Aquila

LED Area Light

Project

Catalog

Type

Date

Product Description

The Aquila LED Area Light delivers high efficiency with maximum energy savings and advanced controls to suit a variety of applications. Its robust, low-profile housing is comprised of die-cast aluminum and has a modern, single piece design that will blend into most environments. Exceptional performance is enhanced by the precision die-cast thermodynamic fin cooling system, uniquely developed by NICOR. Quick to install, the Aquila is a versatile fixture with easily interchangeable precision lenses in Type II through Type V distributions. The Aquila is available in lumen packages from 13,000 to 40,000 lumens. Ideal for use in parking lots, roadways, recreational or public venues, walkways, auto dealerships, campuses, and other commercial environments. UL Listed for wet locations.

Construction
- Heavy duty die-cast construction with single piece housing.
- Low profile 3" design provides low wind resistance.
- UV stabilized powder coat finish.
- Stainless steel hardware and electrical SJ cord connection.
- Injection molded silicone gasket seals the driver compartment.

Optical System
- Individual optics are precisely designed to shape the distribution maximizing efficiency and spacing criteria.
- High impact polycarbonate lenses deliver four IES type distributions.
- Type III distribution is standard
- Type II, IV and V distributions are optional
- Zero uplight
- Utilizes advanced LED technology and available in 3000K, 4000K and 5000K.
- Standard 80 CRI to improve safety and color definition in public places.
- See BUG Rating on the Performance Data Table

Electrical
- Input voltage of 120-277VAC or 347-480VAC
- Industry leading surge protection (10kA on 120-277VAC and 20kA on 347-480VAC) provides single phase protection for line/neutral, line/ground and neutral/ground in accordance with IEEE C62.41 2002 C High category.
- Operating temperature rating of -40° to 104°F (-40°C to 40°C)
- Available in 60W, 100W, 150W, 200W and 300W products.
- See performance data for delivered lumen output.

Controls
- Optional microwave sensor is remote controllable and provides up to 3-step dimming
- Optional photocell and receptable & shunt
- Standard full-range dimming with 0-10VDC dimmers

Mounting and installation
- Mounting arms are available for a variety of installations. All mounting arms are die-cast aluminum and available in Bronze, White or custom color.
- Adjustable Pole Mount Arm provides up to 180° of adjustability and mounts to a round or square pole.
- Adjustable Wall Mount Arm provides up to 180° of adjustability and mounts to a flat wall.
- Slipfitter Mount Adaptor installs directly to a nominal 2" round or square pole.
- Straight Mount Arm mounts to a round or square pole.
- Trunnion Mounting Arm easily mounts to a variety of poles.

Listings
- LM-79, LM-80 testing performed in accordance with IESNA standards
- UL/cUL1598 Listed for wet locations
- IP65 Rated
- DLC 5.0 Premium Listed
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >54,000 hours

Warranty
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

OAL2

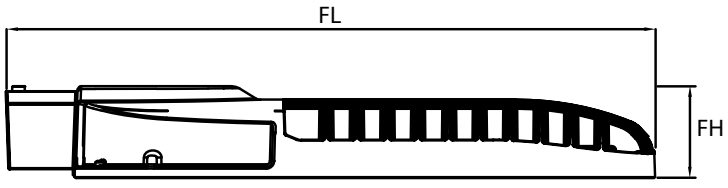
60W, 100W, 150W, 200W, 300W

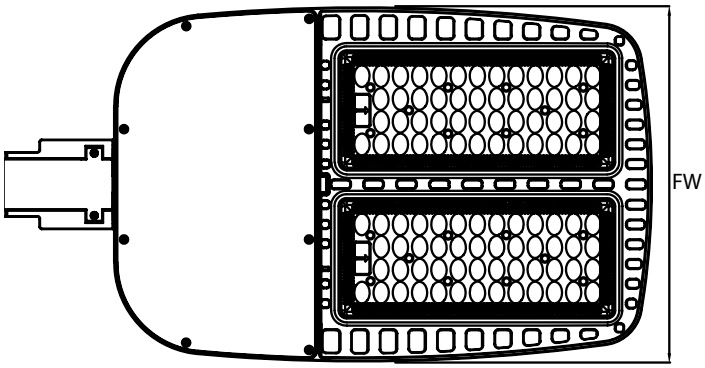
LED Area Light

CERTIFIED · DLC LISTED PREMIUM · WET LOCATION RATED · IP65 · 5 YEAR WARRANTY

Dimensions

	60 /100 / 150 / 200W	300W
Fixture Length (FL)	19 in (483 mm)	22.7 in (577 mm)
Fixture Height (FH)	3.1 in (79 mm)	3.2 in (82 mm)
Fixture Width (FW)	13.2 in (335 mm)	13.4 in (340 mm)





