

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : OWL450L840UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32780.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 5/9/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] OWL450L840UNV
[LUMINAIRE] 4' OW WRAP
[MORE] 4-LP3.6 4000K BOARDS 54W DRIVER 6.04K RESISTOR 66% FROSTED OPAL LENS
[LAMP] LED. LUMINAIRE OUTPUT = 5136 LMS
[TEST DATE] 5/9/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5136
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	52.7
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	5224	5114	5173
55	4868	4814	4963
65	4414	4489	4747
75	3800	4161	4608
85	2628	3892	4776

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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	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31
2.5	1430.76	1437.01	1438.17	1440.01	1439.56	1440.01	1438.17	1437.01	1430.76	1437.01
5.0	1426.61	1431.95	1433.68	1437.29	1435.83	1437.29	1433.68	1431.95	1426.61	1431.95
7.5	1419.21	1424.15	1425.49	1430.30	1430.86	1430.30	1425.49	1424.15	1419.21	1424.15
10.0	1407.90	1413.66	1415.65	1423.72	1424.01	1423.72	1415.65	1413.66	1407.90	1413.66
12.5	1393.09	1400.53	1404.80	1412.65	1411.70	1412.65	1404.80	1400.53	1393.09	1400.53
15.0	1374.69	1383.91	1390.94	1398.55	1398.63	1398.55	1390.94	1383.91	1374.69	1383.91
17.5	1353.25	1363.13	1373.61	1382.95	1383.30	1382.95	1373.61	1363.13	1353.25	1363.13
20.0	1328.14	1338.93	1353.67	1366.79	1364.68	1366.79	1353.67	1338.93	1328.14	1338.93
22.5	1298.69	1313.50	1331.04	1346.21	1344.60	1346.21	1331.04	1313.50	1298.69	1313.50
25.0	1266.34	1284.30	1304.40	1321.14	1321.83	1321.14	1304.40	1284.30	1266.34	1284.30
27.5	1231.17	1253.28	1275.84	1293.01	1295.34	1293.01	1275.84	1253.28	1231.17	1253.28
30.0	1195.02	1218.46	1245.13	1262.61	1264.24	1262.61	1245.13	1218.46	1195.02	1218.46
32.5	1155.99	1180.79	1211.09	1230.05	1232.55	1230.05	1211.09	1180.79	1155.99	1180.79
35.0	1113.77	1140.65	1172.51	1195.08	1201.14	1195.08	1172.51	1140.65	1113.77	1140.65
37.5	1067.49	1097.73	1131.31	1159.39	1165.98	1159.39	1131.31	1097.73	1067.49	1097.73
40.0	1019.38	1052.01	1090.66	1123.64	1128.05	1123.64	1090.66	1052.01	1019.38	1052.01
42.5	970.20	1005.60	1050.40	1083.90	1088.27	1083.90	1050.40	1005.60	970.20	1005.60
45.0	919.83	958.27	1006.92	1039.79	1047.68	1039.79	1006.92	958.27	919.83	958.27
47.5	867.93	907.93	960.60	995.27	1006.46	995.27	960.60	907.93	867.93	907.93
50.0	814.58	855.95	911.54	951.38	963.75	951.38	911.54	855.95	814.58	855.95
52.5	759.60	804.12	862.27	905.95	917.65	905.95	862.27	804.12	759.60	804.12
55.0	703.99	751.87	812.30	856.45	869.71	856.45	812.30	751.87	703.99	751.87
57.5	648.60	699.23	761.51	807.46	821.15	807.46	761.51	699.23	648.60	699.23
60.0	592.59	645.44	710.07	759.40	774.51	759.40	710.07	645.44	592.59	645.44
62.5	536.28	590.79	659.40	710.86	726.83	710.86	659.40	590.79	536.28	590.79
65.0	480.01	536.82	607.90	660.81	677.01	660.81	607.90	536.82	480.01	536.82
67.5	424.45	483.78	556.00	609.84	626.30	609.84	556.00	483.78	424.45	483.78
70.0	370.15	431.31	505.00	560.10	578.22	560.10	505.00	431.31	370.15	431.31
72.5	316.74	379.66	455.99	513.96	531.88	513.96	455.99	379.66	316.74	379.66
75.0	264.38	329.49	407.84	468.25	487.05	468.25	407.84	329.49	264.38	329.49
77.5	213.77	279.94	360.47	421.93	441.83	421.93	360.47	279.94	213.77	279.94
80.0	164.96	231.90	313.73	377.00	397.44	377.00	313.73	231.90	164.96	231.90
82.5	118.47	185.71	268.09	333.54	354.73	333.54	268.09	185.71	118.47	185.71
85.0	74.37	141.67	224.28	291.87	312.98	291.87	224.28	141.67	74.37	141.67
87.5	31.92	102.31	188.99	260.38	282.97	260.38	188.99	102.31	31.92	102.31
90.0	2.23	73.19	161.72	235.22	259.42	235.22	161.72	73.19	2.23	73.19
92.5	1.70	65.59	150.05	222.50	246.03	222.50	150.05	65.59	1.70	65.59
95.0	1.71	63.32	146.31	216.33	238.58	216.33	146.31	63.32	1.71	63.32
97.5	1.74	60.92	144.03	213.79	234.98	213.79	144.03	60.92	1.74	60.92
100.0	1.77	58.26	140.62	209.95	230.88	209.95	140.62	58.26	1.77	58.26
102.5	1.86	56.10	137.34	205.40	226.03	205.40	137.34	56.10	1.86	56.10
105.0	1.94	53.94	134.09	200.78	220.62	200.78	134.09	53.94	1.94	53.94
107.5	1.88	51.48	130.16	194.75	213.73	194.75	130.16	51.48	1.88	51.48
110.0	2.00	48.18	126.02	188.03	205.73	188.03	126.02	48.18	2.00	48.18
112.5	2.06	44.82	120.99	180.24	196.91	180.24	120.99	44.82	2.06	44.82
115.0	2.17	41.79	114.57	171.43	187.08	171.43	114.57	41.79	2.17	41.79
117.5	2.12	39.02	106.91	162.48	177.10	162.48	106.91	39.02	2.12	39.02
120.0	2.26	36.25	99.53	153.91	167.05	153.91	99.53	36.25	2.26	36.25
122.5	2.41	33.46	92.27	144.11	156.09	144.11	92.27	33.46	2.41	33.46
125.0	2.52	31.04	84.86	135.13	146.96	135.13	84.86	31.04	2.52	31.04
127.5	2.70	28.78	78.34	127.14	138.02	127.14	78.34	28.78	2.70	28.78
130.0	2.87	25.87	72.26	118.63	128.76	118.63	72.26	25.87	2.87	25.87
132.5	3.00	23.89	65.79	109.63	119.11	109.63	65.79	23.89	3.00	23.89

