

OAL-201-LED

LED Medium Area Light

up to 200 Wattage / up to 26000 Lumens

Catalog Number:

Project Name:

Note:

Type:



SPECIFICATIONS:

LUMENS	20000 / 26000 lumens
WATTAGE	150W / 200W
CCT	40K, 50K
CRI	70
LIGHT EFFICIENCY	146 lumens/watt
VOLTAGE	120-277 VAC / 347V / 480V
POWER FREQUENCY	50/60 Hz
FINISH	Bronze
APPLICABLE ENVIRONMENT	Dry/Damp/Wet location
WORKING TEMPERATURE	-40°C to 45°C



** DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

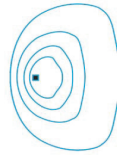
APPLICATIONS:

The Oracle LED Medium Area Light is designed with wide spread distribution for even illumination of parking lots, walkways, hardscapes, roadways, and public spaces. The optimal fixture where low mounting heights are required either on a building wall or pole mounted.

FEATURES:

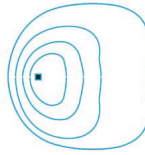
- The one piece die-cast aluminum housing with UV resistant polycarbonate optical lens, outstanding corrosion protection
- Lumen output 20000-26000lm with efficacy to 146lm/W
- Optical Distribution Options: Type III, Type IV, Type V
- Suitable for mounting heights ranging from 20'-35' in area lighting applications
- Mounting Options: square pole, round pole, wall mount, and slipfitter
- Optional photocell and motion sensor
- LED Driver options: MVOLT 120-277V / 347V / 480V
- Dimmable 0-10V
- Fixtures are IP66 rated and suitable for use in ambients from -40°C to 45°C (-40°F to 113°F)
- UL Wet location
- DLC premium qualified**

DISTRIBUTION:



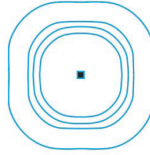
Type III

Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire.



Type IV

Type 4 is suitable for applications where light is primarily required forward, and minimal backlight is needed.



Type V

Type 5 optics produce a symmetrical square pattern that distributes light equally on all sides of the luminaire.

Ordering Guide > Example: OAL-201-LED-26000L-DIM10-MVOLT-40K-T3D-BZ-PHC-OAL-201-ACC-PM

SERIES	PERFORMANCE	DIMMING	VOLTAGE	CCT	DISTRIBUTION	FINISH	ACCESSORIES	MOUNTING
OAL-201-LED	20000L - 20000 lumens 26000L - 27000 lumens	DIM10 - 0-10V Dimming	MVOLT - 120-277V 347V - 347V 480V - 480V	40K - 4000K 50K - 5000K	T3D - Type III T4D - Type IV T5D - Type V	BZ - Bronze BK - Black WH - White SI - Silver	PHC - Photocell MS - Motion Sensor	OAL-101/201/301-ACC-PM - Pole mount OAL-101/201/301-ACC-WM - Wall mount OAL-101/201/301-ACC-SFM - Slipfitter mount

* For more lumen package option, consult factory

* Support 0-10V dimming, consult factory

* Other colors, consult factory

* For more mounting options, please see additional mounting accessories page



Submittal form is available @ www.oraclelighting.com
Tel: 323-888-1973 • Fax: 323-888-1977

Specifications and Dimensions
subject to change without notice.

Issued-B1118-Rev. 1

OAL-201-LED

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Type:

MOUNTING:



OAL-101/201/301-ACC-PM
Pole Mount

Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.



OAL-101/201/301-ACC-WM
Wall Mount

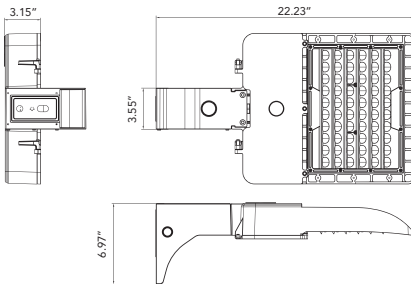
Wall Mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-box mounting.



