

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : OWL470L840UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32779.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 5/9/14
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] OWL470L840UNV
[LUMINAIRE] 4'OW WRAP
[MORE] 4-LP3.6 4000K BOARDS 95W DRIVER 5.1K RESISTOR 66% FROSTED OPAL LENS
[LAMP] LED. LUMINAIRE OUTPUT = 6790 LMS
[TEST DATE] 5/9/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	72.6
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	6914	6765	6849
55	6445	6371	6573
65	5843	5935	6295
75	5034	5493	6125
85	3435	5116	6378

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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	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60
2.5	1895.26	1902.20	1903.32	1904.61	1904.19	1904.61	1903.32	1902.20	1895.26	1902.20
5.0	1889.81	1895.67	1896.99	1900.82	1899.26	1900.82	1896.99	1895.67	1889.81	1895.67
7.5	1880.30	1885.20	1886.12	1891.83	1892.59	1891.83	1886.12	1885.20	1880.30	1885.20
10.0	1865.12	1871.37	1872.93	1882.83	1883.65	1882.83	1872.93	1871.37	1865.12	1871.37
12.5	1845.41	1853.78	1858.43	1868.14	1867.30	1868.14	1858.43	1853.78	1845.41	1853.78
15.0	1821.04	1831.30	1840.29	1849.24	1850.09	1849.24	1840.29	1831.30	1821.04	1831.30
17.5	1792.54	1803.93	1817.41	1828.65	1829.98	1828.65	1817.41	1803.93	1792.54	1803.93
20.0	1759.35	1771.76	1790.95	1807.39	1805.55	1807.39	1790.95	1771.76	1759.35	1771.76
22.5	1721.19	1737.20	1760.94	1780.13	1779.52	1780.13	1760.94	1737.20	1721.19	1737.20
25.0	1679.84	1698.58	1725.80	1746.74	1749.54	1746.74	1725.80	1698.58	1679.84	1698.58
27.5	1634.41	1656.74	1688.12	1710.11	1714.56	1710.11	1688.12	1656.74	1634.41	1656.74
30.0	1585.23	1610.98	1647.33	1670.26	1673.37	1670.26	1647.33	1610.98	1585.23	1610.98
32.5	1531.07	1561.15	1602.18	1627.12	1631.70	1627.12	1602.18	1561.15	1531.07	1561.15
35.0	1473.92	1507.47	1551.33	1580.22	1590.10	1580.22	1551.33	1507.47	1473.92	1507.47
37.5	1414.34	1450.38	1496.87	1533.05	1543.97	1533.05	1496.87	1450.38	1414.34	1450.38
40.0	1351.93	1390.09	1443.14	1485.65	1493.75	1485.65	1443.14	1390.09	1351.93	1390.09
42.5	1286.21	1328.88	1389.28	1433.29	1441.23	1433.29	1389.28	1328.88	1286.21	1328.88
