



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] OLV-30-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	3280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	48
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	982	981	995
55	873	865	879
65	731	719	733
75	537	522	536
85	230	231	240

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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	926.840	926.840	926.840	926.840	926.840	926.840	926.840	926.840	926.840	926.840
2.5	922.595	924.215	925.160	926.132	926.316	926.613	926.635	926.575	925.344	926.575
5.0	918.621	920.441	920.576	922.228	922.930	924.129	923.989	924.626	922.612	924.626
7.5	912.254	912.762	914.323	915.608	917.363	918.184	919.188	919.982	917.962	919.982
10.0	903.663	903.717	905.035	907.146	908.674	910.861	911.779	912.605	910.953	912.605
12.5	892.879	892.982	893.992	896.881	898.490	900.877	902.777	904.738	902.297	904.738
15.0	880.119	879.784	881.728	884.660	886.901	889.807	892.069	893.468	891.923	893.468
17.5	866.133	865.550	866.889	870.291	872.743	876.301	878.715	881.053	878.477	881.053
20.0	849.361	848.826	850.603	853.589	856.656	860.792	863.811	866.203	863.779	866.203
22.5	830.477	830.471	832.410	835.763	838.566	843.383	846.461	850.095	847.049	850.095
25.0	811.026	810.270	812.614	815.200	818.705	823.014	827.604	830.131	828.279	830.131
27.5	789.453	789.356	790.452	793.762	797.245	802.532	806.447	810.416	807.489	810.416
30.0	764.775	765.963	767.032	771.255	774.797	780.089	785.030	788.589	785.684	788.589
32.5	740.567	741.571	742.030	746.690	750.638	755.455	761.135	765.698	761.589	765.698
35.0	716.461	714.490	716.456	719.577	724.567	730.080	735.593	740.135	735.993	740.135
37.5	690.655	686.858	688.673	692.442	697.113	702.518	708.221	712.967	708.977	712.967
40.0	661.111	657.418	658.546	662.526	667.910	673.963	679.693	684.391	680.438	684.391
42.5	630.310	628.123	628.792	632.691	636.973	643.005	649.372	653.643	650.106	653.643
45.0	598.315	597.818	597.569	601.220	606.377	612.398	618.435	623.047	618.527	623.047
47.5	568.193	565.321	564.743	568.750	573.075	579.717	585.355	590.387	585.954	590.387
50.0	536.517	531.722	531.905	534.778	540.200	545.891	552.663	557.005	552.787	557.005
52.5	503.539	498.080	497.939	500.456	505.537	511.850	518.184	522.369	518.843	522.369
55.0	467.440	463.396	463.228	466.047	470.615	476.923	482.139	487.739	482.603	487.739
57.5	431.255	427.502	428.117	430.569	436.039	440.813	446.591	451.413	447.768	451.413
60.0	395.809	392.818	392.429	395.253	399.568	405.086	410.135	414.331	410.179	414.331
62.5	361.233	356.902	356.881	359.041	363.107	367.578	373.145	377.849	373.923	377.849
65.0	325.453	319.788	319.907	322.240	326.106	330.469	336.204	340.826	336.339	340.826
67.5	289.316	283.781	283.732	286.416	290.261	294.008	298.339	302.648	298.782	302.648
70.0	251.872	248.540	247.487	249.458	253.838	256.775	262.121	265.453	261.214	265.453
72.5	217.075	212.614	213.046	213.975	218.241	221.179	225.261	228.458	224.408	228.458
75.0	183.217	178.027	178.108	179.534	183.006	184.993	188.822	192.775	187.213	192.775
77.5	148.781	143.165	144.266	145.211	148.981	150.822	153.247	156.222	150.784	156.222
80.0	114.863	110.020	110.133	111.202	114.070	116.073	118.228	120.706	116.683	120.706
82.5	82.123	78.419	78.781	79.801	82.118	83.830	85.239	87.097	81.875	87.097
85.0	52.213	49.021	52.569	54.302	54.437	52.823	53.282	54.940	50.738	54.940
87.5	24.602	22.491	25.304	27.005	28.134	25.699	24.948	25.709	21.789	25.709
90.0	15.196	11.713	12.901	18.182	10.886	16.794	13.986	14.305	20.045	14.305
92.5	18.743	20.207	23.069	23.350	20.552	20.936	20.914	20.455	22.086	20.455
95.0	23.447	25.547	27.832	27.886	25.375	24.856	24.656	24.440	25.985	24.440
97.5	28.895	31.579	33.372	33.102	31.212	29.943	29.824	29.786	30.942	29.786
100.0	34.895	37.660	38.988	38.815	37.454	35.489	35.316	35.786	36.844	35.786
102.5	41.045	43.621	44.707	44.788	43.740	41.423	41.051	41.623	42.725	41.623
105.0	47.315	49.847	50.760	51.046	50.436	47.768	47.196	47.677	48.789	47.677
107.5	53.984	56.511	57.283	57.758	57.413	54.551	53.789	54.308	55.393	54.308
110.0	61.182	63.644	64.217	64.876	64.627	61.814	60.869	61.074	62.446	61.074
112.5	68.791	70.794	71.518	72.252	72.311	69.314	68.337	68.882	69.790	68.882
115.0	76.545	78.176	79.018	79.753	79.099	76.891	75.902	76.027	77.463	76.027
117.5	84.181	85.849	86.627	87.361	88.279	84.694	83.630	83.630	85.309	83.630
120.0	91.946	93.944	94.349	95.175	96.352	92.713	91.508	91.962	93.204	91.962
122.5	100.262	101.882	102.281	103.189	104.026	100.877	99.527	100.300	101.228	100.300
125.0	108.270	110.003	110.311	111.245	111.019	109.042	107.719	107.865	109.420	107.865
127.5	116.084	117.585	118.314	119.189	119.615	117.050	116.181	115.538	117.742	115.538
130.0	124.135	125.410	126.144	126.970	127.170	125.032	123.844	123.644	125.847	123.644
132.5	132.322	133.115	133.780	134.676	135.000	133.007	131.641	131.242	133.753	131.242

