



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] OLV-40-LED35-LO-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	5346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	80
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	1600	1598	1622
55	1423	1410	1433
65	1192	1171	1194
75	875	851	874
85	375	377	391

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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	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406
2.5	1503.489	1506.129	1507.669	1509.253	1509.552	1510.036	1510.071	1509.974	1507.968	1509.974
5.0	1497.012	1499.978	1500.198	1502.890	1504.034	1505.988	1505.759	1506.798	1503.515	1506.798
7.5	1486.637	1487.464	1490.007	1492.102	1494.962	1496.299	1497.936	1499.230	1495.938	1499.230
10.0	1472.636	1472.724	1474.871	1478.312	1480.802	1484.366	1485.862	1487.209	1484.516	1487.209
12.5	1455.062	1455.230	1456.875	1461.583	1464.206	1468.095	1471.193	1474.387	1470.410	1474.387
15.0	1434.268	1433.722	1436.890	1441.669	1445.321	1450.055	1453.742	1456.022	1453.505	1456.022
17.5	1411.476	1410.526	1412.708	1418.252	1422.247	1428.046	1431.980	1435.790	1431.593	1435.790
20.0	1384.143	1383.272	1386.167	1391.034	1396.032	1402.773	1407.692	1411.590	1407.639	1411.590
22.5	1353.370	1353.361	1356.520	1361.985	1366.552	1374.402	1379.418	1385.340	1380.377	1385.340
25.0	1321.672	1320.440	1324.259	1328.474	1334.186	1341.208	1348.688	1352.806	1349.788	1352.806
27.5	1286.516	1286.358	1288.144	1293.538	1299.214	1307.830	1314.210	1320.678	1315.908	1320.678
30.0	1246.300	1248.236	1249.978	1256.860	1262.633	1271.257	1279.309	1285.108	1280.374	1285.108
32.5	1206.850	1208.486	1209.234	1216.829	1223.262	1231.111	1240.369	1247.805	1241.108	1247.805
35.0	1167.566	1164.354	1167.558	1172.644	1180.775	1189.760	1198.745	1206.146	1199.396	1206.146
37.5	1125.511	1119.325	1122.282	1128.424	1136.036	1144.845	1154.138	1161.873	1155.370	1161.873
40.0	1077.366	1071.347	1073.186	1079.672	1088.446	1098.310	1107.647	1115.303	1108.862	1115.303
42.5	1027.171	1023.607	1024.698	1031.052	1038.030	1047.860	1058.235	1065.196	1059.432	1065.196
45.0	975.031	974.222	973.817	979.766	988.170	997.982	1007.820	1015.335	1007.970	1015.335
47.5	925.945	921.263	920.322	926.851	933.900	944.724	953.911	962.113	954.888	962.113
50.0	874.324	866.510	866.809	871.490	880.326	889.601	900.636	907.711	900.838	907.711
52.5	820.582	811.686	811.457	815.558	823.838	834.126	844.448	851.268	845.522	851.268
55.0	761.754	755.163	754.890	759.484	766.929	777.207	785.708	794.834	786.465	794.834
57.5	702.786	696.670	697.673	701.668	710.582	718.362	727.778	735.636	729.696	735.636
60.0	645.022	640.147	639.514	644.116	651.147	660.141	668.369	675.206	668.439	675.206
62.5	588.676	581.618	581.583	585.103	591.730	599.016	608.089	615.754	609.356	615.754
65.0	530.367	521.136	521.330	525.131	531.432	538.542	547.888	555.421	548.108	555.421
67.5	471.478	462.458	462.378	466.752	473.018	479.125	486.182	493.205	486.904	493.205
70.0	410.458	405.029	403.313	406.525	413.662	418.449	427.161	432.590	425.682	432.590
72.5	353.751	346.482	347.186	348.700	355.652	360.439	367.092	372.302	365.702	372.302
75.0	298.575	290.118	290.250	292.574	298.232	301.470	307.710	314.151	305.087	314.151
77.5	242.458	233.306	235.101	236.641	242.783	245.784	249.735	254.584	245.722	254.584
80.0	187.185	179.291	179.476	181.218	185.891	189.156	192.667	196.706	190.150	196.706
82.5	133.830	127.794	128.383	130.046	133.822	136.611	138.908	141.935	133.426	141.935
85.0	85.087	79.886	85.668	88.493	88.713	86.082	86.830	89.531	82.685	89.531
87.5	40.093	36.652	41.237	44.009	45.848	41.879	40.656	41.897	35.508	41.897
90.0	24.763	19.087	21.023	29.630	17.741	27.368	22.792	23.311	32.666	23.311
92.5	30.545	32.930	37.594	38.051	33.493	34.118	34.082	33.334	35.992	33.334
95.0	38.210	41.633	45.355	45.443	41.351	40.506	40.181	39.829	42.346	39.829
97.5	47.089	51.462	54.384	53.944	50.864	48.796	48.602	48.541	50.424	48.541
100.0	56.866	61.371	63.536	63.254	61.037	57.834	57.552	58.318	60.042	58.318
102.5	66.889	71.086	72.855	72.987	71.280	67.505	66.898	67.830	69.626	67.830
105.0	77.106	81.233	82.720	83.186	82.192	77.845	76.912	77.695	79.508	77.695
107.5	87.974	92.092	93.350	94.125	93.562	88.898	87.657	88.502	90.270	88.502
110.0	99.704	103.717	104.650	105.723	105.318	100.734	99.194	99.528	101.763	99.528
112.5	112.103	115.368	116.547	117.744	117.841	112.957	111.364	112.253	113.731	112.253
115.0	124.740	127.398	128.770	129.967	128.902	125.303	123.693	123.895	126.236	123.895
117.5	137.183	139.902	141.170	142.366	143.862	138.019	136.286	136.286	139.022	136.286
120.0	149.838	153.094	153.754	155.100	157.018	151.087	149.125	149.864	151.888	149.864
122.5	163.390	166.030	166.681	168.159	169.523	164.393	162.193	163.451	164.965	163.451
125.0	176.440	179.265	179.766	181.289	180.919	177.698	175.542	175.780	178.314	175.780
127.5	189.174	191.620	192.808	194.234	194.929	190.749	189.332	188.285	191.875	188.285
130.0	202.294	204.371	205.568	206.914	207.240	203.755	201.819	201.494	205.084	201.494
132.5	215.635	216.929	218.011	219.472	220.000	216.753	214.526	213.875	217.967	213.875

