

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : OWL230L840UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32778.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 5/9/14
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] Surface Wrap Around OWL230L840UNV
[LUMINAIRE] 2'OW WRAP
[MORE] 2-LP3.6 4000K BOARDS 33W DRIVER 66% FROSTED OPAL LENS
[LAMP] LED. LUMINAIRE OUTPUT = 3205 LMS
[TEST DATE] 5/8/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	33.3
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	6283	6251	6494
55	5578	5683	6116
65	4764	5093	5745
75	3808	4566	5605
85	2220	4236	6145

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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	933.13	933.13	933.13	933.13	933.13	933.13	933.13	933.13	933.13	933.13
2.5	929.47	931.20	932.75	933.77	931.67	933.77	932.75	931.20	929.47	931.20
5.0	925.87	927.56	930.13	932.33	928.75	932.33	930.13	927.56	925.87	927.56
7.5	920.23	921.86	924.96	927.70	925.72	927.70	924.96	921.86	920.23	921.86
10.0	912.69	914.84	918.87	921.71	920.42	921.71	918.87	914.84	912.69	914.84
12.5	903.09	906.43	911.07	914.08	910.44	914.08	911.07	906.43	903.09	906.43
15.0	890.54	895.54	900.27	903.21	902.51	903.21	900.27	895.54	890.54	895.54
17.5	875.90	880.57	886.42	892.63	893.76	892.63	886.42	880.57	875.90	880.57
20.0	858.93	863.38	873.41	882.01	881.22	882.01	873.41	863.38	858.93	863.38
22.5	839.09	846.58	858.78	867.00	866.87	867.00	858.78	846.58	839.09	846.58
25.0	817.31	825.83	839.62	849.19	849.55	849.19	839.62	825.83	817.31	825.83
27.5	793.18	802.74	818.41	829.76	830.96	829.76	818.41	802.74	793.18	802.74
30.0	766.07	777.46	795.55	808.06	809.43	808.06	795.55	777.46	766.07	777.46
32.5	737.43	750.68	771.59	785.15	786.48	785.15	771.59	750.68	737.43	750.68
35.0	706.88	721.43	744.32	760.13	763.62	760.13	744.32	721.43	706.88	721.43
37.5	674.70	691.30	715.87	734.38	739.18	734.38	715.87	691.30	674.70	691.30
40.0	640.60	660.53	687.91	708.31	713.89	708.31	687.91	660.53	640.60	660.53
42.5	604.94	627.12	658.45	680.83	686.66	680.83	658.45	627.12	604.94	627.12
45.0	569.27	592.52	626.71	651.04	657.59	651.04	626.71	592.52	569.27	592.52
