



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OLV-40-LED35-SO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] OLV-40-LED35-SO-FWA-D9

[TESTLAB] Intertek

[ISSUE DATE] August 7, 2017

[MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	153
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	3.08 ft (Diameter)
Luminous Width (90-270)	3.08 ft (Diameter)
Luminous Height	0.58 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2964	2961	3004
55	2636	2612	2654
65	2208	2170	2212
75	1621	1575	1619
85	694	699	723

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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	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683
2.5	2784.871	2789.761	2792.614	2795.548	2796.102	2796.998	2797.064	2796.884	2793.168	2796.884
5.0	2772.874	2778.368	2778.775	2783.763	2785.882	2789.500	2789.077	2791.000	2784.920	2791.000
7.5	2753.657	2755.189	2759.900	2763.779	2769.077	2771.554	2774.586	2776.982	2770.886	2776.982
10.0	2727.723	2727.886	2731.864	2738.237	2742.850	2749.451	2752.222	2754.716	2749.728	2754.716
12.5	2695.172	2695.482	2698.530	2707.251	2712.108	2719.313	2725.050	2730.967	2723.600	2730.967
15.0	2656.655	2655.645	2661.513	2670.364	2677.128	2685.898	2692.727	2696.949	2692.287	2696.949
17.5	2614.438	2612.678	2616.720	2626.989	2634.390	2645.131	2652.417	2659.475	2651.700	2659.475
20.0	2563.811	2562.197	2567.560	2576.574	2585.832	2598.318	2607.429	2614.650	2607.332	2614.650
22.5	2506.810	2506.793	2512.645	2522.767	2531.227	2545.767	2555.058	2566.027	2556.834	2566.027
25.0	2448.097	2445.815	2452.889	2460.697	2471.276	2484.283	2498.138	2505.766	2500.175	2505.766
27.5	2382.978	2382.685	2385.994	2395.986	2406.499	2422.457	2434.275	2446.255	2437.420	2446.255
30.0	2308.487	2312.073	2315.301	2328.047	2338.740	2354.714	2369.629	2380.370	2371.601	2380.370
32.5	2235.415	2238.446	2239.832	2253.899	2265.814	2280.354	2297.501	2311.275	2298.870	2311.275
35.0	2162.651	2156.702	2162.635	2172.056	2187.118	2203.760	2220.402	2234.111	2221.608	2234.111
37.5	2084.754	2073.295	2078.772	2090.149	2104.248	2120.565	2137.778	2152.105	2140.060	2152.105
40.0	1995.576	1984.427	1987.834	1999.847	2016.098	2034.370	2051.665	2065.846	2053.914	2065.846
42.5	1902.601	1896.000	1898.021	1909.789	1922.715	1940.922	1960.140	1973.033	1962.357	1973.033
45.0	1806.024	1804.524	1803.774	1814.793	1830.360	1848.534	1866.757	1880.678	1867.035	1880.678
47.5	1715.102	1706.431	1704.687	1716.781	1729.837	1749.886	1766.904	1782.095	1768.713	1782.095
50.0	1619.486	1605.012	1605.566	1614.238	1630.603	1647.783	1668.223	1681.329	1668.598	1681.329
52.5	1519.942	1503.463	1503.039	1510.635	1525.973	1545.028	1564.148	1576.780	1566.137	1576.780
55.0	1410.977	1398.768	1398.263	1406.771	1420.561	1439.600	1455.345	1472.249	1456.747	1472.249
57.5	1301.751	1290.422	1292.280	1299.680	1316.192	1330.602	1348.043	1362.598	1351.596	1362.598
60.0	1194.757	1185.727	1184.554	1193.078	1206.102	1222.761	1238.001	1250.666	1238.132	1250.666
62.5	1090.388	1077.316	1077.251	1083.771	1096.045	1109.541	1126.346	1140.544	1128.693	1140.544
65.0	982.385	965.286	965.645	972.686	984.357	997.527	1014.838	1028.791	1015.245	1028.791
67.5	873.305	856.598	856.451	864.552	876.158	887.470	900.542	913.550	901.879	913.550
70.0	760.281	750.224	747.045	752.995	766.214	775.081	791.218	801.275	788.480	801.275
72.5	655.244	641.780	643.084	645.887	658.764	667.632	679.954	689.604	677.379	689.604
75.0	553.043	537.378	537.623	541.926	552.407	558.405	569.962	581.894	565.105	581.894
77.5	449.098	432.146	435.471	438.323	449.701	455.259	462.578	471.559	455.145	471.559
80.0	346.717	332.096	332.438	335.666	344.321	350.368	356.872	364.354	352.210	364.354
82.5	247.890	236.709	237.801	240.881	247.874	253.041	257.295	262.903	247.141	262.903
85.0	157.605	147.971	158.680	163.913	164.320	159.447	160.832	165.836	153.155	165.836
87.5	74.263	67.889	76.382	81.516	84.923	77.572	75.306	77.604	65.770	77.604
90.0	45.868	35.355	38.941	54.882	32.861	50.693	42.217	43.179	60.506	43.179
92.5	56.577	60.995	69.634	70.481	62.038	63.195	63.130	61.744	66.667	61.744
95.0	70.775	77.115	84.010	84.173	76.594	75.029	74.426	73.774	78.436	73.774
97.5	87.221	95.322	100.734	99.919	94.214	90.383	90.025	89.911	93.399	89.911
100.0	105.331	113.676	117.686	117.164	113.057	107.124	106.602	108.020	111.215	108.020
102.5	123.896	131.671	134.948	135.192	132.030	125.037	123.913	125.640	128.966	125.640
105.0	142.821	150.465	153.220	154.084	152.242	144.190	142.462	143.913	147.270	143.913
107.5	162.951	170.579	172.910	174.345	173.302	164.663	162.364	163.929	167.205	163.929
110.0	184.679	192.112	193.840	195.828	195.078	186.586	183.734	184.353	188.493	184.353
112.5	207.646	213.693	215.877	218.094	218.273	209.227	206.276	207.923	210.661	207.923
115.0	231.052	235.975	238.518	240.735	238.762	232.096	229.113	229.488	233.823	229.488
117.5	254.101	259.137	261.485	263.701	266.472	255.649	252.438	252.438	257.507	252.438
120.0	277.540	283.571	284.794	287.287	290.841	279.855	276.220	277.589	281.338	277.589
122.5	302.642	307.532	308.738	311.477	314.003	304.500	300.425	302.756	305.560	302.756
125.0	326.815	332.047	332.976	335.796	335.112	329.146	325.152	325.592	330.287	325.592
127.5	350.401	354.932	357.133	359.774	361.061	353.319	350.694	348.755	355.405	348.755
130.0	374.704	378.551	380.768	383.262	383.865	377.410	373.824	373.221	379.871	373.221
132.5	399.415	401.811	403.816	406.522	407.500	401.485	397.361	396.155	403.735	396.155