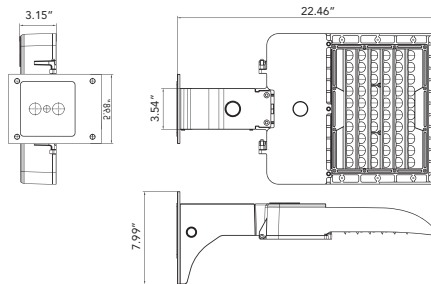
OAL-101/201/301-ACC-SFM
Slipfitter Mount

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

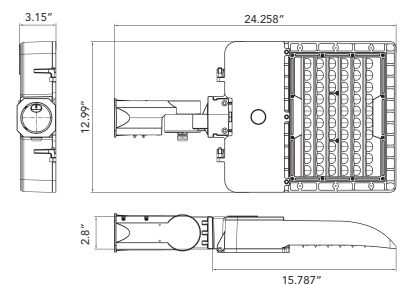
DIMENSION:



Weight: 15.783 lb (150W)
16.001 lb (200W)

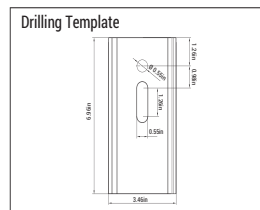
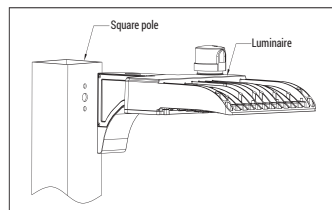
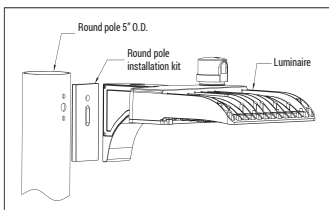


Weight: 18.341 lb (150W)
18.559 lb (200W)



Weight: 16.308 lb (150W)
16.526 lb (200W)

MOUNTING DIMENSION:



INSTALLATION KIT:



Round Pole Installation Kit

Standard versatile mounting arm for area light application, with K/O to install photocell or sensor. Furnished with two 5/16" hex head stainless-steel bolts and two 1/2" hex head stainless-steel screw. Suitable for 4" and 5" round poles.

ACCESSORIES:



PHC - Photocell



MS - Motion Sensor

OAL-201-LED

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EPA OF AREA LIGHT:

Item							
		@ 90°	@ 120°	@ 180°	@ 90°	@ 120°	@ 90°
150W 200W	0.4418	0.7145	0.8813	0.8836	1.0548	1.0135	1.0548

PERFORMANCE DATA:

		4000K (70CRI)					5000K (70CRI)				
WATTS	TYPE	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
150W	Type 3	19500lm	130 lm/w	3	1	2	19700lm	131 lm/w	3	1	2
	Type 4	18800lm	125 lm/w	3	2	3	18800lm	125 lm/w	3	2	3
	Type 5	20000lm	133 lm/w	4	2	3	20000lm	133 lm/w	4	2	3

		4000K (70CRI)					5000K (70CRI)				
WATTS	TYPE	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
200W	Type 3	26000lm	130 lm/w	3	1	2	26200lm	131 lm/w	3	1	2
	Type 4	25000lm	125 lm/w	3	2	3	25000lm	125 lm/w	3	2	3
	Type 5	26600lm	123 lm/w	4	2	2	26600lm	133 lm/w	4	2	2

ELECTRICAL DATA:

NUMBER OF DRIVERS	DRIVER CURRENT (Amps)	Nominal Power (W)	Input Voltage (V)	Current (Amps)
1	3900	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	5100	200	120	1.25
		200	208	0.72
		200	240	0.63
		200	277	0.54
		200	347	0.43
		200	480	0.31

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POLE BRACKET (For mounting one fixture on an existing pole)



PART no: OAL-ACC-4-SQPM
4" Square Pole Mount with 2-3/8" O.D. Tenon

For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



PART no: OAL-ACC-5-SQPM
5" Square Pole Mount with 2-3/8" O.D. Tenon

For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



PART no: OAL-ACC-4-RQPM
4" Round Pole Mount with 2-3/8" O.D. Tenon

For use with square, non-tapered steel and aluminum poles. Furnished with four 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



PART no: OAL-ACC-5-RQPM
5" Round Pole Mount with 2-3/8" O.D. Tenon

For use with square, non-tapered steel and aluminum poles. Furnished with four 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



PART no: OAL-ACC-TMA
2-3/8" O.D. Tenon Mount Adapter for Yoke Fixtures

The 2-3/8" OD Tenon Mount Adapter for Yoke Fixture is designed to mount light fixtures that are equipped with a yoke mount onto a 2-3/8" OD tenon.