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CANDELA TABULATION - (Cont.)

135.0	140.146	140.978	141.269	142.371	143.257	140.832	139.342	139.061	141.610	139.061
137.5	147.382	148.489	148.640	149.801	151.546	148.397	146.934	146.993	149.326	146.993
140.0	154.769	156.060	155.855	156.946	159.478	155.785	154.262	154.894	156.697	154.894
142.5	162.508	163.301	162.853	163.798	166.034	162.950	161.260	162.238	163.706	162.238
145.0	169.015	169.776	169.101	170.521	171.979	169.922	168.064	168.588	170.467	168.588
147.5	174.825	175.343	175.289	176.850	178.011	176.240	174.733	174.566	176.963	174.566
150.0	180.630	181.267	181.165	182.590	183.870	182.191	180.727	180.376	183.006	180.376
152.5	186.197	186.689	186.646	187.888	189.162	187.456	186.224	185.884	188.320	185.884
155.0	191.408	191.695	191.700	192.991	194.087	192.694	191.381	190.831	193.331	190.831
157.5	196.177	196.382	196.376	197.726	198.877	197.559	196.306	195.496	198.077	195.496
160.0	200.551	200.626	200.675	202.036	203.261	201.922	200.788	199.865	202.338	199.865
162.5	204.493	204.358	204.466	205.837	207.139	205.789	204.698	203.726	206.140	203.726
165.0	207.916	207.565	207.787	209.196	210.541	209.218	208.035	207.101	209.417	207.101
167.5	210.805	210.400	210.638	212.096	213.543	212.134	210.902	210.049	212.242	210.049
170.0	213.316	212.771	213.003	214.553	216.038	214.704	213.381	212.533	214.445	212.533
172.5	215.352	214.666	215.028	216.481	217.976	216.664	215.309	214.504	216.378	214.504
175.0	216.799	215.995	216.421	217.928	219.391	218.095	216.664	215.924	217.593	215.924
177.5	217.787	216.821	217.323	218.867	220.244	218.851	217.350	216.724	218.192	216.724
180.0	218.317	218.317	218.317	218.317	218.317	218.317	218.317	218.317	218.317	218.317