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CANDELA TABULATION - (Cont.)

135.0	228.386	229.742	230.217	232.012	233.455	229.504	227.075	226.618	230.771	226.618
137.5	240.178	241.982	242.229	244.121	246.963	241.833	239.448	239.545	243.346	239.545
140.0	252.217	254.320	253.986	255.763	259.890	253.871	251.390	252.419	255.358	252.419
142.5	264.827	266.121	265.390	266.930	270.574	265.549	262.794	264.387	266.781	264.387
145.0	275.431	276.672	275.572	277.886	280.262	276.910	273.882	274.736	277.798	274.736
147.5	284.900	285.745	285.657	288.200	290.092	287.206	284.750	284.478	288.385	284.478
150.0	294.360	295.398	295.231	297.554	299.640	296.903	294.518	293.946	298.232	293.946
152.5	303.433	304.234	304.163	306.187	308.264	305.483	303.477	302.922	306.891	302.922
155.0	311.925	312.391	312.400	314.503	316.290	314.019	311.881	310.983	315.058	310.983
157.5	319.695	320.030	320.021	322.221	324.095	321.948	319.906	318.586	322.793	318.586
160.0	326.823	326.946	327.026	329.243	331.241	329.058	327.210	325.706	329.736	325.706
162.5	333.247	333.027	333.203	335.438	337.559	335.359	333.582	331.998	335.931	331.998
165.0	338.826	338.254	338.615	340.912	343.103	340.947	339.020	337.498	341.273	337.498
167.5	343.534	342.874	343.262	345.638	347.996	345.699	343.693	342.302	345.875	342.302
170.0	347.626	346.738	347.116	349.642	352.062	349.888	347.732	346.350	349.466	346.350
172.5	350.944	349.826	350.416	352.783	355.221	353.082	350.874	349.562	352.616	349.562
175.0	353.302	351.991	352.686	355.142	357.526	355.414	353.082	351.877	354.596	351.877
177.5	354.913	353.338	354.156	356.673	358.917	356.646	354.200	353.179	355.573	353.179
180.0	355.775	355.775	355.775	355.775	355.775	355.775	355.775	355.775	355.775	355.775