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135.0	3.20	21.87	59.82	100.19	110.38	100.19	59.82	21.87	3.20	21.87
137.5	3.30	19.55	54.44	90.51	101.46	90.51	54.44	19.55	3.30	19.55
140.0	3.51	17.07	49.08	81.11	92.70	81.11	49.08	17.07	3.51	17.07
142.5	3.58	14.46	43.97	72.18	84.25	72.18	43.97	14.46	3.58	14.46
145.0	3.58	12.55	39.22	63.87	75.69	63.87	39.22	12.55	3.58	12.55
147.5	3.94	10.98	34.26	55.96	67.46	55.96	34.26	10.98	3.94	10.98
150.0	3.99	9.57	29.46	48.45	59.29	48.45	29.46	9.57	3.99	9.57
152.5	4.12	8.28	25.07	41.38	51.53	41.38	25.07	8.28	4.12	8.28
155.0	4.27	6.95	20.57	34.23	43.69	34.23	20.57	6.95	4.27	6.95
157.5	4.34	6.05	16.33	27.53	35.43	27.53	16.33	6.05	4.34	6.05
160.0	4.43	5.30	12.69	20.84	27.80	20.84	12.69	5.30	4.43	5.30
162.5	4.57	5.03	10.12	15.38	21.30	15.38	10.12	5.03	4.57	5.03
165.0	4.55	4.88	7.69	10.73	15.56	10.73	7.69	4.88	4.55	4.88
167.5	4.60	4.74	5.73	7.27	10.30	7.27	5.73	4.74	4.60	4.74
170.0	4.61	4.62	4.95	4.87	6.84	4.87	4.95	4.62	4.61	4.62
172.5	4.73	4.74	4.56	3.85	4.66	3.85	4.56	4.74	4.73	4.74
175.0	4.72	4.65	4.41	3.60	4.30	3.60	4.41	4.65	4.72	4.65
177.5	4.79	4.76	4.42	3.47	4.11	3.47	4.42	4.76	4.79	4.76
180.0	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25

