



MOUNTING OPTIONS



EASY 3 COLORS
SELECTOR
3000K • 4000K • 5000K



PM
Pole Mount



PM-ADJ
Pole Mount Adjustable



SFM
Slipfitter Mount



TRM
Trunnion Mount



YM
Yoke Mount

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
42000	41890	300W
34000	34201	240W
29000	28540	200W

Wattage is based on 120VAC. Actual wattage may vary +/- 5%

BUG RATING: ACCORDING TO TYPE III DISTRIBUTION		
B	U	G
4	0	3

FEATURES

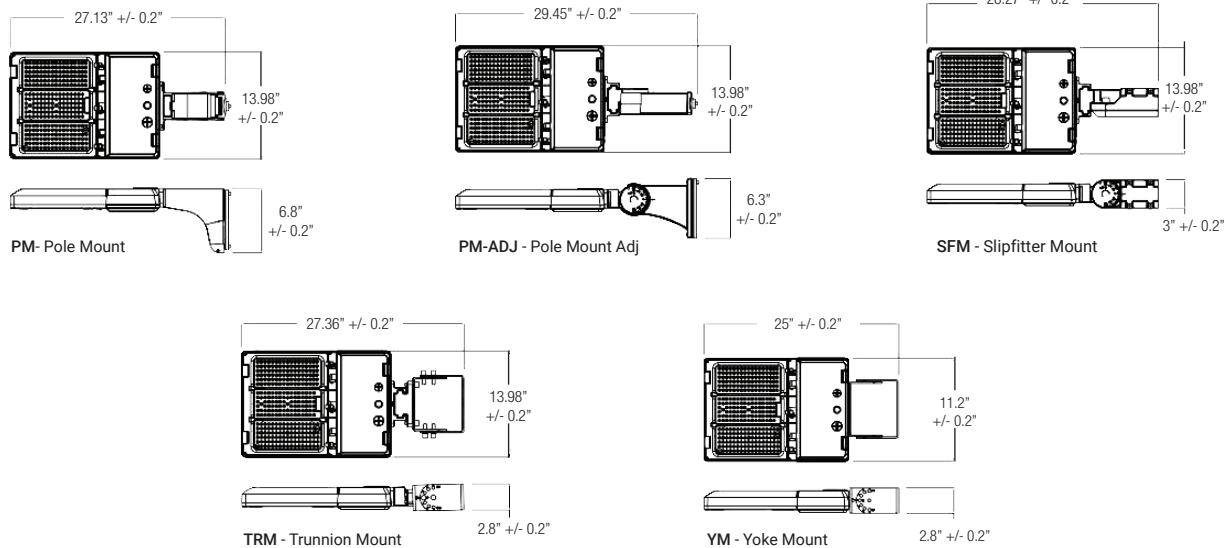
OAL-303-LED is easy to install and operate and has an instant start with zero flickering and humming. Choose to be eco-friendly with this fixture that consists of no mercury and is energy saving with a long lifespan. The soft and uniform light it emits has no UV or IR and is great for outdoor applications such as sports fields, stadiums, and gymnasiums as well as warehouses and transport stations.

LUMENS	29000/34000/42000
CCT	30K/40K/50K
CRI	80+
VOLTAGE	120-277VAC
MOUNTING	Pole Mount, Pole Mount Adj, Slipfitter Mount, Trunnion Mount, Yoke Mount
EFFICACY	150LM/W
DISTRIBUTION	Standard: T3D - Type III, (Included: Type IV, Type V)
WORKING TEMP	-40°C (-40°F) to 50°C (122°F)
SURGE PROTECTION	10kV Standard
EPA RATING	150W is 1.63 300W is 2.46
LIFETIME	L85 AT 100,000 Hours

	Type 2 optics are well-suited for scenarios requiring luminaires to be spaced further apart along a road or pathway. These optics optimize light distribution for elongated areas, enabling increased pole spacing without compromising lighting quality.	DISTRIBUTION TYPES
	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 rectangular pattern which can extend pole spacings.	
	Type 4 optics is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.	
	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 applications.	



DIMENSIONS



CONSTRUCTION

The product features a durable, rugged one-piece, die-cast aluminum housing. It incorporates heat dissipating fins and flow-through venting, which effectively manage thermal conditions, thereby enhancing the performance of the LED and extending the lifespan of the components. The light engines and housing are sealed to provide protection against moisture and environmental contaminants up to IP65 standards. Low profile, 3G vibration rated compact design minimizes wind load requirements.

