



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OLV-30-LED35-HO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] OLV-30-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	8748
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	138
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	2619	2616	2654
55	2329	2308	2345
65	1950	1917	1954
75	1432	1392	1430
85	613	617	639

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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	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573
2.5	2460.254	2464.574	2467.094	2469.686	2470.176	2470.968	2471.026	2470.867	2467.584	2470.867
5.0	2449.656	2454.509	2454.869	2459.275	2461.147	2464.344	2463.970	2465.669	2460.298	2465.669
7.5	2432.678	2434.032	2438.194	2441.621	2446.301	2448.490	2451.168	2453.285	2447.899	2453.285
10.0	2409.768	2409.912	2413.426	2419.056	2423.131	2428.963	2431.411	2433.614	2429.208	2433.614
12.5	2381.011	2381.285	2383.978	2391.682	2395.973	2402.338	2407.406	2412.634	2406.125	2412.634
15.0	2346.984	2346.091	2351.275	2359.094	2365.070	2372.818	2378.851	2382.581	2378.462	2382.581
17.5	2309.688	2308.133	2311.704	2320.776	2327.314	2336.803	2343.240	2349.475	2342.606	2349.475
20.0	2264.962	2263.536	2268.274	2276.237	2284.416	2295.446	2303.496	2309.875	2303.410	2309.875
22.5	2214.605	2214.590	2219.760	2228.702	2236.176	2249.021	2257.229	2266.920	2258.798	2266.920
25.0	2162.736	2160.720	2166.970	2173.867	2183.213	2194.704	2206.944	2213.683	2208.744	2213.683
27.5	2105.208	2104.949	2107.872	2116.699	2125.987	2140.085	2150.525	2161.109	2153.304	2161.109
30.0	2039.400	2042.568	2045.419	2056.680	2066.126	2080.238	2093.414	2102.904	2095.157	2102.904
32.5	1974.845	1977.523	1978.747	1991.174	2001.701	2014.546	2029.694	2041.862	2030.904	2041.862
35.0	1910.563	1905.307	1910.549	1918.872	1932.178	1946.880	1961.582	1973.693	1962.648	1973.693
37.5	1841.746	1831.622	1836.461	1846.512	1858.968	1873.382	1888.589	1901.246	1890.605	1901.246
40.0	1762.963	1753.114	1756.123	1766.736	1781.093	1797.235	1812.514	1825.042	1814.501	1825.042
42.5	1680.826	1674.994	1676.779	1687.176	1698.595	1714.680	1731.658	1743.048	1733.616	1743.048
45.0	1595.506	1594.181	1593.518	1603.253	1617.005	1633.061	1649.160	1661.458	1649.405	1661.458
47.5	1515.182	1507.522	1505.981	1516.666	1528.200	1545.912	1560.946	1574.366	1562.544	1574.366
50.0	1430.712	1417.925	1418.414	1426.075	1440.533	1455.710	1473.768	1485.346	1474.099	1485.346
52.5	1342.771	1328.213	1327.838	1334.549	1348.099	1364.933	1381.824	1392.984	1383.581	1392.984
55.0	1246.507	1235.722	1235.275	1242.792	1254.974	1271.794	1285.704	1300.637	1286.942	1300.637
57.5	1150.013	1140.005	1141.646	1148.184	1162.771	1175.501	1190.909	1203.768	1194.048	1203.768
60.0	1055.491	1047.514	1046.477	1054.008	1065.514	1080.230	1093.694	1104.883	1093.810	1104.883
62.5	963.288	951.739	951.682	957.442	968.285	980.208	995.054	1007.597	997.128	1007.597
65.0	867.874	852.768	853.085	859.306	869.616	881.251	896.544	908.870	896.904	908.870
67.5	771.509	756.749	756.619	763.776	774.029	784.022	795.571	807.062	796.752	807.062
70.0	671.659	662.774	659.966	665.222	676.901	684.734	698.990	707.875	696.571	707.875
72.5	578.866	566.971	568.123	570.600	581.976	589.810	600.696	609.221	598.421	609.221
75.0	488.578	474.739	474.955	478.757	488.016	493.315	503.525	514.066	499.234	514.066
77.5	396.749	381.773	384.710	387.230	397.282	402.192	408.658	416.592	402.091	416.592
80.0	306.302	293.386	293.688	296.539	304.186	309.528	315.274	321.883	311.155	321.883
82.5	218.995	209.117	210.082	212.803	218.981	223.546	227.304	232.258	218.333	232.258
85.0	139.234	130.723	140.184	144.806	145.166	140.861	142.085	146.506	135.302	146.506
87.5	65.606	59.976	67.478	72.014	75.024	68.530	66.528	68.558	58.104	68.558
90.0	40.522	31.234	34.402	48.485	29.030	44.784	37.296	38.146	53.453	38.146
92.5	49.982	53.885	61.517	62.266	54.806	55.829	55.771	54.547	58.896	54.547
95.0	62.525	68.126	74.218	74.362	67.666	66.283	65.750	65.174	69.293	65.174
97.5	77.054	84.211	88.992	88.272	83.232	79.848	79.531	79.430	82.512	79.430
100.0	93.053	100.426	103.968	103.507	99.878	94.637	94.176	95.429	98.251	95.429
102.5	109.454	116.323	119.218	119.434	116.640	110.462	109.469	110.995	113.933	110.995
105.0	126.173	132.926	135.360	136.123	134.496	127.382	125.856	127.138	130.104	127.138
107.5	143.957	150.696	152.755	154.022	153.101	145.469	143.438	144.821	147.715	144.821
110.0	163.152	169.718	171.245	173.002	172.339	164.837	162.317	162.864	166.522	162.864
112.5	183.442	188.784	190.714	192.672	192.830	184.838	182.232	183.686	186.106	183.686
115.0	204.120	208.469	210.715	212.674	210.931	205.042	202.406	202.738	206.568	202.738
117.5	224.482	228.931	231.005	232.963	235.411	225.850	223.013	223.013	227.491	223.013
120.0	245.189	250.517	251.597	253.800	256.939	247.234	244.022	245.232	248.544	245.232
122.5	267.365	271.685	272.750	275.170	277.402	269.006	265.406	267.466	269.942	267.466
125.0	288.720	293.342	294.163	296.654	296.050	290.779	287.251	287.640	291.787	287.640
127.5	309.557	313.560	315.504	317.837	318.974	312.134	309.816	308.102	313.978	308.102
130.0	331.027	334.426	336.384	338.587	339.120	333.418	330.250	329.717	335.592	329.717
132.5	352.858	354.974	356.746	359.136	360.000	354.686	351.043	349.978	356.674	349.978