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	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406	1510.406
2.5	1510.071	1510.036	1509.552	1509.253	1507.669	1506.129	1503.489
5.0	1505.759	1505.988	1504.034	1502.890	1500.198	1499.978	1497.012
7.5	1497.936	1496.299	1494.962	1492.102	1490.007	1487.464	1486.637
10.0	1485.862	1484.366	1480.802	1478.312	1474.871	1472.724	1472.636
12.5	1471.193	1468.095	1464.206	1461.583	1456.875	1455.230	1455.062
15.0	1453.742	1450.055	1445.321	1441.669	1436.890	1433.722	1434.268
17.5	1431.980	1428.046	1422.247	1418.252	1412.708	1410.526	1411.476
20.0	1407.692	1402.773	1396.032	1391.034	1386.167	1383.272	1384.143
22.5	1379.418	1374.402	1366.552	1361.985	1356.520	1353.361	1353.370
25.0	1348.688	1341.208	1334.186	1328.474	1324.259	1320.440	1321.672
27.5	1314.210	1307.830	1299.214	1293.538	1288.144	1286.358	1286.516
30.0	1279.309	1271.257	1262.633	1256.860	1249.978	1248.236	1246.300
32.5	1240.369	1231.111	1223.262	1216.829	1209.234	1208.486	1206.850
35.0	1198.745	1189.760	1180.775	1172.644	1167.558	1164.354	1167.566
37.5	1154.138	1144.845	1136.036	1128.424	1122.282	1119.325	1125.511
40.0	1107.647	1098.310	1088.446	1079.672	1073.186	1071.347	1077.366
42.5	1058.235	1047.860	1038.030	1031.052	1024.698	1023.607	1027.171
45.0	1007.820	997.982	988.170	979.766	973.817	974.222	975.031
47.5	953.911	944.724	933.900	926.851	920.322	921.263	925.945
50.0	900.636	889.601	880.326	871.490	866.809	866.510	874.324
52.5	844.448	834.126	823.838	815.558	811.457	811.686	820.582
55.0	785.708	777.207	766.929	759.484	754.890	755.163	761.754
57.5	727.778	718.362	710.582	701.668	697.673	696.670	702.786
60.0	668.369	660.141	651.147	644.116	639.514	640.147	645.022
62.5	608.089	599.016	591.730	585.103	581.583	581.618	588.676
65.0	547.888	538.542	531.432	525.131	521.330	521.136	530.367
67.5	486.182	479.125	473.018	466.752	462.378	462.458	471.478
70.0	427.161	418.449	413.662	406.525	403.313	405.029	410.458
72.5	367.092	360.439	355.652	348.700	347.186	346.482	353.751
75.0	307.710	301.470	298.232	292.574	290.250	290.118	298.575
77.5	249.735	245.784	242.783	236.641	235.101	233.306	242.458
80.0	192.667	189.156	185.891	181.218	179.476	179.291	187.185

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CANDELA TABULATION - (Cont.)

