

LED Area/Flood Light

LAM1 & LAL1 Series

LAM1 and LAL1 are sleek, low profile, high performance commercial grade area/flood luminaires. With a broad range of delivered lumen packages, they can replace 250W HID - 1000W HID luminaires.

Features

- LED: Seoul Semiconductors
 - Color Temperature: 4000K/5000K standard, other CCTs available
 - Color Rendering Index (CRI): 70+
 - High Efficacy; 140 – 150 LPW
 - Energy saving, Long LED life; $L_{90} > 100,000$ hours*
 - Rated for Ambient Temperatures between -40°C/-40°F to 50°C/122°F
 - Power Factor (PF) > 0.9, Total Harmonic Distortion (THD) < 20%
 - Surge protection: 10kV (standard), 20kV optional
 - Input Voltage: MV: 120 – 277V; 50/60 Hz
 - Input Voltage: HV: 277 – 480V; 50/60 Hz
 - Fixture includes approx. 36" long input & dimming cables, stripped at ends
 - Available in Type 3, Type 4, and 7Hx6V optical distributions
 - Rotatable lens (-90°, +90°, 180°)
 - Tool less entry
 - Photocontrol receptacle optional, factory installed
 - Motion sensor optional, factory installed
 - Ultra-durable Powder Coat Paint; Bronze Standard
 - IP65
- * L_{90} hours are IES TM-21-11 calculated hours

Project:	
Catalog#:	
Approved by:	

Applications

- Security
- Outdoor Lighting
- Hotels
- Warehouses
- Parking Lots
- Street Lights
- Parks



Visit www.designlights.org for the Qualified Product List

Fully assembled luminaire is composed of two components that must be ordered separately.



Mounting Options

Mounting brackets ship separately, allowing customers broad mounting flexibility. Bracket installation does not require access to driver/electrical compartment. Available mounting options are:

- Direct Mount – for square or round poles (adapter included) up to 5" diameter
- Slip Fitter – used to attach fixture to a 2 ³/₈" OD tenon.
- Trunnion
- Yoke

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately. Example: **Mount:** LA1-DM-BZ and **Luminaire:** LAM1D-BMV-3-50-BZ-1-NR-NC

Mounting Accessory (Luminaire and mounting accessory must be ordered separately)



LA1-DM-BZ

Direct Mount Bronze

Field mount at 0°, 6°, 12°, 18°, 24°, 30° tilt-ability



LA1-SF-BZ

Slip Fitter Bronze

-90° to +90° tilt-ability in 6° increments



LA1-TR-BZ

Trunnion Bronze

-90° to +90° tilt-ability (7 positions)



LAM1-YK-BZ: Yoke Medium Bronze

LAL1-YK-BZ: Yoke Large Bronze

12 positions in 30° increments

Series Prefix ¹	Lumen Package	Dimmable Driver	Optics	Color Temperature	Housing Color	Surge Protection	Photo Control Receptacle	Controls	Options
LAM1D Medium	A: 100W, 14,500 Lumens	MV: 120-277 VAC 50/60 Hz	3: Type 3 4: Type 4	30³: 3000K, 70+CRI 40: 4000K, 70+CRI 50: 5000K, 70+CRI	BZ: Bronze BK³: Black WH³: White	1: 10kV 2³: 20kV	NR: No Photo Control Receptacle P7³: 7-pin Photo Control Receptacle (order photocontrol separately)	NC: No Control SC³: Shorting Cap MS^{2,3,4}: Motion Sensor	(Blank): No Options AO³: 5-position Adjustable Output Control (via 0-10V dimming; 100/ 80/ 75/ 67/ 50%)
	B: 150W, 22,000 Lumens								
LAL1D Large	B: 240W, 35,500 Lumens C: 300W, 44,500 Lumens	HV²: 347-480 VAC 50/60 Hz	7: 7Hx6V (flood)		Bronze - Standard Color	10kV - Standard Option			

¹ Mounting brackets must be ordered separately. Mounting brackets are necessary for luminaire installation; ² Motion Controls cannot be installed on HV version models.