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CANDELA TABULATION - (Cont.)

135.0	373.723	375.941	376.718	379.656	382.018	375.552	371.578	370.829	377.626	370.829
137.5	393.019	395.971	396.374	399.470	404.122	395.726	391.824	391.982	398.203	391.982
140.0	412.718	416.160	415.613	418.522	425.275	415.426	411.365	413.050	417.859	413.050
142.5	433.354	435.470	434.275	436.795	442.757	434.534	430.027	432.634	436.550	432.634
145.0	450.706	452.736	450.936	454.723	458.611	453.125	448.171	449.568	454.579	449.568
147.5	466.200	467.582	467.438	471.600	474.696	469.973	465.955	465.509	471.902	465.509
150.0	481.680	483.379	483.106	486.907	490.320	485.842	481.939	481.003	488.016	481.003
152.5	496.526	497.837	497.722	501.034	504.432	499.882	496.598	495.691	502.186	495.691
155.0	510.422	511.186	511.200	514.642	517.565	513.850	510.350	508.882	515.549	508.882
157.5	523.138	523.685	523.670	527.270	530.338	526.824	523.483	521.323	528.206	521.323
160.0	534.802	535.003	535.133	538.762	542.030	538.459	535.435	532.973	539.568	532.973
162.5	545.314	544.954	545.242	548.899	552.370	548.770	545.861	543.269	549.706	543.269
165.0	554.443	553.507	554.098	557.856	561.442	557.914	554.760	552.269	558.446	552.269
167.5	562.147	561.067	561.701	565.589	569.448	565.690	562.406	560.131	565.978	560.131
170.0	568.843	567.389	568.008	572.141	576.101	572.544	569.016	566.755	571.853	566.755
172.5	574.272	572.443	573.408	577.282	581.270	577.771	574.157	572.011	577.008	572.011
175.0	578.131	575.986	577.123	581.141	585.043	581.587	577.771	575.798	580.248	575.798
177.5	580.766	578.189	579.528	583.646	587.318	583.603	579.600	577.930	581.846	577.930
180.0	582.178	582.178	582.178	582.178	582.178	582.178	582.178	582.178	582.178	582.178

