



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] WALWV-LED35-HO-P (direct/indirect)
 [TESTLAB] Intertek
 [ISSUE DATE] 7/21/18
 [MANUFAC] Prudential Ltg
 [_TOTALLUMINAIRELUMENS] 4375.6

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	48
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	1523	784	342
55	1732	800	256
65	1830	826	158
75	1649	742	89
85	1603	392	37

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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	82.506	82.506	82.506	82.506	82.506	82.506	82.506	82.506	82.506	82.506
2.5	83.874	85.078	83.591	83.638	80.429	81.219	80.464	81.927	81.231	81.715
5.0	85.208	88.229	85.397	83.119	80.193	81.208	79.733	79.733	78.930	77.585
7.5	87.025	92.394	86.411	82.517	79.886	79.815	77.148	76.405	76.405	74.836
10.0	90.600	94.990	86.872	82.883	79.567	78.541	75.178	75.142	74.104	73.951
12.5	92.854	97.362	89.397	82.694	77.479	76.016	72.192	71.001	71.237	70.729
15.0	98.070	101.952	92.016	83.532	75.426	74.316	72.440	68.865	69.750	68.617
17.5	103.698	106.542	93.149	83.969	76.429	74.187	68.534	67.036	68.263	66.222
20.0	109.976	111.038	95.332	84.063	75.957	72.393	68.216	64.074	67.354	63.460
22.5	116.926	117.752	96.359	86.093	74.057	70.257	64.428	61.808	65.396	60.050
25.0	124.809	123.133	98.731	82.942	72.098	68.759	62.882	59.673	62.410	58.209
27.5	133.293	130.237	103.238	83.379	71.319	66.458	60.251	55.838	60.345	54.882
30.0	146.556	136.609	104.277	83.001	69.349	64.334	57.065	54.492	58.245	51.755
32.5	152.385	144.290	105.811	82.305	66.717	61.065	55.838	51.472	56.534	49.702
35.0	157.518	148.220	106.884	80.771	64.699	55.661	50.221	46.693	52.581	47.259
37.5	160.268	155.359	109.398	80.700	61.490	53.112	47.247	43.365	48.392	42.987
40.0	159.040	157.152	107.628	77.066	58.575	47.849	43.589	39.424	43.861	36.450
42.5	159.536	158.356	107.404	74.187	56.074	45.170	38.515	33.807	38.810	31.187
45.0	157.306	161.778	107.215	72.676	50.657	39.990	33.182	31.187	35.011	27.116
47.5	155.654	161.695	105.362	68.700	48.215	35.506	30.302	27.128	30.173	23.411
50.0	153.471	162.498	104.064	64.699	43.601	30.833	26.220	21.771	24.107	20.461
52.5	150.733	159.890	102.035	60.758	40.698	28.308	23.069	18.467	19.753	17.169
55.0	147.830	156.562	99.297	59.189	35.058	24.438	18.845	14.538	17.901	14.703
57.5	141.258	152.621	95.486	53.466	31.093	20.485	16.131	12.709	14.361	11.127
60.0	135.228	145.919	93.350	47.861	28.084	16.343	13.712	9.818	10.644	9.334
62.5	127.369	137.576	90.341	43.318	22.396	13.629	11.529	9.204	8.815	7.646
65.0	118.708	127.251	89.114	39.235	19.293	11.304	8.343	7.871	7.186	5.074
67.5	108.088	113.492	85.373	34.775	15.930	8.154	8.071	6.337	6.124	4.295
70.0	97.079	100.489	79.709	33.819	13.676	7.021	6.242	5.157	4.673	4.189
72.5	84.063	85.243	74.222	33.500	12.001	5.983	4.685	3.575	2.513	3.410
75.0	69.962	69.679	65.431	33.689	9.180	6.738	6.242	3.068	2.124	2.077
77.5	59.059	57.242	56.557	33.630	6.962	6.809	5.168	4.295	3.552	3.516
80.0	46.893	46.044	43.389	29.571	5.511	4.331	4.472	4.248	3.068	1.770
82.5	38.586	36.132	33.724	23.411	4.000	4.744	5.357	3.457	1.758	3.587
85.0	29.925	28.721	25.854	18.373	3.021	5.109	5.015	2.431	3.516	3.387
87.5	24.461	22.538	21.323	14.101	1.947	5.711	5.558	3.292	0.814	2.266
90.0	25.063	23.376	17.617	11.481	3.599	4.991	6.549	3.646	2.938	3.080
92.5	23.529	21.535	17.960	13.098	12.909	6.750	7.340	6.313	8.118	6.313
95.0	28.945	27.813	26.633	165.483	30.055	22.774	21.759	17.122	20.320	17.122
97.5	37.229	47.035	515.554	263.777	62.304	43.660	41.029	37.972	39.164	37.972
100.0	555.261	917.013	687.822	368.361	103.698	67.779	70.340	67.107	70.293	67.107
102.5	1188.284	1101.530	834.236	473.664	155.087	94.931	100.819	101.126	106.542	101.126
105.0	1344.539	1253.077	960.591	568.854	212.577	125.906	132.018	135.452	141.541	135.452
107.5	1479.130	1383.078	1080.066	665.260	279.660	157.105	163.418	166.297	173.531	166.297
110.0	1595.230	1488.853	1186.844	757.371	352.879	189.638	196.576	199.444	204.872	199.444
112.5	1690.008	1583.005	1275.226	842.119	427.266	219.067	225.227	229.534	234.513	229.534
115.0	1773.564	1666.974	1358.074	918.748	501.512	249.818	255.753	259.399	265.087	259.399
117.5	1840.009	1734.730	1424.343	992.722	571.214	275.329	284.309	288.888	294.398	288.888
120.0	1889.003	1781.092	1484.818	1058.354	632.409	301.561	309.750	314.446	319.461	314.446
122.5	1929.607	1823.135	1549.434	1126.275	689.238	321.338	336.855	336.701	342.979	336.701
125.0	1960.900	1859.645	1592.870	1192.838	743.282	343.946	358.059	360.691	365.611	360.691
127.5	1990.082	1891.646	1630.253	1346.569	793.161	364.939	379.429	383.465	385.400	383.465
130.0	2014.744	1919.022	1660.779	1539.192	838.626	387.394	400.173	402.769	404.575	402.769
132.5	2034.332	1936.026	1686.539	1563.512	885.118	416.670	418.440	421.000	422.806	421.000

