

IES INDOOR REPORT

PHOTOMETRIC FILENAME : OWL440L840UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32781.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 5/9/14
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] OWL440L840UNV
[LUMINAIRE] 4' OW WRAP
[MORE] 4-LP3.6 4000K BOARDS 54W DRIVER 3.16K RESISTOR 66% FROSTED OPAL LENS
[LAMP] LED. LUMINAIRE OUTPUT = 3933 LMS
[TEST DATE] 5/9/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	37.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 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	4018	3922	3971
55	3745	3690	3812
65	3395	3436	3643
75	2922	3177	3534
85	2003	2956	3669

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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	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12
2.5	1098.79	1103.51	1104.51	1105.71	1105.27	1105.71	1104.51	1103.51	1098.79	1103.51
5.0	1095.78	1099.49	1100.75	1103.35	1102.57	1103.35	1100.75	1099.49	1095.78	1099.49
7.5	1090.07	1093.52	1094.60	1098.49	1098.70	1098.49	1094.60	1093.52	1090.07	1093.52
10.0	1081.41	1085.52	1087.08	1093.05	1093.46	1093.05	1087.08	1085.52	1081.41	1085.52
12.5	1069.71	1075.36	1078.96	1084.53	1084.20	1084.53	1078.96	1075.36	1069.71	1075.36
15.0	1055.63	1062.55	1068.04	1073.79	1074.01	1073.79	1068.04	1062.55	1055.63	1062.55
17.5	1039.00	1046.48	1054.64	1061.77	1062.37	1061.77	1054.64	1046.48	1039.00	1046.48
20.0	1020.05	1027.98	1039.10	1049.51	1048.09	1049.51	1039.10	1027.98	1020.05	1027.98
22.5	997.82	1008.21	1021.79	1033.70	1032.62	1033.70	1021.79	1008.21	997.82	1008.21
25.0	973.46	985.91	1001.48	1014.13	1014.89	1014.13	1001.48	985.91	973.46	985.91
27.5	947.01	962.08	979.54	992.58	994.58	992.58	979.54	962.08	947.01	962.08
30.0	919.41	935.42	956.05	969.35	970.51	969.35	956.05	935.42	919.41	935.42
32.5	888.57	906.42	929.93	944.17	946.36	944.17	929.93	906.42	888.57	906.42
35.0	854.84	875.73	900.21	917.04	922.23	917.04	900.21	875.73	854.84	875.73
37.5	819.81	842.78	868.38	889.65	895.32	889.65	868.38	842.78	819.81	842.78
40.0	783.67	807.61	836.97	862.00	866.60	862.00	836.97	807.61	783.67	807.61
42.5	746.70	771.57	805.72	831.86	835.84	831.86	805.72	771.57	746.70	771.57
45.0	707.45	735.08	772.32	797.90	804.12	797.90	772.32	735.08	707.45	735.08
47.5	666.30	696.31	736.85	763.44	772.48	763.44	736.85	696.31	666.30	696.31
50.0	625.21	656.30	699.14	729.63	739.88	729.63	699.14	656.30	625.21	656.30
52.5	583.77	616.19	661.16	694.89	704.72	694.89	661.16	616.19	583.77	616.19
55.0	541.63	576.17	622.55	657.16	667.93	657.16	622.55	576.17	541.63	576.17
57.5	498.30	535.68	583.62	619.43	630.28	619.43	583.62	535.68	498.30	535.68
60.0	454.82	494.20	543.94	582.42	594.45	582.42	543.94	494.20	454.82	494.20
62.5	411.60	452.19	504.84	544.89	557.75	544.89	504.84	452.19	411.60	452.19
65.0	369.22	410.68	465.36	506.62	519.62	506.62	465.36	410.68	369.22	410.68
67.5	326.38	369.67	425.61	467.03	480.81	467.03	425.61	369.67	326.38	369.67
70.0	284.56	329.03	386.51	428.53	443.66	428.53	386.51	329.03	284.56	329.03
72.5	243.41	289.64	348.57	392.81	407.99	392.81	348.57	289.64	243.41	289.64
75.0	203.32	251.41	311.44	358.08	373.46	358.08	311.44	251.41	203.32	251.41
77.5	164.20	213.37	274.91	322.55	339.06	322.55	274.91	213.37	164.20	213.37
80.0	126.39	176.07	239.17	288.13	304.73	288.13	239.17	176.07	126.39	176.07
82.5	90.74	140.80	204.15	254.66	272.07	254.66	204.15	140.80	90.74	140.80
85.0	56.67	106.95	170.33	222.34	240.46	222.34	170.33	106.95	56.67	106.95
87.5	24.32	76.81	143.41	198.76	217.67	198.76	143.41	76.81	24.32	76.81
90.0	1.78	54.52	122.59	179.87	200.08	179.87	122.59	54.52	1.78	54.52
92.5	1.32	48.31	113.46	169.85	189.33	169.85	113.46	48.31	1.32	48.31
95.0	1.30	46.64	110.53	164.73	183.04	164.73	110.53	46.64	1.30	46.64
97.5	1.34	44.71	108.75	162.61	180.17	162.61	108.75	44.71	1.34	44.71
100.0	1.30	42.99	106.18	159.85	177.07	159.85	106.18	42.99	1.30	42.99
102.5	1.31	41.15	103.68	156.39	173.32	156.39	103.68	41.15	1.31	41.15
105.0	1.34	39.67	101.16	152.98	169.26	152.98	101.16	39.67	1.34	39.67
107.5	1.44	37.77	98.17	148.44	164.05	148.44	98.17	37.77	1.44	37.77
110.0	1.57	35.31	95.13	143.21	157.92	143.21	95.13	35.31	1.57	35.31
112.5	1.56	32.90	91.24	137.19	151.07	137.19	91.24	32.90	1.56	32.90
115.0	1.59	30.65	86.31	130.48	143.56	130.48	86.31	30.65	1.59	30.65
117.5	1.59	28.57	80.53	123.76	135.92	123.76	80.53	28.57	1.59	28.57
120.0	1.66	26.51	74.93	117.09	128.29	117.09	74.93	26.51	1.66	26.51
122.5	1.82	24.60	69.42	109.88	119.82	109.88	69.42	24.60	1.82	24.60
125.0	1.89	22.70	63.89	102.77	112.33	102.77	63.89	22.70	1.89	22.70
127.5	2.00	20.91	58.82	96.69	105.85	96.69	58.82	20.91	2.00	20.91
130.0	2.16	18.98	54.19	90.10	99.17	90.10	54.19	18.98	2.16	18.98
132.5	2.26	17.63	49.36	83.27	91.51	83.27	49.36	17.63	2.26	17.63