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CANDELA TABULATION - (Cont.)

135.0	423.034	425.544	426.424	429.749	432.423	425.104	420.605	419.758	427.451	419.758
137.5	444.876	448.217	448.674	452.178	457.443	447.940	443.523	443.702	450.744	443.702
140.0	467.174	471.070	470.451	473.743	481.388	470.239	465.642	467.549	472.993	467.549
142.5	490.532	492.928	491.575	494.428	501.176	491.869	486.767	489.717	494.151	489.717
145.0	510.174	512.472	510.434	514.721	519.122	512.912	507.305	508.886	514.558	508.886
147.5	527.712	529.277	529.114	533.825	537.329	531.983	527.435	526.930	534.167	526.930
150.0	545.235	547.158	546.849	551.152	555.015	549.946	545.528	544.469	552.407	544.469
152.5	562.040	563.524	563.393	567.142	570.989	565.838	562.122	561.095	568.446	561.095
155.0	577.770	578.634	578.650	582.546	585.855	581.649	577.688	576.026	583.573	576.026
157.5	592.163	592.782	592.766	596.841	600.313	596.335	592.554	590.109	597.900	590.109
160.0	605.366	605.594	605.741	609.848	613.548	609.506	606.083	603.296	610.761	603.296
162.5	617.265	616.857	617.183	621.323	625.252	621.177	617.884	614.950	622.236	614.950
165.0	627.599	626.539	627.208	631.462	635.521	631.527	627.957	625.138	632.130	625.138
167.5	636.319	635.097	635.814	640.215	644.583	640.329	636.613	634.037	640.655	634.037
170.0	643.899	642.253	642.953	647.632	652.114	648.088	644.094	641.535	647.306	641.535
172.5	650.044	647.974	649.066	653.451	657.966	654.005	649.914	647.485	653.141	647.485
175.0	654.412	651.984	653.271	657.819	662.236	658.324	654.005	651.772	656.808	651.772
177.5	657.395	654.478	655.993	660.655	664.812	660.606	656.075	654.184	658.618	654.184
180.0	658.993	658.993	658.993	658.993	658.993	658.993	658.993	658.993	658.993	658.993