ROUND EXTERNAL MOUNT HORIZONTAL TENON (To mount 2-3/4 fixtures on a existing pole)



PART no: OAL-ACC-2-90-HOR-TA
Double 90° Horizontal Tenon Adapter

The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



PART no: OAL-ACC-2-180-HOR-TA
Double 180° Horizontal Tenon Adapter

The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



PART no: OAL-ACC-3-90-HOR-TA
Triple 90° Horizontal Tenon Adapter

The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



PART no: OAL-ACC-3-120-HOR-TA
Triple 120° Horizontal Tenon Adapter

The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



PART no: OAL-ACC-4-90-HOR-TA
Quad 90° Horizontal Tenon Adapter

The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

WALL BRACKET



PART no: OAL-ACC-90-WMB
90° Wall Mount Bracket with 2-3/8" O.D. Tenon

The 90° wall mount bracket with 2-3/8" tenon attaches a floodlight to almost any surface: wall, roof, or wood pole. Provides wiring access and a built-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.

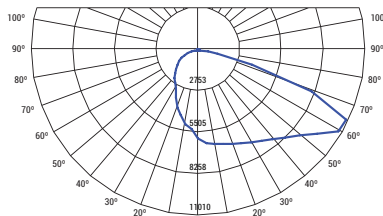
MID-POLE TENON BRACKET



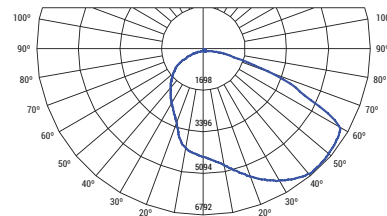
PART no: OAL-ACC-HOR-TMB
2-3/8" OD Horizontal Tenon Mid-Pole Bracket

2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with an adjustable slipfitter onto a 2-3/8" OD horizontal tenon.

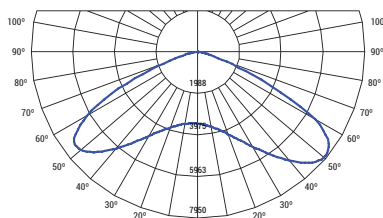
Type III



Type IV



Type V



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OAL-201-LED-20000L-MVOLT-40K-T3D-BZ

INPUT WATTS: **150.491**

LUMENS: **19497**

CRI: **N/A**

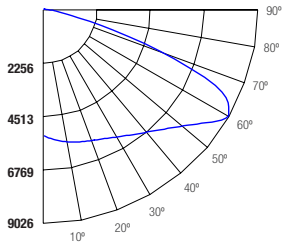
EFFICACY: **129**

CCT: **4000K**

TEST NO.: **EL092619168**

SPACING CRITERIA: **1.64**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1993	10.2	10.2
0-30	4310.79	22.1	22.1
0-40	7401.36	38	38
0-60	15103.19	77.5	77.5
0-80	19324.79	99.1	99.1
0-90	19488.41	100	100

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	183508	169819	127636
55	203970	244247	125053
65	137124	328274	104405
75	76068	128476	43332
85	50845	29047	6572

Lumens Per Zone

Zone	Lumens
0-10	512.33
10-20	1480.67
20-30	2317.79
30-40	3090.57
40-50	3723.58
50-60	3978.25
60-70	3149.6
70-80	1072
80-90	163.61

Candela Tabulation

Q	
0	5387.794
5	5660.57
15	6229.42
25	6850.52
35	7524.29
45	7788.9
55	7022.51
65	3478.55
75	1181.78
85	266
90	0.15

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
	1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	
	2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69	
	3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57	
	4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47	
	5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40	
	6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34	
	7	63	48	39	33	61	48	39	33	46	38	32	45	37	32	43	37	32	30	
	8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28	26	
	9	54	40	32	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23	
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23	21		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