47.5	533.14	557.84	594.68	620.65	628.06	620.65	594.68	557.84	533.14	557.84
50.0	495.75	522.44	561.49	590.34	598.69	590.34	561.49	522.44	495.75	522.44
52.5	457.57	486.14	527.06	558.70	567.87	558.70	527.06	486.14	457.57	486.14
55.0	419.88	449.54	491.38	525.03	535.91	525.03	491.38	449.54	419.88	449.54
57.5	382.90	413.58	457.35	491.81	502.71	491.81	457.35	413.58	382.90	413.58
60.0	346.39	378.39	423.50	460.39	471.50	460.39	423.50	378.39	346.39	378.39
62.5	310.39	343.70	390.20	428.93	440.34	428.93	390.20	343.70	310.39	343.70
65.0	274.72	309.28	356.68	397.81	409.71	397.81	356.68	309.28	274.72	309.28
67.5	240.19	275.44	323.53	365.68	378.61	365.68	323.53	275.44	240.19	275.44
70.0	207.41	242.82	292.32	335.28	349.03	335.28	292.32	242.82	207.41	242.82
72.5	175.99	212.95	263.34	307.53	321.68	307.53	263.34	212.95	175.99	212.95
75.0	145.82	183.88	235.09	281.18	296.21	281.18	235.09	183.88	145.82	183.88
77.5	116.84	155.97	207.79	255.28	271.07	255.28	207.79	155.97	116.84	155.97
80.0	89.37	128.99	181.49	230.63	247.23	230.63	181.49	128.99	89.37	128.99
82.5	63.46	103.40	155.89	206.61	223.93	206.61	155.89	103.40	63.46	103.40
85.0	39.43	79.94	132.86	184.09	201.35	184.09	132.86	79.94	39.43	79.94
87.5	16.71	57.71	113.74	168.87	187.45	168.87	113.74	57.71	16.71	57.71
90.0	1.97	41.96	99.17	156.35	176.58	156.35	99.17	41.96	1.97	41.96
92.5	1.04	38.40	94.73	151.76	171.34	151.76	94.73	38.40	1.04	38.40
95.0	1.20	37.31	94.03	151.49	170.59	151.49	94.03	37.31	1.20	37.31
97.5	1.01	36.11	93.48	151.08	169.71	151.08	93.48	36.11	1.01	36.11
100.0	1.02	34.90	92.30	149.40	167.89	149.40	92.30	34.90	1.02	34.90
102.5	1.19	33.89	91.01	146.50	163.93	146.50	91.01	33.89	1.19	33.89
105.0	1.08	32.79	89.63	143.14	159.18	143.14	89.63	32.79	1.08	32.79
107.5	1.30	31.68	87.28	137.79	152.86	137.79	87.28	31.68	1.30	31.68
110.0	1.54	30.52	84.73	131.60	145.31	131.60	84.73	30.52	1.54	30.52
112.5	1.44	29.20	81.25	124.51	137.07	124.51	81.25	29.20	1.44	29.20
115.0	1.50	27.69	77.05	116.43	127.64	116.43	77.05	27.69	1.50	27.69
117.5	1.56	25.96	72.53	108.41	118.61	108.41	72.53	25.96	1.56	25.96
120.0	1.58	24.04	67.99	100.97	110.23	100.97	67.99	24.04	1.58	24.04