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	926.840	926.840	926.840	926.840	926.840	926.840	926.840
2.5	926.635	926.613	926.316	926.132	925.160	924.215	922.595
5.0	923.989	924.129	922.930	922.228	920.576	920.441	918.621
7.5	919.188	918.184	917.363	915.608	914.323	912.762	912.254
10.0	911.779	910.861	908.674	907.146	905.035	903.717	903.663
12.5	902.777	900.877	898.490	896.881	893.992	892.982	892.879
15.0	892.069	889.807	886.901	884.660	881.728	879.784	880.119
17.5	878.715	876.301	872.743	870.291	866.889	865.550	866.133
20.0	863.811	860.792	856.656	853.589	850.603	848.826	849.361
22.5	846.461	843.383	838.566	835.763	832.410	830.471	830.477
25.0	827.604	823.014	818.705	815.200	812.614	810.270	811.026
27.5	806.447	802.532	797.245	793.762	790.452	789.356	789.453
30.0	785.030	780.089	774.797	771.255	767.032	765.963	764.775
32.5	761.135	755.455	750.638	746.690	742.030	741.571	740.567
35.0	735.593	730.080	724.567	719.577	716.456	714.490	716.461
37.5	708.221	702.518	697.113	692.442	688.673	686.858	690.655
40.0	679.693	673.963	667.910	662.526	658.546	657.418	661.111
42.5	649.372	643.005	636.973	632.691	628.792	628.123	630.310
45.0	618.435	612.398	606.377	601.220	597.569	597.818	598.315
47.5	585.355	579.717	573.075	568.750	564.743	565.321	568.193
50.0	552.663	545.891	540.200	534.778	531.905	531.722	536.517
52.5	518.184	511.850	505.537	500.456	497.939	498.080	503.539
55.0	482.139	476.923	470.615	466.047	463.228	463.396	467.440
57.5	446.591	440.813	436.039	430.569	428.117	427.502	431.255
60.0	410.135	405.086	399.568	395.253	392.429	392.818	395.809
62.5	373.145	367.578	363.107	359.041	356.881	356.902	361.233
65.0	336.204	330.469	326.106	322.240	319.907	319.788	325.453
67.5	298.339	294.008	290.261	286.416	283.732	283.781	289.316
70.0	262.121	256.775	253.838	249.458	247.487	248.540	251.872
72.5	225.261	221.179	218.241	213.975	213.046	212.614	217.075
75.0	188.822	184.993	183.006	179.534	178.108	178.027	183.217
77.5	153.247	150.822	148.981	145.211	144.266	143.165	148.781
80.0	118.228	116.073	114.070	111.202	110.133	110.020	114.863

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CANDELA TABULATION - (Cont.)