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	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573	2471.573
2.5	2471.026	2470.968	2470.176	2469.686	2467.094	2464.574	2460.254
5.0	2463.970	2464.344	2461.147	2459.275	2454.869	2454.509	2449.656
7.5	2451.168	2448.490	2446.301	2441.621	2438.194	2434.032	2432.678
10.0	2431.411	2428.963	2423.131	2419.056	2413.426	2409.912	2409.768
12.5	2407.406	2402.338	2395.973	2391.682	2383.978	2381.285	2381.011
15.0	2378.851	2372.818	2365.070	2359.094	2351.275	2346.091	2346.984
17.5	2343.240	2336.803	2327.314	2320.776	2311.704	2308.133	2309.688
20.0	2303.496	2295.446	2284.416	2276.237	2268.274	2263.536	2264.962
22.5	2257.229	2249.021	2236.176	2228.702	2219.760	2214.590	2214.605
25.0	2206.944	2194.704	2183.213	2173.867	2166.970	2160.720	2162.736
27.5	2150.525	2140.085	2125.987	2116.699	2107.872	2104.949	2105.208
30.0	2093.414	2080.238	2066.126	2056.680	2045.419	2042.568	2039.400
32.5	2029.694	2014.546	2001.701	1991.174	1978.747	1977.523	1974.845
35.0	1961.582	1946.880	1932.178	1918.872	1910.549	1905.307	1910.563
37.5	1888.589	1873.382	1858.968	1846.512	1836.461	1831.622	1841.746
40.0	1812.514	1797.235	1781.093	1766.736	1756.123	1753.114	1762.963
42.5	1731.658	1714.680	1698.595	1687.176	1676.779	1674.994	1680.826
45.0	1649.160	1633.061	1617.005	1603.253	1593.518	1594.181	1595.506
47.5	1560.946	1545.912	1528.200	1516.666	1505.981	1507.522	1515.182
50.0	1473.768	1455.710	1440.533	1426.075	1418.414	1417.925	1430.712
52.5	1381.824	1364.933	1348.099	1334.549	1327.838	1328.213	1342.771
55.0	1285.704	1271.794	1254.974	1242.792	1235.275	1235.722	1246.507
57.5	1190.909	1175.501	1162.771	1148.184	1141.646	1140.005	1150.013
60.0	1093.694	1080.230	1065.514	1054.008	1046.477	1047.514	1055.491
62.5	995.054	980.208	968.285	957.442	951.682	951.739	963.288
65.0	896.544	881.251	869.616	859.306	853.085	852.768	867.874
67.5	795.571	784.022	774.029	763.776	756.619	756.749	771.509
70.0	698.990	684.734	676.901	665.222	659.966	662.774	671.659
72.5	600.696	589.810	581.976	570.600	568.123	566.971	578.866
75.0	503.525	493.315	488.016	478.757	474.955	474.739	488.578
77.5	408.658	402.192	397.282	387.230	384.710	381.773	396.749
80.0	315.274	309.528	304.186	296.539	293.688	293.386	306.302

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CANDELA TABULATION - (Cont.)