OPTICS

Precision acrylic refractive lenses optimize application efficiency by directing light precisely where it's needed. It is available in 4 different distributions: Type II, Type III, Type IV, Type V. The optics can conform to dark sky requirement.

MOUNTING

PM (Pole Mount)

The standard option is ideal for square or round poles, this option is specifically designed for attaching the light fixture to a 2 3/8" horizontal mast arm.

PM-ADJ (Adjustable)

Equipped with adjustable angles, enabling precise positioning of the light to effectively cover specific areas.

SFM (Slipfitter Mount)

This option features an adjustable slipfitter tailored to fit on a 2 3/8" OD tenon. This slipfitter boasts a built-in junction box for seamless setup and can be tilted up to 90° from the horizontal position for enhanced versatility.

TRM (Trunnion Mount)

An adjustable trunnion mount suitable for both pole and wall mounting, along with a surface conduit box designed for wall-mounted installations.

YM (Yoke Mount)

This bracket allows for easy adjustment of the fixture's orientation, enabling flexible positioning of the light source.

FINISH

The exterior parts are safeguarded by a zinc-infused super durable thermoset powder coat finish, ensuring exceptional protection against corrosion and weathering.

INSTALLATION

Suitable for mounting heights ranging from 26' to 50' in area lighting applications. Round pole, Square pole, Slipfitter, and Wall Mount are available. The design can be operated by one person to install the whole lamp.

ELECTRICAL

Powered by high-quality constant-current Class 1 powered LED drivers, rated for 50Hz to 60Hz at 120/277V input. Available in 347V. Produces less than 20% THD and has a power factor of .90 to 1.00. The light fixture incorporates a serviceable 10kV surge protection device that meets the minimum requirements of Category C Low operation, as per the ANSI/IEEE C62.41.2 standard.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

- DesignLights Consortium® (DLC) Premium qualified product
- DLC qualified product.
- IP65 per IEC 60529 standard and totally protected against dust/sand impact
- UL Listed for wet locations, UL listed to meet US and Canadian standards.
- International Dark-Sky Association (IDA) qualified
- ANSI C136.41 Receptacle/Socket, NEMA 5-pin, Receptacle/Socket, NEMA 7-pin Receptacle/Socket, Zhaga

Example: **OAL-303-LED-29000L/34000L/42000L-DIM10-MVOLT-30K/40K/50K-T3D-BZ**

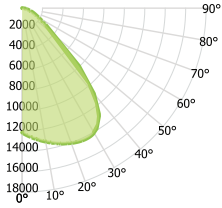
SERIES	PERFORMANCE	DIMMING	VOLTAGE	CCT	DISTRIBUTION	ACCESSORIES	MOUNTING	FINISH
OAL-303-LED	29000L/34000L/42000L	DIM10 0-10V Dimming	MVOLT - 120-277V	30K/40K/50K	T3D - Type III Standard Type IV & V Included in box T2D - Type II Sold Separately	PHC - Photocell MS - Motion Sensor SP - 10K Surge Protection	<div> <div>PM- Pole Mount OAL-303-ACC-PM</div> <div>Standard</div> <div>PM- Pole Mount Adj OAL-303-ACC-PM-ADJ</div> <div>SFM- Slipfitter Mount OAL-303-ACC-SFM</div> <div>TRM- Trunnion Mount OAL-303-ACC-TRM</div> <div>YM- Yoke Mount OAL-303-ACC-YM</div> </div> <div>Sold Separately</div>	BZ- Bronze BK- Black WH- White

OAL-303-LED-29000L-34000L-42000L-DIM10-MVOLT-30K-40K-50K-T2D-BZ(42000L)

TEST NO.: **EL01082420**

INPUT WATTS: **287.6** LUMENS: **42974** EFFICACY: **149** BEAM ANGLE: **64** SPACING CRITERIA: **1.52**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	12172	12172
10°	13252	12143
20°	14033	12150
30°	14066	12200
40°	10921	12299
50°	4459	12452
60°	1875	13361
70°	946	15626
80°	370	6551
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1735876	1735876
45.00°	1526951	2497858
55.00°	682856	3155450
65.00°	460652	4927772
75.00°	335753	7241942
85.00°	267239	2180686

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1158
10° - 20°	3369
20° - 30°	5364
30° - 40°	6984
40° - 50°	7616
50° - 60°	7230
60° - 70°	6530
70° - 80°	4086
80° - 90°	637