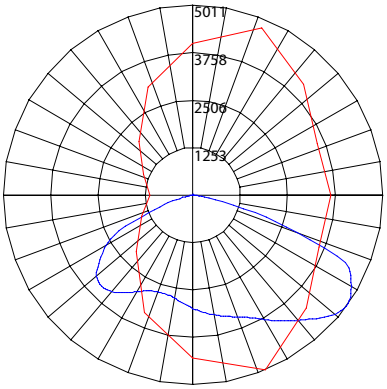
Photometric Data

OAL 100W Type III 5000K

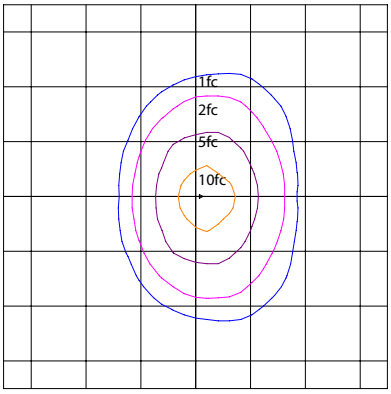
Input Voltage (VAC)	120-277
System Level Power (W)	97.6
120V Current (A)	0.81
277V Current (A)	0.35
Delivered Lumens (Lm)	12968
System Efficacy (Lm/W)	132.8
Correlated Color Temp (K)	5012
Color Rendering Index (CRI)	83
Horizontal Beam Angle	134.3
Vertical Beam Angle	99.9
Spacing Criteria (0-180)	2.0
Spacing Criteria (90-270)	1.8

Intensity Summary (Candle Power)

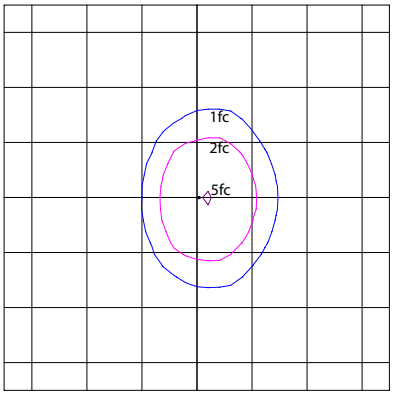
Angle	Mean CP
0	3003
5	3006
15	3044
25	3111
35	3341
45	3478
55	3195
65	2150
75	492
85	33
90	9



15' Mounting Height (1 square = 225 sq ft)



25' Mounting Height (1 square = 400 sq ft)



Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	2597	20.0%
0-40	4696	36.2%
0-60	10209	78.7%
0-90	12968	100%
90-180	0	0.5%
0-180	12968	100%

CCT Data Multiplier

OAL2100MV308BZ3	0.951
OAL2100MV408BZ3	0.976

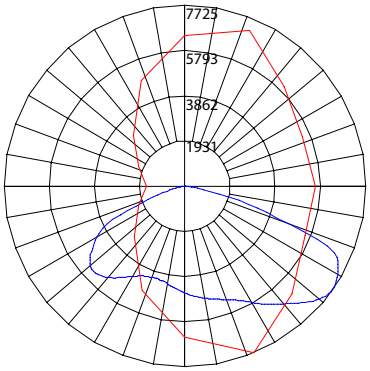
Photometric Data

OAL 150W Type III 5000K

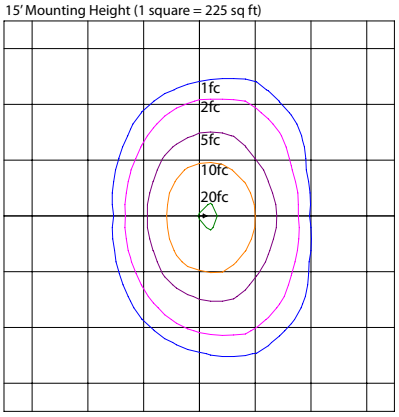
Input Voltage (VAC)	120-277
System Level Power (W)	151.0
120V Current (A)	1.26
277V Current (A)	0.55
Delivered Lumens (Lm)	19900
System Efficacy (Lm/W)	131.8
Correlated Color Temp (K)	5008
Color Rendering Index (CRI)	83
Horizontal Beam Angle	135.0
Vertical Beam Angle	98.8
Spacing Criteria (0-180)	2.0
Spacing Criteria (90-270)	1.86