OAL-201-LED-20000L-MVOLT-40K-T4D-BZ

INPUT WATTS: **150.9**

LUMENS: **17923**

CRI: **N/A**

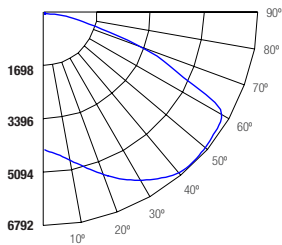
EFFICACY: **119**

CCT: **4000K**

TEST NO.: **EL0118194**

SPACING CRITERIA: **1.58**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1673.41	9.3	9.3
0-30	3646.06	20.3	20.3
0-40	6221.25	34.7	34.7
0-60	12508.65	69.8	69.8
0-80	17380.37	97	97
0-90	17735.66	99	99

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	30757	39699	48275
55	31254	59222	58327
65	27367	103988	42081
75	15088	45400	19254
85	8900	31753	37680

Lumens Per Zone

Zone	Lumens
0-10	424.17
10-20	1249.24
20-30	1972.66
30-40	2575.19
40-50	3004.86
50-60	3282.53
60-70	3202.73
70-80	1668.99
80-90	355.29

Candela Tabulation

Q	
0	4441.441
5	4608.95
15	5217.13
25	5959.97
35	6546.15
45	6787.29
55	6693.81
65	4917.77
75	1902.41
85	518.49
90	8.76

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	101	101	101	99		
	1	107	102	97	93	104	100	95	91	95	91	88	91	88	85	87	85	83	80	80		
	2	96	87	80	73	93	85	78	72	81	75	70	78	73	69	75	70	67	64	64		
	3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	64	59	55	52	52		
	4	79	66	56	49	76	64	55	48	61	54	47	59	52	47	56	51	46	43	43		
	5	72	58	48	41	70	57	47	41	54	46	40	52	45	39	50	44	39	37	37		
	6	66	52	42	35	64	51	41	35	49	40	34	47	39	34	45	39	34	31	31		
	7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27	27		
	8	56	42	33	27	55	41	33	27	40	32	26	38	31	26	37	31	26	24	24		
	9	53	38	30	24	51	38	29	24	36	29	24	35	28	23	34	28	23	21	21		
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	20	19			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

OAL-201-LED-20000L-MVOLT-40K-T5D-BZ

INPUT WATTS: **150.9**

LUMENS: **21385**

CRI: **N/A**

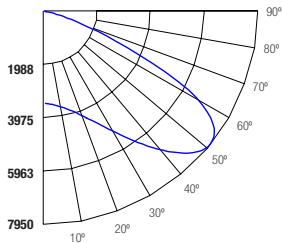
EFFICACY: **141**

CCT: **4000K**

TEST NO.: **EL0118194**

SPACING CRITERIA: **1.40**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1415.73	6.6	6.6
0-30	3467.04	16.2	16.2
0-40	6934.23	32.4	32.4
0-60	17671.47	82.6	82.6
0-80	21314.01	99.7	99.7
0-90	21380.02	100	100

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	56308	66882	56423
55	63980	83943	62084
65	30435	57782	26033
75	9511	16207	6954
85	3769	2983	1310

Lumens Per Zone

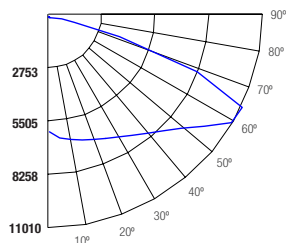
Zone	Lumens
0-10	337.75
10-20	1077.97
20-30	2051.31
30-40	3467.19
40-50	5095.62
50-60	5641.62
60-70	3017.95
70-80	624.58
80-90	66.02

Candela Tabulation

Q	
0	3472.473
5	3541.49
15	3844.49
25	4511.68
35	5592.59
45	6373.22
55	5874.05
65	2058.88
75	394.01
85	52.58
90	0

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106		106	102	102	102	100		
	1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85			
	2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69			
	3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57			
	4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47			
	5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39			
	6	67	52	43	36	65	51	42	36	50	41	35	48	41	35	46	40	35	33			
	7	61	47	39	31	59	47	37	31	44	36	30	43	36	30	41	35	30	28			
	8	56	42	33	26	55	41	32	26	40	32	26	38	31	26	37	31	26	24			
	9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	21			
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18				

