



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] OLV-40-LED35-HO-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	13790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	218
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	4128	4123	4184
55	3671	3638	3696
65	3074	3022	3080
75	2257	2194	2254
85	966	973	1008

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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	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160
2.5	3878.318	3885.128	3889.100	3893.186	3893.958	3895.206	3895.297	3895.048	3889.872	3895.048
5.0	3861.610	3869.260	3869.828	3876.774	3879.725	3884.764	3884.174	3886.853	3878.386	3886.853
7.5	3834.847	3836.981	3843.541	3848.944	3856.321	3859.772	3863.994	3867.331	3858.841	3867.331
10.0	3798.731	3798.958	3804.497	3813.373	3819.797	3828.991	3832.850	3836.323	3829.376	3836.323
12.5	3753.400	3753.831	3758.076	3770.220	3776.985	3787.018	3795.009	3803.249	3792.988	3803.249
15.0	3699.759	3698.352	3706.524	3718.850	3728.271	3740.483	3749.995	3755.874	3749.382	3755.874
17.5	3640.966	3638.515	3644.144	3658.445	3668.751	3683.711	3693.857	3703.687	3692.859	3703.687
20.0	3570.460	3568.213	3575.681	3588.234	3601.128	3618.516	3631.205	3641.262	3631.069	3641.262
22.5	3491.078	3491.056	3499.205	3513.302	3525.083	3545.331	3558.270	3573.547	3560.745	3573.547
25.0	3409.313	3406.135	3415.987	3426.860	3441.592	3459.707	3479.002	3489.626	3481.839	3489.626
27.5	3318.626	3318.218	3322.826	3336.741	3351.383	3373.606	3390.063	3406.748	3394.444	3406.748
30.0	3214.887	3219.881	3224.376	3242.127	3257.019	3279.265	3300.035	3314.994	3302.782	3314.994
32.5	3113.123	3117.346	3119.275	3138.865	3155.459	3175.707	3199.588	3218.769	3201.494	3218.769
35.0	3011.791	3003.505	3011.768	3024.888	3045.863	3069.040	3092.217	3111.307	3093.896	3111.307
37.5	2903.307	2887.349	2894.976	2910.821	2930.456	2953.179	2977.150	2997.104	2980.328	2997.104
40.0	2779.116	2763.589	2768.333	2785.063	2807.695	2833.142	2857.226	2876.975	2860.359	2876.975
42.5	2649.635	2640.441	2643.256	2659.645	2677.647	2703.002	2729.766	2747.721	2732.853	2747.721
45.0	2515.137	2513.049	2512.005	2527.350	2549.028	2574.339	2599.717	2619.103	2600.103	2619.103
47.5	2388.517	2376.440	2374.011	2390.855	2409.037	2436.958	2460.657	2481.814	2463.177	2481.814
50.0	2255.358	2235.201	2235.973	2248.049	2270.840	2294.766	2323.231	2341.482	2323.754	2341.482
52.5	2116.730	2093.780	2093.190	2103.768	2125.129	2151.665	2178.292	2195.884	2181.061	2195.884
55.0	1964.980	1947.978	1947.274	1959.123	1978.328	2004.841	2026.769	2050.309	2028.722	2050.309
57.5	1812.867	1797.091	1799.679	1809.984	1832.980	1853.046	1877.335	1897.606	1882.284	1897.606
60.0	1663.865	1651.289	1649.654	1661.526	1679.664	1702.863	1724.088	1741.726	1724.269	1741.726
62.5	1518.516	1500.311	1500.220	1509.300	1526.393	1545.189	1568.593	1588.364	1571.861	1588.364
65.0	1368.106	1344.294	1344.793	1354.600	1370.853	1389.195	1413.302	1432.733	1413.869	1432.733
67.5	1216.198	1192.930	1192.726	1204.008	1220.170	1235.924	1254.130	1272.244	1255.991	1272.244