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CANDELA TABULATION - (Cont.)

135.0	2.34	15.90	44.81	75.88	84.63	75.88	44.81	15.90	2.34	15.90
137.5	2.53	13.72	40.81	68.30	77.73	68.30	40.81	13.72	2.53	13.72
140.0	2.54	12.19	36.85	61.18	71.07	61.18	36.85	12.19	2.54	12.19
142.5	2.62	10.54	32.88	54.43	64.44	54.43	32.88	10.54	2.62	10.54
145.0	2.75	9.11	29.27	48.25	57.90	48.25	29.27	9.11	2.75	9.11
147.5	2.79	8.08	25.63	42.21	51.61	42.21	25.63	8.08	2.79	8.08
150.0	2.95	7.03	22.28	36.53	45.24	36.53	22.28	7.03	2.95	7.03
152.5	3.09	6.03	18.93	31.27	39.23	31.27	18.93	6.03	3.09	6.03
155.0	3.10	5.15	15.54	26.02	33.22	26.02	15.54	5.15	3.10	5.15
157.5	3.23	4.57	12.24	20.76	27.01	20.76	12.24	4.57	3.23	4.57
160.0	3.41	3.98	9.39	15.80	21.31	15.80	9.39	3.98	3.41	3.98
162.5	3.42	3.73	7.49	11.71	16.51	11.71	7.49	3.73	3.42	3.73
165.0	3.35	3.67	5.67	8.06	11.82	8.06	5.67	3.67	3.35	3.67
167.5	3.38	3.56	4.18	5.53	7.79	5.53	4.18	3.56	3.38	3.56
170.0	3.51	3.49	3.54	3.68	5.10	3.68	3.54	3.49	3.51	3.49
172.5	3.50	3.49	3.37	2.86	3.55	2.86	3.37	3.49	3.50	3.49
175.0	3.54	3.53	3.35	2.68	3.36	2.68	3.35	3.53	3.54	3.53
177.5	3.53	3.49	3.33	2.69	3.09	2.69	3.33	3.49	3.53	3.49
180.0	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23