OAL-201-LED-26000L-MVOLT-40K-T4D-BZTEST NO.: **EL021879**INPUT WATTS: **207**LUMENS: **23401**CRI: **N/A**EFFICACY: **133**CCT: **4000K**SPACING CRITERIA: **1.68****Candle Power Distribution (Candelas)****Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	2175.6	9.3	9.3
0-30	4721.46	20.2	20.2
0-40	8150.73	34.8	34.8
0-60	16977.73	72.6	72.6
0-80	22685.13	97	96.9
0-90	23109.36	98.8	98.8

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	77321	70340	52227
55	88371	100519	57089
65	65893	154153	47723
75	33969	67942	21935
85	44328	44933	15810

Lumens Per Zone

Zone	Lumens
0-10	560.47
10-20	1615.13
20-30	2545.86
30-40	3429.27
40-50	4177.68
50-60	4649.32
60-70	4053.47
70-80	1653.92
80-90	424.24

Candela Tabulation

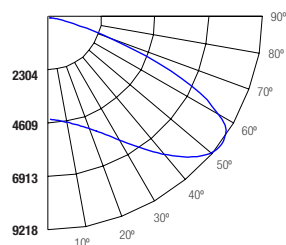
0	0
0	5912.872
5	6356.15
15	7056.7
25	7878.07
35	8731.42
45	9151.52
55	8484.19
65	4661.18
75	1471.61
85	646.67
90	30.73

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%	
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	101	99	99		
	1	108	103	98	94	105	100	96	92	96	92	89	91	89	86	88	85	83	83	81	81		
	2	97	88	81	74	94	86	79	73	82	76	72	79	74	70	75	71	68	68	66	66		
	3	87	76	67	60	85	74	66	60	71	64	58	68	62	57	65	60	56	56	54	54		
	4	79	66	57	50	77	65	56	49	62	55	48	60	53	48	57	52	47	44	44	44		
	5	72	59	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	37	37	37		
	6	66	52	43	36	64	51	42	36	49	41	35	47	40	35	45	39	34	32	32	32		
	7	61	47	38	31	59	46	37	31	44	36	30	43	35	30	41	35	30	28	28	28		
	8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	37	31	26	24	24	24		
	9	53	39	30	24	51	38	30	24	37	29	24	35	29	24	34	28	23	21	21	21		
10	49	35	27	22	48	35	27	22	34	26	21	33	26	21	32	26	21	19	19	19			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

OAL-201-LED-26000L-MVOLT-40K-T5D-BZTEST NO.: **EL0118194**INPUT WATTS: **200.4**LUMENS: **27086**CRI: **N/A**EFFICACY: **135**CCT: **4000K**SPACING CRITERIA: **2.36****Candle Power Distribution (Candelas)****Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	1831.88	6.8	6.8
0-30	4412.53	16.3	16.3
0-40	8644.05	31.9	31.9
0-60	21641.42	79.9	79.9
0-80	26990.35	99.6	99.6
0-90	27079.83	100	100

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	88587	98676	86209
55	103680	128083	98589
65	60676	112019	59910
75	17053	32793	14011
85	5620	4966	2481

Lumens Per Zone

Zone	Lumens
0-10	441.41
10-20	1390.48
20-30	2580.65
30-40	4231.53
40-50	6085.46
50-60	6911.91
60-70	4396.86
70-80	952.07
80-90	89.48

Candela Tabulation

0	0
0	4553.483
5	4616.33
15	4914.15
25	5592.65
35	6728.24
45	7520.04
55	7139.24
65	3078.44
75	529.86
85	58.8
90	0.01

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	109	104	101	96	101	98	95	98	94	92	94	91	89	90	88	86	85	84			
	2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68			
	3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56			
	4	80	67	58	51	78	66	57	50	63	55	49	61	54	49	59	53	48	46			
	5	73	59	49	42	70	58	48	42	55	47	41	53	46	41	51	45	40	38			
	6	66	52	42	35	64	51	42	35	49	41	35	47	40	34	46	39	34	32			
	7	61	46	37	30	59	45	36	30	44	36	30	42	35	29	41	34	29	27			
	8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23			
	9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20			
10	48	34	26	20	47	34	25	20	32	25	20	31	25	20	31	24	20	18				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance