

IES INDOOR REPORT

PHOTOMETRIC FILENAME : OWL440L835347.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32897.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 5/29/14
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] OWL440L835-347
[LUMINAIRE] 4'OW WRAP 4-LP3.2 3500K BOARDS 54W DRIVER 4.02K RESISTOR
[LAMP] LED. LUMINAIRE OUTPUT = 3941 LMS
[TEST DATE] 5/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	40.7
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	4048	3946	3997
55	3772	3706	3829
65	3425	3441	3654
75	2957	3165	3536
85	2027	2904	3641

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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	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48
2.5	1111.79	1116.36	1117.43	1119.06	1119.74	1119.06	1117.43	1116.36	1111.79	1116.36
5.0	1108.53	1112.37	1113.64	1116.73	1116.63	1116.73	1113.64	1112.37	1108.53	1112.37
7.5	1103.13	1106.17	1107.11	1111.43	1112.27	1111.43	1107.11	1106.17	1103.13	1106.17
10.0	1093.97	1097.95	1099.38	1105.63	1106.77	1105.63	1099.38	1097.95	1093.97	1097.95
12.5	1082.11	1087.73	1090.88	1096.76	1097.15	1096.76	1090.88	1087.73	1082.11	1087.73
15.0	1067.69	1074.72	1079.65	1085.42	1086.31	1085.42	1079.65	1074.72	1067.69	1074.72
17.5	1050.75	1058.29	1065.80	1073.05	1074.15	1073.05	1065.80	1058.29	1050.75	1058.29
20.0	1030.91	1039.11	1049.98	1060.11	1059.15	1060.11	1049.98	1039.11	1030.91	1039.11
22.5	1007.84	1019.04	1032.06	1043.57	1043.07	1043.57	1032.06	1019.04	1007.84	1019.04
25.0	982.85	996.42	1010.87	1023.18	1024.58	1023.18	1010.87	996.42	982.85	996.42
27.5	955.68	971.31	988.74	1001.02	1003.53	1001.02	988.74	971.31	955.68	971.31
30.0	927.24	944.35	964.63	977.40	979.29	977.40	964.63	944.35	927.24	944.35
32.5	896.95	914.89	938.02	951.81	954.33	951.81	938.02	914.89	896.95	914.89
35.0	863.85	883.40	907.71	924.04	929.45	924.04	907.71	883.40	863.85	883.40
37.5	827.41	849.72	875.26	896.23	902.41	896.23	875.26	849.72	827.41	849.72
40.0	789.77	814.00	843.19	867.95	873.06	867.95	843.19	814.00	789.77	814.00
42.5	751.78	777.47	811.05	837.17	841.71	837.17	811.05	777.47	751.78	777.47
45.0	712.76	740.22	776.98	802.61	809.51	802.61	776.98	740.22	712.76	740.22
47.5	672.54	700.92	740.82	767.56	777.29	767.56	740.82	700.92	672.54	700.92
50.0	631.33	660.39	702.94	733.14	743.98	733.14	702.94	660.39	631.33	660.39
52.5	588.76	619.77	664.59	697.97	708.25	697.97	664.59	619.77	588.76	619.77
55.0	545.51	579.12	625.35	659.70	671.05	659.70	625.35	579.12	545.51	579.12
57.5	502.38	538.01	585.45	621.19	633.26	621.19	585.45	538.01	502.38	538.01
60.0	459.38	496.51	545.72	583.80	596.89	583.80	545.72	496.51	459.38	496.51
62.5	415.84	453.80	506.34	546.01	559.79	546.01	506.34	453.80	415.84	453.80
65.0	372.45	412.09	465.96	507.37	521.23	507.37	465.96	412.09	372.45	412.09
67.5	329.40	370.39	425.66	467.50	482.19	467.50	425.66	370.39	329.40	370.39
70.0	287.49	329.37	386.00	428.69	444.55	428.69	386.00	329.37	287.49	329.37
72.5	246.16	289.67	347.95	392.34	408.55	392.34	347.95	289.67	246.16	289.67
75.0	205.73	251.06	310.27	356.95	373.69	356.95	310.27	251.06	205.73	251.06
77.5	166.10	212.87	273.24	321.05	338.93	321.05	273.24	212.87	166.10	212.87
80.0	128.05	175.10	237.04	286.44	304.42	286.44	237.04	175.10	128.05	175.10
82.5	91.96	138.88	201.52	252.72	270.96	252.72	201.52	138.88	91.96	138.88
85.0	57.37	104.94	167.31	219.33	238.60	219.33	167.31	104.94	57.37	104.94
87.5	24.47	74.04	138.66	194.23	215.41	194.23	138.66	74.04	24.47	74.04
90.0	3.23	50.58	116.88	174.51	197.07	174.51	116.88	50.58	3.23	50.58
92.5	1.30	45.89	109.02	165.06	186.37	165.06	109.02	45.89	1.30	45.89
95.0	1.25	44.16	107.17	161.39	180.58	161.39	107.17	44.16	1.25	44.16
97.5	1.35	42.46	105.37	159.32	178.06	159.32	105.37	42.46	1.35	42.46
100.0	1.44	40.58	102.80	156.60	175.15	156.60	102.80	40.58	1.44	40.58
102.5	1.41	38.98	100.51	153.11	171.49	153.11	100.51	38.98	1.41	38.98
105.0	1.54	37.51	98.02	149.81	167.43	149.81	98.02	37.51	1.54	37.51
107.5	1.57	35.48	95.28	145.40	162.42	145.40	95.28	35.48	1.57	35.48
110.0	1.66	33.37	92.30	140.51	156.55	140.51	92.30	33.37	1.66	33.37
112.5	1.59	30.91	88.28	134.63	149.95	134.63	88.28	30.91	1.59	30.91
115.0	1.60	28.90	83.30	128.28	142.46	128.28	83.30	28.90	1.60	28.90
117.5	1.70	27.06	77.81	121.77	134.92	121.77	77.81	27.06	1.70	27.06
120.0	1.84	24.96	72.54	115.51	127.37	115.51	72.54	24.96	1.84	24.96
122.5	1.86	23.32	67.37	108.52	119.29	108.52	67.37	23.32	1.86	23.32
125.0	1.98	21.39	62.00	101.51	111.87	101.51	62.00	21.39	1.98	21.39
127.5	2.14	19.92	57.26	95.52	105.36	95.52	57.26	19.92	2.14	19.92
130.0	2.25	18.31	52.61	88.63	98.52	88.63	52.61	18.31	2.25	18.31
132.5	2.40	17.01	47.96	81.48	91.34	81.48	47.96	17.01	2.40	17.01

