

AIRO LED SERIES AREA/SITE/ROAD LIGHTER

Cat.# ASL-A-24L-5K-210-4-U-BL-7PR

Job
HUGHES PARKING L

Type



HUBBELL
Outdoor Lighting

Approvals

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

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

Electrical:

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

- 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)
- In addition, AIRO can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbelllighting.com/sitesync for more details.

Installation:

- Tool-less entry to wiring/driver compartment
- Universal mounting block works with #2 drill pattern (See page 4 illustration)

- Fixture ships with slotted mounting block to accommodate wide range of drill patterns for easy retrofit opportunities (See page 4 illustration for dimensions)

- Mast arm fitter accessory or option available for 2-3/8" OD brackets

Finish:

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

Listings:

- 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

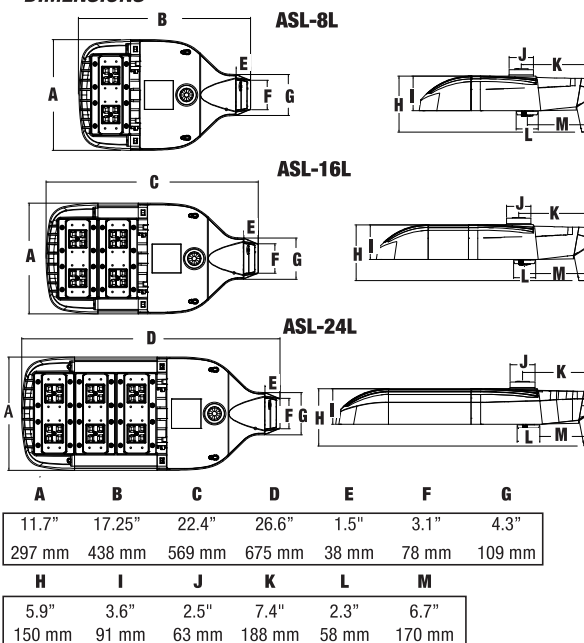
PRODUCT IMAGE(S)

ASL-24L

ASL-16L

ASL-8L

DIMENSIONS



SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
ASL-8L	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
ASL-16L	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)
ASL-24L	24 (10.8)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

CERTIFICATIONS/LISTINGS



CONFIGURABLE ORDERING INFORMATION NEXT PAGE



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ORDERING INFORMATION

ORDERING EXAMPLE: ASL-A-24L4K-210-4-U-BL-7PR

FAMILY	MOUNTING	CCT	DISTRIBUTION	COLOR	OPTIONS
ASL¹ ASL Series	A Arm MAF Mast Arm Fitter	3K 3000K, 70 CRI 4K 4000K, 70 CRI 5K 5000K, 70 CRI	2 IES TYPE II 3 IES TYPE III 4 IES TYPE IV 5 IES TYPE V	BL Black DB Dark Bronze GR Gray PS Platinum Silver WH White CC⁵ Custom Color	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) SWP^{7,8,10} SiteSync pre-commissioned SWPM^{7,8,10} SiteSync Wireless Pre-Commission w/ Motion Detection
# LEDS	DRIVE CURRENT	VOLTAGE			
8L 8 High brightness LEDs	070³ 700mA	U Universal 120-277V			
16L 16 High brightness LEDs	140^{6,11} 1400mA	1 120V			
24L 24 High brightness LEDs	210⁴ 2100mA	2 208V			
		3 240V			
		4 277V			
		5⁴ 480V			
		F⁴ 347V			

- 1 - Order poles with #2 drill pattern
2 - 7-pin ANSI C136.41—2013 receptacle for use with standard Twist-Lock® photo controls, shunting caps, and ANSI C136.41 external wireless control devices with and without motion/occupancy override
3 - For 24L configurations only
4 - 347V-480V not for 24L, 210 - 2100mA option
5 - Contact factory for minimum order quantities
6 - Not available with 347V or 480V
7 - Not available with 208, 240 or 480V
8 - Specify group and zone. See SiteSync product page www.hubbelllighting.com/controls/SiteSync for more details.
9 - Specify mounting height; 8 = 8' or less, 40 = 9' to 40'
10 - Only available with 16L configurations
11 - Only available with 16L and 24L configurations

Accessories and Services (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

* 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.

