

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : OWL240L840UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32616.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 4/7/14
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] OWL240L840UNV
[LUMINAIRE] 2' OW WRAP
[MORE] 2-LP3.6 4000K BOARDS 54W DRIVER 3.16K RESISTOR 66% FROSTED OPAL LENS
[LAMP] LED. LUMINAIRE OUTPUT = 4042 LMS
[TEST DATE] 4/4/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4042
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	46.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.65 ft
Luminous Height	0.12 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7932	7879	8200
55	7041	7161	7732
65	6015	6427	7315
75	4802	5778	7227
85	2805	5372	8012

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84
2.5	1173.24	1175.12	1177.37	1178.61	1176.33	1178.61	1177.37	1175.12	1173.24	1175.12
5.0	1168.84	1170.48	1174.31	1177.50	1173.68	1177.50	1174.31	1170.48	1168.84	1170.48
7.5	1161.91	1163.39	1167.97	1172.01	1170.14	1172.01	1167.97	1163.39	1161.91	1163.39
10.0	1152.14	1154.55	1160.08	1164.75	1162.98	1164.75	1160.08	1154.55	1152.14	1154.55
12.5	1139.63	1143.73	1150.08	1153.67	1149.53	1153.67	1150.08	1143.73	1139.63	1143.73
15.0	1124.17	1129.88	1135.69	1139.22	1138.20	1139.22	1135.69	1129.88	1124.17	1129.88
17.5	1105.69	1111.19	1117.87	1125.92	1127.06	1125.92	1117.87	1111.19	1105.69	1111.19
20.0	1084.28	1089.45	1101.84	1112.64	1111.19	1112.64	1101.84	1089.45	1084.28	1089.45
22.5	1058.44	1068.42	1082.64	1093.70	1093.49	1093.70	1082.64	1068.42	1058.44	1068.42
25.0	1029.94	1041.86	1058.77	1071.18	1071.73	1071.18	1058.77	1041.86	1029.94	1041.86
27.5	999.21	1012.44	1032.21	1047.17	1047.97	1047.17	1032.21	1012.44	999.21	1012.44
30.0	966.24	980.32	1003.60	1020.44	1020.64	1020.44	1003.60	980.32	966.24	980.32
32.5	931.45	946.27	973.17	991.47	992.30	991.47	973.17	946.27	931.45	946.27
35.0	892.50	909.27	938.29	959.90	963.60	959.90	938.29	909.27	892.50	909.27
37.5	850.04	870.43	902.52	927.48	932.82	927.48	902.52	870.43	850.04	870.43
40.0	806.54	830.29	867.17	894.79	900.99	894.79	867.17	830.29	806.54	830.29
42.5	763.02	789.21	829.67	859.91	866.87	859.91	829.67	789.21	763.02	789.21
45.0	718.73	746.71	790.00	822.05	830.33	822.05	790.00	746.71	718.73	746.71