70.0	1058.796	1044.790	1040.364	1048.649	1067.059	1079.408	1101.881	1115.887	1098.067	1115.887
72.5	912.517	893.767	895.583	899.487	917.420	929.769	946.930	960.369	943.344	960.369
75.0	770.188	748.374	748.714	754.707	769.303	777.657	793.751	810.367	786.986	810.367
77.5	625.430	601.822	606.453	610.426	626.270	634.011	644.203	656.711	633.852	656.711
80.0	482.852	462.490	462.966	467.461	479.515	487.936	496.994	507.413	490.502	507.413
82.5	345.222	329.649	331.170	335.461	345.199	352.395	358.319	366.128	344.177	366.128
85.0	219.486	206.071	220.984	228.271	228.839	222.051	223.981	230.950	213.289	230.950
87.5	103.421	94.545	106.372	113.523	118.267	108.029	104.874	108.075	91.594	108.075
90.0	63.878	49.236	54.230	76.431	45.763	70.597	58.793	60.132	84.262	60.132
92.5	78.792	84.943	96.974	98.155	86.396	88.008	87.917	85.988	92.843	85.988
95.0	98.563	107.394	116.996	117.223	106.667	104.488	103.648	102.740	109.232	102.740
97.5	121.468	132.750	140.286	139.151	131.206	125.871	125.372	125.213	130.071	125.213
100.0	146.687	158.310	163.894	163.168	157.447	149.184	148.458	150.433	154.882	150.433
102.5	172.543	183.371	187.933	188.274	183.870	174.132	172.565	174.972	179.602	174.972
105.0	198.897	209.544	213.380	214.583	212.018	200.804	198.398	200.418	205.094	200.418
107.5	226.932	237.555	240.802	242.799	241.346	229.315	226.115	228.294	232.857	228.294
110.0	257.191	267.542	269.948	272.718	271.674	259.847	255.874	256.737	262.503	256.737
112.5	289.175	297.597	300.639	303.726	303.976	291.377	287.268	289.561	293.375	289.561
115.0	321.772	328.628	332.169	335.256	332.510	323.225	319.071	319.593	325.631	319.593
117.5	353.870	360.885	364.153	367.241	371.100	356.027	351.555	351.555	358.615	351.555
120.0	386.513	394.912	396.614	400.087	405.036	389.736	384.674	386.581	391.802	386.581
122.5	421.471	428.281	429.961	433.774	437.293	424.059	418.384	421.630	425.534	421.630
125.0	455.135	462.422	463.716	467.643	466.689	458.381	452.820	453.432	459.970	453.432
127.5	487.982	494.292	497.357	501.034	502.828	492.045	488.390	485.689	494.951	485.689
130.0	521.828	527.185	530.272	533.745	534.585	525.596	520.602	519.762	529.023	519.762
132.5	556.241	559.578	562.370	566.138	567.500	559.124	553.381	551.701	562.256	551.701

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135.0	589.133	592.629	593.855	598.485	602.208	592.016	585.751	584.570	595.285	584.570
137.5	619.551	624.205	624.840	629.721	637.053	623.819	617.667	617.917	627.723	617.917
140.0	650.605	656.030	655.167	659.753	670.399	654.872	648.471	651.127	658.709	651.127
142.5	683.134	686.471	684.587	688.559	697.957	684.995	677.890	681.999	688.173	681.999
145.0	710.487	713.688	710.850	716.821	722.950	714.301	706.492	708.694	716.594	708.694
147.5	734.912	737.092	736.865	743.425	748.305	740.860	734.527	733.823	743.902	733.823
150.0	759.315	761.994	761.562	767.555	772.935	765.875	759.724	758.248	769.303	758.248
152.5	782.719	784.784	784.603	789.824	795.181	788.008	782.832	781.402	791.640	781.402
155.0	804.624	805.827	805.850	811.275	815.883	810.027	804.511	802.195	812.705	802.195
157.5	824.668	825.531	825.508	831.183	836.018	830.479	825.213	821.808	832.659	821.808