45.0	1217.51	1265.72	1332.14	1375.33	1387.01	1375.33	1332.14	1265.72	1217.51	1265.72
47.5	1148.23	1198.69	1271.07	1316.35	1332.44	1316.35	1271.07	1198.69	1148.23	1198.69
50.0	1077.88	1130.16	1206.31	1258.11	1275.73	1258.11	1206.31	1130.16	1077.88	1130.16
52.5	1005.75	1061.61	1141.14	1197.94	1214.97	1197.94	1141.14	1061.61	1005.75	1061.61
55.0	932.13	992.61	1075.01	1132.78	1151.89	1132.78	1075.01	992.61	932.13	992.61
57.5	857.95	923.02	1007.69	1068.05	1087.91	1068.05	1007.69	923.02	857.95	923.02
60.0	783.74	851.67	939.39	1004.72	1026.75	1004.72	939.39	851.67	783.74	851.67
62.5	709.32	779.06	871.83	940.68	963.28	940.68	871.83	779.06	709.32	779.06
65.0	635.42	708.19	803.78	875.34	897.82	875.34	803.78	708.19	635.42	708.19
67.5	562.02	637.81	735.30	807.64	830.91	807.64	735.30	637.81	562.02	637.81
70.0	490.14	567.59	667.65	742.08	767.38	742.08	667.65	567.59	490.14	567.59
72.5	419.49	499.38	602.22	680.79	706.57	680.79	602.22	499.38	419.49	499.38
75.0	350.28	433.26	538.38	620.50	647.39	620.50	538.38	433.26	350.28	433.26
77.5	282.66	368.01	475.44	558.80	587.59	558.80	475.44	368.01	282.66	368.01
80.0	217.47	304.08	413.34	499.67	529.07	499.67	413.34	304.08	217.47	304.08
82.5	155.46	243.22	352.55	442.48	472.98	442.48	352.55	243.22	155.46	243.22
85.0	97.20	184.91	294.80	386.88	418.01	386.88	294.80	184.91	97.20	184.91
87.5	41.55	132.71	248.71	345.92	378.68	345.92	248.71	132.71	41.55	132.71
90.0	2.84	94.86	213.01	313.08	348.17	313.08	213.01	94.86	2.84	94.86
92.5	2.38	83.90	196.57	295.19	329.95	295.19	196.57	83.90	2.38	83.90
95.0	2.21	80.78	191.00	286.38	319.25	286.38	191.00	80.78	2.21	80.78
97.5	2.36	77.61	187.81	282.48	314.18	282.48	187.81	77.61	2.36	77.61
100.0	2.46	74.26	183.39	277.30	308.43	277.30	183.39	74.26	2.46	74.26
102.5	2.61	71.36	179.09	271.33	301.96	271.33	179.09	71.36	2.61	71.36
105.0	2.63	68.57	174.52	264.97	294.52	264.97	174.52	68.57	2.63	68.57
107.5	2.72	65.52	169.67	257.19	285.23	257.19	169.67	65.52	2.72	65.52
110.0	2.79	61.45	164.28	248.09	274.39	248.09	164.28	61.45	2.79	61.45
112.5	2.83	57.17	157.65	237.65	262.69	237.65	157.65	57.17	2.83	57.17
115.0	2.85	53.12	149.37	225.99	249.82	225.99	149.37	53.12	2.85	53.12
117.5	3.04	49.59	139.39	214.34	236.56	214.34	139.39	49.59	3.04	49.59