82.5	85.239	83.830	82.118	79.801	78.781	78.419	82.123
85.0	53.282	52.823	54.437	54.302	52.569	49.021	52.213
87.5	24.948	25.699	28.134	27.005	25.304	22.491	24.602
90.0	13.986	16.794	10.886	18.182	12.901	11.713	15.196
92.5	20.914	20.936	20.552	23.350	23.069	20.207	18.743
95.0	24.656	24.856	25.375	27.886	27.832	25.547	23.447
97.5	29.824	29.943	31.212	33.102	33.372	31.579	28.895
100.0	35.316	35.489	37.454	38.815	38.988	37.660	34.895
102.5	41.051	41.423	43.740	44.788	44.707	43.621	41.045
105.0	47.196	47.768	50.436	51.046	50.760	49.847	47.315
107.5	53.789	54.551	57.413	57.758	57.283	56.511	53.984
110.0	60.869	61.814	64.627	64.876	64.217	63.644	61.182
112.5	68.337	69.314	72.311	72.252	71.518	70.794	68.791
115.0	75.902	76.891	79.099	79.753	79.018	78.176	76.545
117.5	83.630	84.694	88.279	87.361	86.627	85.849	84.181
120.0	91.508	92.713	96.352	95.175	94.349	93.944	91.946
122.5	99.527	100.877	104.026	103.189	102.281	101.882	100.262
125.0	107.719	109.042	111.019	111.245	110.311	110.003	108.270
127.5	116.181	117.050	119.615	119.189	118.314	117.585	116.084
130.0	123.844	125.032	127.170	126.970	126.144	125.410	124.135
132.5	131.641	133.007	135.000	134.676	133.780	133.115	132.322
135.0	139.342	140.832	143.257	142.371	141.269	140.978	140.146
137.5	146.934	148.397	151.546	149.801	148.640	148.489	147.382
140.0	154.262	155.785	159.478	156.946	155.855	156.060	154.769
142.5	161.260	162.950	166.034	163.798	162.853	163.301	162.508
145.0	168.064	169.922	171.979	170.521	169.101	169.776	169.015
147.5	174.733	176.240	178.011	176.850	175.289	175.343	174.825
150.0	180.727	182.191	183.870	182.590	181.165	181.267	180.630
152.5	186.224	187.456	189.162	187.888	186.646	186.689	186.197
155.0	191.381	192.694	194.087	192.991	191.700	191.695	191.408
157.5	196.306	197.559	198.877	197.726	196.376	196.382	196.177
160.0	200.788	201.922	203.261	202.036	200.675	200.626	200.551
162.5	204.698	205.789	207.139	205.837	204.466	204.358	204.493
165.0	208.035	209.218	210.541	209.196	207.787	207.565	207.916
167.5	210.902	212.134	213.543	212.096	210.638	210.400	210.805
170.0	213.381	214.704	216.038	214.553	213.003	212.771	213.316
172.5	215.309	216.664	217.976	216.481	215.028	214.666	215.352
175.0	216.664	218.095	219.391	217.928	216.421	215.995	216.799
177.5	217.350	218.851	220.244	218.867	217.323	216.821	217.787
180.0	218.317	218.317	218.317	218.317	218.317	218.317	218.317

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	337.81	N.A.	10.30
0-30	715.59	N.A.	21.80
0-40	1169.57	N.A.	35.70
0-60	2061.35	N.A.	62.80
0-80	2580.68	N.A.	78.70
0-90	2641.88	N.A.	80.50
10-90	2554.28	N.A.	77.90
20-40	831.76	N.A.	25.40
20-50	1300.64	N.A.	39.60
40-70	1216.81	N.A.	37.10
60-80	519.34	N.A.	15.80
70-80	194.31	N.A.	5.90
80-90	61.19	N.A.	1.90
90-110	80.44	N.A.	2.50
90-120	157.64	N.A.	4.80
90-130	255.64	N.A.	7.80
90-150	470.55	N.A.	14.30
90-180	638.60	N.A.	19.50
110-180	558.16	N.A.	17.00
0-180	3280.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.60
10-20	250.21
20-30	377.79
30-40	453.98
40-50	468.88
50-60	422.90
60-70	325.03
70-80	194.31
80-90	61.19
90-100	28.27
100-110	52.17
110-120	77.20
120-130	98.00
130-140	108.79
140-150	106.12
150-160	88.59
160-170	58.83
170-180	20.63