160.0	843.055	843.373	843.577	849.298	854.451	848.821	844.054	840.172	850.569	840.172
162.5	859.626	859.059	859.513	865.279	870.749	865.074	860.489	856.403	866.550	856.403
165.0	874.018	872.543	873.473	879.398	885.050	879.489	874.517	870.590	880.329	870.590
167.5	886.163	884.460	885.459	891.588	897.671	891.747	886.571	882.985	892.201	882.985
170.0	896.718	894.425	895.401	901.916	908.159	902.552	896.990	893.427	901.462	893.427
172.5	905.276	902.393	903.914	910.020	916.308	910.792	905.094	901.712	909.589	901.712
175.0	911.360	907.977	909.771	916.104	922.256	916.808	910.792	907.682	914.696	907.682
177.5	915.514	911.450	913.561	920.054	925.842	919.986	913.675	911.042	917.216	911.042
180.0	917.738	917.738	917.738	917.738	917.738	917.738	917.738	917.738	917.738	917.738

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	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160	3896.160
2.5	3895.297	3895.206	3893.958	3893.186	3889.100	3885.128	3878.318
5.0	3884.174	3884.764	3879.725	3876.774	3869.828	3869.260	3861.610
7.5	3863.994	3859.772	3856.321	3848.944	3843.541	3836.981	3834.847
10.0	3832.850	3828.991	3819.797	3813.373	3804.497	3798.958	3798.731
12.5	3795.009	3787.018	3776.985	3770.220	3758.076	3753.831	3753.400
15.0	3749.995	3740.483	3728.271	3718.850	3706.524	3698.352	3699.759
17.5	3693.857	3683.711	3668.751	3658.445	3644.144	3638.515	3640.966
20.0	3631.205	3618.516	3601.128	3588.234	3575.681	3568.213	3570.460
22.5	3558.270	3545.331	3525.083	3513.302	3499.205	3491.056	3491.078
25.0	3479.002	3459.707	3441.592	3426.860	3415.987	3406.135	3409.313
27.5	3390.063	3373.606	3351.383	3336.741	3322.826	3318.218	3318.626
30.0	3300.035	3279.265	3257.019	3242.127	3224.376	3219.881	3214.887
32.5	3199.588	3175.707	3155.459	3138.865	3119.275	3117.346	3113.123
35.0	3092.217	3069.040	3045.863	3024.888	3011.768	3003.505	3011.791
37.5	2977.150	2953.179	2930.456	2910.821	2894.976	2887.349	2903.307
40.0	2857.226	2833.142	2807.695	2785.063	2768.333	2763.589	2779.116
42.5	2729.766	2703.002	2677.647	2659.645	2643.256	2640.441	2649.635
45.0	2599.717	2574.339	2549.028	2527.350	2512.005	2513.049	2515.137
47.5	2460.657	2436.958	2409.037	2390.855	2374.011	2376.440	2388.517
50.0	2323.231	2294.766	2270.840	2248.049	2235.973	2235.201	2255.358
52.5	2178.292	2151.665	2125.129	2103.768	2093.190	2093.780	2116.730
55.0	2026.769	2004.841	1978.328	1959.123	1947.274	1947.978	1964.980
57.5	1877.335	1853.046	1832.980	1809.984	1799.679	1797.091	1812.867
60.0	1724.088	1702.863	1679.664	1661.526	1649.654	1651.289	1663.865
62.5	1568.593	1545.189	1526.393	1509.300	1500.220	1500.311	1518.516
65.0	1413.302	1389.195	1370.853	1354.600	1344.793	1344.294	1368.106
67.5	1254.130	1235.924	1220.170	1204.008	1192.726	1192.930	1216.198
70.0	1101.881	1079.408	1067.059	1048.649	1040.364	1044.790	1058.796
72.5	946.930	929.769	917.420	899.487	895.583	893.767	912.517
75.0	793.751	777.657	769.303	754.707	748.714	748.374	770.188
77.5	644.203	634.011	626.270	610.426	606.453	601.822	625.430
80.0	496.994	487.936	479.515	467.461	462.966	462.490	482.852

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CANDELA TABULATION - (Cont.)

