



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WALWV-LED35-MO-P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] WALWV-LED35-MO-P (direct/indirect)

[TESTLAB] Intertek

[ISSUE DATE] 7/21/18

[MANUFAC] Prudential Ltg

[\_TOTAL LUMINAIRE LUMENS] 4375.6

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.19 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	930	478	209
55	1057	488	156
65	1116	504	96
75	1006	453	54
85	978	239	23

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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>
<b>0.0</b>	50.342	50.342	50.342	50.342	50.342	50.342	50.342	50.342	50.342	50.342
<b>2.5</b>	51.178	51.912	51.005	51.034	49.075	49.558	49.097	49.990	49.565	49.860
<b>5.0</b>	51.991	53.834	52.106	50.717	48.931	49.550	48.650	48.650	48.161	47.340
<b>7.5</b>	53.100	56.376	52.726	50.350	48.744	48.701	47.074	46.620	46.620	45.662
<b>10.0</b>	55.282	57.960	53.006	50.573	48.550	47.923	45.871	45.850	45.216	45.122
<b>12.5</b>	56.657	59.407	54.547	50.458	47.275	46.382	44.050	43.322	43.466	43.157
<b>15.0</b>	59.839	62.208	56.146	50.969	46.022	45.346	44.201	42.019	42.559	41.868
<b>17.5</b>	63.274	65.009	56.837	51.235	46.634	45.266	41.818	40.903	41.652	40.406
<b>20.0</b>	67.104	67.752	58.169	51.293	46.346	44.172	41.623	39.096	41.098	38.722
<b>22.5</b>	71.345	71.849	58.795	52.531	45.187	42.869	39.312	37.714	39.902	36.641
<b>25.0</b>	76.154	75.132	60.242	50.609	43.992	41.954	38.369	36.410	38.081	35.518
<b>27.5</b>	81.331	79.466	62.993	50.875	43.517	40.550	36.763	34.070	36.821	33.487
<b>30.0</b>	89.424	83.354	63.626	50.645	42.314	39.254	34.819	33.250	35.539	31.579
<b>32.5</b>	92.981	88.042	64.562	50.220	40.709	37.260	34.070	31.406	34.495	30.326
<b>35.0</b>	96.113	90.439	65.218	49.284	39.478	33.962	30.643	28.490	32.083	28.836
<b>37.5</b>	97.790	94.795	66.751	49.241	37.519	32.407	28.829	26.460	29.527	26.230
<b>40.0</b>	97.042	95.890	65.671	47.023	35.741	29.196	26.597	24.055	26.762	22.241
<b>42.5</b>	97.344	96.624	65.534	45.266	34.214	27.562	23.501	20.628	23.681	19.030
<b>45.0</b>	95.983	98.712	65.419	44.345	30.910	24.401	20.246	19.030	21.362	16.546
<b>47.5</b>	94.975	98.662	64.289	41.918	29.419	21.665	18.490	16.553	18.410	14.285
<b>50.0</b>	93.643	99.151	63.497	39.478	26.604	18.814	15.998	13.284	14.710	12.485
<b>52.5</b>	91.973	97.560	62.258	37.073	24.833	17.273	14.076	11.268	12.053	10.476
<b>55.0</b>	90.202	95.530	60.588	36.115	21.391	14.911	11.498	8.870	10.922	8.971
<b>57.5</b>	86.191	93.125	58.262	32.623	18.972	12.499	9.842	7.754	8.762	6.790
<b>60.0</b>	82.512	89.035	56.959	29.203	17.136	9.972	8.366	5.990	6.494	5.695
<b>62.5</b>	77.717	83.945	55.123	26.431	13.666	8.316	7.034	5.616	5.378	4.666
<b>65.0</b>	72.432	77.645	54.374	23.940	11.772	6.898	5.090	4.802	4.385	3.096
<b>67.5</b>	65.952	69.250	52.092	21.218	9.720	4.975	4.925	3.866	3.737	2.621
<b>70.0</b>	59.234	61.315	48.636	20.635	8.345	4.284	3.809	3.146	2.851	2.556
<b>72.5</b>	51.293	52.013	45.288	20.441	7.322	3.650	2.858	2.182	1.534	2.081
<b>75.0</b>	42.689	42.516	39.924	20.556	5.602	4.111	3.809	1.872	1.296	1.267
<b>77.5</b>	36.036	34.927	34.510	20.520	4.248	4.154	3.154	2.621	2.167	2.146
<b>80.0</b>	28.613	28.094	26.474	18.043	3.362	2.642	2.729	2.592	1.872	1.080
<b>82.5</b>	23.544	22.046	20.578	14.285	2.441	2.894	3.269	2.110	1.073	2.189
<b>85.0</b>	18.259	17.525	15.775	11.210	1.843	3.118	3.060	1.483	2.146	2.066
<b>87.5</b>	14.926	13.752	13.010	8.604	1.188	3.485	3.391	2.009	0.497	1.382
<b>90.0</b>	15.293	14.263	10.750	7.006	2.196	3.046	3.996	2.225	1.793	1.879
<b>92.5</b>	14.357	13.140	10.958	7.992	7.877	4.118	4.478	3.852	4.954	3.852
<b>95.0</b>	17.662	16.970	16.250	100.973	18.338	13.896	13.277	10.447	12.398	10.447
<b>97.5</b>	22.716	28.699	314.575	160.949	38.016	26.640	25.034	23.170	23.897	23.170
<b>100.0</b>	338.803	559.534	419.688	224.762	63.274	41.357	42.919	40.946	42.890	40.946
<b>102.5</b>	725.054	672.120	509.026	289.015	94.630	57.924	61.517	61.704	65.009	61.704
<b>105.0</b>	820.397	764.590	586.123	347.098	129.708	76.824	80.554	82.649	86.364	82.649
<b>107.5</b>	902.520	843.912	659.023	405.922	170.640	95.861	99.713	101.470	105.883	101.470
<b>110.0</b>	973.361	908.453	724.176	462.125	215.316	115.711	119.945	121.694	125.006	121.694
<b>112.5</b>	1031.191	965.902	778.104	513.835	260.705	133.668	137.426	140.054	143.093	140.054
<b>115.0</b>	1082.174	1017.137	828.655	560.592	306.007	152.431	156.053	158.278	161.748	158.278
<b>117.5</b>	1122.718	1058.479	869.090	605.729	348.538	167.998	173.477	176.270	179.633	176.270
<b>120.0</b>	1152.612	1086.768	905.990	645.775	385.877	184.003	189.000	191.866	194.926	191.866
<b>122.5</b>	1177.387	1112.422	945.418	687.218	420.552	196.070	205.538	205.445	209.275	205.445
<b>125.0</b>	1196.482	1134.698	971.921	727.834	453.528	209.866	218.477	220.082	223.085	220.082
<b>127.5</b>	1214.287	1154.225	994.730	821.635	483.962	222.674	231.516	233.978	235.159	233.978
<b>130.0</b>	1229.335	1170.929	1013.357	939.168	511.704	236.376	244.174	245.758	246.859	245.758
<b>132.5</b>	1241.287	1181.304	1029.074	954.007	540.072	254.239	255.319	256.882	257.983	256.882