³ Call factory for lead times on custom configurations. ⁴HL-RC-100 remote must be used to modify settings. One remote needed for a project site. Sold separately.

Wattage/Lumen Table with AOU option

Model Name	AOU Position	System Watts	Fixture Lumens
LAM1-A	1	51	7,450
	2	68	9,925
	3	75	10,800
	4	82	11,875
	5	100	14,500
LAM1-B	1	76	11,300
	2	102	15,050
	3	111	16,400
	4	122	18,025
	5	148	22,000

Model Name	AOU Position	System Watts	Fixture Lumens
LAL1-B	1	119	17,600
	2	156	23,050
	3	171	25,350
	4	180	26,675
	5	240	35,500
LAL1-C	1	144	22,050
	2	189	28,900
	3	207	31,800
	4	218	33,425
	5	290	44,500

Dimensions

11.5"	<p>28.5" 720 11.5" 287 6.5" 160</p>	<p>28.5" x 11.5" x 6.5" EPA: 0.8 ft² Weight: 13.5 lbs</p>	<p>33.5" 840 14.5" 356 6.5" 160</p>	<p>33.5" x 14.5" x 6.5" EPA: 1.1 ft² Weight 18.8 lbs (300W model) 17.5 lbs (240W model)</p>
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LAM1 Series with Direct mount bracket

LAL1 Series with Direct mount bracket

11.5"	<p>27.0" 679 11.5" 287 3.0" 75</p>	<p>27.0" x 11.5" x 3.0" EPA: 0.8 ft² Weight: 12.0 lbs</p>	<p>31.5" 799 14.5" 356 3.0" 77</p>	<p>31.5" x 14.5" x 3.0" EPA: 1.1 ft² Weight 17.3 lbs (300W model) 16.0 lbs (240W model)</p>
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LAM1 Series with Slip Fitter mount bracket

LAL1 Series with Slip Fitter mount bracket

11.5"	<p>24.5" 614 11.5" 287 3.0" 75</p>	<p>24.5" x 11.5" x 3.0" EPA: 0.8 ft² Weight: 11.5 lbs</p>	<p>29.0" 734 14.5" 356 3.0" 77</p>	<p>29.0" x 14.5" x 3.0" EPA: 1.1 ft² Weight 16.8 lbs (300W model) 15.5 lbs (240W model)</p>
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LAM1 Series with Trunnion mount bracket

LAL1 Series with Trunnion mount bracket

11.5"	<p>20.0" 500 11.5" 287 3.0" 75</p>	<p>20.0" x 11.5" x 3.0" EPA: 0.8 ft² Weight: 11.0 lbs</p>	<p>25.5" 638 14.5" 356 3.0" 77</p>	<p>25.5" x 14.5" x 3.0" EPA: 1.1 ft² Weight 17.8 lbs (300W model) 16.5 lbs (240W model)</p>
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LAM1 Series with Yoke mount bracket

LAL1 Series with Yoke mount bracket

Factory Set Occupancy Sensor Settings, if equipped

Sensor equipped LA1 series fixtures utilize a remote controllable microwave sensor that offers occupancy based bi-level light control and daylight sensing. It requires HL-RC-100 remote, sold separately, for wireless access during setup and parameter changes. HL-RC-100 wireless remote uses bidirectional IR communication to send and receive sensor settings at mounting height up to 50 feet. The device can display previously established sensor setting, download sensor setting from one fixture, copy the settings, and upload chosen settings to another fixture. For projects where identical settings may be desired across a large number of fixtures, this capability provides a streamlined method of sensor programming.



- Brightness:** Set the output level of fixture during occupancy.
- Sensitivity:** Detection sensitivity to meet precise needs of each application.
- Hold Time:** Stay-on time at set brightness level after motion detection.
- Daylight Sensor Setting:** Sensor setting to only allow the luminaire to illuminate below a defined ambient brightness threshold. Daylight sensor is active only when luminaire is off.
- Stand-by Time:** Duration to stay at a dim level after hold time.
- Dimming Level:** Desired fixture dim level during Stand-by period.