82.5	358.319	352.395	345.199	335.461	331.170	329.649	345.222
85.0	223.981	222.051	228.839	228.271	220.984	206.071	219.486
87.5	104.874	108.029	118.267	113.523	106.372	94.545	103.421
90.0	58.793	70.597	45.763	76.431	54.230	49.236	63.878
92.5	87.917	88.008	86.396	98.155	96.974	84.943	78.792
95.0	103.648	104.488	106.667	117.223	116.996	107.394	98.563
97.5	125.372	125.871	131.206	139.151	140.286	132.750	121.468
100.0	148.458	149.184	157.447	163.168	163.894	158.310	146.687
102.5	172.565	174.132	183.870	188.274	187.933	183.371	172.543
105.0	198.398	200.804	212.018	214.583	213.380	209.544	198.897
107.5	226.115	229.315	241.346	242.799	240.802	237.555	226.932
110.0	255.874	259.847	271.674	272.718	269.948	267.542	257.191
112.5	287.268	291.377	303.976	303.726	300.639	297.597	289.175
115.0	319.071	323.225	332.510	335.256	332.169	328.628	321.772
117.5	351.555	356.027	371.100	367.241	364.153	360.885	353.870
120.0	384.674	389.736	405.036	400.087	396.614	394.912	386.513
122.5	418.384	424.059	437.293	433.774	429.961	428.281	421.471
125.0	452.820	458.381	466.689	467.643	463.716	462.422	455.135
127.5	488.390	492.045	502.828	501.034	497.357	494.292	487.982
130.0	520.602	525.596	534.585	533.745	530.272	527.185	521.828
132.5	553.381	559.124	567.500	566.138	562.370	559.578	556.241
135.0	585.751	592.016	602.208	598.485	593.855	592.629	589.133
137.5	617.667	623.819	637.053	629.721	624.840	624.205	619.551
140.0	648.471	654.872	670.399	659.753	655.167	656.030	650.605
142.5	677.890	684.995	697.957	688.559	684.587	686.471	683.134
145.0	706.492	714.301	722.950	716.821	710.850	713.688	710.487
147.5	734.527	740.860	748.305	743.425	736.865	737.092	734.912
150.0	759.724	765.875	772.935	767.555	761.562	761.994	759.315