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	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683	2797.683
2.5	2797.064	2796.998	2796.102	2795.548	2792.614	2789.761	2784.871
5.0	2789.077	2789.500	2785.882	2783.763	2778.775	2778.368	2772.874
7.5	2774.586	2771.554	2769.077	2763.779	2759.900	2755.189	2753.657
10.0	2752.222	2749.451	2742.850	2738.237	2731.864	2727.886	2727.723
12.5	2725.050	2719.313	2712.108	2707.251	2698.530	2695.482	2695.172
15.0	2692.727	2685.898	2677.128	2670.364	2661.513	2655.645	2656.655
17.5	2652.417	2645.131	2634.390	2626.989	2616.720	2612.678	2614.438
20.0	2607.429	2598.318	2585.832	2576.574	2567.560	2562.197	2563.811
22.5	2555.058	2545.767	2531.227	2522.767	2512.645	2506.793	2506.810
25.0	2498.138	2484.283	2471.276	2460.697	2452.889	2445.815	2448.097
27.5	2434.275	2422.457	2406.499	2395.986	2385.994	2382.685	2382.978
30.0	2369.629	2354.714	2338.740	2328.047	2315.301	2312.073	2308.487
32.5	2297.501	2280.354	2265.814	2253.899	2239.832	2238.446	2235.415
35.0	2220.402	2203.760	2187.118	2172.056	2162.635	2156.702	2162.651
37.5	2137.778	2120.565	2104.248	2090.149	2078.772	2073.295	2084.754
40.0	2051.665	2034.370	2016.098	1999.847	1987.834	1984.427	1995.576
42.5	1960.140	1940.922	1922.715	1909.789	1898.021	1896.000	1902.601
45.0	1866.757	1848.534	1830.360	1814.793	1803.774	1804.524	1806.024
47.5	1766.904	1749.886	1729.837	1716.781	1704.687	1706.431	1715.102
50.0	1668.223	1647.783	1630.603	1614.238	1605.566	1605.012	1619.486
52.5	1564.148	1545.028	1525.973	1510.635	1503.039	1503.463	1519.942
55.0	1455.345	1439.600	1420.561	1406.771	1398.263	1398.768	1410.977
57.5	1348.043	1330.602	1316.192	1299.680	1292.280	1290.422	1301.751
60.0	1238.001	1222.761	1206.102	1193.078	1184.554	1185.727	1194.757
62.5	1126.346	1109.541	1096.045	1083.771	1077.251	1077.316	1090.388
65.0	1014.838	997.527	984.357	972.686	965.645	965.286	982.385
67.5	900.542	887.470	876.158	864.552	856.451	856.598	873.305
70.0	791.218	775.081	766.214	752.995	747.045	750.224	760.281
72.5	679.954	667.632	658.764	645.887	643.084	641.780	655.244
75.0	569.962	558.405	552.407	541.926	537.623	537.378	553.043
77.5	462.578	455.259	449.701	438.323	435.471	432.146	449.098
80.0	356.872	350.368	344.321	335.666	332.438	332.096	346.717

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CANDELA TABULATION - (Cont.)