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	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31	1439.31
2.5	1438.17	1440.01	1439.56	1440.01	1438.17	1437.01	1430.76
5.0	1433.68	1437.29	1435.83	1437.29	1433.68	1431.95	1426.61
7.5	1425.49	1430.30	1430.86	1430.30	1425.49	1424.15	1419.21
10.0	1415.65	1423.72	1424.01	1423.72	1415.65	1413.66	1407.90
12.5	1404.80	1412.65	1411.70	1412.65	1404.80	1400.53	1393.09
15.0	1390.94	1398.55	1398.63	1398.55	1390.94	1383.91	1374.69
17.5	1373.61	1382.95	1383.30	1382.95	1373.61	1363.13	1353.25
20.0	1353.67	1366.79	1364.68	1366.79	1353.67	1338.93	1328.14
22.5	1331.04	1346.21	1344.60	1346.21	1331.04	1313.50	1298.69
25.0	1304.40	1321.14	1321.83	1321.14	1304.40	1284.30	1266.34
27.5	1275.84	1293.01	1295.34	1293.01	1275.84	1253.28	1231.17
30.0	1245.13	1262.61	1264.24	1262.61	1245.13	1218.46	1195.02
32.5	1211.09	1230.05	1232.55	1230.05	1211.09	1180.79	1155.99
35.0	1172.51	1195.08	1201.14	1195.08	1172.51	1140.65	1113.77
37.5	1131.31	1159.39	1165.98	1159.39	1131.31	1097.73	1067.49
40.0	1090.66	1123.64	1128.05	1123.64	1090.66	1052.01	1019.38
42.5	1050.40	1083.90	1088.27	1083.90	1050.40	1005.60	970.20
45.0	1006.92	1039.79	1047.68	1039.79	1006.92	958.27	919.83
47.5	960.60	995.27	1006.46	995.27	960.60	907.93	867.93
50.0	911.54	951.38	963.75	951.38	911.54	855.95	814.58
52.5	862.27	905.95	917.65	905.95	862.27	804.12	759.60
55.0	812.30	856.45	869.71	856.45	812.30	751.87	703.99
57.5	761.51	807.46	821.15	807.46	761.51	699.23	648.60
60.0	710.07	759.40	774.51	759.40	710.07	645.44	592.59
62.5	659.40	710.86	726.83	710.86	659.40	590.79	536.28
65.0	607.90	660.81	677.01	660.81	607.90	536.82	480.01
67.5	556.00	609.84	626.30	609.84	556.00	483.78	424.45
70.0	505.00	560.10	578.22	560.10	505.00	431.31	370.15
72.5	455.99	513.96	531.88	513.96	455.99	379.66	316.74
75.0	407.84	468.25	487.05	468.25	407.84	329.49	264.38
77.5	360.47	421.93	441.83	421.93	360.47	279.94	213.77
80.0	313.73	377.00	397.44	377.00	313.73	231.90	164.96