47.5	673.29	703.14	748.80	783.87	793.40	783.87	748.80	703.14	673.29	703.14
50.0	626.02	658.48	707.15	745.59	756.41	745.59	707.15	658.48	626.02	658.48
52.5	577.61	612.23	663.90	705.26	717.55	705.26	663.90	612.23	577.61	612.23
55.0	530.01	566.39	619.21	662.75	677.50	662.75	619.21	566.39	530.01	566.39
57.5	483.67	521.31	576.48	621.51	636.26	621.51	576.48	521.31	483.67	521.31
60.0	437.78	476.92	533.79	582.23	597.62	582.23	533.79	476.92	437.78	476.92
62.5	392.02	432.46	492.14	542.60	559.26	542.60	492.14	432.46	392.02	432.46
65.0	346.85	388.73	450.12	502.93	521.67	502.93	450.12	388.73	346.85	388.73
67.5	303.30	345.95	408.05	463.08	483.65	463.08	408.05	345.95	303.30	345.95
70.0	261.83	305.07	368.76	426.00	447.24	426.00	368.76	305.07	261.83	305.07
72.5	222.15	267.06	332.62	391.57	413.16	391.57	332.62	267.06	222.15	267.06
75.0	183.90	230.35	297.50	358.84	381.90	358.84	297.50	230.35	183.90	230.35
77.5	147.22	194.76	263.12	326.40	350.27	326.40	263.12	194.76	147.22	194.76
80.0	112.55	160.64	229.82	295.13	320.06	295.13	229.82	160.64	112.55	160.64
82.5	80.21	128.59	197.63	264.42	290.35	264.42	197.63	128.59	80.21	128.59
85.0	49.82	99.13	168.50	236.44	262.54	236.44	168.50	99.13	49.82	99.13
87.5	21.54	71.67	145.85	220.08	247.65	220.08	145.85	71.67	21.54	71.67
90.0	1.67	52.77	129.17	205.89	235.16	205.89	129.17	52.77	1.67	52.77
92.5	1.34	47.03	120.14	195.83	223.35	195.83	120.14	47.03	1.34	47.03
95.0	1.48	45.47	117.27	190.78	216.35	190.78	117.27	45.47	1.48	45.47
97.5	1.27	44.05	116.21	188.56	212.48	188.56	116.21	44.05	1.27	44.05
100.0	1.37	42.17	114.43	185.71	208.94	185.71	114.43	42.17	1.37	42.17
102.5	1.40	40.77	112.79	181.48	203.47	181.48	112.79	40.77	1.40	40.77
105.0	1.64	39.53	110.53	176.97	198.06	176.97	110.53	39.53	1.64	39.53
107.5	1.79	38.04	107.55	170.52	190.24	170.52	107.55	38.04	1.79	38.04
110.0	1.91	36.54	104.27	163.38	181.51	163.38	104.27	36.54	1.91	36.54
112.5	1.82	34.90	99.82	154.86	171.61	154.86	99.82	34.90	1.82	34.90
115.0	1.89	33.01	94.66	144.78	160.14	144.78	94.66	33.01	1.89	33.01
117.5	2.02	31.02	89.25	135.46	149.38	135.46	89.25	31.02	2.02	31.02
120.0	2.09	28.54	83.84	126.17	138.74	126.17	83.84	28.54	2.09	28.54
122.5	2.19	26.11	78.29	116.95	128.43	116.95	78.29	26.11	2.19	26.11