82.5	257.295	253.041	247.874	240.881	237.801	236.709	247.890
85.0	160.832	159.447	164.320	163.913	158.680	147.971	157.605
87.5	75.306	77.572	84.923	81.516	76.382	67.889	74.263
90.0	42.217	50.693	32.861	54.882	38.941	35.355	45.868
92.5	63.130	63.195	62.038	70.481	69.634	60.995	56.577
95.0	74.426	75.029	76.594	84.173	84.010	77.115	70.775
97.5	90.025	90.383	94.214	99.919	100.734	95.322	87.221
100.0	106.602	107.124	113.057	117.164	117.686	113.676	105.331
102.5	123.913	125.037	132.030	135.192	134.948	131.671	123.896
105.0	142.462	144.190	152.242	154.084	153.220	150.465	142.821
107.5	162.364	164.663	173.302	174.345	172.910	170.579	162.951
110.0	183.734	186.586	195.078	195.828	193.840	192.112	184.679
112.5	206.276	209.227	218.273	218.094	215.877	213.693	207.646
115.0	229.113	232.096	238.762	240.735	238.518	235.975	231.052
117.5	252.438	255.649	266.472	263.701	261.485	259.137	254.101
120.0	276.220	279.855	290.841	287.287	284.794	283.571	277.540
122.5	300.425	304.500	314.003	311.477	308.738	307.532	302.642
125.0	325.152	329.146	335.112	335.796	332.976	332.047	326.815
127.5	350.694	353.319	361.061	359.774	357.133	354.932	350.401
130.0	373.824	377.410	383.865	383.262	380.768	378.551	374.704
132.5	397.361	401.485	407.500	406.522	403.816	401.811	399.415
135.0	420.605	425.104	432.423	429.749	426.424	425.544	423.034
137.5	443.523	447.940	457.443	452.178	448.674	448.217	444.876
140.0	465.642	470.239	481.388	473.743	470.451	471.070	467.174
142.5	486.767	491.869	501.176	494.428	491.575	492.928	490.532
145.0	507.305	512.912	519.122	514.721	510.434	512.472	510.174
147.5	527.435	531.983	537.329	533.825	529.114	529.277	527.712
150.0	545.528	549.946	555.015	551.152	546.849	547.158	545.235
152.5	562.122	565.838	570.989	567.142	563.393	563.524	562.040
155.0	577.688	581.649	585.855	582.546	578.650	578.634	577.770
157.5	592.554	596.335	600.313	596.841	592.766	592.782	592.163
160.0	606.083	609.506	613.548	609.848	605.741	605.594	605.366
162.5	617.884	621.177	625.252	621.323	617.183	616.857	617.265
165.0	627.957	631.527	635.521	631.462	627.208	626.539	627.599
167.5	636.613	640.329	644.583	640.215	635.814	635.097	636.319
170.0	644.094	648.088	652.114	647.632	642.953	642.253	643.899
172.5	649.914	654.005	657.966	653.451	649.066	647.974	650.044
175.0	654.005	658.324	662.236	657.819	653.271	651.984	654.412
177.5	656.075	660.606	664.812	660.655	655.993	654.478	657.395
180.0	658.993	658.993	658.993	658.993	658.993	658.993	658.993

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1019.68	N.A.	10.30
0-30	2160.03	N.A.	21.80
0-40	3530.37	N.A.	35.70
0-60	6222.21	N.A.	62.80
0-80	7789.84	N.A.	78.70
0-90	7974.56	N.A.	80.50
10-90	7710.13	N.A.	77.90
20-40	2510.69	N.A.	25.40
20-50	3926.01	N.A.	39.60
40-70	3672.95	N.A.	37.10
60-80	1567.63	N.A.	15.80
70-80	586.52	N.A.	5.90
80-90	184.72	N.A.	1.90
90-110	242.80	N.A.	2.50
90-120	475.84	N.A.	4.80
90-130	771.65	N.A.	7.80
90-150	1420.37	N.A.	14.30
90-180	1927.62	N.A.	19.50
110-180	1684.83	N.A.	17.00
0-180	9902.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	264.43
10-20	755.25
20-30	1140.35
30-40	1370.34
40-50	1415.32
50-60	1276.52
60-70	981.10
70-80	586.52
80-90	184.72
90-100	85.32
100-110	157.48
110-120	233.04
120-130	295.81
130-140	328.39
140-150	320.33
150-160	267.42
160-170	177.58
170-180	62.26