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	4527	11%
0° - 30°	9891	23%
0° - 40°	16875	39%
0° - 60°	31721	74%
0° - 80°	42337	99%
0° - 90°	42974	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	338.1 fc	8.0 ft	58.2 ft
8.0 ft	190.2 fc	10.6 ft	77.6 ft
10.0 ft	121.7 fc	13.3 ft	97.0 ft
12.0 ft	84.5 fc	15.9 ft	116.4 ft
14.0 ft	62.1 fc	18.6 ft	135.8 ft
16.0 ft	47.5 fc	21.2 ft	155.2 ft
18.0 ft	37.6 fc	23.9 ft	174.6 ft
20.0 ft	30.4 fc	26.5 ft	194.0 ft

INDOOR COEFFICIENTS OF UTILIZATION

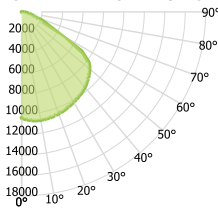
pf	20%																		0%	
pc	80%				70%				50%				30%				10%			0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82		
2	97	88	81	75	94	86	80	74	83	77	72	79	75	71	76	72	69	67		
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	62	57	55		
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9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25	23		
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21		

OAL-303-LED-29000L-34000L-42000L-DIM10-MVOLT-30K-40K-50K-T3D-BZ(42000L)

TEST NO.: **EL01082420**

INPUT WATTS: **286.3** LUMENS: **42711** EFFICACY: **149** BEAM ANGLE: **71** SPACING CRITERIA: **1.45**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	10361	10361
10°	10729	10518
20°	10587	10836
30°	10175	11291
40°	9609	12077
50°	8661	13273
60°	5308	15459
70°	1519	13607
80°	485	3786
90°	6	19

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	0	0
45.00°	0	0
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	985
10° - 20°	2847
20° - 30°	4468
30° - 40°	5836
40° - 50°	6988
50° - 60°	7928
60° - 70°	7959
70° - 80°	4771
80° - 90°	786

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	3832	9%
0° - 30°	8300	19%
0° - 40°	14136	33%
0° - 60°	29052	68%
0° - 80°	41783	98%
0° - 90°	42569	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	287.8 fc	10.0 ft	49.3 ft
8.0 ft	161.9 fc	13.3 ft	65.7 ft
10.0 ft	103.6 fc	16.6 ft	82.2 ft
12.0 ft	72.0 fc	19.9 ft	98.6 ft
14.0 ft	52.9 fc	23.2 ft	115.0 ft
16.0 ft	40.5 fc	26.6 ft	131.5 ft
18.0 ft	32.0 fc	29.9 ft	147.9 ft
20.0 ft	25.9 fc	33.2 ft	164.3 ft

INDOOR COEFFICIENTS OF UTILIZATION

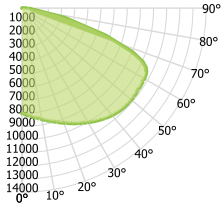
pf	20%																		0%		
pc	80%				70%				50%				30%				10%				0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80			
2	96	86	79	72	93	84	77	71	81	75	69	77	72	68	74	70	66	64			
3	86	74	65	58	83	72	64	57	69	62	56	66	60	55	64	58	54	51			
4	78	65	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45	42			
5	71	57	47	40	69	56	46	39	53	45	39	51	44	38	49	43	38	36			
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7	60	46	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26			
8	56	41	32	26	54	40	32	26	39	31	25	38	31	25	37	30	25	23			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			
10	49	35	26	21	47	34	26	20	33	26	20	32	25	20	31	25	20	18			

OAL-303-LED-29000L-34000L-42000L-DIM10-MVOLT-30K-40K-50K-T4D-BZ(42000L)

TEST NO.: **EL01082420**

INPUT WATTS: **286.4** LUMENS: **41649** EFFICACY: **145** BEAM ANGLE: **99** SPACING CRITERIA: **1.93**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	8008	8008
10°	8576	8028
20°	9281	8163
30°	10026	8437
40°	10633	9005
50°	10839	10162
60°	10722	11459
70°	7987	7733
80°	2133	1859
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1141996	1141996
45.00°	2177584	1914406
55.00°	2682543	2729287
65.00°	3481802	3538156
75.00°	2531126	2442744
85.00°	1200466	835900

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	769
10° - 20°	2303
20° - 30°	3837
30° - 40°	5356
40° - 50°	6879
50° - 60°	8258
60° - 70°	8315
70° - 80°	4964
80° - 90°	969