120.0	3.15	45.86	129.90	202.98	222.98	202.98	129.90	45.86	3.15	45.86
122.5	3.37	42.57	120.37	190.24	208.41	190.24	120.37	42.57	3.37	42.57
125.0	3.55	39.52	110.65	178.10	196.16	178.10	110.65	39.52	3.55	39.52
127.5	3.81	36.00	102.17	167.81	184.20	167.81	102.17	36.00	3.81	36.00
130.0	3.95	32.88	94.30	156.41	172.00	156.41	94.30	32.88	3.95	32.88
132.5	4.24	30.62	86.02	144.50	159.41	144.50	86.02	30.62	4.24	30.62

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135.0	4.39	27.77	78.31	131.70	147.25	131.70	78.31	27.77	4.39	27.77
137.5	4.59	24.79	71.32	119.16	135.45	119.16	71.32	24.79	4.59	24.79
140.0	4.72	21.59	64.12	106.95	123.91	106.95	64.12	21.59	4.72	21.59
142.5	5.02	18.69	57.56	95.23	112.54	95.23	57.56	18.69	5.02	18.69
145.0	5.11	16.25	51.43	84.60	101.41	84.60	51.43	16.25	5.11	16.25
147.5	5.39	14.25	44.84	74.20	90.66	74.20	44.84	14.25	5.39	14.25
150.0	5.55	12.49	38.91	64.30	79.84	64.30	38.91	12.49	5.55	12.49
152.5	5.74	10.76	33.01	54.89	69.37	54.89	33.01	10.76	5.74	10.76
155.0	6.03	9.08	27.09	45.71	59.02	45.71	27.09	9.08	6.03	9.08
157.5	6.14	8.00	21.78	36.81	48.39	36.81	21.78	8.00	6.14	8.00
160.0	6.29	7.33	17.20	27.81	38.10	27.81	17.20	7.33	6.29	7.33
162.5	6.39	7.04	13.52	21.00	29.53	21.00	13.52	7.04	6.39	7.04
165.0	6.56	6.84	10.27	14.76	21.65	14.76	10.27	6.84	6.56	6.84
167.5	6.54	6.65	7.74	10.04	14.28	10.04	7.74	6.65	6.54	6.65
170.0	6.59	6.57	6.73	6.92	9.67	6.92	6.73	6.57	6.59	6.57
172.5	6.63	6.67	6.39	5.41	6.97	5.41	6.39	6.67	6.63	6.67
175.0	6.76	6.53	6.20	5.11	6.43	5.11	6.20	6.53	6.76	6.53
177.5	6.91	6.67	6.06	5.04	5.98	5.04	6.06	6.67	6.91	6.67
180.0	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02

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	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60	1904.60
2.5	1903.32	1904.61	1904.19	1904.61	1903.32	1902.20	1895.26
5.0	1896.99	1900.82	1899.26	1900.82	1896.99	1895.67	1889.81
7.5	1886.12	1891.83	1892.59	1891.83	1886.12	1885.20	1880.30
10.0	1872.93	1882.83	1883.65	1882.83	1872.93	1871.37	1865.12
12.5	1858.43	1868.14	1867.30	1868.14	1858.43	1853.78	1845.41
15.0	1840.29	1849.24	1850.09	1849.24	1840.29	1831.30	1821.04
17.5	1817.41	1828.65	1829.98	1828.65	1817.41	1803.93	1792.54
20.0	1790.95	1807.39	1805.55	1807.39	1790.95	1771.76	1759.35