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**CANDELA TABULATION - (Cont.)**

135.0	1246.558	1189.253	1044.763	916.351	565.322	274.154	265.752	266.602	267.689	266.602
137.5	1248.163	1193.717	1055.592	894.888	589.572	298.879	273.118	276.034	277.193	276.034
140.0	1245.499	1197.022	1062.389	887.522	612.950	324.943	279.202	285.149	286.380	285.149
142.5	1241.683	1194.372	1071.410	887.688	634.032	355.644	286.798	291.384	293.400	291.384
145.0	1231.387	1188.454	1123.474	888.530	655.992	385.668	292.399	296.741	299.030	296.741
147.5	1219.824	1179.785	1201.486	888.293	675.403	416.866	300.650	301.054	303.826	301.054
150.0	1207.966	1176.523	1174.961	887.976	692.676	447.041	317.030	304.906	305.870	304.906
152.5	1199.081	1237.766	1112.170	888.595	709.099	479.657	340.294	308.988	308.995	308.988
155.0	1265.674	1269.691	1070.424	889.603	724.486	511.510	371.578	319.176	315.821	319.176
157.5	1275.862	1192.442	1039.450	890.921	737.100	541.426	407.801	341.604	331.330	341.604
160.0	1184.436	1124.100	1010.390	890.302	749.952	572.918	446.803	375.782	362.196	375.782
162.5	1117.058	1074.650	984.146	887.479	761.285	604.800	487.346	418.608	405.518	418.608
165.0	1062.382	1028.225	960.120	881.215	771.818	634.478	529.258	465.113	451.642	465.113
167.5	1014.890	987.718	939.031	872.417	780.156	663.077	572.983	515.347	505.699	515.347
170.0	971.539	954.065	915.926	860.069	787.658	691.841	616.810	568.966	560.952	568.966
172.5	935.798	920.131	888.415	847.001	792.072	721.008	659.203	622.980	619.841	622.980
175.0	894.456	879.746	857.268	832.183	795.838	751.327	703.058	677.354	676.894	677.354
177.5	847.807	835.913	825.034	814.975	798.084	779.515	753.696	736.891	742.522	736.891
180.0	796.745	796.745	796.745	796.745	796.745	796.745	796.745	796.745	796.745	796.745

