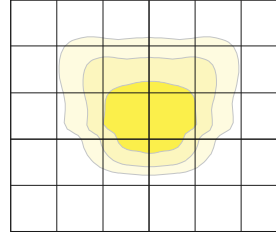
Mounting Height: 25'

ASL-24L-5K Type IV



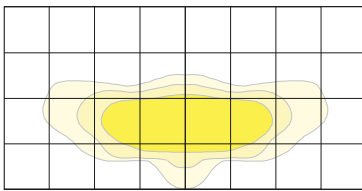
Mounting Height: 25'

ASL-24L-5K Type IV HS



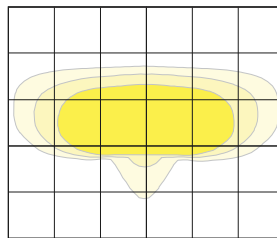
Mounting Height: 25'

ASL-24L-5K Type II



Mounting Height: 25'

ASL-24L-5K Type III



Mounting Height: 25'

ADDITIONAL INFORMATION

SHIPPING INFORMATION

Catalog Number	G.W(kg)/ CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
ASL-8L	15.0 (6.8)	20.75 (52.7)	15.13 (38.4)	6.94 (17.6)
ASL-16L	19.0 (8.6)	25.0 (63.5)	15.13 (38.4)	6.94 (17.6)
ASL-24L	24.0 (10.8)	25.0 (63.5)	15.13 (38.4)	6.94 (17.6)

SITESYNC 7-PIN MODULE



SW7PR

- SiteSync Features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Available on all products that have a 7-Pin receptacle
- Does not interface with occupancy sensors



SWP & SWPM - SITESYNC™



SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

ASL-MAF INSTALLED

ASL-MAF – Fits 2-3/8" OD arms



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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

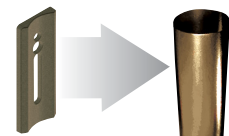
ADDITIONAL INFORMATION (CONT'D)

WALL MOUNT ACCESSORY

WB-AREA-XX wall mount bracket designed for building mount applications



ASL-EHS-BL



ROUND POLE ADAPTER



WB-AREA-XX



ASL8L2LENS



ASL8L3LENS

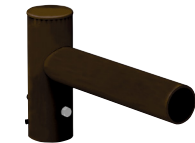


ASL8L4LENS



ASL8L5LENS

PRODUCT	NUMBER OF KITS	NUMBER OF LENSES
ASL8L	1	2
ASL16L	2	4
ASL24L	3	6



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.

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