Intensity Summary (Candle Power)

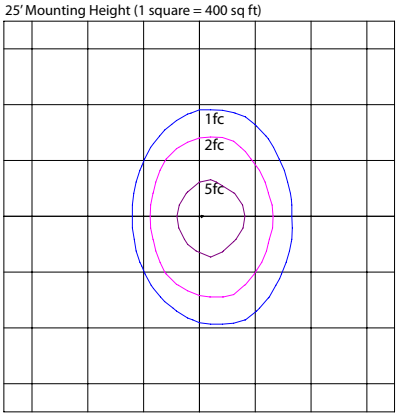
Angle	Mean CP
0	4579
5	4577
15	4610
25	4725
35	5086
45	5305
55	4918
65	3347
75	803
85	52
90	11



15' Mounting Height (1 square = 225 sq ft)



25' Mounting Height (1 square = 400 sq ft)



Zonal Lumen Summary

Zone	Lumens	%ofLuminaire
0-30	3941	19.8%
0-40	7137	35.9%
0-60	15582	78.3%
0-90	19900	100%
90-180	0	0.0%
0-180	19900	100%

CCT Data Multiplier

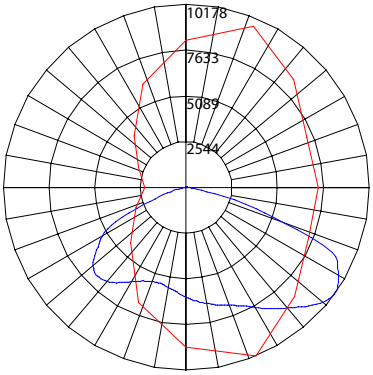
OAL2150MV308BZ3	0.951
OAL2150MV408BZ3	0.976

OAL 200W Type III 5000K

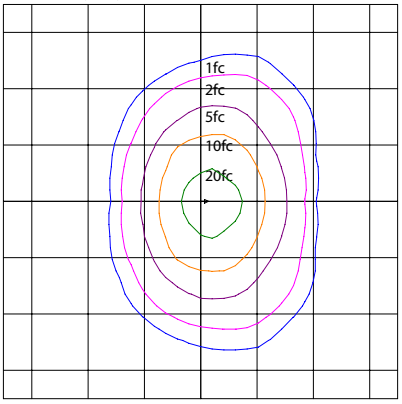
Input Voltage (VAC)	120-277
System Level Power (W)	200.6
120V Current (A)	1.67
277V Current (A)	0.72
Delivered Lumens (Lm)	26419
System Efficacy (Lm/W)	131.7
Correlated Color Temp (K)	4994
Color Rendering Index (CRI)	83
Horizontal Beam Angle	134.2
Vertical Beam Angle	99.9
Spacing Criteria (0-180)	2.0
Spacing Criteria (90-270)	1.8

Intensity Summary (Candle Power)

Angle	Mean CP
0	6128
5	6130
15	6209
25	6350
35	6820
45	7100
55	6523
65	4386
75	990
85	67
90	14



15' Mounting Height (1 square = 225 sq ft)



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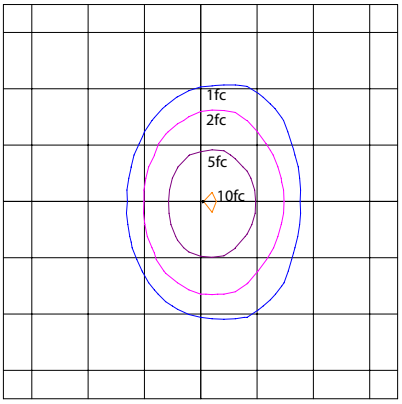


Zonal Lumen Summary

Zone	Lumens	%ofLuminaire
0-30	5298	20.1%
0-40	9582	36.3%
0-60	20831	78.8%
0-90	26419	100%
90-180	0	0.0%
0-180	26419	100%