122.5	1.52	22.01	63.37	93.56	102.08	93.56	63.37	22.01	1.52	22.01
125.0	1.64	20.13	58.79	86.73	94.29	86.73	58.79	20.13	1.64	20.13
127.5	1.68	18.43	54.18	80.13	87.31	80.13	54.18	18.43	1.68	18.43
130.0	1.76	16.08	49.30	73.69	80.61	73.69	49.30	16.08	1.76	16.08
132.5	1.76	14.42	44.36	67.72	73.99	67.72	44.36	14.42	1.76	14.42

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CANDELA TABULATION - (Cont.)

135.0	1.76	13.15	39.71	61.99	68.18	61.99	39.71	13.15	1.76	13.15
137.5	1.98	11.58	35.50	56.60	62.26	56.60	35.50	11.58	1.98	11.58
140.0	2.08	9.81	31.55	51.30	56.51	51.30	31.55	9.81	2.08	9.81
142.5	2.24	7.70	27.81	46.17	50.88	46.17	27.81	7.70	2.24	7.70
145.0	2.46	6.34	24.53	41.40	45.72	41.40	24.53	6.34	2.46	6.34
147.5	2.63	5.23	21.12	36.67	40.73	36.67	21.12	5.23	2.63	5.23
150.0	2.71	4.58	17.56	32.00	35.63	32.00	17.56	4.58	2.71	4.58
152.5	2.71	4.33	14.84	27.17	30.76	27.17	14.84	4.33	2.71	4.33
155.0	3.04	4.36	11.84	22.47	25.91	22.47	11.84	4.36	3.04	4.36
157.5	2.98	4.10	8.38	17.90	21.07	17.90	8.38	4.10	2.98	4.10
160.0	3.02	3.79	6.19	12.91	15.94	12.91	6.19	3.79	3.02	3.79
162.5	3.31	3.57	5.02	7.81	10.92	7.81	5.02	3.57	3.31	3.57
165.0	3.30	3.13	4.24	5.23	7.05	5.23	4.24	3.13	3.30	3.13
167.5	3.23	3.28	3.75	3.91	4.68	3.91	3.75	3.28	3.23	3.28
170.0	3.30	3.15	3.07	2.99	3.29	2.99	3.07	3.15	3.30	3.15
172.5	3.28	3.31	2.97	2.65	2.69	2.65	2.97	3.31	3.28	3.31
175.0	3.32	3.22	3.02	2.57	2.63	2.57	3.02	3.22	3.32	3.22
177.5	3.24	3.28	2.95	2.51	2.42	2.51	2.95	3.28	3.24	3.28
180.0	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91

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	933.13	933.13	933.13	933.13	933.13	933.13	933.13
2.5	932.75	933.77	931.67	933.77	932.75	931.20	929.47
5.0	930.13	932.33	928.75	932.33	930.13	927.56	925.87
7.5	924.96	927.70	925.72	927.70	924.96	921.86	920.23
10.0	918.87	921.71	920.42	921.71	918.87	914.84	912.69
12.5	911.07	914.08	910.44	914.08	911.07	906.43	903.09
15.0	900.27	903.21	902.51	903.21	900.27	895.54	890.54
17.5	886.42	892.63	893.76	892.63	886.42	880.57	875.90
20.0	873.41	882.01	881.22	882.01	873.41	863.38	858.93
22.5	858.78	867.00	866.87	867.00	858.78	846.58	839.09