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82.5	268.09	333.54	354.73	333.54	268.09	185.71	118.47
85.0	224.28	291.87	312.98	291.87	224.28	141.67	74.37
87.5	188.99	260.38	282.97	260.38	188.99	102.31	31.92
90.0	161.72	235.22	259.42	235.22	161.72	73.19	2.23
92.5	150.05	222.50	246.03	222.50	150.05	65.59	1.70
95.0	146.31	216.33	238.58	216.33	146.31	63.32	1.71
97.5	144.03	213.79	234.98	213.79	144.03	60.92	1.74
100.0	140.62	209.95	230.88	209.95	140.62	58.26	1.77
102.5	137.34	205.40	226.03	205.40	137.34	56.10	1.86
105.0	134.09	200.78	220.62	200.78	134.09	53.94	1.94
107.5	130.16	194.75	213.73	194.75	130.16	51.48	1.88
110.0	126.02	188.03	205.73	188.03	126.02	48.18	2.00
112.5	120.99	180.24	196.91	180.24	120.99	44.82	2.06
115.0	114.57	171.43	187.08	171.43	114.57	41.79	2.17
117.5	106.91	162.48	177.10	162.48	106.91	39.02	2.12
120.0	99.53	153.91	167.05	153.91	99.53	36.25	2.26
122.5	92.27	144.11	156.09	144.11	92.27	33.46	2.41
125.0	84.86	135.13	146.96	135.13	84.86	31.04	2.52
127.5	78.34	127.14	138.02	127.14	78.34	28.78	2.70
130.0	72.26	118.63	128.76	118.63	72.26	25.87	2.87
132.5	65.79	109.63	119.11	109.63	65.79	23.89	3.00
135.0	59.82	100.19	110.38	100.19	59.82	21.87	3.20
137.5	54.44	90.51	101.46	90.51	54.44	19.55	3.30
140.0	49.08	81.11	92.70	81.11	49.08	17.07	3.51
142.5	43.97	72.18	84.25	72.18	43.97	14.46	3.58
145.0	39.22	63.87	75.69	63.87	39.22	12.55	3.58
147.5	34.26	55.96	67.46	55.96	34.26	10.98	3.94
150.0	29.46	48.45	59.29	48.45	29.46	9.57	3.99
152.5	25.07	41.38	51.53	41.38	25.07	8.28	4.12
155.0	20.57	34.23	43.69	34.23	20.57	6.95	4.27
157.5	16.33	27.53	35.43	27.53	16.33	6.05	4.34
160.0	12.69	20.84	27.80	20.84	12.69	5.30	4.43
162.5	10.12	15.38	21.30	15.38	10.12	5.03	4.57
165.0	7.69	10.73	15.56	10.73	7.69	4.88	4.55
167.5	5.73	7.27	10.30	7.27	5.73	4.74	4.60
170.0	4.95	4.87	6.84	4.87	4.95	4.62	4.61
172.5	4.56	3.85	4.66	3.85	4.56	4.74	4.73
175.0	4.41	3.60	4.30	3.60	4.41	4.65	4.72
177.5	4.42	3.47	4.11	3.47	4.42	4.76	4.79
180.0	4.25	4.25	4.25	4.25	4.25	4.25	4.25

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	528.77	N.A.	10.30
0-30	1128.46	N.A.	22.00
0-40	1858.22	N.A.	36.20
0-60	3344.86	N.A.	65.10
0-80	4353.12	N.A.	84.80
0-90	4590.7	N.A.	89.40
10-90	4454.39	N.A.	86.70
20-40	1329.45	N.A.	25.90
20-50	2098.71	N.A.	40.90
40-70	2076.94	N.A.	40.40
60-80	1008.26	N.A.	19.60
70-80	417.96	N.A.	8.10
80-90	237.58	N.A.	4.60
90-110	282.42	N.A.	5.50
90-120	387.17	N.A.	7.50
90-130	460.71	N.A.	9.00
90-150	531.89	N.A.	10.40
90-180	545.12	N.A.	10.60
110-180	262.70	N.A.	5.10
0-180	5135.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.30
10-20	392.46
20-30	599.69
30-40	729.76
40-50	769.26
50-60	717.38
60-70	590.30
70-80	417.96
80-90	237.58
90-100	150.61
100-110	131.81
110-120	104.76
120-130	73.53
130-140	46.45
140-150	24.73
150-160	10.20
160-170	2.60
170-180	0.43