CCT Data Multiplier

OAL2200MV308BZ3	0.951
OAL2200MV408BZ3	0.976

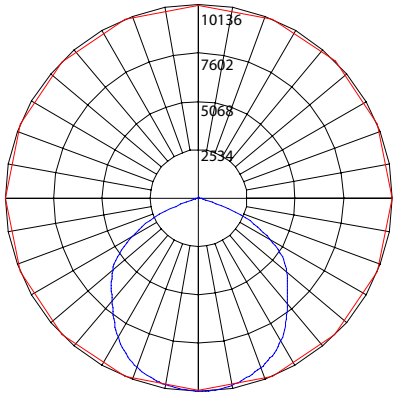
Photometric Data

OAL 200W Type V 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	197.8
120V Current (A)	1.65
277V Current (A)	0.71
Delivered Lumens (Lm)	25818
System Efficacy (Lm/W)	130.5
Correlated Color Temp (K)	4994
Color Rendering Index (CRI)	83
Horizontal Beam Angle	110.1
Vertical Beam Angle	110.7
Spacing Criteria (0-180)	1.2
Spacing Criteria (90-270)	1.22

Intensity Summary (Candle Power)

Angle	Mean CP
0	10131
5	10076
15	9701
25	8959
35	7822
45	6599
55	5196
65	2977
75	183
85	24
90	13



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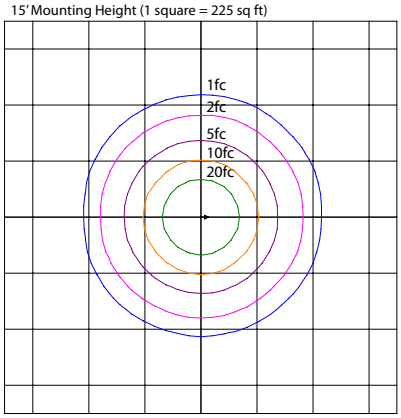

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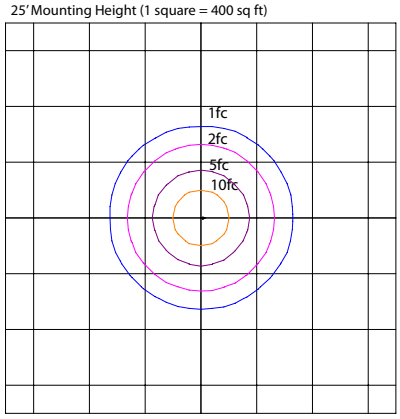


Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	7820	30.3%
0-40	12713	49.2%
0-60	22420	86.8%
0-90	25711	99.6%
90-180	107	0.4%
0-180	25818	100%

CCT Data Multiplier

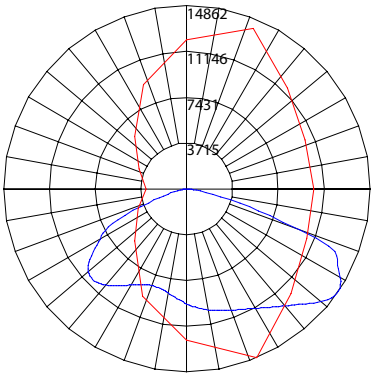
OAL2200MV308BZ3	0.951
OAL2200MV408BZ3	0.976

OAL 300W Type III 5000K

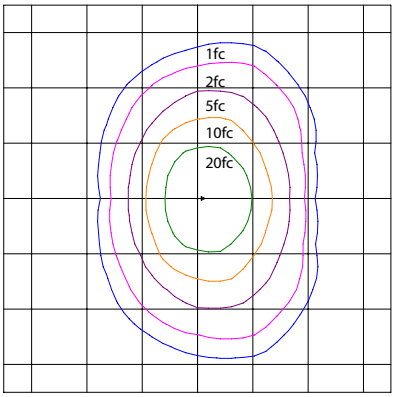
Input Voltage (VAC)	277
System Level Power (W)	296.1
120V Current (A)	2.47
277V Current (A)	1.07
Delivered Lumens (Lm)	38759
System Efficacy (Lm/W)	130.9
Correlated Color Temp (K)	5012
Color Rendering Index (CRI)	83
Horizontal Beam Angle	135.9
Vertical Beam Angle	100.4
Spacing Criteria (0-180)	1.9
Spacing Criteria (90-270)	1.78

Intensity Summary (Candle Power)

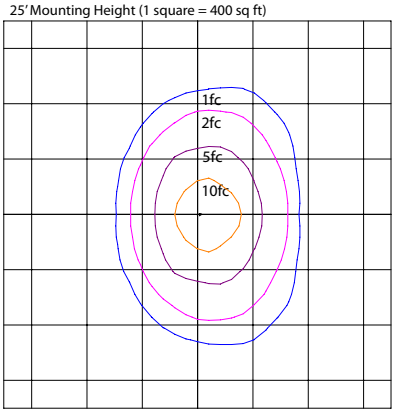
Angle	Mean CP
0	9346
5	9333
15	9308
25	9427
35	9988
45	10309
55	9571
65	6531
75	1531
85	79
90	0