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	3072	7%
0° - 30°	6909	17%
0° - 40°	12265	29%
0° - 60°	27402	66%
0° - 80°	40681	98%
0° - 90°	41649	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	222.4 fc	21.4 ft	35.0 ft
8.0 ft	125.1 fc	28.5 ft	46.6 ft
10.0 ft	80.1 fc	35.6 ft	58.3 ft
12.0 ft	55.6 fc	42.7 ft	69.9 ft
14.0 ft	40.9 fc	49.9 ft	81.6 ft
16.0 ft	31.3 fc	57.0 ft	93.2 ft
18.0 ft	24.7 fc	64.1 ft	104.9 ft
20.0 ft	20.0 fc	71.2 ft	116.5 ft

INDOOR COEFFICIENTS OF UTILIZATION

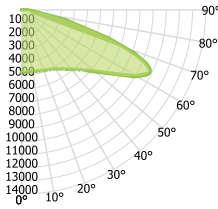
	20%										0%									
	80%										0%									
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	106	101	96	91	103	98	94	89	94	90	87	90	87	84	86	84	81	79	79	79
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62	62	62
3	85	72	63	55	82	71	62	55	68	60	54	65	58	53	62	57	52	49	49	49
4	76	63	53	45	74	61	52	45	59	50	44	56	49	43	54	48	43	40	40	40
5	70	55	45	37	67	54	44	37	51	43	37	49	42	36	47	41	36	33	33	33
6	64	49	39	31	62	48	38	31	46	37	31	44	36	31	42	36	30	28	28	28
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8	54	39	30	24	53	39	30	23	37	29	23	36	29	23	35	28	23	21	21	21
9	50	36	27	21	49	35	27	21	34	26	21	33	26	20	32	25	20	18	18	18
10	47	33	24	19	46	32	24	18	31	24	18	30	23	18	29	23	18	16	16	16

OAL-303-LED-29000L-34000L-42000L-DIM10-MVOLT-30K-40K-50K-T5D-BZ(42000L)

TEST NO.: **EL01082420**

INPUT WATTS: **286.4** LUMENS: **41296** EFFICACY: **144** BEAM ANGLE: **145** SPACING CRITERIA: **1.90**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	4739	4739
10°	4748	4861
20°	4881	5220
30°	5195	6020
40°	5881	7502
50°	7310	9555
60°	10099	11295
70°	8440	8126
80°	2187	2040
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	675797	675797
45.00°	1300157	1706813
55.00°	2136984	2647485
65.00°	3630954	3576625
75.00°	2556858	2565399
85.00°	1281135	993475

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	456
10° - 20°	1390
20° - 30°	2430
30° - 40°	3737
40° - 50°	5534
50° - 60°	8233
60° - 70°	10841
70° - 80°	7357
80° - 90°	1318

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	1846	4%
0° - 30°	4276	10%
0° - 40°	8013	19%
0° - 60°	21780	53%
0° - 80°	39978	97%
0° - 90°	41296	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	131.6 fc	37.6 ft	37.4 ft
8.0 ft	74.0 fc	50.2 ft	49.8 ft
10.0 ft	47.4 fc	62.7 ft	62.3 ft
12.0 ft	32.9 fc	75.3 ft	74.7 ft
14.0 ft	24.2 fc	87.8 ft	87.2 ft
16.0 ft	18.5 fc	100.4 ft	99.6 ft
18.0 ft	14.6 fc	112.9 ft	112.1 ft
20.0 ft	11.8 fc	125.5 ft	124.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

	20%										0%									
	80%										0%									
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	104	98	92	87	101	95	90	85	91	86	82	87	83	80	83	80	77	75	75	75
2	91	80	71	63	88	78	70	63	74	67	61	71	65	59	68	62	58	55	55	55
3	81	67	56	48	78	65	55	47	62	53	46	59	51	45	56	50	44	42	42	42
4	72	57	46	37	69	55	45	37	53	43	36	50	42	36	48	41	35	32	32	32
5	65	49	38	30	63	48	37	30	45	36	29	43	35	29	41	34	28	26	26	26
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8	50	34	24	18	48	34	24	18	32	24	17	31	23	17	29	22	17	15	15	15
9	47	31	22	15	45	30	21	15	29	21	15	28	20	15	27	20	15	13	13	13
10	43	28	19	13	42	28	19	13	27	19	13	26	18	13	25	18	13	11	11	11