

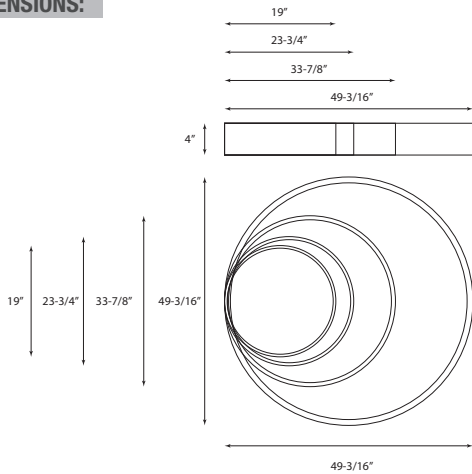
OPR-LED

UP TO
11000
LUMENS

OPR LED PENDANT SERIES



DIMENSIONS:



Available Colors



Catalog Number:

Project Name:

Type:

Note:



1ft	2ft	3ft	4ft
2000 LUMENS	3000 LUMENS	8000 LUMENS	11000 LUMENS
38 WATT	46 WATT	111 WATT	175 WATT

APPLICATION- OPR-LED pendants offer direct ambient illumination. Its clean, classic look provides light over any environment including schools, boardrooms, office areas, hotels, lobbies, restaurants, etc. OPR-LED is suitable for any design application with its variety in sizes.

CONSTRUCTION- Rigid aluminum design ensures longevity and endurance. A high quality, high transmission, glare free lens offers smooth illumination.

PERFORMANCE - The honeycomb light engines found in the OPR-LED are rated at 80+ CRI and are available in multiple CCTs: 3000K, 3500K and 4000K. Rated and tested to LM-79 and LM-80 standards. The LEDs are also binned to a 3-step MacAdam ellipse to achieve consistent color from fixture to fixture.

ELECTRICAL - Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING - The OPR-LED comes standard with 0-10V dimming on either 120, in and 277V. 347V please consult factory. Dimmable down to 1% of initial lumens. Also available in Lutron dimming options. Consult factory for dimmer compatibility.

MOUNTING - Comes standard in ceiling mount or adjustable cable suspension system providing fast installation into a variety of interior heights, including sloped ceilings. Consult factory for additional mounting options.

QUALITY CONTROL - Every fixture is rigorously tested by our QC Department before shipping.

WARRANTY - Limited 5 Year Warranty

LISTING
c-UL-us - Listed for Feed Through Wiring.

EXAMPLE: OPR-LED-2-3000L-DIM10-MVOLT-40K-WH-CM

SERIES	SIZE	LUMENS - DIMMING	CCT	EMERGENCY	COLOR	MOUNTING OPTION
OPR-LED	<input type="checkbox"/> 1' (1.5')	<input type="checkbox"/> 2000L-DIM10-MVOLT <input type="checkbox"/> 2000L-LUTH-MVOLT <input type="checkbox"/> 2000L-DIMTR-120	<input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K	<input type="checkbox"/> EMG-LED Remote Mounted for Surface Mount	<input type="checkbox"/> WH (Matt White) <input type="checkbox"/> BK (Black) <input type="checkbox"/> SI (Silver) Custom color available, please consult factory. Must provide RAL#	<input type="checkbox"/> CM-Ceiling Mount <input type="checkbox"/> SM-10' Suspended Mount (Consult factory for other sizes)
	<input type="checkbox"/> 2' (2')	<input type="checkbox"/> 3000L-DIM10-MVOLT <input type="checkbox"/> 3000L-LUTH-MVOLT <input type="checkbox"/> 3000L-DIMTR-120	<input type="checkbox"/> 5000L-DIM10-MVOLT <input type="checkbox"/> 5000L-LUTH-MVOLT <input type="checkbox"/> 5000L-DIMTR-120			
	<input type="checkbox"/> 3' (2.8')	<input type="checkbox"/> 5000L-DIM10-MVOLT <input type="checkbox"/> 5000L-LUTH-MVOLT <input type="checkbox"/> 5000L-DIMTR-120	<input type="checkbox"/> 8000L-DIM10-MVOLT <input type="checkbox"/> 8000L-LUTH-MVOLT <input type="checkbox"/> 8000L-DIMTR-120			
	<input type="checkbox"/> 4' (4')	<input type="checkbox"/> 11000L-DIM10-MVOLT <input type="checkbox"/> 11000L-LUTH-MVOLT <input type="checkbox"/> 11000L-DIMTR-120				