15' Mounting Height (1 square = 225 sq ft)



25' Mounting Height (1 square = 400 sq ft)



Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	7909	20.4%
0-40	14184	36.6%
0-60	30585	78.9%
0-90	38759	100%
90-180	0	0%
0-180	38759	100%

CCT Data Multiplier

OAL2300MV308BZ3	0.951
OAL2300MV408BZ3	0.976

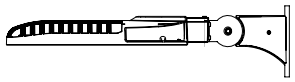
Performance Data									
Model Number	Lumens	Watts	Lumens/Watt	BUG Rating at 0°	Model Number	Lumens	Watts	Lumens/Watt	BUG Rating at 0°
OAL2100MV308BZ3	12333	97.6	126.4	B3-U0-G2	OAL2200MV308BZ3	25124	200.6	125.2	B5-U0-G4
OAL2100MV408BZ3	12657	97.6	129.7	B3-U0-G2	OAL2200MV408BZ3	25785	200.6	128.5	B5-U0-G4
OAL2100MV508BZ3	12968	97.6	132.9	B3-U0-G2	OAL2200MV508BZ3	26419	200.6	131.7	B5-U0-G4
OAL2100MV308BZ5	12625	101.0	125.0	B3-U0-G1	OAL2200MV308BZ5	24553	197.8	124.1	B4-U0-G1
OAL2100MV408BZ5	12957	101.0	128.3	B3-U0-G1	OAL2200MV408BZ5	25198	197.8	127.4	B4-U0-G1
OAL2100MV508BZ5	13276	101.0	131.4	B3-U0-G1	OAL2200MV508BZ5	25818	197.8	130.5	B4-U0-G1
OAL2150MV308BZ3	18925	151.0	125.3	B3-U0-G3	OAL2300MV308BZ3	36860	296.1	124.5	B5-U0-G4
OAL2150MV408BZ3	19422	151.0	128.6	B3-U0-G3	OAL2300MV408BZ3	37829	296.1	127.8	B5-U0-G4
OAL2150MV508BZ3	19900	151.0	131.8	B3-U0-G3	OAL2300MV508BZ3	38759	296.1	130.9	B5-U0-G4
OAL2150MV308BZ5	18775	150.3	124.9	B4-U0-G1	OAL2300MV308BZ5	37229	297.5	125.1	B5-U0-G2
OAL2150MV408BZ5	19268	150.3	128.2	B4-U0-G1	OAL2300MV408BZ5	38207	297.5	128.4	B5-U0-G2
OAL2150MV508BZ5	19742	150.3	131.4	B4-U0-G1	OAL2300MV508BZ5	39147	297.5	131.6	B5-U0-G2

Recommended 0-10VDC Dimmers*
Lutron NTSTV
Lutron DVSTV
Cooper SF10P
Legrand RH4FBL3PW

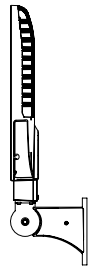
**Not a complete list. Check compatibility before installation.*

EPA Data

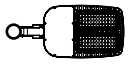
Weight (1 Luminaire)	
60W - 200W	14.33lbs (6.5kg)
300W	17.64 lbs (8 kg)



Straight Mount

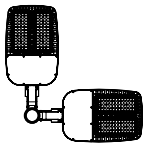


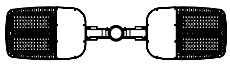
Flood Mount



1 Luminaire		
Straight Mount		
60W - 200W	0.643ft^2	0.0597m^2
300W	1.035ft^2	0.0962m^2
Flood Mount *(adjustable arms only)*		
60W - 200W	1.721ft^2	0.1598m^2
300W	2.742ft^2	0.2547m^2

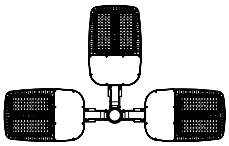
2 Luminaires 90°		
Straight Mount		
60W - 200W	1.169ft^2	0.1086m^2
300W	1.600ft^2	0.1486m^2
Flood Mount *(adjustable arms only)*		
60W - 200W	2.363ft^2	0.2196m^2
300W	3.777ft^2	0.3509m^2