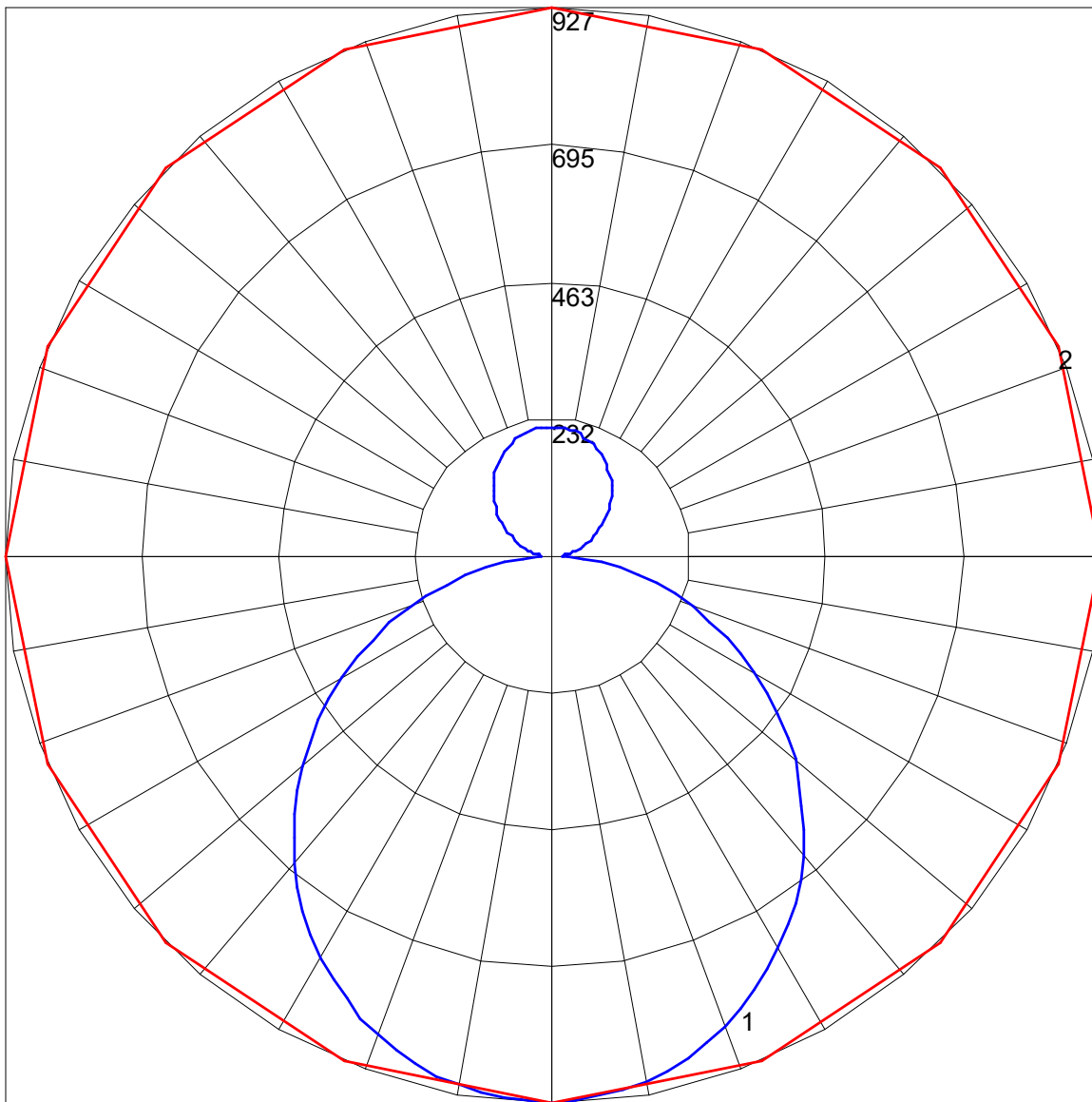
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	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 = 926.84 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.)