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CANDELA TABULATION - (Cont.)

135.0	2042.969	1949.053	1712.251	1501.798	926.501	449.309	435.538	436.930	438.712	436.930
137.5	2045.601	1956.369	1729.998	1466.622	966.243	489.830	447.609	452.388	454.288	452.388
140.0	2041.235	1961.785	1741.137	1454.551	1004.558	532.546	457.580	467.327	469.345	467.327
142.5	2034.981	1957.443	1755.923	1454.822	1039.108	582.861	470.029	477.546	480.850	477.546
145.0	2018.107	1947.743	1841.248	1456.203	1075.098	632.067	479.210	486.325	490.078	486.325
147.5	1999.156	1933.536	1969.101	1455.813	1106.911	683.196	492.733	493.393	497.936	493.393
150.0	1979.721	1928.191	1925.630	1455.294	1135.219	732.650	519.578	499.706	501.288	499.706
152.5	1965.160	2028.562	1822.722	1456.309	1162.135	786.104	557.703	506.397	506.409	506.397
155.0	2074.298	2080.883	1754.306	1457.961	1187.351	838.307	608.974	523.094	517.595	523.094
157.5	2090.995	1954.281	1703.542	1460.120	1208.025	887.336	668.340	559.851	543.012	559.851
160.0	1941.159	1842.275	1655.918	1459.105	1229.088	938.950	732.261	615.866	593.599	615.866
162.5	1830.735	1761.233	1612.907	1454.480	1247.661	991.200	798.707	686.052	664.600	686.052
165.0	1741.125	1685.146	1573.530	1444.214	1264.925	1039.840	867.394	762.268	740.190	762.268
167.5	1663.293	1618.759	1538.968	1429.794	1278.589	1086.709	939.056	844.597	828.785	844.597
170.0	1592.245	1563.606	1501.102	1409.557	1290.885	1133.850	1010.882	932.471	919.338	932.471
172.5	1533.670	1507.993	1456.014	1388.140	1298.118	1181.652	1080.361	1020.995	1015.850	1020.995
175.0	1465.914	1441.807	1404.967	1363.856	1304.289	1231.342	1152.235	1110.109	1109.353	1110.109
177.5	1389.462	1369.968	1352.138	1335.654	1307.971	1277.539	1235.224	1207.683	1216.910	1207.683
180.0	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776