Brightness	Sensitivity	Hold Time	Daylight Sensor Setting	Stand-by Time	Dim Level
100%	100%	10s	Set to a site's lux levels	1m	50%
90%	75%	1min	10Lux (0.9Fc)	30min	30%
80%	50%	5min	30Lux (2.8Fc)	60min	10%
70%	20%	10min	50Lux (4.6Fc)	Stay on	0%
		15min	100Lux (9.3Fc)		
		20min	300Lux (27.9Fc)		
		30min	500Lux (46.5Fc)		
		60min	Sunlight/Disable		

DLC QPL Listing (Visit www.designlights.org for the Qualified Product List)

Abbreviated Model Names	DLC Product ID	Abbreviated Model Names	DLC Product ID	Abbreviated Model Names	DLC Product ID
LAM1D-A-MV-3-40	S-2YEF5R	LAM1D-B-HV-4-40	S-ET5SWN	LAL1D-B-HV-7-30	PL1YLHE2P84D
LAM1D-A-MV-3-50	S-XQ5RAD	LAM1D-B-HV-4-50	S-JSX7N0	LAL1D-B-HV-7-40	PLPWR4BJZRQR
LAM1D-A-MV-4-40	S-3YLVDB	LAM1D-B-HV-7-30	PLISGZUWLEQL	LAL1D-B-HV-7-50	PL4PAP2GMCWY
LAM1D-A-MV-4-50	S-G3EW2O	LAM1D-B-HV-7-40	PLUYK7HF44IS	LAL1D-C-HV-4-40	S-DIFAK6
LAM1D-A-MV-7-30	PLEETGHE11CK	LAM1D-B-HV-7-50	PLEMI7YBXMEH	LAL1D-C-HV-4-50	S-LONFOA
LAM1D-A-MV-7-40	PLID2JGQCKT	LAM1D-B-HV-7-57	PLX8LZNM4PEN	LAL1D-C-HV-7-30	PL7YR7FNW4JY
LAM1D-A-MV-7-50	PLJ0BYWON9FJ	LAL1D-B-MV-3-40	S-XNQKHC	LAL1D-C-HV-7-40	PLP1DDYRS9S8
LAM1D-A-HV-7-30	PLXOHM7Y65TD	LAL1D-B-MV-3-50	S-3UGWPK	LAL1D-C-HV-7-50	PL6SAA6RDJZC
LAM1D-A-HV-7-40	PLQ4Q0ZYLHOX	LAL1D-B-MV-4-40	S-TAQY4P	LAL1D-C-MV-4-30	S-CLSGIT
LAM1D-A-HV-7-50	PL8F1877P7LF	LAL1D-B-MV-4-50	S-5OFS31	LAL1D-C-MV-4-40	S-TFH78R
LAM1D-B-MV-3-40	S-GOTLSE	LAL1D-B-MV-7-30	PL93HFMLQAZH	LAL1D-C-MV-4-50	S-L0OZH6
LAM1D-B-MV-3-50	S-L0YE2Z	LAL1D-B-MV-7-40	PLHFOB1UYLWO	LAL1D-C-MV-7-30	PLHF635763LH
LAM1D-B-MV-4-40	S-WLJPCR	LAL1D-B-MV-7-50	PLUGKL5XUE6G	LAL1D-C-MV-7-40	PLJA04SSVHNO
LAM1D-B-MV-4-50	S-8B9OQ0	LAL1D-B-HV-4-40	S-KAHZ32	LAL1D-C-MV-7-50	PLC6QI0J186Q
LAM1D-B-MV-7-30	PL27VB1JQ6JJ	LAL1D-B-HV-4-50	S-89WN36		
LAM1D-B-MV-7-40	PLMRY315IYHN				
LAM1D-B-MV-7-50	PLYJLMY874DY				