ORDERING INFORMATION - STOCK CONFIGURATIONS

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)
ASL-24L-3-H0	Large size 24 LED configuration, Dark Bronze	Arm	Type III	225	1@700mA	120V-277V	4000K	20,927	93	20 (9.07)
ASL-24L-4-H0	Large size 24 LED configuration, Dark Bronze	Arm	Type IV	225	1@700mA	120V-277V	4000K	21,073	93	20 (9.07)
ASL24L3H0SCPW	ASL-A-24L4K-070-3-U-DB-SCP-40F	Arm	Type III	225	1@700mA	120V-277V	4000K	20,927	93	20 (9.07)
ASL24L3SCPW	ASL-A-24L4K-210-3-U-DB-SCP-40F	Arm	Type III	169	1@2100mA	120V-277V	4000K	18,595	110	20 (9.07)
ASL16L3SCPW	ASL-A-16L4K-210-3-U-DB-SCP-40F	Arm	Type III	115	1@2100mA	120V-277V	4000K	12,674	110	18 (8.16)

Hubbell Control Solutions - Accessories (sold separately)

Catalog Number	Description	HCS System
NX0FM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE™ Lighting Control

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.

SiteSync 7-Pin Module



SW7PR

- All of the 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



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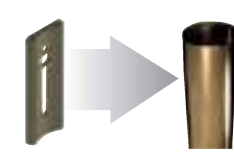
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ACCESSORIES - Order Separately

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-RPA(*)-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. Requires universal mounting block 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 (see table to right for kit quantities)
ASL8L3LENS	Type III, 2 lenses included (see table to right for kit quantities)
ASL8L4LENS	Type IV, 2 lenses included (see table to right for kit quantities)
ASL8L5LENS	Type V, 2 lenses included (see table to right for kit quantities)

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



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.

ASL-MAF installed

ASL-MAF – Fits 2-3/8" OD arms



ASL-EHS-BL

Wall Mount Accessory

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



PERFORMANCE DATA

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
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
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
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
24	1400	114	2	14744	129	3	0	3	14517	127	2	0	3	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
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
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 - 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.

ELECTRICAL DATA

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
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

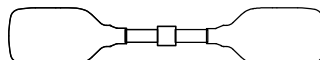
Ambient Temp.	OPERATING HOURS					L70 (hours)
	0	25,000	TM-21-11 ¹ L90 36,000	50,000	100,000	
25°C / 77°F	1.00	0.93	0.90	0.86	0.75	>125,000
40°C / 104°F	0.99	0.90	0.86	0.81	0.67	>88,000

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

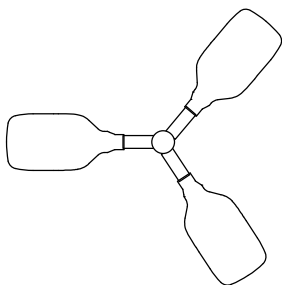
EPA



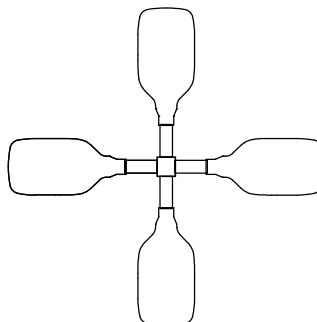
Config.	Luminaire	EPA
1 @ 90°	ASL8L	.50
	ASL16L	.62
	ASL24L	.74



Config.	Luminaire	EPA
2 @ 180°	ASL8L	1.00
	ASL16L	1.24
	ASL24L	1.48



Config.	Luminaire	EPA
3 @ 120°	ASL8L	.88
	ASL16L	.99
	ASL24L	1.11



Config.	Luminaire	EPA
4 @ 90°	ASL8L	1.42
	ASL16L	1.66
	ASL24L	1.90



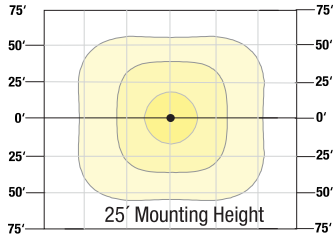
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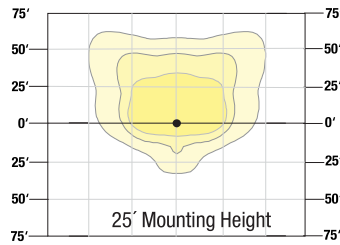
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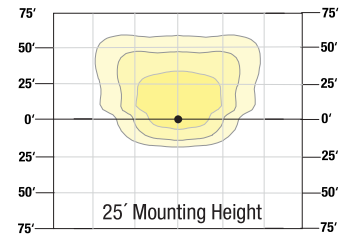
ASL-24L-5K Type V