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	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12	1105.12
2.5	1104.51	1105.71	1105.27	1105.71	1104.51	1103.51	1098.79
5.0	1100.75	1103.35	1102.57	1103.35	1100.75	1099.49	1095.78
7.5	1094.60	1098.49	1098.70	1098.49	1094.60	1093.52	1090.07
10.0	1087.08	1093.05	1093.46	1093.05	1087.08	1085.52	1081.41
12.5	1078.96	1084.53	1084.20	1084.53	1078.96	1075.36	1069.71
15.0	1068.04	1073.79	1074.01	1073.79	1068.04	1062.55	1055.63
17.5	1054.64	1061.77	1062.37	1061.77	1054.64	1046.48	1039.00
20.0	1039.10	1049.51	1048.09	1049.51	1039.10	1027.98	1020.05
22.5	1021.79	1033.70	1032.62	1033.70	1021.79	1008.21	997.82
25.0	1001.48	1014.13	1014.89	1014.13	1001.48	985.91	973.46
27.5	979.54	992.58	994.58	992.58	979.54	962.08	947.01
30.0	956.05	969.35	970.51	969.35	956.05	935.42	919.41
32.5	929.93	944.17	946.36	944.17	929.93	906.42	888.57
35.0	900.21	917.04	922.23	917.04	900.21	875.73	854.84
37.5	868.38	889.65	895.32	889.65	868.38	842.78	819.81
40.0	836.97	862.00	866.60	862.00	836.97	807.61	783.67
42.5	805.72	831.86	835.84	831.86	805.72	771.57	746.70
45.0	772.32	797.90	804.12	797.90	772.32	735.08	707.45
47.5	736.85	763.44	772.48	763.44	736.85	696.31	666.30
50.0	699.14	729.63	739.88	729.63	699.14	656.30	625.21
52.5	661.16	694.89	704.72	694.89	661.16	616.19	583.77
55.0	622.55	657.16	667.93	657.16	622.55	576.17	541.63
57.5	583.62	619.43	630.28	619.43	583.62	535.68	498.30
60.0	543.94	582.42	594.45	582.42	543.94	494.20	454.82
62.5	504.84	544.89	557.75	544.89	504.84	452.19	411.60
65.0	465.36	506.62	519.62	506.62	465.36	410.68	369.22
67.5	425.61	467.03	480.81	467.03	425.61	369.67	326.38
70.0	386.51	428.53	443.66	428.53	386.51	329.03	284.56
72.5	348.57	392.81	407.99	392.81	348.57	289.64	243.41
75.0	311.44	358.08	373.46	358.08	311.44	251.41	203.32
77.5	274.91	322.55	339.06	322.55	274.91	213.37	164.20
80.0	239.17	288.13	304.73	288.13	239.17	176.07	126.39