22.5	1760.94	1780.13	1779.52	1780.13	1760.94	1737.20	1721.19
25.0	1725.80	1746.74	1749.54	1746.74	1725.80	1698.58	1679.84
27.5	1688.12	1710.11	1714.56	1710.11	1688.12	1656.74	1634.41
30.0	1647.33	1670.26	1673.37	1670.26	1647.33	1610.98	1585.23
32.5	1602.18	1627.12	1631.70	1627.12	1602.18	1561.15	1531.07
35.0	1551.33	1580.22	1590.10	1580.22	1551.33	1507.47	1473.92
37.5	1496.87	1533.05	1543.97	1533.05	1496.87	1450.38	1414.34
40.0	1443.14	1485.65	1493.75	1485.65	1443.14	1390.09	1351.93
42.5	1389.28	1433.29	1441.23	1433.29	1389.28	1328.88	1286.21
45.0	1332.14	1375.33	1387.01	1375.33	1332.14	1265.72	1217.51
47.5	1271.07	1316.35	1332.44	1316.35	1271.07	1198.69	1148.23
50.0	1206.31	1258.11	1275.73	1258.11	1206.31	1130.16	1077.88
52.5	1141.14	1197.94	1214.97	1197.94	1141.14	1061.61	1005.75
55.0	1075.01	1132.78	1151.89	1132.78	1075.01	992.61	932.13
57.5	1007.69	1068.05	1087.91	1068.05	1007.69	923.02	857.95
60.0	939.39	1004.72	1026.75	1004.72	939.39	851.67	783.74
62.5	871.83	940.68	963.28	940.68	871.83	779.06	709.32
65.0	803.78	875.34	897.82	875.34	803.78	708.19	635.42
67.5	735.30	807.64	830.91	807.64	735.30	637.81	562.02
70.0	667.65	742.08	767.38	742.08	667.65	567.59	490.14
72.5	602.22	680.79	706.57	680.79	602.22	499.38	419.49
75.0	538.38	620.50	647.39	620.50	538.38	433.26	350.28
77.5	475.44	558.80	587.59	558.80	475.44	368.01	282.66
80.0	413.34	499.67	529.07	499.67	413.34	304.08	217.47

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82.5	352.55	442.48	472.98	442.48	352.55	243.22	155.46
85.0	294.80	386.88	418.01	386.88	294.80	184.91	97.20
87.5	248.71	345.92	378.68	345.92	248.71	132.71	41.55
90.0	213.01	313.08	348.17	313.08	213.01	94.86	2.84
92.5	196.57	295.19	329.95	295.19	196.57	83.90	2.38
95.0	191.00	286.38	319.25	286.38	191.00	80.78	2.21
97.5	187.81	282.48	314.18	282.48	187.81	77.61	2.36
100.0	183.39	277.30	308.43	277.30	183.39	74.26	2.46
102.5	179.09	271.33	301.96	271.33	179.09	71.36	2.61
105.0	174.52	264.97	294.52	264.97	174.52	68.57	2.63
107.5	169.67	257.19	285.23	257.19	169.67	65.52	2.72
110.0	164.28	248.09	274.39	248.09	164.28	61.45	2.79
112.5	157.65	237.65	262.69	237.65	157.65	57.17	2.83
115.0	149.37	225.99	249.82	225.99	149.37	53.12	2.85
117.5	139.39	214.34	236.56	214.34	139.39	49.59	3.04