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CANDELA TABULATION - (Cont.)

135.0	2.46	15.46	43.55	73.89	84.56	73.89	43.55	15.46	2.46	15.46
137.5	2.61	13.54	39.70	66.82	77.73	66.82	39.70	13.54	2.61	13.54
140.0	2.70	11.83	35.81	59.91	70.77	59.91	35.81	11.83	2.70	11.83
142.5	2.87	9.95	32.03	53.32	64.19	53.32	32.03	9.95	2.87	9.95
145.0	2.93	8.52	28.57	47.19	57.40	47.19	28.57	8.52	2.93	8.52
147.5	3.05	7.56	25.28	41.46	51.11	41.46	25.28	7.56	3.05	7.56
150.0	3.15	6.63	21.88	35.85	44.81	35.85	21.88	6.63	3.15	6.63
152.5	3.28	5.70	18.79	30.69	38.88	30.69	18.79	5.70	3.28	5.70
155.0	3.30	4.83	15.12	25.58	32.96	25.58	15.12	4.83	3.30	4.83
157.5	3.39	4.34	11.67	20.89	27.30	20.89	11.67	4.34	3.39	4.34
160.0	3.53	3.99	9.30	15.63	21.64	15.63	9.30	3.99	3.53	3.99
162.5	3.62	3.90	7.30	10.76	15.76	10.76	7.30	3.90	3.62	3.90
165.0	3.66	3.78	5.50	7.82	10.99	7.82	5.50	3.78	3.66	3.78
167.5	3.60	3.67	4.15	5.48	7.68	5.48	4.15	3.67	3.60	3.67
170.0	3.72	3.70	3.76	3.79	5.07	3.79	3.76	3.70	3.72	3.70
172.5	3.77	3.67	3.57	3.15	3.45	3.15	3.57	3.67	3.77	3.67
175.0	3.79	3.77	3.44	3.01	3.33	3.01	3.44	3.77	3.79	3.77
177.5	3.89	3.72	3.56	2.98	3.19	2.98	3.56	3.72	3.89	3.72
180.0	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45