125.0	2.25	23.79	72.64	108.36	118.26	108.36	72.64	23.79	2.25	23.79
127.5	2.31	21.51	66.69	99.98	109.34	99.98	66.69	21.51	2.31	21.51
130.0	2.33	19.39	60.58	91.95	100.80	91.95	60.58	19.39	2.33	19.39
132.5	2.46	17.14	54.39	84.39	92.36	84.39	54.39	17.14	2.46	17.14

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135.0	2.58	14.56	48.40	77.22	84.87	77.22	48.40	14.56	2.58	14.56
137.5	2.67	12.32	43.08	70.54	77.43	70.54	43.08	12.32	2.67	12.32
140.0	2.77	10.16	38.29	63.79	70.27	63.79	38.29	10.16	2.77	10.16
142.5	2.84	8.36	33.45	57.40	63.32	57.40	33.45	8.36	2.84	8.36
145.0	3.07	6.90	29.18	51.29	56.79	51.29	29.18	6.90	3.07	6.90
147.5	3.54	5.76	25.25	45.42	50.39	45.42	25.25	5.76	3.54	5.76
150.0	3.63	5.41	21.36	39.61	44.26	39.61	21.36	5.41	3.63	5.41
152.5	3.95	5.12	17.27	33.67	38.45	33.67	17.27	5.12	3.95	5.12
155.0	4.04	5.12	12.88	27.62	32.47	27.62	12.88	5.12	4.04	5.12
157.5	4.27	5.06	9.96	21.71	26.59	21.71	9.96	5.06	4.27	5.06
160.0	4.42	4.87	7.22	15.84	20.45	15.84	7.22	4.87	4.42	4.87
162.5	4.46	4.70	5.66	11.56	16.20	11.56	5.66	4.70	4.46	4.70
165.0	4.50	4.53	5.11	7.98	12.39	7.98	5.11	4.53	4.50	4.53
167.5	4.57	4.49	4.72	5.18	8.77	5.18	4.72	4.49	4.57	4.49
170.0	4.63	4.54	4.30	4.42	6.52	4.42	4.30	4.54	4.63	4.54
172.5	4.87	4.59	4.14	4.01	5.48	4.01	4.14	4.59	4.87	4.59
175.0	4.88	4.64	4.02	3.59	4.84	3.59	4.02	4.64	4.88	4.64
177.5	4.83	4.62	4.02	3.36	4.08	3.36	4.02	4.62	4.83	4.62
180.0	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84	1177.84
2.5	1177.37	1178.61	1176.33	1178.61	1177.37	1175.12	1173.24
5.0	1174.31	1177.50	1173.68	1177.50	1174.31	1170.48	1168.84
7.5	1167.97	1172.01	1170.14	1172.01	1167.97	1163.39	1161.91
10.0	1160.08	1164.75	1162.98	1164.75	1160.08	1154.55	1152.14
12.5	1150.08	1153.67	1149.53	1153.67	1150.08	1143.73	1139.63
15.0	1135.69	1139.22	1138.20	1139.22	1135.69	1129.88	1124.17
17.5	1117.87	1125.92	1127.06	1125.92	1117.87	1111.19	1105.69
20.0	1101.84	1112.64	1111.19	1112.64	1101.84	1089.45	1084.28
22.5	1082.64	1093.70	1093.49	1093.70	1082.64	1068.42	1058.44
25.0	1058.77	1071.18	1071.73	1071.18	1058.77	1041.86	1029.94
27.5	1032.21	1047.17	1047.97	1047.17	1032.21	1012.44	999.21
30.0	1003.60	1020.44	1020.64	1020.44	1003.60	980.32	966.24
32.5	973.17	991.47	992.30	991.47	973.17	946.27	931.45