**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	50.342	50.342	50.342	50.342	50.342	50.342	50.342
2.5	48.535	49.248	49.406	50.609	50.501	51.833	51.178
5.0	48.254	49.010	49.687	51.048	53.086	54.461	51.991
7.5	46.598	48.506	48.758	50.587	52.452	55.843	53.100
10.0	45.626	47.009	48.557	50.602	54.094	57.391	55.282
12.5	44.986	45.598	47.232	50.738	54.583	60.667	56.657
15.0	42.804	44.885	46.742	51.718	55.850	63.799	59.839
17.5	42.710	43.848	45.922	51.185	57.564	65.830	63.274
20.0	40.817	43.099	45.655	51.084	59.299	69.264	67.104
22.5	39.276	41.746	44.633	51.437	60.876	73.260	71.345
25.0	38.153	39.823	44.309	50.940	61.452	76.406	76.154
27.5	36.310	39.830	42.214	51.127	63.518	80.496	81.331
30.0	34.351	38.282	42.271	50.069	64.534	86.400	89.424
32.5	32.378	37.001	40.680	51.451	66.600	90.252	92.981
35.0	30.586	34.258	39.377	50.522	67.464	93.845	96.113
37.5	27.590	32.436	37.210	48.535	68.486	95.652	97.790
40.0	25.171	30.269	35.237	47.945	68.249	97.668	97.042
42.5	22.918	28.044	32.731	46.130	67.874	99.554	97.344
45.0	19.706	23.062	30.672	44.482	66.881	99.864	95.983
47.5	16.769	21.874	28.325	43.286	65.556	98.806	94.975
50.0	14.105	19.390	25.034	40.514	65.419	99.115	93.643
52.5	12.334	16.373	23.206	39.089	64.217	96.552	91.973
55.0	10.238	13.961	20.822	34.841	62.395	94.795	90.202
57.5	8.899	11.930	17.618	31.313	60.077	91.606	86.191
60.0	6.934	9.943	16.013	28.699	58.572	88.754	82.512
62.5	5.501	7.985	12.744	27.245	56.952	82.094	77.717
65.0	4.586	7.063	10.850	24.127	54.878	76.370	72.432
67.5	3.082	5.004	9.439	23.112	51.732	66.830	65.952
70.0	2.369	4.817	7.236	20.779	48.269	57.780	59.234
72.5	2.239	3.485	6.682	22.946	44.424	49.284	51.293
75.0	2.059	2.074	4.572	23.695	38.282	41.285	42.689
77.5	2.650	2.779	3.463	21.938	29.959	32.062	36.036
80.0	2.657	1.296	2.750	17.302	23.242	26.532	28.613

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**CANDELA TABULATION - (Cont.)**