82.5	138.908	136.611	133.822	130.046	128.383	127.794	133.830
85.0	86.830	86.082	88.713	88.493	85.668	79.886	85.087
87.5	40.656	41.879	45.848	44.009	41.237	36.652	40.093
90.0	22.792	27.368	17.741	29.630	21.023	19.087	24.763
92.5	34.082	34.118	33.493	38.051	37.594	32.930	30.545
95.0	40.181	40.506	41.351	45.443	45.355	41.633	38.210
97.5	48.602	48.796	50.864	53.944	54.384	51.462	47.089
100.0	57.552	57.834	61.037	63.254	63.536	61.371	56.866
102.5	66.898	67.505	71.280	72.987	72.855	71.086	66.889
105.0	76.912	77.845	82.192	83.186	82.720	81.233	77.106
107.5	87.657	88.898	93.562	94.125	93.350	92.092	87.974
110.0	99.194	100.734	105.318	105.723	104.650	103.717	99.704
112.5	111.364	112.957	117.841	117.744	116.547	115.368	112.103
115.0	123.693	125.303	128.902	129.967	128.770	127.398	124.740
117.5	136.286	138.019	143.862	142.366	141.170	139.902	137.183
120.0	149.125	151.087	157.018	155.100	153.754	153.094	149.838
122.5	162.193	164.393	169.523	168.159	166.681	166.030	163.390
125.0	175.542	177.698	180.919	181.289	179.766	179.265	176.440
127.5	189.332	190.749	194.929	194.234	192.808	191.620	189.174
130.0	201.819	203.755	207.240	206.914	205.568	204.371	202.294
132.5	214.526	216.753	220.000	219.472	218.011	216.929	215.635
135.0	227.075	229.504	233.455	232.012	230.217	229.742	228.386
137.5	239.448	241.833	246.963	244.121	242.229	241.982	240.178
140.0	251.390	253.871	259.890	255.763	253.986	254.320	252.217
142.5	262.794	265.549	270.574	266.930	265.390	266.121	264.827
145.0	273.882	276.910	280.262	277.886	275.572	276.672	275.431
147.5	284.750	287.206	290.092	288.200	285.657	285.745	284.900
150.0	294.518	296.903	299.640	297.554	295.231	295.398	294.360
152.5	303.477	305.483	308.264	306.187	304.163	304.234	303.433
155.0	311.881	314.019	316.290	314.503	312.400	312.391	311.925
157.5	319.906	321.948	324.095	322.221	320.021	320.030	319.695
160.0	327.210	329.058	331.241	329.243	327.026	326.946	326.823
162.5	333.582	335.359	337.559	335.438	333.203	333.027	333.247
165.0	339.020	340.947	343.103	340.912	338.615	338.254	338.826
167.5	343.693	345.699	347.996	345.638	343.262	342.874	343.534
170.0	347.732	349.888	352.062	349.642	347.116	346.738	347.626
172.5	350.874	353.082	355.221	352.783	350.416	349.826	350.944
175.0	353.082	355.414	357.526	355.142	352.686	351.991	353.302
177.5	354.200	356.646	358.917	356.673	354.156	353.338	354.913
180.0	355.775	355.775	355.775	355.775	355.775	355.775	355.775

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	550.50	N.A.	10.30
0-30	1166.15	N.A.	21.80
0-40	1905.97	N.A.	35.70
0-60	3359.23	N.A.	62.80
0-80	4205.56	N.A.	78.70
0-90	4305.28	N.A.	80.50
10-90	4162.52	N.A.	77.90
20-40	1355.47	N.A.	25.40
20-50	2119.57	N.A.	39.60
40-70	1982.94	N.A.	37.10
60-80	846.33	N.A.	15.80
70-80	316.65	N.A.	5.90
80-90	99.73	N.A.	1.90
90-110	131.08	N.A.	2.50
90-120	256.89	N.A.	4.80
90-130	416.59	N.A.	7.80
90-150	766.83	N.A.	14.30
90-180	1040.68	N.A.	19.50
110-180	909.60	N.A.	17.00
0-180	5345.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.76
10-20	407.74
20-30	615.65
30-40	739.81
40-50	764.10
50-60	689.16
60-70	529.68
70-80	316.65
80-90	99.73
90-100	46.06
100-110	85.02
110-120	125.81
120-130	159.70
130-140	177.29
140-150	172.94
150-160	144.37
160-170	95.87
170-180	33.61