35.0	938.29	959.90	963.60	959.90	938.29	909.27	892.50
37.5	902.52	927.48	932.82	927.48	902.52	870.43	850.04
40.0	867.17	894.79	900.99	894.79	867.17	830.29	806.54
42.5	829.67	859.91	866.87	859.91	829.67	789.21	763.02
45.0	790.00	822.05	830.33	822.05	790.00	746.71	718.73
47.5	748.80	783.87	793.40	783.87	748.80	703.14	673.29
50.0	707.15	745.59	756.41	745.59	707.15	658.48	626.02
52.5	663.90	705.26	717.55	705.26	663.90	612.23	577.61
55.0	619.21	662.75	677.50	662.75	619.21	566.39	530.01
57.5	576.48	621.51	636.26	621.51	576.48	521.31	483.67
60.0	533.79	582.23	597.62	582.23	533.79	476.92	437.78
62.5	492.14	542.60	559.26	542.60	492.14	432.46	392.02
65.0	450.12	502.93	521.67	502.93	450.12	388.73	346.85
67.5	408.05	463.08	483.65	463.08	408.05	345.95	303.30
70.0	368.76	426.00	447.24	426.00	368.76	305.07	261.83
72.5	332.62	391.57	413.16	391.57	332.62	267.06	222.15
75.0	297.50	358.84	381.90	358.84	297.50	230.35	183.90
77.5	263.12	326.40	350.27	326.40	263.12	194.76	147.22
80.0	229.82	295.13	320.06	295.13	229.82	160.64	112.55

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82.5	197.63	264.42	290.35	264.42	197.63	128.59	80.21
85.0	168.50	236.44	262.54	236.44	168.50	99.13	49.82
87.5	145.85	220.08	247.65	220.08	145.85	71.67	21.54
90.0	129.17	205.89	235.16	205.89	129.17	52.77	1.67
92.5	120.14	195.83	223.35	195.83	120.14	47.03	1.34
95.0	117.27	190.78	216.35	190.78	117.27	45.47	1.48
97.5	116.21	188.56	212.48	188.56	116.21	44.05	1.27
100.0	114.43	185.71	208.94	185.71	114.43	42.17	1.37
102.5	112.79	181.48	203.47	181.48	112.79	40.77	1.40
105.0	110.53	176.97	198.06	176.97	110.53	39.53	1.64
107.5	107.55	170.52	190.24	170.52	107.55	38.04	1.79
110.0	104.27	163.38	181.51	163.38	104.27	36.54	1.91
112.5	99.82	154.86	171.61	154.86	99.82	34.90	1.82
115.0	94.66	144.78	160.14	144.78	94.66	33.01	1.89
117.5	89.25	135.46	149.38	135.46	89.25	31.02	2.02
120.0	83.84	126.17	138.74	126.17	83.84	28.54	2.09
122.5	78.29	116.95	128.43	116.95	78.29	26.11	2.19
125.0	72.64	108.36	118.26	108.36	72.64	23.79	2.25
127.5	66.69	99.98	109.34	99.98	66.69	21.51	2.31
130.0	60.58	91.95	100.80	91.95	60.58	19.39	2.33
132.5	54.39	84.39	92.36	84.39	54.39	17.14	2.46
135.0	48.40	77.22	84.87	77.22	48.40	14.56	2.58
137.5	43.08	70.54	77.43	70.54	43.08	12.32	2.67