82.5	227.304	223.546	218.981	212.803	210.082	209.117	218.995
85.0	142.085	140.861	145.166	144.806	140.184	130.723	139.234
87.5	66.528	68.530	75.024	72.014	67.478	59.976	65.606
90.0	37.296	44.784	29.030	48.485	34.402	31.234	40.522
92.5	55.771	55.829	54.806	62.266	61.517	53.885	49.982
95.0	65.750	66.283	67.666	74.362	74.218	68.126	62.525
97.5	79.531	79.848	83.232	88.272	88.992	84.211	77.054
100.0	94.176	94.637	99.878	103.507	103.968	100.426	93.053
102.5	109.469	110.462	116.640	119.434	119.218	116.323	109.454
105.0	125.856	127.382	134.496	136.123	135.360	132.926	126.173
107.5	143.438	145.469	153.101	154.022	152.755	150.696	143.957
110.0	162.317	164.837	172.339	173.002	171.245	169.718	163.152
112.5	182.232	184.838	192.830	192.672	190.714	188.784	183.442
115.0	202.406	205.042	210.931	212.674	210.715	208.469	204.120
117.5	223.013	225.850	235.411	232.963	231.005	228.931	224.482
120.0	244.022	247.234	256.939	253.800	251.597	250.517	245.189
122.5	265.406	269.006	277.402	275.170	272.750	271.685	267.365
125.0	287.251	290.779	296.050	296.654	294.163	293.342	288.720
127.5	309.816	312.134	318.974	317.837	315.504	313.560	309.557
130.0	330.250	333.418	339.120	338.587	336.384	334.426	331.027
132.5	351.043	354.686	360.000	359.136	356.746	354.974	352.858
135.0	371.578	375.552	382.018	379.656	376.718	375.941	373.723
137.5	391.824	395.726	404.122	399.470	396.374	395.971	393.019
140.0	411.365	415.426	425.275	418.522	415.613	416.160	412.718
142.5	430.027	434.534	442.757	436.795	434.275	435.470	433.354
145.0	448.171	453.125	458.611	454.723	450.936	452.736	450.706
147.5	465.955	469.973	474.696	471.600	467.438	467.582	466.200
150.0	481.939	485.842	490.320	486.907	483.106	483.379	481.680
152.5	496.598	499.882	504.432	501.034	497.722	497.837	496.526
155.0	510.350	513.850	517.565	514.642	511.200	511.186	510.422
157.5	523.483	526.824	530.338	527.270	523.670	523.685	523.138
160.0	535.435	538.459	542.030	538.762	535.133	535.003	534.802
162.5	545.861	548.770	552.370	548.899	545.242	544.954	545.314
165.0	554.760	557.914	561.442	557.856	554.098	553.507	554.443
167.5	562.406	565.690	569.448	565.589	561.701	561.067	562.147
170.0	569.016	572.544	576.101	572.141	568.008	567.389	568.843
172.5	574.157	577.771	581.270	577.282	573.408	572.443	574.272
175.0	577.771	581.587	585.043	581.141	577.123	575.986	578.131
177.5	579.600	583.603	587.318	583.646	579.528	578.189	580.766
180.0	582.178	582.178	582.178	582.178	582.178	582.178	582.178

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	900.82	N.A.	10.30
0-30	1908.25	N.A.	21.80
0-40	3118.85	N.A.	35.70
0-60	5496.93	N.A.	62.80
0-80	6881.82	N.A.	78.70
0-90	7045.01	N.A.	80.50
10-90	6811.4	N.A.	77.90
20-40	2218.03	N.A.	25.40
20-50	3468.38	N.A.	39.60
40-70	3244.81	N.A.	37.10
60-80	1384.9	N.A.	15.80
70-80	518.15	N.A.	5.90
80-90	163.19	N.A.	1.90
90-110	214.49	N.A.	2.50
90-120	420.37	N.A.	4.80
90-130	681.70	N.A.	7.80
90-150	1254.81	N.A.	14.30
90-180	1702.93	N.A.	19.50
110-180	1488.44	N.A.	17.00
0-180	8747.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.60
10-20	667.22
20-30	1007.43
30-40	1210.6
40-50	1250.35
50-60	1127.72
60-70	866.74
70-80	518.15
80-90	163.19
90-100	75.38
100-110	139.12
110-120	205.88
120-130	261.33
130-140	290.11
140-150	282.99
150-160	236.24
160-170	156.88
170-180	55.00