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	82.506	82.506	82.506	82.506	82.506	82.506	82.506
2.5	79.544	80.712	80.972	82.942	82.765	84.948	83.874
5.0	79.084	80.323	81.432	83.662	87.001	89.255	85.208
7.5	76.370	79.497	79.910	82.907	85.963	91.521	87.025
10.0	74.777	77.042	79.579	82.930	88.653	94.058	90.600
12.5	73.726	74.729	77.408	83.155	89.456	99.427	92.854
15.0	70.151	73.561	76.606	84.759	91.533	104.560	98.070
17.5	69.998	71.862	75.260	83.886	94.341	107.887	103.698
20.0	66.894	70.635	74.824	83.721	97.185	113.516	109.976
22.5	64.369	68.416	73.148	84.299	99.769	120.065	116.926
25.0	62.528	65.266	72.617	83.485	100.713	125.222	124.809
27.5	59.507	65.278	69.183	83.792	104.100	131.924	133.293
30.0	56.298	62.741	69.278	82.057	105.763	141.600	146.556
32.5	53.065	60.640	66.670	84.323	109.150	147.913	152.385
35.0	50.126	56.144	64.534	82.801	110.566	153.801	157.518
37.5	45.218	53.159	60.982	79.544	112.242	156.763	160.268
40.0	41.253	49.607	57.749	78.576	111.852	160.067	159.040
42.5	37.559	45.961	53.643	75.603	111.239	163.159	159.536
45.0	32.297	37.795	50.268	72.900	109.610	163.666	157.306
47.5	27.482	35.848	46.421	70.942	107.439	161.931	155.654
50.0	23.116	31.777	41.029	66.399	107.215	162.439	153.471
52.5	20.213	26.833	38.031	64.062	105.244	158.238	150.733
55.0	16.780	22.880	34.126	57.100	102.259	155.359	147.830
57.5	14.585	19.553	28.875	51.318	98.459	150.131	141.258
60.0	11.363	16.296	26.243	47.035	95.993	145.459	135.228
62.5	9.015	13.086	20.886	44.651	93.338	134.544	127.369
65.0	7.517	11.576	17.783	39.542	89.940	125.163	118.708
67.5	5.050	8.201	15.470	37.878	84.783	109.528	108.088
70.0	3.882	7.894	11.859	34.055	79.107	94.695	97.079
72.5	3.670	5.711	10.950	37.607	72.806	80.771	84.063
75.0	3.375	3.398	7.493	38.834	62.741	67.661	69.962
77.5	4.342	4.555	5.676	35.955	49.100	52.545	59.059
80.0	4.354	2.124	4.508	28.355	38.090	43.483	46.893

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CANDELA TABULATION - (Cont.)