25.0	839.62	849.19	849.55	849.19	839.62	825.83	817.31
27.5	818.41	829.76	830.96	829.76	818.41	802.74	793.18
30.0	795.55	808.06	809.43	808.06	795.55	777.46	766.07
32.5	771.59	785.15	786.48	785.15	771.59	750.68	737.43
35.0	744.32	760.13	763.62	760.13	744.32	721.43	706.88
37.5	715.87	734.38	739.18	734.38	715.87	691.30	674.70
40.0	687.91	708.31	713.89	708.31	687.91	660.53	640.60
42.5	658.45	680.83	686.66	680.83	658.45	627.12	604.94
45.0	626.71	651.04	657.59	651.04	626.71	592.52	569.27
47.5	594.68	620.65	628.06	620.65	594.68	557.84	533.14
50.0	561.49	590.34	598.69	590.34	561.49	522.44	495.75
52.5	527.06	558.70	567.87	558.70	527.06	486.14	457.57
55.0	491.38	525.03	535.91	525.03	491.38	449.54	419.88
57.5	457.35	491.81	502.71	491.81	457.35	413.58	382.90
60.0	423.50	460.39	471.50	460.39	423.50	378.39	346.39
62.5	390.20	428.93	440.34	428.93	390.20	343.70	310.39
65.0	356.68	397.81	409.71	397.81	356.68	309.28	274.72
67.5	323.53	365.68	378.61	365.68	323.53	275.44	240.19
70.0	292.32	335.28	349.03	335.28	292.32	242.82	207.41
72.5	263.34	307.53	321.68	307.53	263.34	212.95	175.99
75.0	235.09	281.18	296.21	281.18	235.09	183.88	145.82
77.5	207.79	255.28	271.07	255.28	207.79	155.97	116.84
80.0	181.49	230.63	247.23	230.63	181.49	128.99	89.37

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82.5	155.89	206.61	223.93	206.61	155.89	103.40	63.46
85.0	132.86	184.09	201.35	184.09	132.86	79.94	39.43
87.5	113.74	168.87	187.45	168.87	113.74	57.71	16.71
90.0	99.17	156.35	176.58	156.35	99.17	41.96	1.97
92.5	94.73	151.76	171.34	151.76	94.73	38.40	1.04
95.0	94.03	151.49	170.59	151.49	94.03	37.31	1.20
97.5	93.48	151.08	169.71	151.08	93.48	36.11	1.01
100.0	92.30	149.40	167.89	149.40	92.30	34.90	1.02
102.5	91.01	146.50	163.93	146.50	91.01	33.89	1.19
105.0	89.63	143.14	159.18	143.14	89.63	32.79	1.08
107.5	87.28	137.79	152.86	137.79	87.28	31.68	1.30
110.0	84.73	131.60	145.31	131.60	84.73	30.52	1.54
112.5	81.25	124.51	137.07	124.51	81.25	29.20	1.44
115.0	77.05	116.43	127.64	116.43	77.05	27.69	1.50
117.5	72.53	108.41	118.61	108.41	72.53	25.96	1.56
120.0	67.99	100.97	110.23	100.97	67.99	24.04	1.58