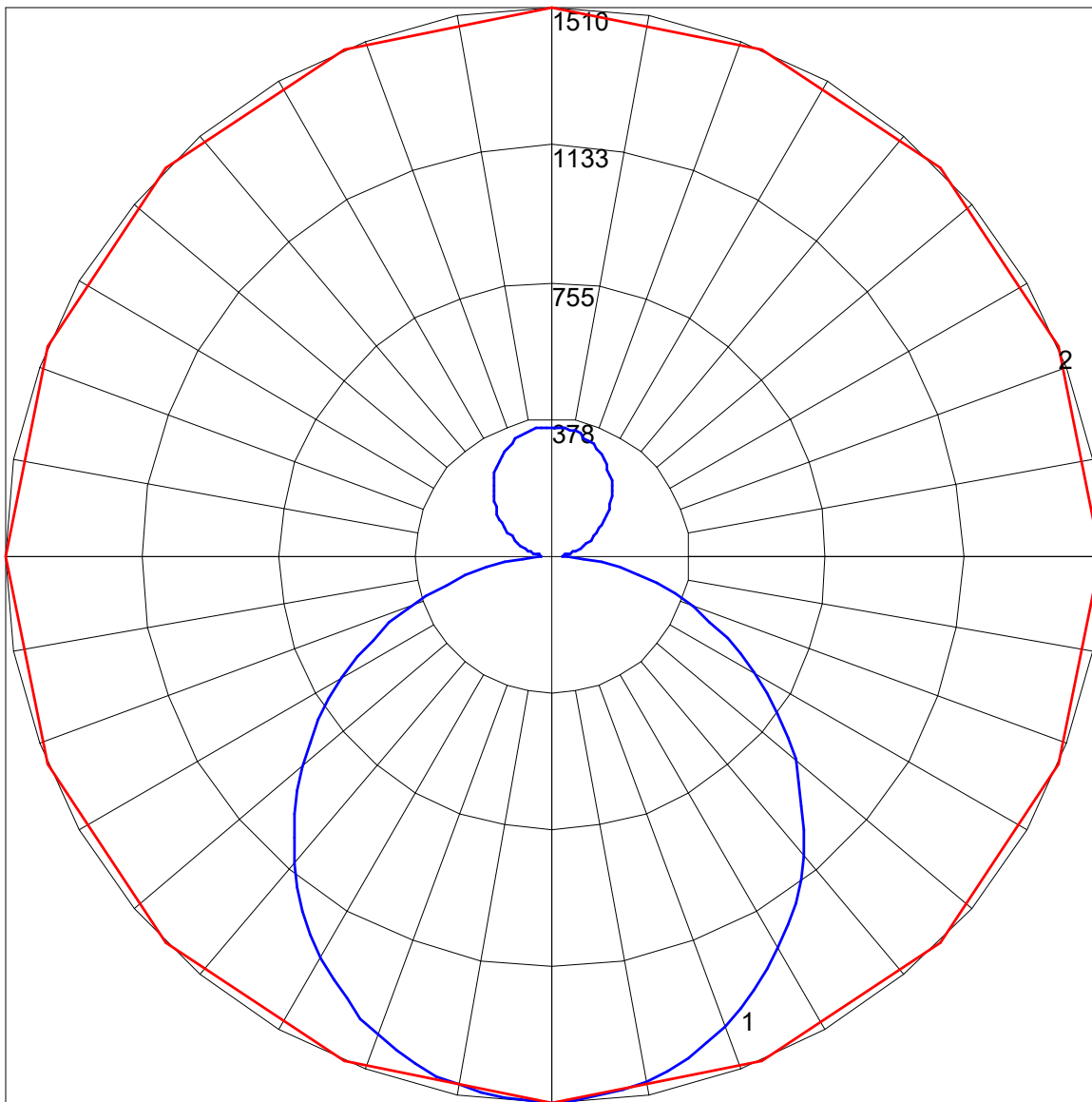
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	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 = 1510.406 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.)