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82.5	204.15	254.66	272.07	254.66	204.15	140.80	90.74
85.0	170.33	222.34	240.46	222.34	170.33	106.95	56.67
87.5	143.41	198.76	217.67	198.76	143.41	76.81	24.32
90.0	122.59	179.87	200.08	179.87	122.59	54.52	1.78
92.5	113.46	169.85	189.33	169.85	113.46	48.31	1.32
95.0	110.53	164.73	183.04	164.73	110.53	46.64	1.30
97.5	108.75	162.61	180.17	162.61	108.75	44.71	1.34
100.0	106.18	159.85	177.07	159.85	106.18	42.99	1.30
102.5	103.68	156.39	173.32	156.39	103.68	41.15	1.31
105.0	101.16	152.98	169.26	152.98	101.16	39.67	1.34
107.5	98.17	148.44	164.05	148.44	98.17	37.77	1.44
110.0	95.13	143.21	157.92	143.21	95.13	35.31	1.57
112.5	91.24	137.19	151.07	137.19	91.24	32.90	1.56
115.0	86.31	130.48	143.56	130.48	86.31	30.65	1.59
117.5	80.53	123.76	135.92	123.76	80.53	28.57	1.59
120.0	74.93	117.09	128.29	117.09	74.93	26.51	1.66
122.5	69.42	109.88	119.82	109.88	69.42	24.60	1.82
125.0	63.89	102.77	112.33	102.77	63.89	22.70	1.89
127.5	58.82	96.69	105.85	96.69	58.82	20.91	2.00
130.0	54.19	90.10	99.17	90.10	54.19	18.98	2.16
132.5	49.36	83.27	91.51	83.27	49.36	17.63	2.26
135.0	44.81	75.88	84.63	75.88	44.81	15.90	2.34
137.5	40.81	68.30	77.73	68.30	40.81	13.72	2.53
140.0	36.85	61.18	71.07	61.18	36.85	12.19	2.54
142.5	32.88	54.43	64.44	54.43	32.88	10.54	2.62
145.0	29.27	48.25	57.90	48.25	29.27	9.11	2.75
147.5	25.63	42.21	51.61	42.21	25.63	8.08	2.79
150.0	22.28	36.53	45.24	36.53	22.28	7.03	2.95
152.5	18.93	31.27	39.23	31.27	18.93	6.03	3.09
155.0	15.54	26.02	33.22	26.02	15.54	5.15	3.10
157.5	12.24	20.76	27.01	20.76	12.24	4.57	3.23
160.0	9.39	15.80	21.31	15.80	9.39	3.98	3.41
162.5	7.49	11.71	16.51	11.71	7.49	3.73	3.42
165.0	5.67	8.06	11.82	8.06	5.67	3.67	3.35
167.5	4.18	5.53	7.79	5.53	4.18	3.56	3.38
170.0	3.54	3.68	5.10	3.68	3.54	3.49	3.51
172.5	3.37	2.86	3.55	2.86	3.37	3.49	3.50
175.0	3.35	2.68	3.36	2.68	3.35	3.53	3.54
177.5	3.33	2.69	3.09	2.69	3.33	3.49	3.53
180.0	3.23	3.23	3.23	3.23	3.23	3.23	3.23

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	406.01	N.A.	10.30
0-30	866.48	N.A.	22.00
0-40	1426.74	N.A.	36.30
0-60	2567.3	N.A.	65.30
0-80	3339.15	N.A.	84.90
0-90	3520.22	N.A.	89.50
10-90	3415.55	N.A.	86.80
20-40	1020.73	N.A.	26.00
20-50	1611.06	N.A.	41.00
40-70	1592.82	N.A.	40.50
60-80	771.85	N.A.	19.60
70-80	319.58	N.A.	8.10
80-90	181.07	N.A.	4.60
90-110	214.22	N.A.	5.40
90-120	293.60	N.A.	7.50
90-130	349.27	N.A.	8.90
90-150	402.96	N.A.	10.20
90-180	412.95	N.A.	10.50
110-180	198.73	N.A.	5.10
0-180	3933.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.67
10-20	301.34
20-30	460.47
30-40	560.26
40-50	590.33
50-60	550.22
60-70	452.26
70-80	319.58
80-90	181.07
90-100	114.30
100-110	99.92
110-120	79.38
120-130	55.67
130-140	35.06
140-150	18.62
150-160	7.71
160-170	1.96
170-180	0.32