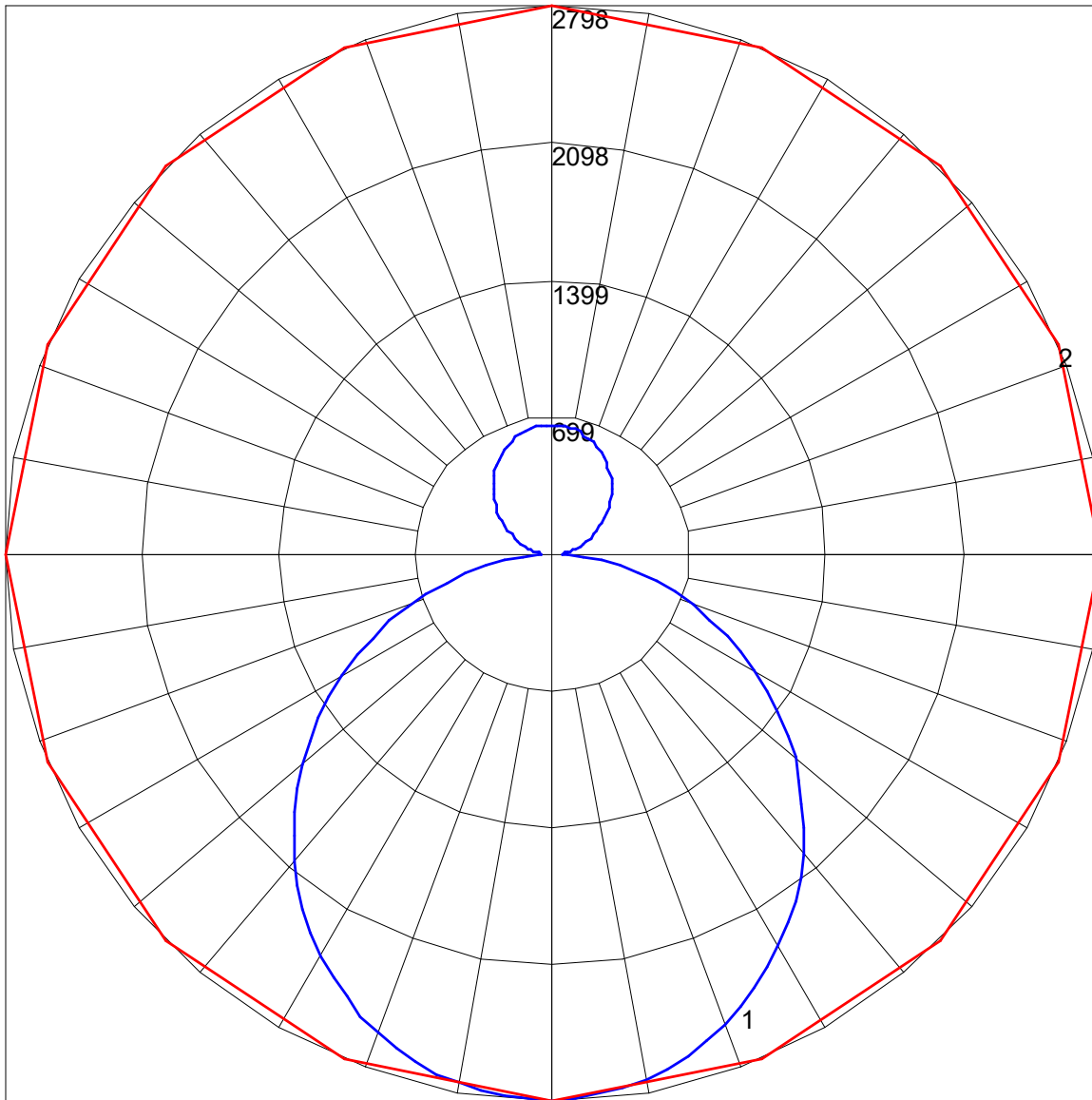
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	81
1	104	99	95	91	100	95	92	88	88	85	82	80	78	76	74	72	70	67
2	95	87	80	74	90	83	77	72	76	72	67	70	66	63	65	61	59	56
3	86	76	68	62	82	73	66	60	67	61	56	62	57	53	57	53	50	47
4	79	67	59	52	75	65	57	51	60	53	48	55	50	45	51	46	43	40
5	72	60	51	45	69	58	50	44	53	47	41	49	44	39	46	41	37	34
6	67	54	45	39	64	52	44	38	48	41	36	45	39	34	41	36	32	30
7	62	49	40	34	59	47	39	33	44	37	32	41	35	30	38	33	29	27
8	57	44	36	30	55	43	35	30	40	33	28	37	31	27	35	30	26	24
9	54	41	33	27	51	39	32	27	37	30	25	34	28	24	32	27	23	21
10	50	37	30	25	48	36	29	24	34	27	23	32	26	22	30	25	21	19

POLAR GRAPH



Maximum Candela = 2797.683 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)