140.0	38.29	63.79	70.27	63.79	38.29	10.16	2.77
142.5	33.45	57.40	63.32	57.40	33.45	8.36	2.84
145.0	29.18	51.29	56.79	51.29	29.18	6.90	3.07
147.5	25.25	45.42	50.39	45.42	25.25	5.76	3.54
150.0	21.36	39.61	44.26	39.61	21.36	5.41	3.63
152.5	17.27	33.67	38.45	33.67	17.27	5.12	3.95
155.0	12.88	27.62	32.47	27.62	12.88	5.12	4.04
157.5	9.96	21.71	26.59	21.71	9.96	5.06	4.27
160.0	7.22	15.84	20.45	15.84	7.22	4.87	4.42
162.5	5.66	11.56	16.20	11.56	5.66	4.70	4.46
165.0	5.11	7.98	12.39	7.98	5.11	4.53	4.50
167.5	4.72	5.18	8.77	5.18	4.72	4.49	4.57
170.0	4.30	4.42	6.52	4.42	4.30	4.54	4.63
172.5	4.14	4.01	5.48	4.01	4.14	4.59	4.87
175.0	4.02	3.59	4.84	3.59	4.02	4.64	4.88
177.5	4.02	3.36	4.08	3.36	4.02	4.62	4.83
180.0	4.12	4.12	4.12	4.12	4.12	4.12	4.12

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.69	N.A.	10.70
0-30	918.02	N.A.	22.70
0-40	1502.19	N.A.	37.20
0-60	2655.48	N.A.	65.70
0-80	3405.19	N.A.	84.20
0-90	3590.03	N.A.	88.80
10-90	3478.48	N.A.	86.10
20-40	1070.5	N.A.	26.50
20-50	1674.82	N.A.	41.40
40-70	1593.46	N.A.	39.40
60-80	749.72	N.A.	18.50
70-80	309.54	N.A.	7.70
80-90	184.83	N.A.	4.60
90-110	239.89	N.A.	5.90
90-120	327.73	N.A.	8.10
90-130	387.45	N.A.	9.60
90-150	442.17	N.A.	10.90
90-180	452.25	N.A.	11.20
110-180	212.36	N.A.	5.30
0-180	4042.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.55
10-20	320.15
20-30	486.32
30-40	584.18
40-50	604.32
50-60	548.97
60-70	440.17
70-80	309.54
80-90	184.83
90-100	127.56
100-110	112.33
110-120	87.84
120-130	59.73
130-140	35.98
140-150	18.73
150-160	7.65
160-170	2.01
170-180	0.42

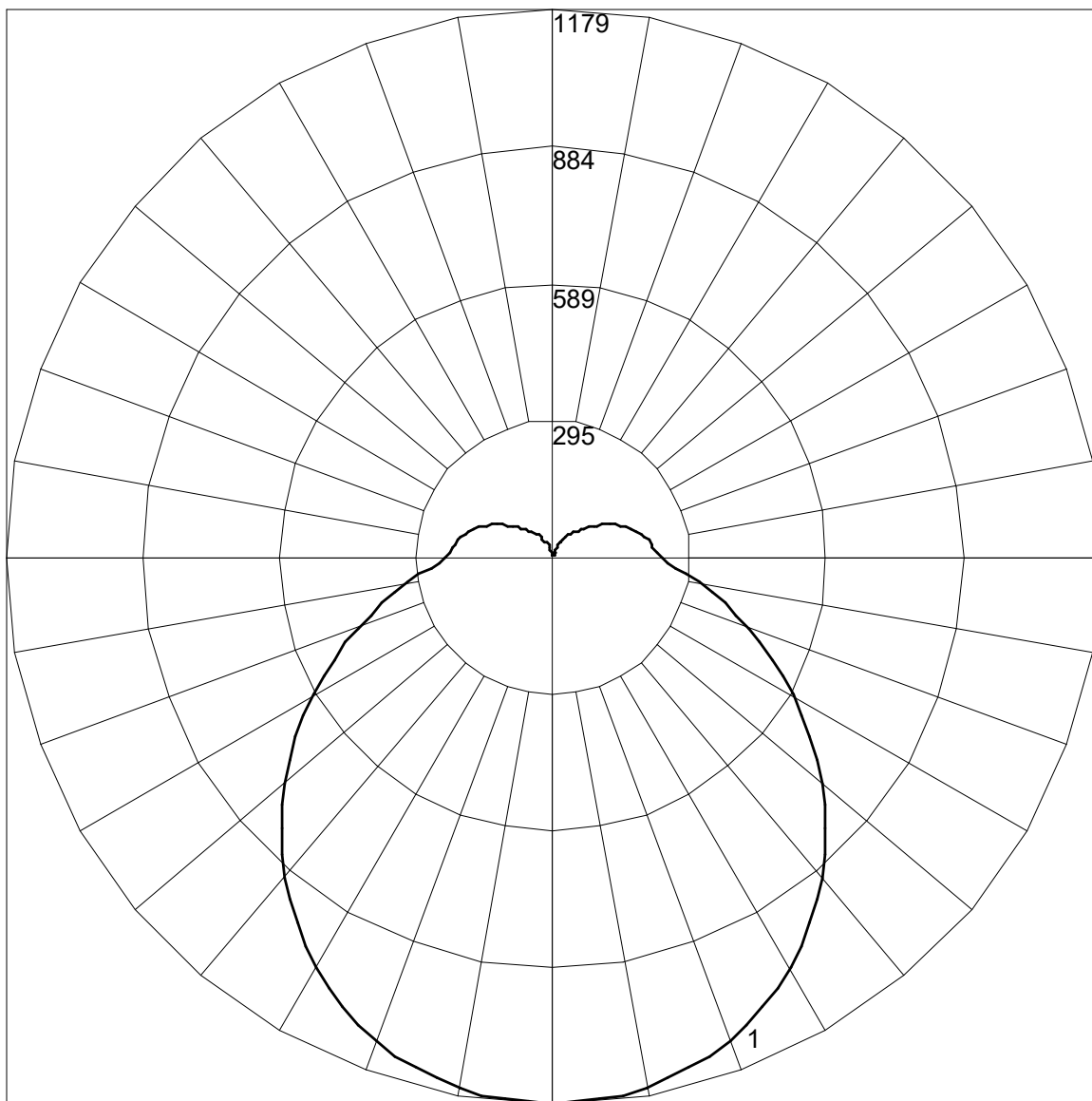
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	91	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	68	65	62	59
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49
4	79	67	58	51	76	65	56	50	61	54	48	57	51	46	54	48	44	42
5	73	59	50	44	70	58	49	43	54	47	41	51	45	40	48	43	38	36
6	67	53	44	38	64	52	43	37	49	42	36	46	40	35	44	38	34	31
7	62	48	40	33	60	47	39	33	44	37	32	42	36	31	40	34	30	28
8	58	44	36	30	55	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	27	52	39	32	26	37	30	26	35	29	25	34	28	24	22
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	31	26	22	20

POLAR GRAPH



Maximum Candela = 1178.61 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)