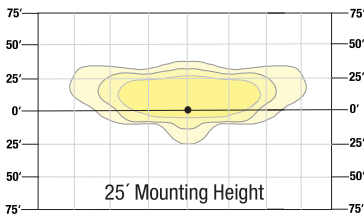
ASL-24L-5K Type IV



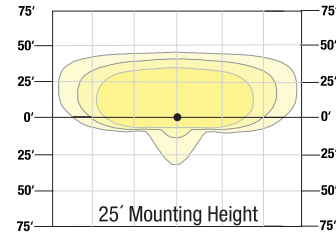
ASL-24L-5K Type IV HS



ASL-24L-5K Type II

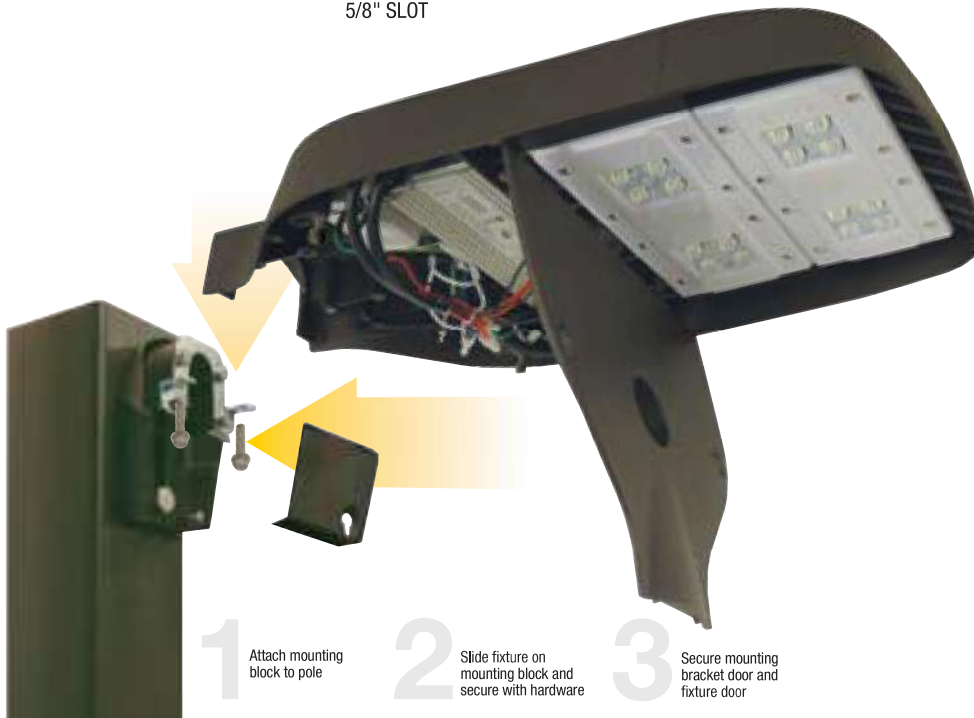
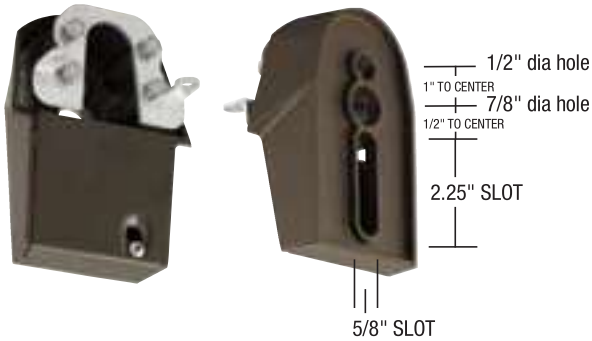


ASL-24L-5K Type III



ARM/MOUNTING BLOCK

Fixture ships with universal mounting block for ease of installation. Compatible with #2 drill pattern.



SWP & SWPM - SiteSync™



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