PHOTOMETRY DATA

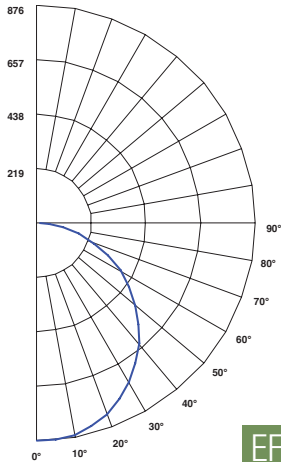
OPR-LED-1-2000L-DIM10-MVOLT-40K-WH

WATTAGE: 31.2

LUMENS: 2334

TOTAL LUMINAIRE EFFICACY: 75

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	666.24	28.60	28.50
0-40°	1079.87	46.30	46.30
0-60°	1873.13	80.40	80.20
0-90°	2334.48	100.10	100.00
0-180°	2334.48	100.10	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
0°			
45°	654	684	699
55°	613	653	674
65°	552	609	639
75°	436	526	576
85°	198	375	468

Candela Tabulation

	0	45	90
0	874.308	874.308	874.308
5	871.110	875.100	876.270
15	830.240	841.570	847.070
25	756.450	773.540	782.400
35	657.480	678.950	690.060
45	540.680	565.040	577.900
55	410.990	437.700	451.830
65	272.610	300.840	315.720
75	131.830	159.130	174.180
85	20.120	38.190	47.640
90	1.060	6.030	12.550

Spacing Criteria

0-180	: 1.22
90-270	: 1.26
Diagonal	: 1.34

EFFICACY: 75 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	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	107	107	107	102	102	102	102	102	102	100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	86	84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71	71	73	71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60	60	62	60			
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51	53	51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44	44	46	44			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	41	39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	36	34			
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31	31	33	31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	29	28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	27	25			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

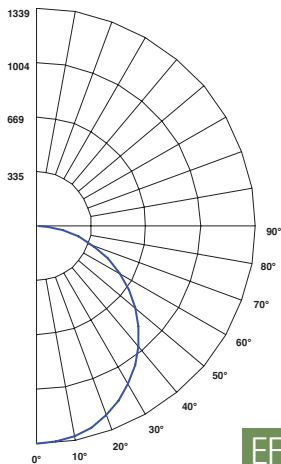
OPR-LED-2-3000L-DIM10-MVOLT-40K-WH

WATTAGE: 50.1

LUMENS: 3637

TOTAL LUMINAIRE EFFICACY: 73

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1024.69	28.20	28.20
0-40°	1665.31	45.90	45.80
0-60°	2910.37	80.10	80.00
0-90°	3637.28	100.20	100.00
0-180°	3637.28	100.20	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
0°			
45°	1062	1042	1019
55°	1024	1000	965
65°	972	939	883
75°	883	835	732
85°	691	593	379

Candela Tabulation

	0	45	90
0	1338.653	1338.653	1338.653
5	1334.080	1329.570	1327.120
15	1284.940	1275.520	1268.150
25	1185.460	1172.340	1160.730
35	1046.610	1031.180	1015.600
45	877.290	861.030	841.900
55	686.220	670.230	646.730
65	480.050	463.930	436.060
75	267.030	252.570	221.320
85	70.410	60.370	38.580
90	13.520	7.850	1.660