152.5	782.832	788.008	795.181	789.824	784.603	784.784	782.719
155.0	804.511	810.027	815.883	811.275	805.850	805.827	804.624
157.5	825.213	830.479	836.018	831.183	825.508	825.531	824.668
160.0	844.054	848.821	854.451	849.298	843.577	843.373	843.055
162.5	860.489	865.074	870.749	865.279	859.513	859.059	859.626
165.0	874.517	879.489	885.050	879.398	873.473	872.543	874.018
167.5	886.571	891.747	897.671	891.588	885.459	884.460	886.163
170.0	896.990	902.552	908.159	901.916	895.401	894.425	896.718
172.5	905.094	910.792	916.308	910.020	903.914	902.393	905.276
175.0	910.792	916.808	922.256	916.104	909.771	907.977	911.360
177.5	913.675	919.986	925.842	920.054	913.561	911.450	915.514
180.0	917.738	917.738	917.738	917.738	917.738	917.738	917.738

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1420.04	N.A.	10.30
0-30	3008.14	N.A.	21.80
0-40	4916.53	N.A.	35.70
0-60	8665.29	N.A.	62.80
0-80	10848.43	N.A.	78.70
0-90	11105.67	N.A.	80.50
10-90	10737.42	N.A.	77.90
20-40	3496.48	N.A.	25.40
20-50	5467.52	N.A.	39.60
40-70	5115.09	N.A.	37.10
60-80	2183.13	N.A.	15.80
70-80	816.81	N.A.	5.90
80-90	257.25	N.A.	1.90
90-110	338.13	N.A.	2.50
90-120	662.67	N.A.	4.80
90-130	1074.62	N.A.	7.80
90-150	1978.06	N.A.	14.30
90-180	2684.48	N.A.	19.50
110-180	2346.36	N.A.	17.00
0-180	13790.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	368.25
10-20	1051.79
20-30	1588.1
30-40	1908.38
40-50	1971.03
50-60	1777.73
60-70	1366.32
70-80	816.81
80-90	257.25
90-100	118.82
100-110	219.31
110-120	324.54
120-130	411.96
130-140	457.33
140-150	446.10
150-160	372.41
160-170	247.30
170-180	86.71

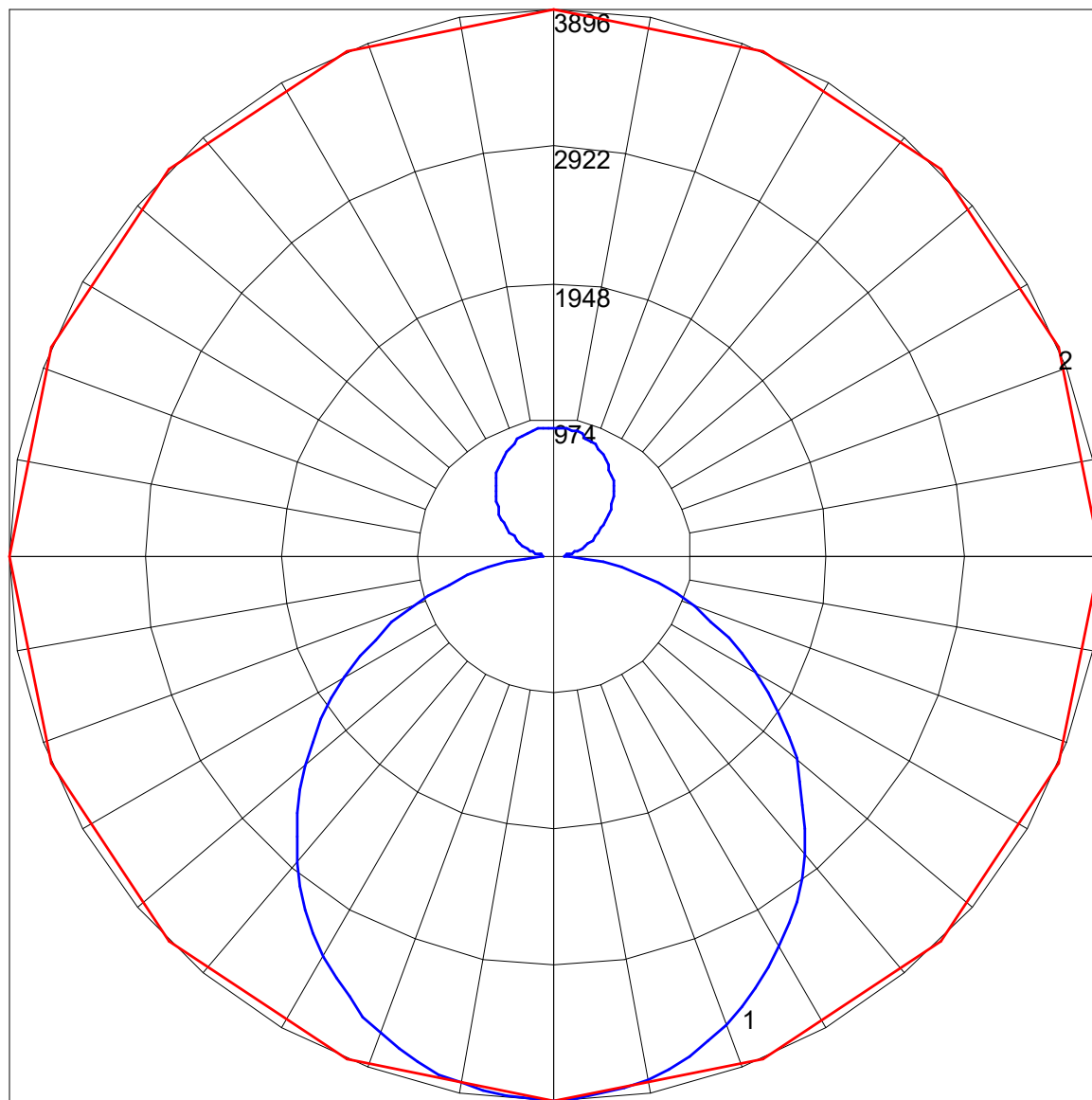
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3896.16 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.)