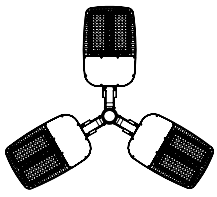




2 Luminaires 180°		
Straight Mount		
60W - 200W	1.286ft^2	0.1195m^2
300W	2.071ft^2	0.1924m^2
Flood Mount *(adjustable arms only)*		
60W - 200W	1.721ft^2	0.1598m^2
300W	2.742ft^2	0.247m^2

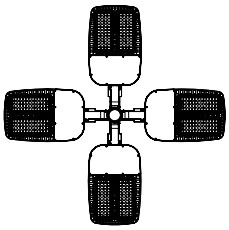
3 Luminaires 90°		
Straight Mount		
60W - 200W	1.812ft^2	0.1683m^2
300W	2.635ft^2	0.2448m^2
Flood Mount *(adjustable arms only)*		
60W - 200W	3.006ft^2	0.2793m^2
300W	4.812ft^2	0.4471m^2





3 Luminaires 120°		
Straight Mount		
60W - 200W	1.407ft^2	0.1307m^2
300W	2.005ft^2	0.1863m^2
Flood Mount *(adjustable arms only)*		
60W - 200W	3.006ft^2	0.2793m^2
300W	7.132ft^2	0.6626m^2

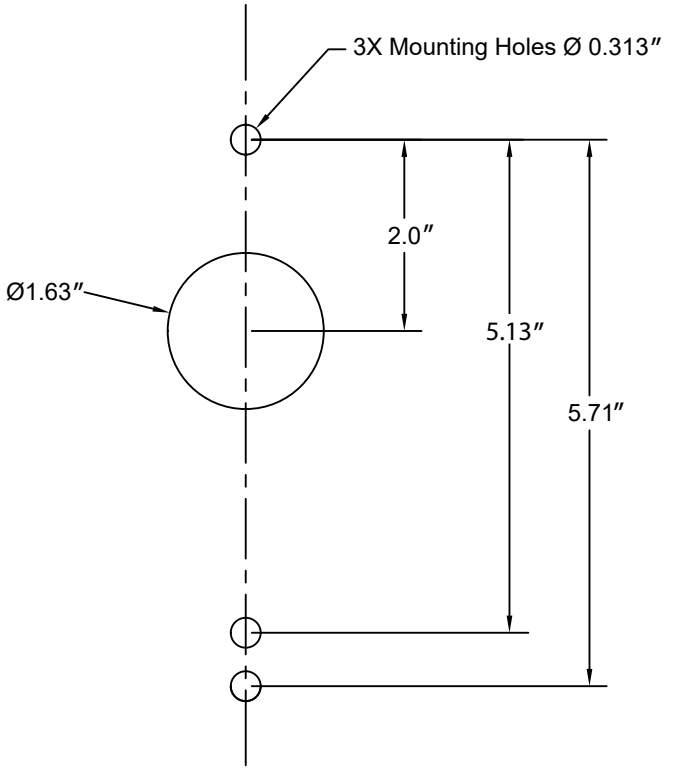
4 Luminaires 90°		
Straight Mount		
60W - 200W	1.812ft^2	0.1683m^2
300W	2.635ft^2	0.2448m^2
Flood Mount *(adjustable arms only)*		
60W - 200W	3.006ft^2	0.2793m^2
300W	4.812ft^2	0.4471m^2



Installation information

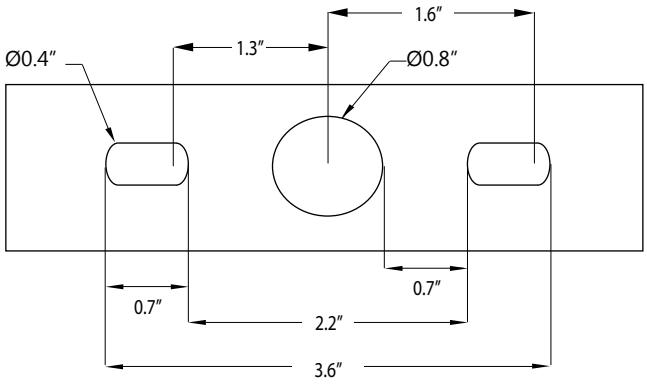
Drill Pattern (not to scale)

5.13″ for Straight Mounting Arm - OAL2STRAIGHTARM##
5.71″ for Adjustable Pole & Wall Arm - OAL2POLEJARM## & OAL2JWALLARM##