82.5	2.477	2.311	3.348	13.889	17.842	20.930	23.544
85.0	2.772	2.477	2.700	9.230	13.111	16.697	18.259
87.5	1.627	2.009	2.045	6.674	10.541	14.184	14.926
90.0	2.549	2.974	3.694	6.149	11.333	14.760	15.293
92.5	4.478	4.118	7.877	7.992	10.958	13.140	14.357
95.0	13.277	13.896	18.338	100.973	16.250	16.970	17.662
97.5	25.034	26.640	38.016	160.949	314.575	28.699	22.716
100.0	42.919	41.357	63.274	224.762	419.688	559.534	338.803
102.5	61.517	57.924	94.630	289.015	509.026	672.120	725.054
105.0	80.554	76.824	129.708	347.098	586.123	764.590	820.397
107.5	99.713	95.861	170.640	405.922	659.023	843.912	902.520
110.0	119.945	115.711	215.316	462.125	724.176	908.453	973.361
112.5	137.426	133.668	260.705	513.835	778.104	965.902	1031.191
115.0	156.053	152.431	306.007	560.592	828.655	1017.137	1082.174
117.5	173.477	167.998	348.538	605.729	869.090	1058.479	1122.718
120.0	189.000	184.003	385.877	645.775	905.990	1086.768	1152.612
122.5	205.538	196.070	420.552	687.218	945.418	1112.422	1177.387
125.0	218.477	209.866	453.528	727.834	971.921	1134.698	1196.482
127.5	231.516	222.674	483.962	821.635	994.730	1154.225	1214.287
130.0	244.174	236.376	511.704	939.168	1013.357	1170.929	1229.335
132.5	255.319	254.239	540.072	954.007	1029.074	1181.304	1241.287
135.0	265.752	274.154	565.322	916.351	1044.763	1189.253	1246.558
137.5	273.118	298.879	589.572	894.888	1055.592	1193.717	1248.163
140.0	279.202	324.943	612.950	887.522	1062.389	1197.022	1245.499
142.5	286.798	355.644	634.032	887.688	1071.410	1194.372	1241.683
145.0	292.399	385.668	655.992	888.530	1123.474	1188.454	1231.387
147.5	300.650	416.866	675.403	888.293	1201.486	1179.785	1219.824
150.0	317.030	447.041	692.676	887.976	1174.961	1176.523	1207.966
152.5	340.294	479.657	709.099	888.595	1112.170	1237.766	1199.081
155.0	371.578	511.510	724.486	889.603	1070.424	1269.691	1265.674
157.5	407.801	541.426	737.100	890.921	1039.450	1192.442	1275.862
160.0	446.803	572.918	749.952	890.302	1010.390	1124.100	1184.436
162.5	487.346	604.800	761.285	887.479	984.146	1074.650	1117.058
165.0	529.258	634.478	771.818	881.215	960.120	1028.225	1062.382
167.5	572.983	663.077	780.156	872.417	939.031	987.718	1014.890
170.0	616.810	691.841	787.658	860.069	915.926	954.065	971.539
172.5	659.203	721.008	792.072	847.001	888.415	920.131	935.798
175.0	703.058	751.327	795.838	832.183	857.268	879.746	894.456
177.5	753.696	779.515	798.084	814.975	825.034	835.913	847.807
180.0	796.745	796.745	796.745	796.745	796.745	796.745	796.745

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	18.92	N.A.	0.60
0-30	42.37	N.A.	1.30
0-40	74.04	N.A.	2.30
0-60	142.05	N.A.	4.50
0-80	187.46	N.A.	5.90
0-90	196.39	N.A.	6.20
10-90	191.61	N.A.	6.10
20-40	55.11	N.A.	1.70
20-50	89.93	N.A.	2.90
40-70	95.22	N.A.	3.00
60-80	45.41	N.A.	1.40
70-80	18.20	N.A.	0.60
80-90	8.94	N.A.	0.30
90-110	386.52	N.A.	12.30
90-120	854.35	N.A.	27.10
90-130	1376.65	N.A.	43.70
90-150	2326.04	N.A.	73.80
90-180	2954.86	N.A.	93.80
110-180	2568.34	N.A.	81.50
0-180	3151.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	4.78
10-20	14.14
20-30	23.45
30-40	31.67
40-50	34.82
50-60	33.20
60-70	27.21
70-80	18.20
80-90	8.94
90-100	58.58
100-110	327.94
110-120	467.82
120-130	522.30
130-140	510.31
140-150	439.08
150-160	340.76
160-170	213.54
170-180	74.53