82.5	4.059	3.788	5.487	22.762	29.240	34.303	38.586
85.0	4.543	4.059	4.425	15.128	21.488	27.364	29.925
87.5	2.667	3.292	3.351	10.939	17.275	23.246	24.461
90.0	4.177	4.873	6.053	10.077	18.573	24.190	25.063
92.5	7.340	6.750	12.909	13.098	17.960	21.535	23.529
95.0	21.759	22.774	30.055	165.483	26.633	27.813	28.945
97.5	41.029	43.660	62.304	263.777	515.554	47.035	37.229
100.0	70.340	67.779	103.698	368.361	687.822	917.013	555.261
102.5	100.819	94.931	155.087	473.664	834.236	1101.530	1188.284
105.0	132.018	125.906	212.577	568.854	960.591	1253.077	1344.539
107.5	163.418	157.105	279.660	665.260	1080.066	1383.078	1479.130
110.0	196.576	189.638	352.879	757.371	1186.844	1488.853	1595.230
112.5	225.227	219.067	427.266	842.119	1275.226	1583.005	1690.008
115.0	255.753	249.818	501.512	918.748	1358.074	1666.974	1773.564
117.5	284.309	275.329	571.214	992.722	1424.343	1734.730	1840.009
120.0	309.750	301.561	632.409	1058.354	1484.818	1781.092	1889.003
122.5	336.855	321.338	689.238	1126.275	1549.434	1823.135	1929.607
125.0	358.059	343.946	743.282	1192.838	1592.870	1859.645	1960.900
127.5	379.429	364.939	793.161	1346.569	1630.253	1891.646	1990.082
130.0	400.173	387.394	838.626	1539.192	1660.779	1919.022	2014.744
132.5	418.440	416.670	885.118	1563.512	1686.539	1936.026	2034.332
135.0	435.538	449.309	926.501	1501.798	1712.251	1949.053	2042.969
137.5	447.609	489.830	966.243	1466.622	1729.998	1956.369	2045.601
140.0	457.580	532.546	1004.558	1454.551	1741.137	1961.785	2041.235
142.5	470.029	582.861	1039.108	1454.822	1755.923	1957.443	2034.981
145.0	479.210	632.067	1075.098	1456.203	1841.248	1947.743	2018.107
147.5	492.733	683.196	1106.911	1455.813	1969.101	1933.536	1999.156
150.0	519.578	732.650	1135.219	1455.294	1925.630	1928.191	1979.721
152.5	557.703	786.104	1162.135	1456.309	1822.722	2028.562	1965.160
155.0	608.974	838.307	1187.351	1457.961	1754.306	2080.883	2074.298
157.5	668.340	887.336	1208.025	1460.120	1703.542	1954.281	2090.995
160.0	732.261	938.950	1229.088	1459.105	1655.918	1842.275	1941.159
162.5	798.707	991.200	1247.661	1454.480	1612.907	1761.233	1830.735
165.0	867.394	1039.840	1264.925	1444.214	1573.530	1685.146	1741.125
167.5	939.056	1086.709	1278.589	1429.794	1538.968	1618.759	1663.293
170.0	1010.882	1133.850	1290.885	1409.557	1501.102	1563.606	1592.245
172.5	1080.361	1181.652	1298.118	1388.140	1456.014	1507.993	1533.670
175.0	1152.235	1231.342	1304.289	1363.856	1404.967	1441.807	1465.914
177.5	1235.224	1277.539	1307.971	1335.654	1352.138	1369.968	1389.462
180.0	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776	1305.776

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	31.01	N.A.	0.60
0-30	69.44	N.A.	1.30
0-40	121.34	N.A.	2.30
0-60	232.81	N.A.	4.50
0-80	307.22	N.A.	5.90
0-90	321.87	N.A.	6.20
10-90	314.03	N.A.	6.10
20-40	90.33	N.A.	1.70
20-50	147.39	N.A.	2.90
40-70	156.06	N.A.	3.00
60-80	74.42	N.A.	1.40
70-80	29.83	N.A.	0.60
80-90	14.64	N.A.	0.30
90-110	633.47	N.A.	12.30
90-120	1400.18	N.A.	27.10
90-130	2256.18	N.A.	43.70
90-150	3812.12	N.A.	73.80
90-180	4842.69	N.A.	93.80
110-180	4209.22	N.A.	81.50
0-180	5164.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.83
10-20	23.18
20-30	38.43
30-40	51.90
40-50	57.06
50-60	54.41
60-70	44.59
70-80	29.83
80-90	14.64
90-100	96.01
100-110	537.46
110-120	766.71
120-130	855.99
130-140	836.34
140-150	719.61
150-160	558.47
160-170	349.96
170-180	122.14