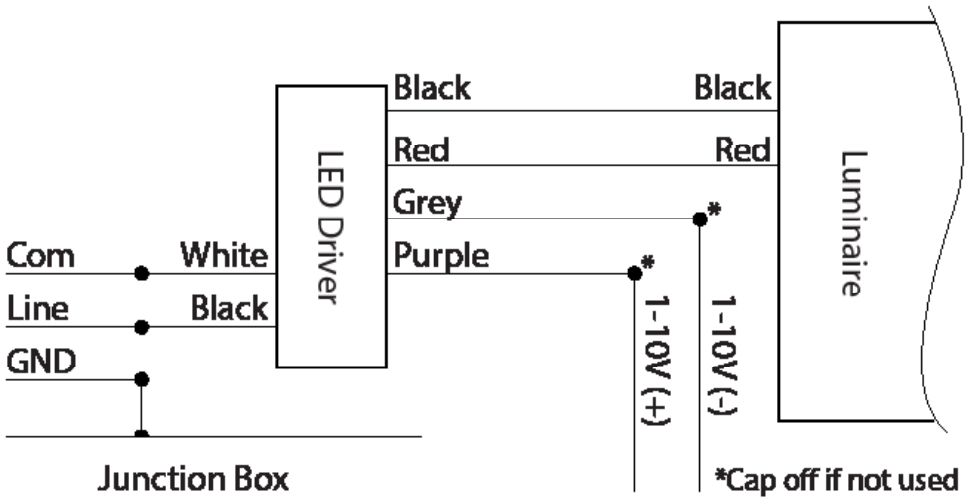


Drill Pattern (not to scale)

Trunnion Mounting Arm - OAL2TRUNIONBZ



Wiring Diagram



Ordering Information

Example: OAL2150MV408BZ3M

Series	Version	Wattage	Voltage	CCTs	CRI	Finish	Optic	Sensor
OAL	**2**	☐ **60**	☐ **MV** (120-277 VAC)	☐ **30** (3000K)	**8** (80 CRI)	☐ **BZ** (Bronze)	☐ **3** (Type III)	☐ _ (3 Pin Receptacle & Shunt)
		☐ **100**	☐ **HV** (347-480 VAC)[1]	☐ **40** (4000K)				☐ **7** (7 Pin Receptacle & Shunt)
		☐ **150**		☐ **50** (5000K)				
		☐ **200**						
		☐ **300**						

Specifications and dimensions subject to change without notice.
1) High Voltage not available on 60W.

Accessories

Accessories sold separately

Bronze Adjustable Pole Mounting Arm	OAL2POLEJARMBZ
White Adjustable Pole Mounting Arm	OAL2POLEJARMWH
Bronze Adjustable Wall Mounting Arm	OAL2JWALLARMBZ
White Adjustable Wall Mounting Arm	OAL2JWALLARMWH
Bronze 2" Diameter Slipfitter Adapter	OAL2SLIPFITARMBZ
White 2" Diameter Slipfitter Adapter	OAL2SLIPFITARMWH
Bronze 6" Straight Mounting Arm	OAL2STRAIGHTARMBZ
White 6" Straight Mounting Arm	OAL2STRAIGHTARMWH
Bronze 4" Trunnion Mounting Arm	OAL2TRUNIONBZ
White 4" Trunnion Mounting Arm	OAL2TRUNIONWH
Motion Sensor Remote Control	OAL2MSREMOTE
House Side Shield : 60/100/150/200W	OAL2SHIELD
House Side Shield : 300W	OAL2300SHIELD
Low profile Double Tenon	OPL41TN2
180° Triple Bullhorn	OPL41BH3S
Triple 120° Bullhorn	OPL41BH3A
180° Wallmount Bracket	OPL41WM1
Wallmount 90° Bracket	OPL41WM2
4" Round Tenon Adapter	OPL41TNA
Standard Voltage 3-Pin photocell (120-277 VAC)	OAL-PHOTOCELL
High Voltage 3-Pin photocell (347-480 VAC)	OALHVPHOTOCELL

See next page for image, dimensions, and decriptions of accessories.

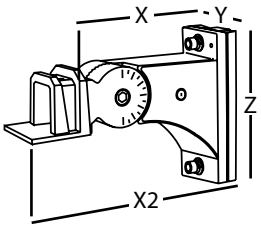
Controls

Sensor Options

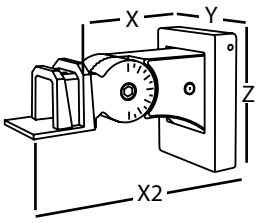
[_] - 3-pin Receptacle & Shunt
Standard configuration ships with a 3-pin photocell receptacle with shorting cap installed.