Spacing Criteria

0-180	: 1.26
90-270	: 1.22
Diagonal	: 1.36

EFFICACY: 73 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	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	107	107	107	102	102	102	102	102	102	100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	86	84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71	71	73	71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60	60	62	60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	53	51			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	46	44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	41	39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	36	34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	32	30			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27	27	29	27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	27	25			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

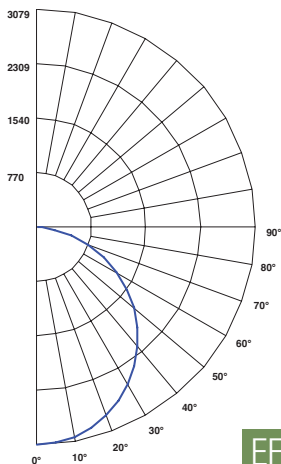
OPR-LED-3-8000L-DIM10-MVOLT-40K-WH

WATTAGE: 119.5

LUMENS: 8694

TOTAL LUMINAIRE EFFICACY: 73

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	2384.22	27.50	27.40
0-40°	3901.76	44.90	44.90
0-60°	6891.74	79.40	79.30
0-90°	8693.56	100.10	100.00
0-180°	8693.56	100.10	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
0°			
45°	2426	2366	2364
55°	2306	2221	2223
65°	2088	1968	1978
75°	1647	1453	1476
85°	613	414	431

Candela Tabulation

	0	45	90
0	3079.291	3079.291	3079.291
5	3063.680	3054.940	3054.260
15	2941.650	2919.930	2918.020
25	2717.110	2682.140	2680.090
35	2399.560	2356.800	2354.480
45	2004.920	1954.650	1953.700
55	1545.840	1488.600	1490.240
65	1031.270	972.110	976.750
75	498.160	439.410	446.380
85	62.480	42.180	43.860
90	4.340	4.690	4.670

Spacing Criteria

0-180	: 1.24
90-270	: 1.24
Diagonal	: 1.38

EFFICACY: 73 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	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	107	107	107	102	102	102	102	102	102	100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	86	84			
2	99	91	84	78	96	88	83	77	85	80	75	82	78	74	79	75	72	70	70	72	70			
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59	59	61	59			
4	83	71																						

PHOTOMETRY DATA

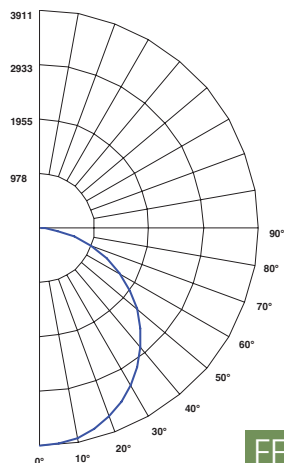
OPR-LED-4-11000L-DIM10-MVOLT-40K-WH

WATTAGE: 152.8

LUMENS: 11041

TOTAL LUMINAIRE EFFICACY: 72

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	3027.96	N.A.	27.40
0-40°	4955.24	N.A.	44.90
0-60°	8752.51	N.A.	79.30
0-90°	11040.82	N.A.	100.00
0-180°	11040.82	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	3082	3004	3003
55°	2929	2821	2824
65°	2652	2500	2512
75°	2092	1845	1874
85°	779	526	547

Candela Tabulation

	0	45	90
0	3910.700	3910.700	3910.700
5	3890.874	3879.774	3878.910
15	3735.895	3708.311	3705.885
25	3450.730	3406.318	3403.714
35	3047.441	2993.136	2990.190
45	2546.248	2482.405	2481.199
55	1963.217	1890.522	1892.605
65	1309.713	1234.580	1240.472
75	632.663	558.051	566.903
85	79.350	53.569	55.702
90	5.512	5.956	5.931

Spacing Criteria

0-180	: 1.24
90-270	: 1.24
Diagonal	: 1.38

EFFICACY: 72 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	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	100	100	100	100		
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2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70	70	70	70	70		
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10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24	24	24	24	24		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

