Apex Lighting

Small Area Light(100W)   Medium Area Light(150W, 200W)   Large Area Light(250W, 300W)

WET LOCATION   UL LISTED   DLC PREMIUM   5 YEARS WARRANTY

GENERAL DESCRIPTION

The AL-LEDEAL series is the compact, efficient, economical approach to LED area lighting. This LED luminaire is designed one piece diecast aluminum slim profile which is 3G vibration rated minimizes wind load requirements. The AL-LEDEAL is an ideal cost-effective solution for a wide variety of area applications.

AL-LEDEAL are available in (3) sizes small(100W), medium (150W,200W) and large(250W,300W) with lumen output between 13,500 to 42,000 lumens replacing up to 1000W MH. This luminaire comes with a 5 year warranty and is available in Type III, Type IV, Type V optics, different mounting options, photocell, and motion sensors for efficiency and greater energy saving.

APPLICATION

Auto dealerships, parking lots, walkways, and other public area

ORDERING INFORMATION
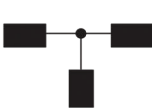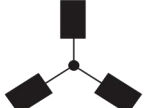
Series	Wattage		CCT		Voltage	Distribution Type		Finish		Mount		Photo Cell		Motino Sensor	
AL-LEDEAL	☐ 100W	100WATT	☐ 40K	4000K	☐ Blank 110 -270 VAC	☐ 3	Type III	☐ Blank	Dark Bronze	☐ -SPEPK	Slipfitter	☐ Blank	No PhotoCell	☐ Blank	No Sensor
	☐ 150W	150WATT	☐ 50K	5000K	☐ HV 347-480 VAC	☐ 4	Type IV	☐ -BK	Black	☐ -AMEPK	Aram Mount	☐ -ALPC	Twist Lock Photocell	☐ -ALMS	Internal Motion Sensor
	☐ 200W	200 WATT				☐ 5	Type V	☐ -WH	White	☐ -WMEPK	Wall Mount				
	☐ 250W	250WATT						☐ -SG	Silver Gray	☐ -TMEPK	Trunnion Mount				
	☐ 300W	300WATT													

LIGHTING UP THE WORLD WITH ONE BULB AT A TIME!

ELECTRIC CHARACTERISTIC

AL-LEDEAL			4000K(70CRI)		5000K(70CRI)	
WATTAGE	VOLTAGE	DIST.TYPE	LUMENS	LPW	LUMENS	LPW
100W	120-277V	3	13500lm	135lm/W	13800lm	137lm/W
	120-277V	4	13200lm	132lm/W	13300lm	132lm/W
	120-277V	5	13800lm	138lm/W	13900lm	140lm/W
150W	120-277V	3	20500lm	137lm/W	20800lm	139lm/W
	120-277V	4	19800lm	132lm/W	20000lm	133lm/W
	120-277V	5	20500lm	137lm/W	20800lm	139lm/W
200W	120-277V	3	25500lm	128 lm/W	26000lm	130 lm/W
	120-277V	4	24600lm	123 lm/W	24800lm	124 lm/W
	120-277V	5	25500lm	128 lm/W	26000lm	130 lm/W
250W	120-277V	3	34000lm	136 lm/W	34500lm	138 lm/W
	120-277V	4	33250lm	133 lm/W	33750lm	135 lm/W
	120-277V	5	34750lm	139 lm/W	35250lm	141 lm/W
300W	120-277V	3	40500lm	135 lm/W	41000lm	137 lm/W
	120-277V	4	39600lm	132 lm/W	39900lm	133 lm/W
	120-277V	5	40500lm	135 lm/W	41000lm	137 lm/W
150W	347-480V	3	21000lm	140 lm/W	21300lm	143 lm/W
	347-480V	4	19800lm	132lm/W	20000lm	133lm/W
	347-480V	5	21000lm	140 lm/W	21000lm	140 lm/W
200W	347-480V	3	25500lm	128 lm/W	26000lm	130 lm/W
	347-480V	4	24600lm	123 lm/W	24800lm	124 lm/W
	347-480V	5	25500lm	128 lm/W	26000lm	130 lm/W
250W	347-480V	3	34000lm	136 lm/W	34500lm	138 lm/W
	347-480V	4	33250lm	133 lm/W	33750lm	135 lm/W
	347-480V	5	34750lm	139 lm/W	35250lm	141 lm/W
300W	347-480V	3	41500lm	138 lm/W	42000lm	140 lm/W
	347-480V	4	39600lm	132 lm/W	39900lm	133 lm/W
	347-480V	5	41500lm	138 lm/W	42000lm	140 lm/W

Epa of Area Light

ITEM	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
100W	0.3413	0.5929	0.7983	0.6826	1.0239	1.0499	1.0239
150W/200W	0.4230	0.7350	0.8730	0.8460	1.1580	1.1851	1.1580
250W/300W	0.4759	0.7889	1.0581	0.9518	1.2648	1.3711	1.2648

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Apex Lighting

SPECIFICATIONS

Housing
Rougged one-piece, die-cast aluminum housing

Mounting
Round pole
Square pole
Slipfitter and wall mount available

Ambient Temperature
Operating temperature -40°F to 113°F

Options
Twist lock photocell
Internal Motion Sensor

Finish
Polyster Powder dark bronze finished. Ohter optional color black, silver gray or white.

Dark Bronze	Black	Silver Gray	White

Efficacy
Up to 142 lumens per watt

CRI
70(CRI)

Lifespan
over 100,000 hours LED lifespan

Lumens
From 1,3200 to 4,2000 lumens

CCT
4000K and 5000K available

Electrical
Voltage 120-277V or 347V-480V
50/60Hz operation;

Distribution Type
Type III, Type IV and Type V

Compliance
Luminaires are cULus listed for damp locations -20 °C - 40°C. Design Light Consortium® Qualified and classified for DLC Premium, refer to www.designlights.org for details.

Warranty
Five year warranty

PHOTOMETRICS

Type3:
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangularpattern which can extend pole spacings.

Type4:
Type 4 is suitable for applications where light is primarily. Required forward with minimal backlight. Typical installations include perimeter poles.
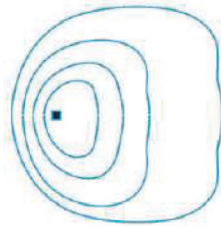
Type5:
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting application.

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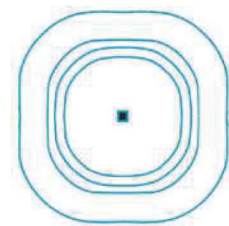
OPTIONAL ACCESSORIES

1. Motion Sensor

BL-PIR-INT

Coverage

Coverage Side View

Coverage Top View

Description

The BL-PIR is a passive sensor that detects a range of 360 degrees around the fixture using infrared technology in an area with or without obstructions. The sensor provides maximum energy savings by illuminating the fixture when motion is detected and turning it off automatically once motion is no longer detected. All functions are adjustable via a wireless configuration tool.

(Please see motion sensor spec sheet for more detail)

How it works

1. When sufficient natural light is present, the fixture will not illuminate when motion is detected.
2. When there is insufficient lighting and motion is detected in a space within range of the sensor, the fixture will illuminate automatically.
3. The light fixture will remain illuminated until the space is unoccupied, and will go into standby mode until motion is detected once again.
4. If the space remains unoccupied for half of the standby period, the fixture will automatically reduce to adjusted light levels.
5. At the end of the standby period, the fixture will turn off automatically until activated once again by motion.
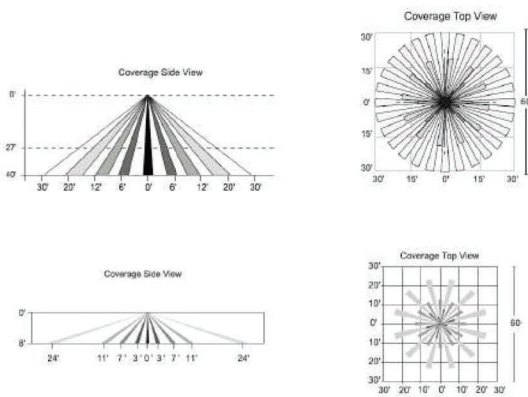
Voltage	Detect Area	Operating Temp	Mounting Height	Protection Rate
120/277VAC 50/60Hz	360°	-40 -158°F	maximum coverage 60' diameter from 40' height	IP66

2. Twist Lock Photocell

ALPC - twist lock photocell low voltage

- Dusk to dawn photocell sensor
- Switch life is greater than 5000 cycles
- Reduce maintenance cost and energy consumption
- UL Listed golbal safety certification

MODEL #	VOLTAGE	DELAY TIME	AMBIENT TEMPERATURE	PRODUCT SIZE	COLOR
ALPC	120-277VAC /480VAC	8-15 sec	(-40°F to 170°F)	80mmx64mm	Black

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OPTIONAL ACCESSORIES

Installation Instruction

•Disconnect power before installation

•Fix the photocell base to the luminaire as the N-pole mark points to the lamp

•Wire the photocell base according to the wiring diagram

•Insert the photocell into the corresponding hole and twist clockwise tightly

•Adjust the photocell position to ensure the glazing surface face to the north
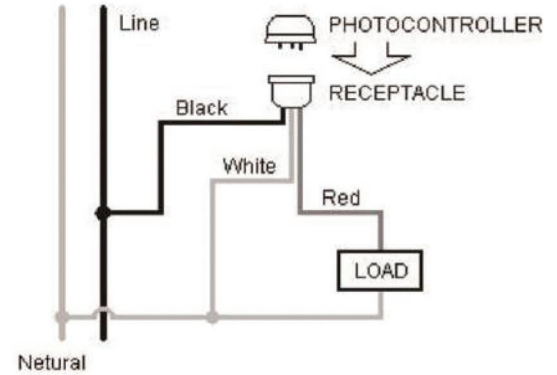
Dimensions(mm)
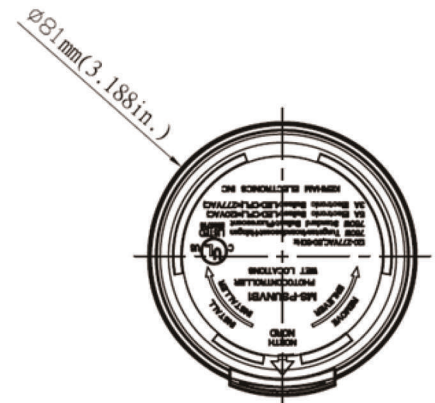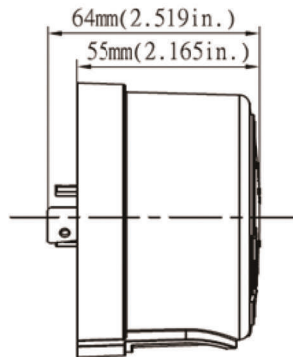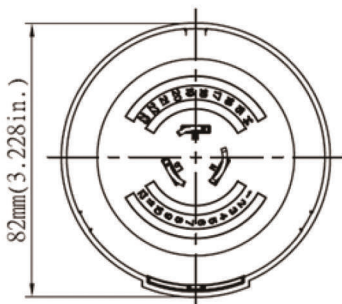
3. Mounting Option

Arm Mount

Arm Mount (4" and 5" Square and Round Poles)
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

Slipfitter Mount

Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8" O.D.pipe size) horizontal steel tenon arm
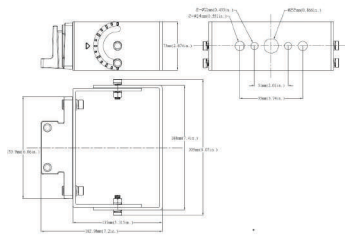
Wall Mount

Wall Mount
Wall mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-box mounting.

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OPTIONAL ACCESSORIES

Trunnion Mount

Trunnion mount
The trunnion is able to mount in any surface: wall, roof or wood pole. It can be used with 2-3/8" tennon mouting.

4. Additional Mounting Accessories

Pole Bracket

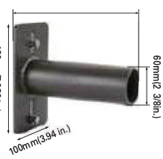| 4" Square Pole Mount	4" Round Pole Mount	5" Square Pole Mount	5" Round Pole Mount	Tennon & Yoke Adaptor

Wall Bracket

90° Wall Mount Bracket

Mid-Pole tenon Bracket

Horizontal Tenon Mid-Pole Bracket

Round External Mount Horizontal Tenon

| Double 90' Horizontall Tenon Adaptor	Triple 120' Horizontall Tenon Adaptor	Double 180' Horizontall Tenon Adaptor	Quad 90' Horizontall Tenon Adaptor	Triple 90' Horizontall Tenon Adaptor

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## INSTALLATION

Square / Round Pole

1. Remove the side plate from mounting bracket. Please skip to step 3 if mounted onto square pole.
2. Attach round pole mounting plate on mounting bracket.
3. Route the cord into mounting bracket through the hole for wiring, slide the fixture onto the bracket and tighten 2 bottom screws.
4. Slightly drag the wires to make sure the hole on bracket is sealed by silicon gasket.
5. Make wiring connection as per wire diagram below, replace the side plate and fasten screws.
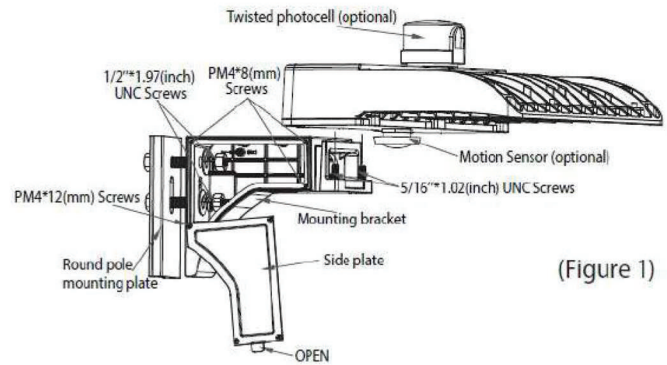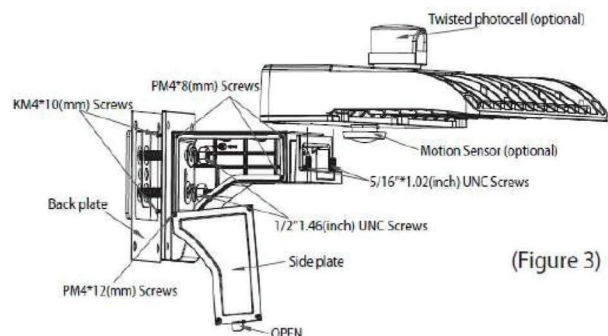

(Figure 1)

Slipfitter

1. Connect the wires to L/N/GND.
2. Remove the cover and adjust the bracket to the desired angle.
3. Install the braket on the pole and fix it with screws.
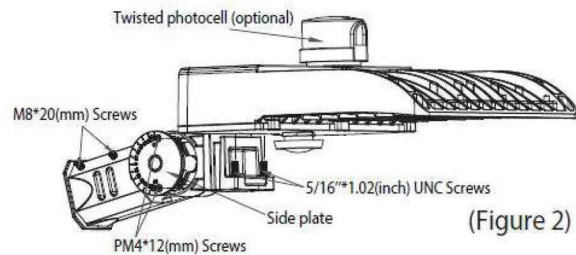
(Figure 2)

Wall Mount

1. Remove the side plate by loosen the screws.
2. Fix the back plate onto the arm bracket with screws provided.
3. Use the metal template provided to locate footprint on the wall to drill the holes, then fix the bracket on the wall with screws.
4. Route the power cord into wall mount bracket, slide the fixture onto the mounting bracket, then tighten bottom screws.
5. Make wiring connection inside of bracket and replace the side plate with screws.

(Figure 3)

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PERFORMANCE DATA

Performance

WATTAGE	LUMEN	EFFICACY	REPLACES	MOUNTING HEIGHT	DLC
100W	13,500lm	135lm/W	250W	15-20 ft	Premium
150W	20,500lm	137lm/W	400W	20-30 ft	Premium
200W	25,500lm	128lm/W	400W	20-30 ft	Premium
250W	34,000lm	136lm/W	750W	30-50 ft	Premium
300W	40,500lm	135lm/W	1000W	30-50 ft	Premium

Electrical

# of Driver	WATTAGE	Current(A)					
		120V	208V	240V	277V	347V	480V
1	100W	0.83	0.48	0.41	0.36	N/A	N/A
1	150W	1.25	0.72	0.63	0.54	0.43	0.31
1	200W	1.66	0.96	0.83	0.72	0.58	0.42
1	250W	2.08	1.2	1.04	0.9	0.72	0.52
1	300W	2.5	1.44	1.25	1.08	0.87	0.62

Project luminaire maintenance

Ambient Temperature	0	25,000	50,000	100,000	Calculated L70(hours)
25°C/77°F	1	0.95	0.91	0.81	>214,973

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Apex Lighting

DIMENSIONS

100W(slipfitter mount)
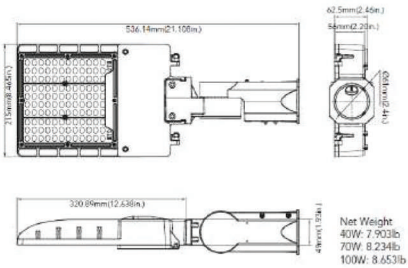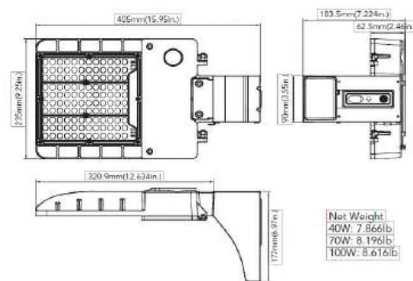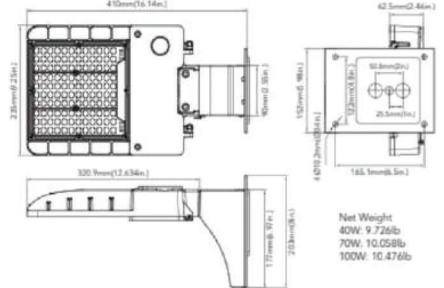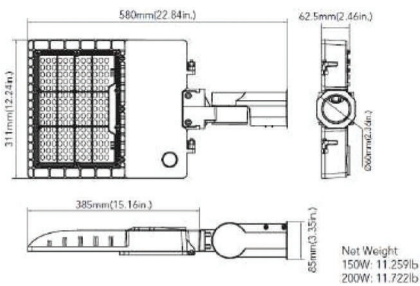
Net Weight
40W: 7.903lb
70W: 8.234lb
100W: 8.653lb

100W(pole mount)

Net Weight
40W: 7.866lb
70W: 8.196lb
100W: 8.616lb

100W(wall mount)

Net Weight
40W: 9.726lb
70W: 10.058lb
100W: 10.476lb

150W, 200W(slipfitter mount)

Net Weight
150W: 11.259lb
200W: 11.722lb

150W, 200W(pole mount)

Net Weight
150W: 11.592lb
200W: 12.143lb

150W, 200W(wall mount)

Net Weight
150W: 13.453lb
200W: 14.004lb

250W, 300W(slipfitter mount)

Net Weight
250W: 16.387lb
300W: 17.931lb

250W, 300W(pole mount)

Net Weight
250W: 16.071lb
300W: 17.936lb

250W, 300W(wall mount)

Net Weight
250W: 17.932lb
300W: 19.798lb
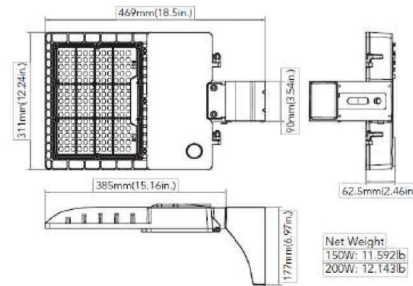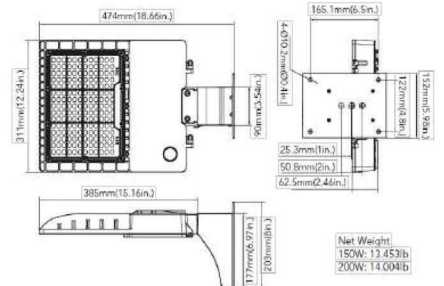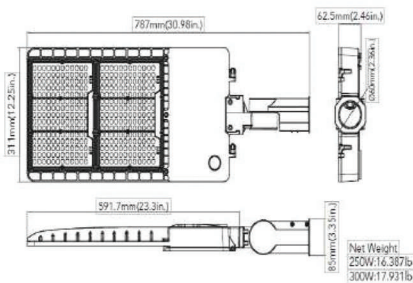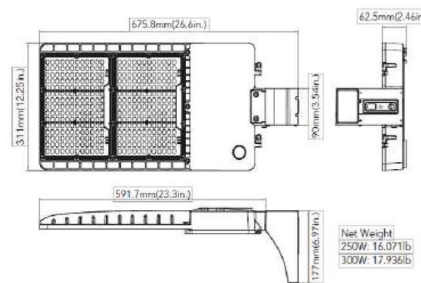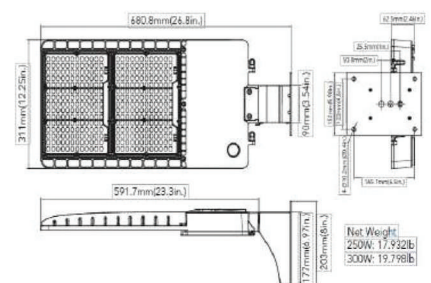
Round Pole Mount
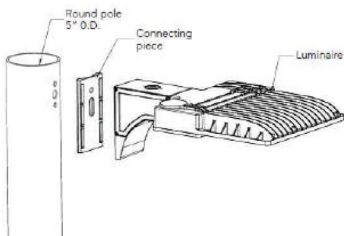
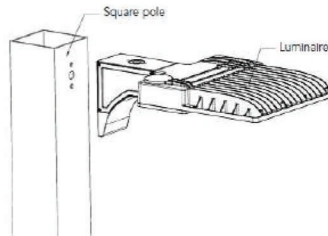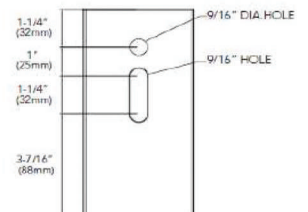### Square Pole Mount

Drilling Template

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