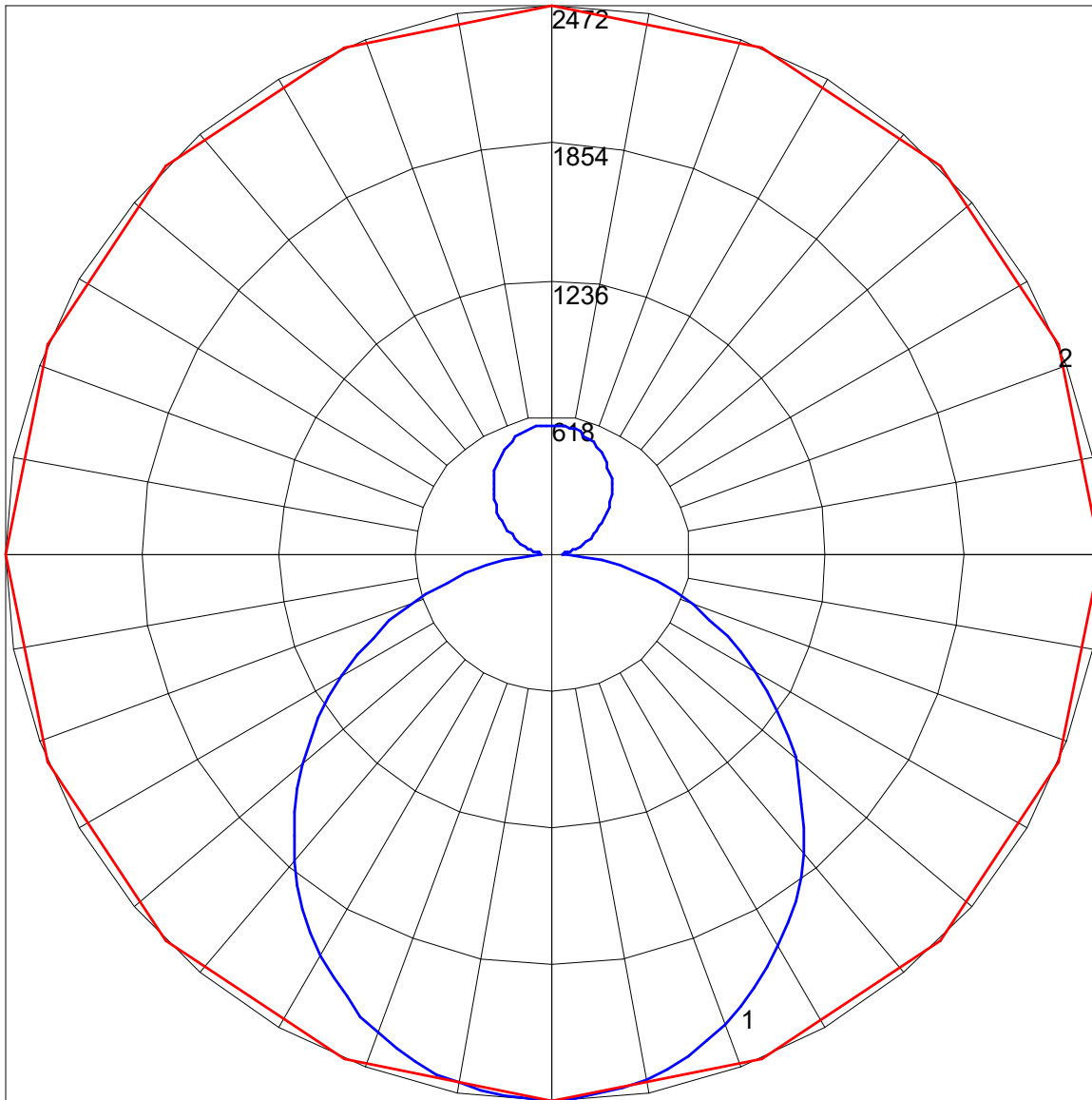
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2471.573 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.)