122.5	63.37	93.56	102.08	93.56	63.37	22.01	1.52
125.0	58.79	86.73	94.29	86.73	58.79	20.13	1.64
127.5	54.18	80.13	87.31	80.13	54.18	18.43	1.68
130.0	49.30	73.69	80.61	73.69	49.30	16.08	1.76
132.5	44.36	67.72	73.99	67.72	44.36	14.42	1.76
135.0	39.71	61.99	68.18	61.99	39.71	13.15	1.76
137.5	35.50	56.60	62.26	56.60	35.50	11.58	1.98
140.0	31.55	51.30	56.51	51.30	31.55	9.81	2.08
142.5	27.81	46.17	50.88	46.17	27.81	7.70	2.24
145.0	24.53	41.40	45.72	41.40	24.53	6.34	2.46
147.5	21.12	36.67	40.73	36.67	21.12	5.23	2.63
150.0	17.56	32.00	35.63	32.00	17.56	4.58	2.71
152.5	14.84	27.17	30.76	27.17	14.84	4.33	2.71
155.0	11.84	22.47	25.91	22.47	11.84	4.36	3.04
157.5	8.38	17.90	21.07	17.90	8.38	4.10	2.98
160.0	6.19	12.91	15.94	12.91	6.19	3.79	3.02
162.5	5.02	7.81	10.92	7.81	5.02	3.57	3.31
165.0	4.24	5.23	7.05	5.23	4.24	3.13	3.30
167.5	3.75	3.91	4.68	3.91	3.75	3.28	3.23
170.0	3.07	2.99	3.29	2.99	3.07	3.15	3.30
172.5	2.97	2.65	2.69	2.65	2.97	3.31	3.28
175.0	3.02	2.57	2.63	2.57	3.02	3.22	3.32
177.5	2.95	2.51	2.42	2.51	2.95	3.28	3.24
180.0	2.91	2.91	2.91	2.91	2.91	2.91	2.91

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	342.06	N.A.	10.70
0-30	727.62	N.A.	22.70
0-40	1190.77	N.A.	37.20
0-60	2105.00	N.A.	65.70
0-80	2697.28	N.A.	84.20
0-90	2841.56	N.A.	88.70
10-90	2753.22	N.A.	85.90
20-40	848.71	N.A.	26.50
20-50	1327.86	N.A.	41.40
40-70	1262.57	N.A.	39.40
60-80	592.28	N.A.	18.50
70-80	243.94	N.A.	7.60
80-90	144.28	N.A.	4.50
90-110	191.81	N.A.	6.00
90-120	262.74	N.A.	8.20
90-130	310.90	N.A.	9.70
90-150	355.48	N.A.	11.10
90-180	363.49	N.A.	11.30
110-180	171.68	N.A.	5.40
0-180	3205.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.34
10-20	253.72
20-30	385.55
30-40	463.15
40-50	479.16
50-60	435.08
60-70	348.33
70-80	243.94
80-90	144.28
90-100	100.91
100-110	90.90
110-120	70.93
120-130	48.15
130-140	29.25
140-150	15.34
150-160	6.26
160-170	1.46
170-180	0.29

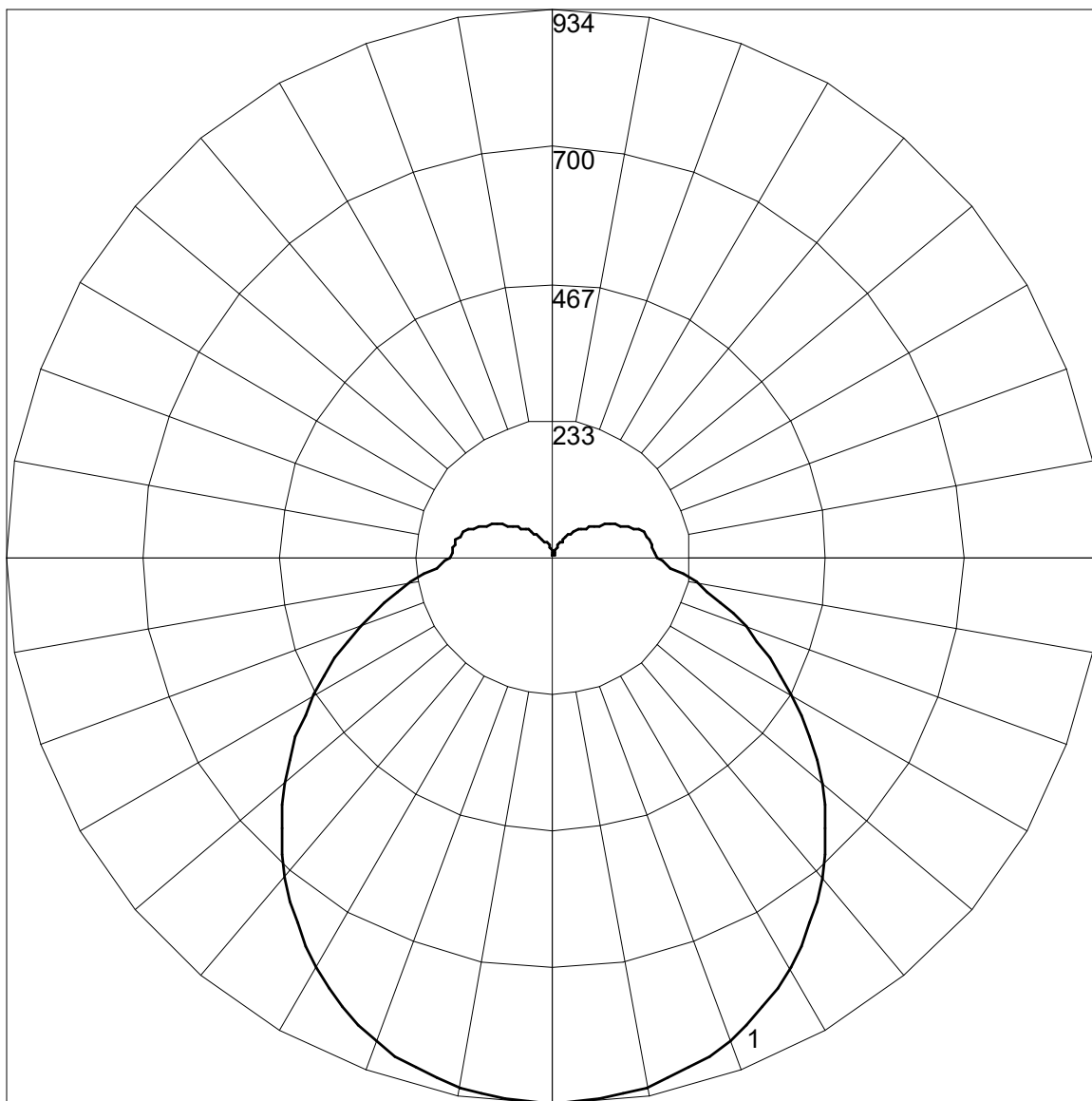
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	68	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	53	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 = 933.77 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)