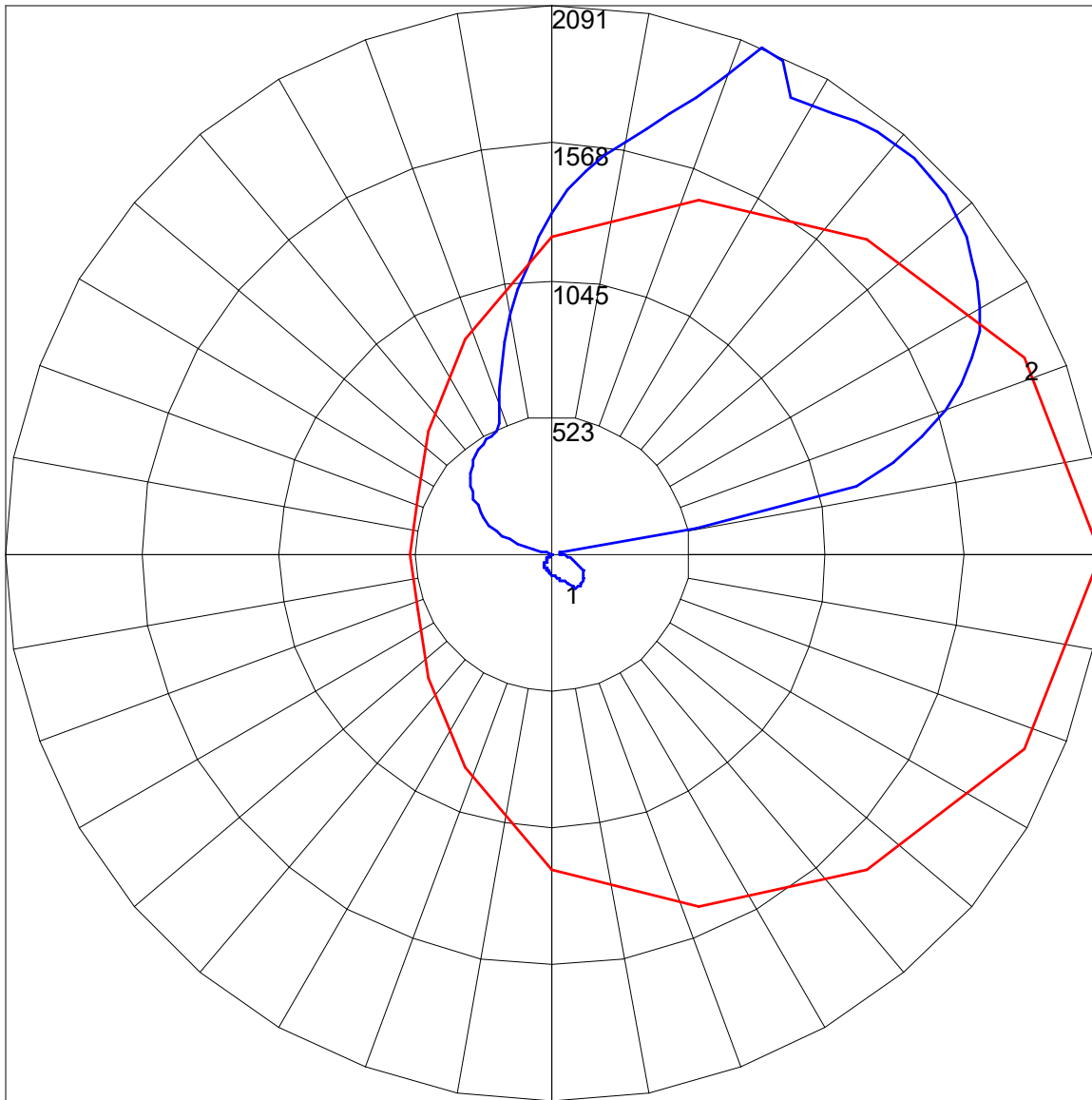
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	69	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 = 2090.995 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.)