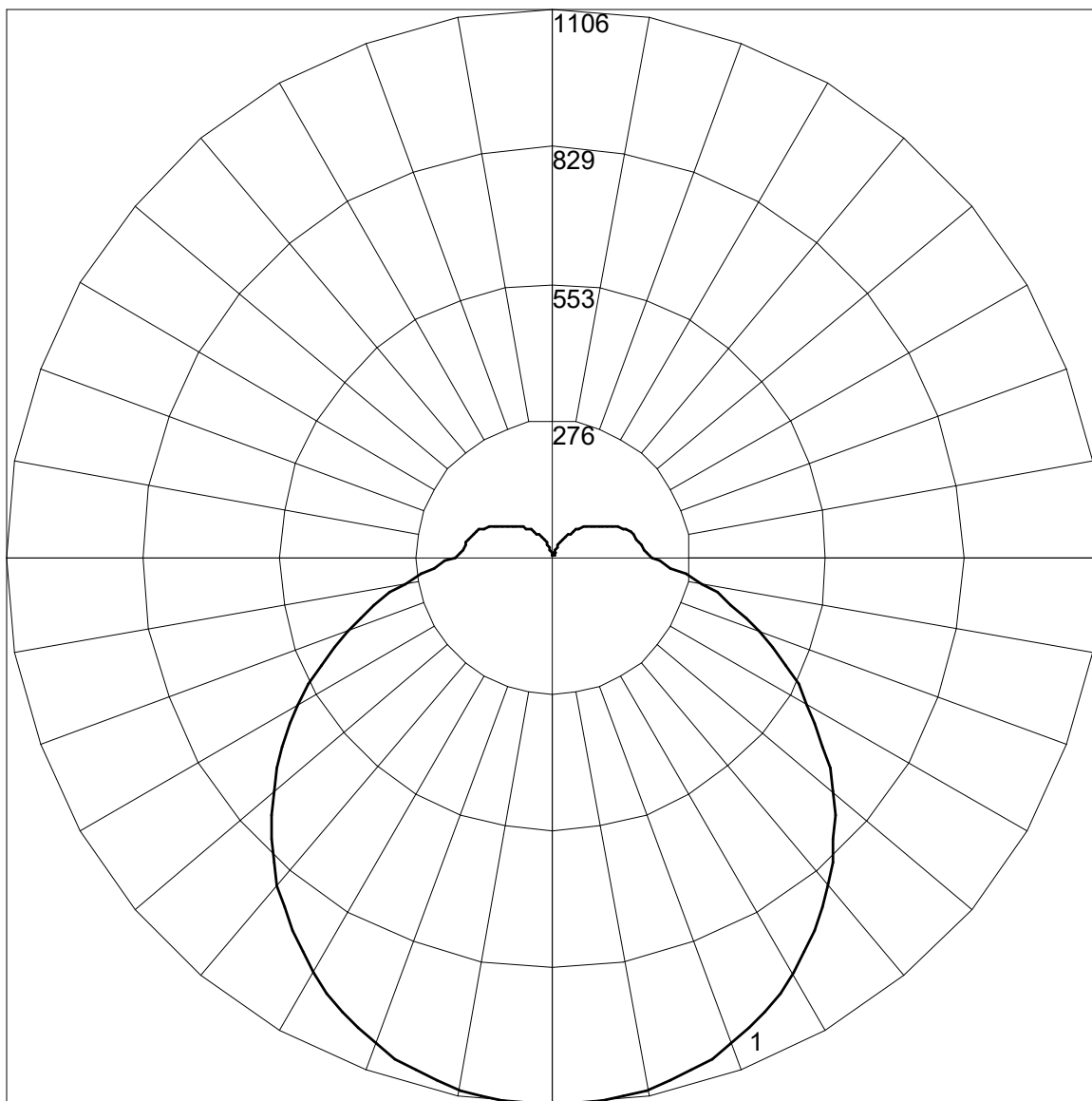
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90
1	105	99	95	90	101	96	92	88	90	86	83	84	81	79	79	77	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	68	64	68	65	61	59
3	86	75	66	60	83	73	65	58	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	51	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	25	21	20

POLAR GRAPH



Maximum Candela = 1105.71 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)