7 - 7-pin Photocell Receptacle & Shunt
Optional configuration ships with a 7-pin photocell receptacle with shorting cap installed allowing the use of advanced control systems that require NEMA 7-pin receptacles.

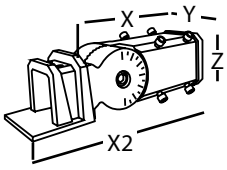
Mounting Accessories



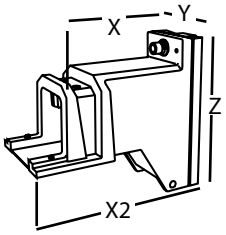
Adjustable Pole Mounting Arm
For square or round pole
OAL2POLEJARM##



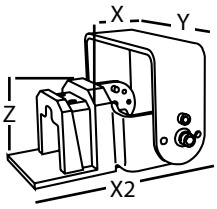
Adjustable Wall Mounting Arm
OAL2JWALLARM##



Slipfitter Adapter
OAL2SLIPFITARM##



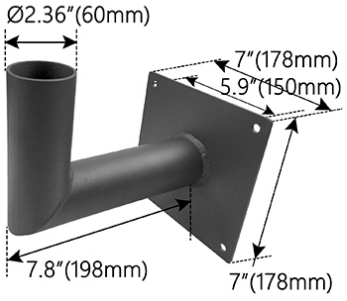
Straight Mounting Arm
for square or round pole
OAL2STRAIGHTARM##



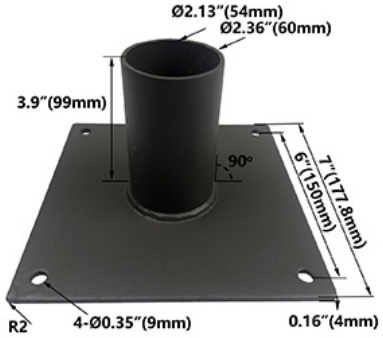
Trunnion Mounting Arm
OAL2TRUNNION##

Dimensions (inch)	X	X2	Y	Z	Note
OAL2POLEJARM	8.7	11.0	3.5	6.9	
OAL2JWALLARM	7.9	10.2	5.36	7.1	
OAL2SLIPFITARM	8.0	10.4	3.0	3.0	Fits 2.5″ tennon
OAL2STRAIGHTARM	4.3	6.6	2.5	5.9	
OAL2TRUNNION[6]	5.9	8.2	6.8	3	2″ wide trunnion

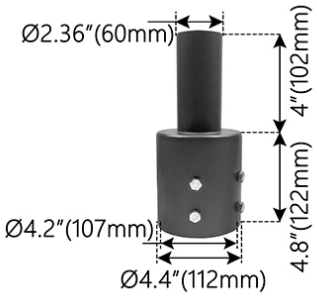
6) Dimensions are with Trunnion fully extended.



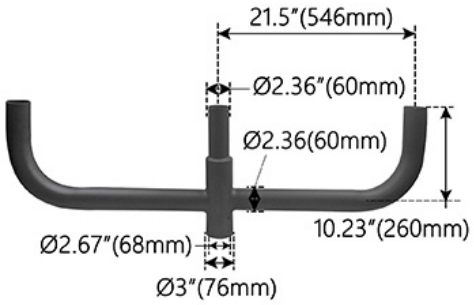
Wallmount 90° Bracket
OPL41WM2



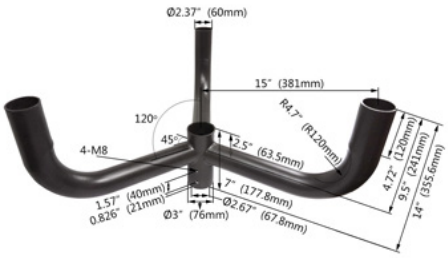
180° Wallmount Bracket
OPL41WM1



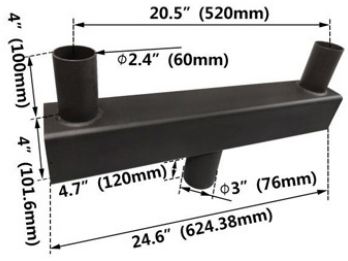
4″ Round Tenon Adapter
OPL41TNA



180° Triple Bullhorn
OPL41BH3S



Triple 120° Bullhorn
OPL41BH3A



Low Profile Double Tenon
OPL41TN2

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.