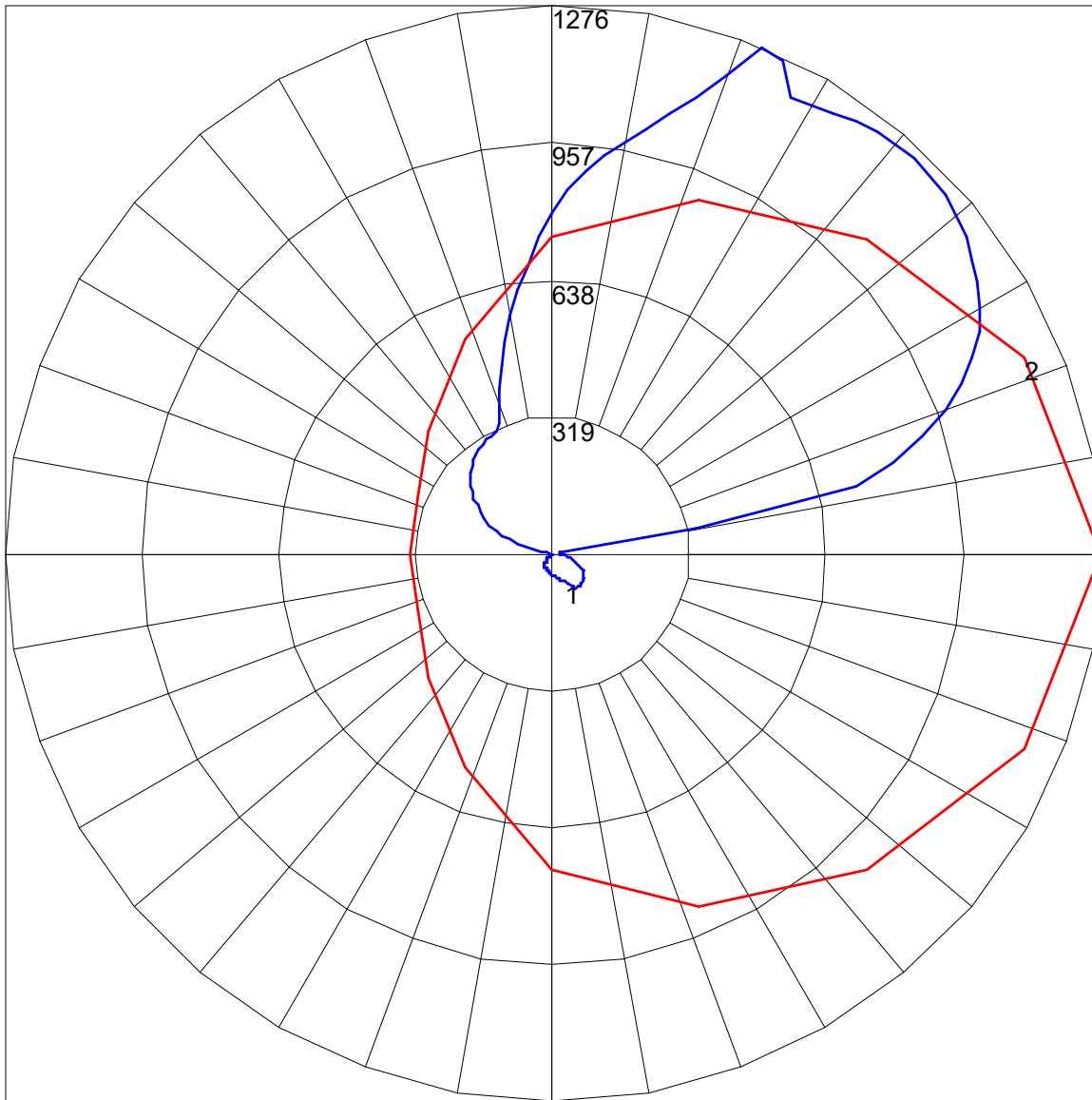
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	97	97	97	97	84	84	84	84	59	59	59	37	37	37	16	16	16	6
1	88	84	80	77	76	72	70	67	51	49	48	32	31	30	14	13	13	5
2	80	73	67	62	69	63	59	55	45	42	39	28	26	25	12	11	11	4
3	73	64	57	52	62	55	50	45	39	36	33	24	22	21	11	10	9	3
4	66	56	49	43	57	49	43	38	35	31	28	22	19	18	9	8	8	3
5	61	50	42	37	52	43	37	32	31	27	24	19	17	15	8	7	7	2
6	56	44	37	31	48	39	32	28	27	23	20	17	15	13	7	6	6	2
7	51	40	32	27	44	35	28	24	25	21	18	15	13	11	7	6	5	2
8	47	36	29	24	41	31	25	21	22	18	15	14	12	10	6	5	4	2
9	44	32	25	21	38	28	22	18	20	16	13	13	10	9	6	5	4	1
10	41	29	23	18	35	26	20	16	18	15	12	12	9	8	5	4	3	1

POLAR GRAPH



Maximum Candela = 1275.862 Located At Horizontal Angle = 0, Vertical Angle = 157.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (157.5) (Through Max. Cd.)