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	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48	1118.48
2.5	1117.43	1119.06	1119.74	1119.06	1117.43	1116.36	1111.79
5.0	1113.64	1116.73	1116.63	1116.73	1113.64	1112.37	1108.53
7.5	1107.11	1111.43	1112.27	1111.43	1107.11	1106.17	1103.13
10.0	1099.38	1105.63	1106.77	1105.63	1099.38	1097.95	1093.97
12.5	1090.88	1096.76	1097.15	1096.76	1090.88	1087.73	1082.11
15.0	1079.65	1085.42	1086.31	1085.42	1079.65	1074.72	1067.69
17.5	1065.80	1073.05	1074.15	1073.05	1065.80	1058.29	1050.75
20.0	1049.98	1060.11	1059.15	1060.11	1049.98	1039.11	1030.91
22.5	1032.06	1043.57	1043.07	1043.57	1032.06	1019.04	1007.84
25.0	1010.87	1023.18	1024.58	1023.18	1010.87	996.42	982.85
27.5	988.74	1001.02	1003.53	1001.02	988.74	971.31	955.68
30.0	964.63	977.40	979.29	977.40	964.63	944.35	927.24
32.5	938.02	951.81	954.33	951.81	938.02	914.89	896.95
35.0	907.71	924.04	929.45	924.04	907.71	883.40	863.85
37.5	875.26	896.23	902.41	896.23	875.26	849.72	827.41
40.0	843.19	867.95	873.06	867.95	843.19	814.00	789.77
42.5	811.05	837.17	841.71	837.17	811.05	777.47	751.78
45.0	776.98	802.61	809.51	802.61	776.98	740.22	712.76
47.5	740.82	767.56	777.29	767.56	740.82	700.92	672.54
50.0	702.94	733.14	743.98	733.14	702.94	660.39	631.33
52.5	664.59	697.97	708.25	697.97	664.59	619.77	588.76
55.0	625.35	659.70	671.05	659.70	625.35	579.12	545.51
57.5	585.45	621.19	633.26	621.19	585.45	538.01	502.38
60.0	545.72	583.80	596.89	583.80	545.72	496.51	459.38
62.5	506.34	546.01	559.79	546.01	506.34	453.80	415.84
65.0	465.96	507.37	521.23	507.37	465.96	412.09	372.45
67.5	425.66	467.50	482.19	467.50	425.66	370.39	329.40
70.0	386.00	428.69	444.55	428.69	386.00	329.37	287.49
72.5	347.95	392.34	408.55	392.34	347.95	289.67	246.16
75.0	310.27	356.95	373.69	356.95	310.27	251.06	205.73
77.5	273.24	321.05	338.93	321.05	273.24	212.87	166.10
80.0	237.04	286.44	304.42	286.44	237.04	175.10	128.05