120.0	129.90	202.98	222.98	202.98	129.90	45.86	3.15
122.5	120.37	190.24	208.41	190.24	120.37	42.57	3.37
125.0	110.65	178.10	196.16	178.10	110.65	39.52	3.55
127.5	102.17	167.81	184.20	167.81	102.17	36.00	3.81
130.0	94.30	156.41	172.00	156.41	94.30	32.88	3.95
132.5	86.02	144.50	159.41	144.50	86.02	30.62	4.24
135.0	78.31	131.70	147.25	131.70	78.31	27.77	4.39
137.5	71.32	119.16	135.45	119.16	71.32	24.79	4.59
140.0	64.12	106.95	123.91	106.95	64.12	21.59	4.72
142.5	57.56	95.23	112.54	95.23	57.56	18.69	5.02
145.0	51.43	84.60	101.41	84.60	51.43	16.25	5.11
147.5	44.84	74.20	90.66	74.20	44.84	14.25	5.39
150.0	38.91	64.30	79.84	64.30	38.91	12.49	5.55
152.5	33.01	54.89	69.37	54.89	33.01	10.76	5.74
155.0	27.09	45.71	59.02	45.71	27.09	9.08	6.03
157.5	21.78	36.81	48.39	36.81	21.78	8.00	6.14
160.0	17.20	27.81	38.10	27.81	17.20	7.33	6.29
162.5	13.52	21.00	29.53	21.00	13.52	7.04	6.39
165.0	10.27	14.76	21.65	14.76	10.27	6.84	6.56
167.5	7.74	10.04	14.28	10.04	7.74	6.65	6.54
170.0	6.73	6.92	9.67	6.92	6.73	6.57	6.59
172.5	6.39	5.41	6.97	5.41	6.39	6.67	6.63
175.0	6.20	5.11	6.43	5.11	6.20	6.53	6.76
177.5	6.06	5.04	5.98	5.04	6.06	6.67	6.91
180.0	6.02	6.02	6.02	6.02	6.02	6.02	6.02

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	699.65	N.A.	10.30
0-30	1493.16	N.A.	22.00
0-40	2458.55	N.A.	36.20
0-60	4424.77	N.A.	65.20
0-80	5758.07	N.A.	84.80
0-90	6072.00	N.A.	89.40
10-90	5891.63	N.A.	86.80
20-40	1758.9	N.A.	25.90
20-50	2776.35	N.A.	40.90
40-70	2746.95	N.A.	40.50
60-80	1333.3	N.A.	19.60
70-80	552.57	N.A.	8.10
80-90	313.93	N.A.	4.60
90-110	371.69	N.A.	5.50
90-120	509.32	N.A.	7.50
90-130	605.95	N.A.	8.90
90-150	699.74	N.A.	10.30
90-180	717.54	N.A.	10.60
110-180	345.85	N.A.	5.10
0-180	6789.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.37
10-20	519.28
20-30	793.51
30-40	965.39
40-50	1017.45
50-60	948.77
60-70	780.73
70-80	552.57
80-90	313.93
90-100	198.49
100-110	173.21
110-120	137.63
120-130	96.64
130-140	61.10
140-150	32.68
150-160	13.62
160-170	3.57
170-180	0.61

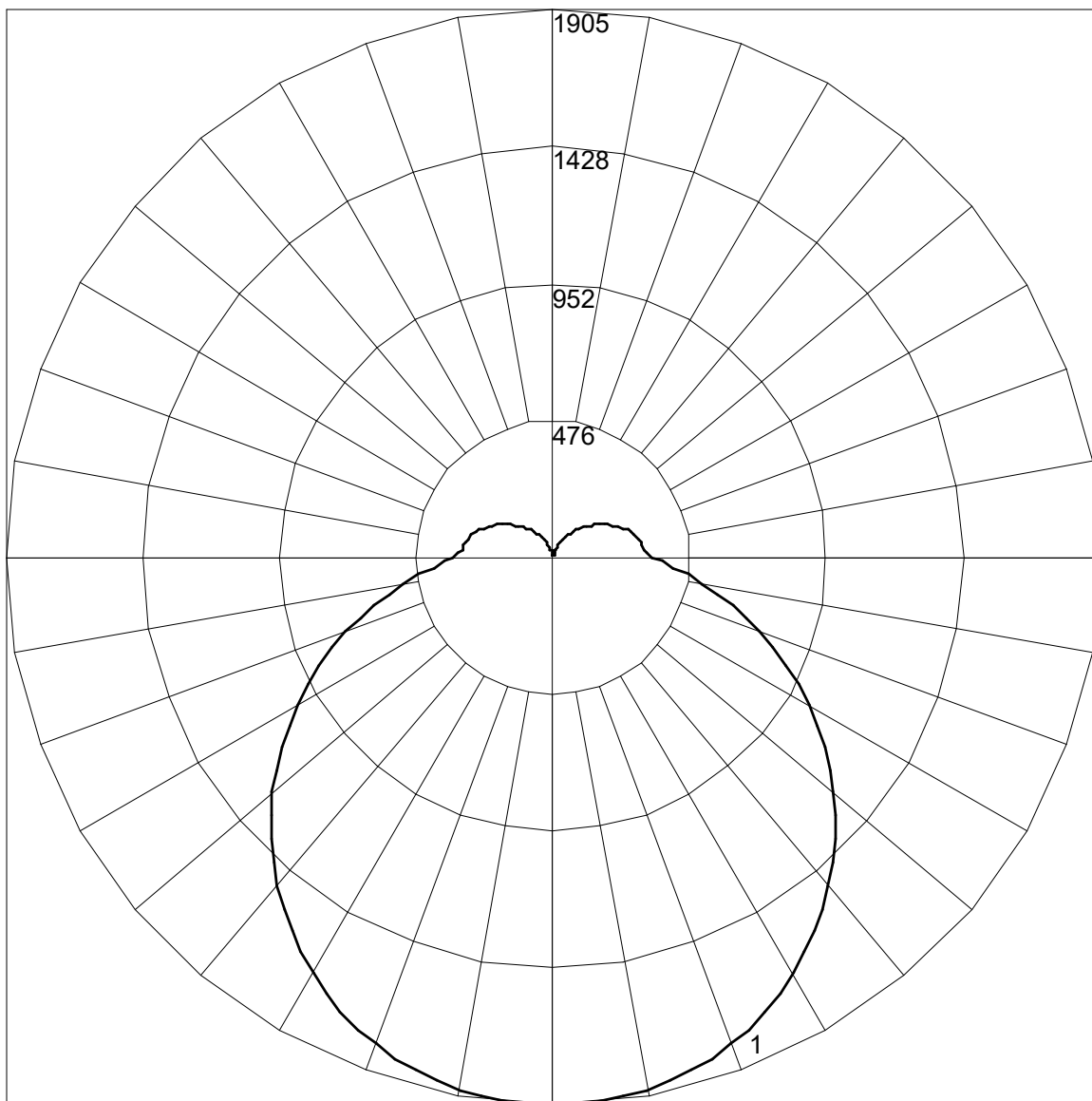
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89
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	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 = 1904.61 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)