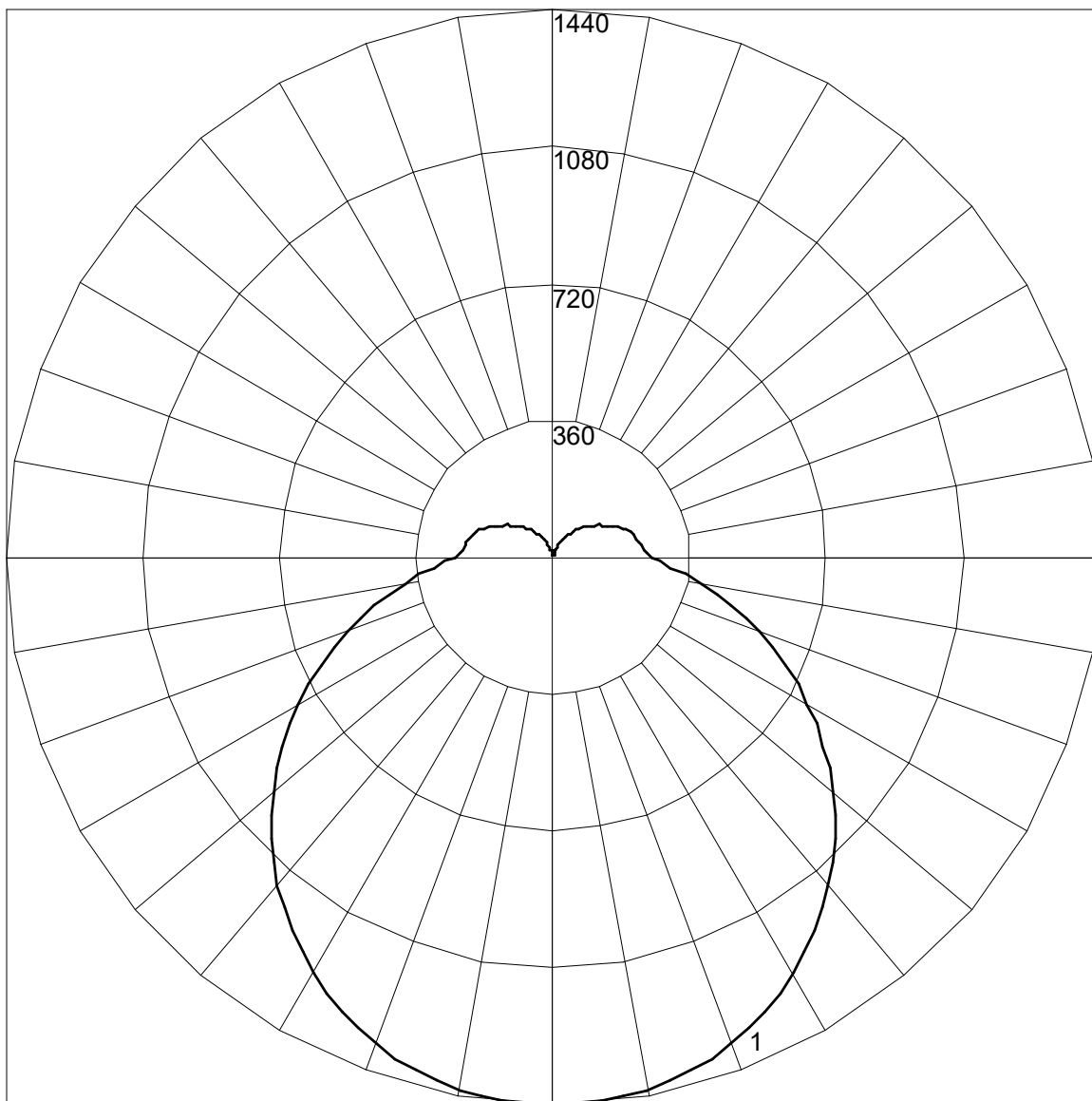
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	92	92	92	89
1	105	99	95	90	101	96	92	88	90	86	83	84	81	79	79	77	74	72
2	95	86	79	72	91	83	76	71	78	72	67	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	50	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	66	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	46	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	30	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	32	26	22	31	25	21	20

POLAR GRAPH



Maximum Candela = 1440.01 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)