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82.5	201.52	252.72	270.96	252.72	201.52	138.88	91.96
85.0	167.31	219.33	238.60	219.33	167.31	104.94	57.37
87.5	138.66	194.23	215.41	194.23	138.66	74.04	24.47
90.0	116.88	174.51	197.07	174.51	116.88	50.58	3.23
92.5	109.02	165.06	186.37	165.06	109.02	45.89	1.30
95.0	107.17	161.39	180.58	161.39	107.17	44.16	1.25
97.5	105.37	159.32	178.06	159.32	105.37	42.46	1.35
100.0	102.80	156.60	175.15	156.60	102.80	40.58	1.44
102.5	100.51	153.11	171.49	153.11	100.51	38.98	1.41
105.0	98.02	149.81	167.43	149.81	98.02	37.51	1.54
107.5	95.28	145.40	162.42	145.40	95.28	35.48	1.57
110.0	92.30	140.51	156.55	140.51	92.30	33.37	1.66
112.5	88.28	134.63	149.95	134.63	88.28	30.91	1.59
115.0	83.30	128.28	142.46	128.28	83.30	28.90	1.60
117.5	77.81	121.77	134.92	121.77	77.81	27.06	1.70
120.0	72.54	115.51	127.37	115.51	72.54	24.96	1.84
122.5	67.37	108.52	119.29	108.52	67.37	23.32	1.86
125.0	62.00	101.51	111.87	101.51	62.00	21.39	1.98
127.5	57.26	95.52	105.36	95.52	57.26	19.92	2.14
130.0	52.61	88.63	98.52	88.63	52.61	18.31	2.25
132.5	47.96	81.48	91.34	81.48	47.96	17.01	2.40
135.0	43.55	73.89	84.56	73.89	43.55	15.46	2.46
137.5	39.70	66.82	77.73	66.82	39.70	13.54	2.61
140.0	35.81	59.91	70.77	59.91	35.81	11.83	2.70
142.5	32.03	53.32	64.19	53.32	32.03	9.95	2.87
145.0	28.57	47.19	57.40	47.19	28.57	8.52	2.93
147.5	25.28	41.46	51.11	41.46	25.28	7.56	3.05
150.0	21.88	35.85	44.81	35.85	21.88	6.63	3.15
152.5	18.79	30.69	38.88	30.69	18.79	5.70	3.28
155.0	15.12	25.58	32.96	25.58	15.12	4.83	3.30
157.5	11.67	20.89	27.30	20.89	11.67	4.34	3.39
160.0	9.30	15.63	21.64	15.63	9.30	3.99	3.53
162.5	7.30	10.76	15.76	10.76	7.30	3.90	3.62
165.0	5.50	7.82	10.99	7.82	5.50	3.78	3.66
167.5	4.15	5.48	7.68	5.48	4.15	3.67	3.60
170.0	3.76	3.79	5.07	3.79	3.76	3.70	3.72
172.5	3.57	3.15	3.45	3.15	3.57	3.67	3.77
175.0	3.44	3.01	3.33	3.01	3.44	3.77	3.79
177.5	3.56	2.98	3.19	2.98	3.56	3.72	3.89
180.0	3.45	3.45	3.45	3.45	3.45	3.45	3.45

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	410.58	N.A.	10.40
0-30	875.48	N.A.	22.20
0-40	1440.41	N.A.	36.50
0-60	2587.55	N.A.	65.60
0-80	3360.4	N.A.	85.20
0-90	3538.87	N.A.	89.80
10-90	3432.97	N.A.	87.10
20-40	1029.83	N.A.	26.10
20-50	1624.05	N.A.	41.20
40-70	1600.72	N.A.	40.60
60-80	772.85	N.A.	19.60
70-80	319.27	N.A.	8.10
80-90	178.47	N.A.	4.50
90-110	208.62	N.A.	5.30
90-120	286.18	N.A.	7.30
90-130	340.82	N.A.	8.60
90-150	393.49	N.A.	10.00
90-180	403.35	N.A.	10.20
110-180	194.73	N.A.	4.90
0-180	3942.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.90
10-20	304.68
20-30	464.90
30-40	564.93
40-50	594.22
50-60	552.92
60-70	453.58
70-80	319.27
80-90	178.47
90-100	111.13
100-110	97.49
110-120	77.56
120-130	54.64
130-140	34.40
140-150	18.27
150-160	7.60
160-170	1.93
170-180	0.34

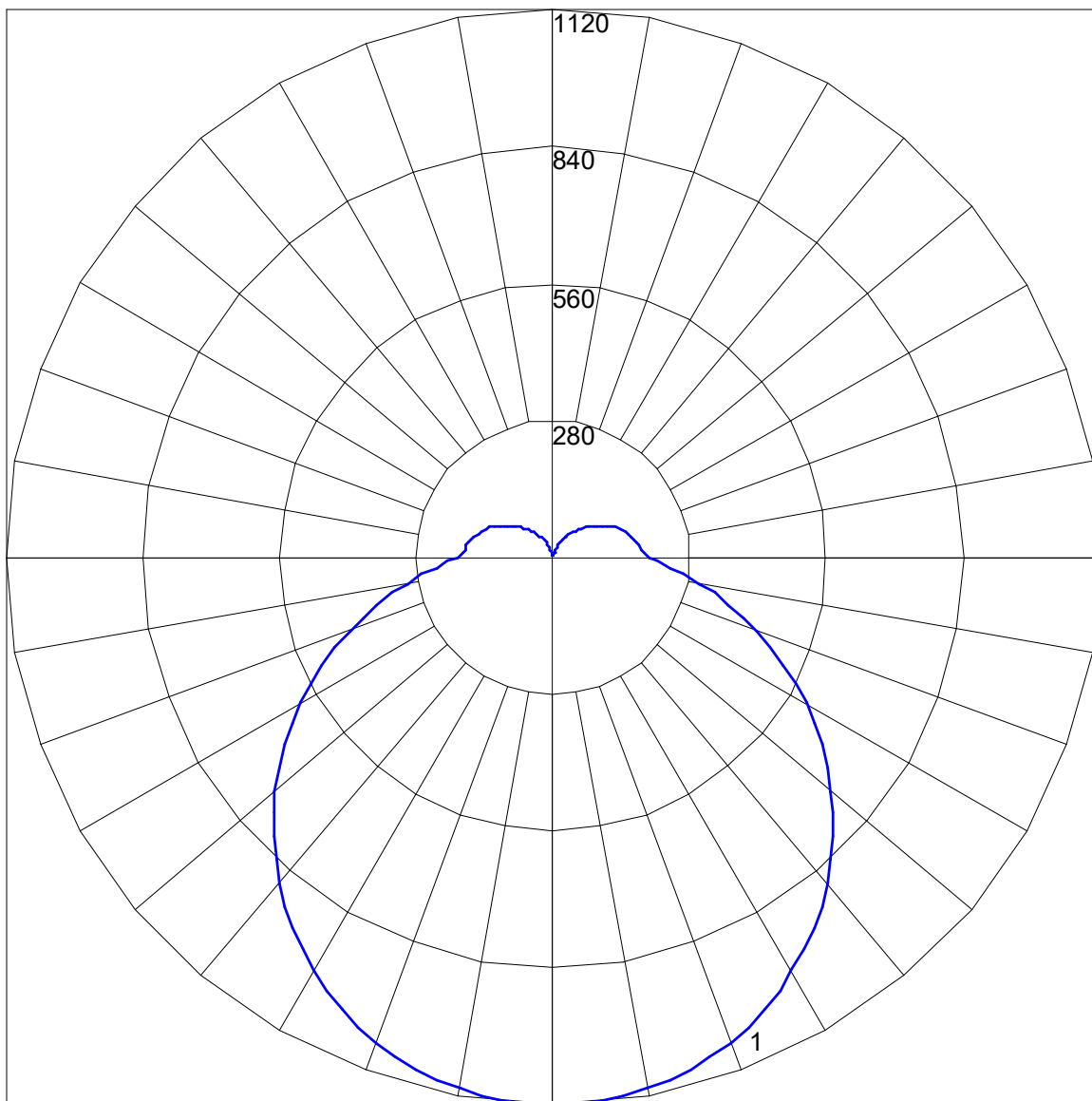
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	93	93	90
1	105	100	95	91	101	96	92	88	90	87	83	84	82	79	79	77	75	72
2	95	86	79	73	91	83	77	71	78	72	68	73	69	65	69	65	62	59
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49
4	79	66	57	50	76	64	56	49	60	53	48	57	51	46	54	48	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	39	35	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	40	34	30	27
8	57	44	35	29	55	43	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	33	27	22	31	26	22	20

POLAR GRAPH



Maximum Candela = 1119.74 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)