



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WALWV-LED35-LO-SD.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] WALWV-LED35-LO-SD (indirect)

[TESTLAB]INTERTEK

[ISSUE DATE] 7-20-18

[MANUFAC] PRUDENTIAL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	18
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	3.648	4.531	4.425	5.520	3.933	4.186	3.427	3.031	1.960	3.031
95.0	7.383	8.087	8.519	60.219	10.493	10.888	10.856	9.899	10.198	9.899
97.5	12.636	14.564	121.941	103.279	20.981	20.640	22.568	21.491	23.060	21.491
100.0	55.398	283.286	271.409	144.711	36.230	32.701	36.276	36.943	39.956	36.943
102.5	456.716	433.182	330.459	186.746	54.630	46.248	51.193	53.516	55.918	53.516
105.0	531.760	497.025	383.902	224.337	76.263	61.134	66.576	69.616	73.444	69.616
107.5	588.404	550.505	432.303	264.068	98.297	76.457	82.377	86.163	89.622	86.163
110.0	636.534	597.374	475.249	300.960	122.273	93.072	98.537	102.097	106.002	102.097
112.5	677.410	635.458	510.540	335.602	146.680	108.358	114.121	118.206	121.265	118.206
115.0	711.358	667.055	539.267	368.023	171.249	124.306	129.508	133.690	137.301	133.690
117.5	738.847	695.216	566.729	398.553	194.787	138.621	144.859	148.318	151.234	148.318
120.0	760.743	713.511	589.610	425.440	219.181	152.633	159.450	162.923	166.019	162.923
122.5	772.547	728.185	612.191	449.797	241.339	164.919	173.595	176.631	179.800	176.631
125.0	782.745	741.249	631.644	473.142	264.546	175.835	187.482	189.879	192.285	189.879
127.5	792.511	753.747	646.916	493.442	285.752	186.866	200.049	202.359	204.590	202.359
130.0	800.952	762.188	660.675	511.074	306.457	196.333	211.582	213.983	216.356	213.983
132.5	806.679	768.490	670.045	528.397	326.103	206.439	222.543	225.653	226.785	225.653

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CANDELA TABULATION - (Cont.)

135.0	809.968	774.014	679.806	541.236	345.244	216.292	231.398	235.888	237.866	235.888
137.5	811.803	776.958	688.583	552.363	363.037	226.969	238.657	245.290	246.634	245.290
140.0	809.572	777.423	693.846	560.551	379.923	240.911	245.203	253.428	255.636	253.428
142.5	807.525	776.609	696.509	567.999	395.858	255.521	250.856	260.296	262.780	260.296
145.0	802.617	775.114	696.767	576.017	410.380	271.087	255.245	265.760	268.645	265.760
147.5	795.570	770.666	695.709	580.019	424.589	288.107	259.684	269.542	272.762	269.542
150.0	786.720	763.278	690.920	582.608	437.488	305.403	263.759	272.164	275.600	272.164
152.5	776.066	753.843	684.715	582.627	448.730	324.088	270.057	274.270	276.805	274.270
155.0	763.195	741.649	677.516	582.102	459.784	342.102	279.537	276.097	277.872	276.097
157.5	748.604	727.582	667.492	580.391	468.574	360.907	294.796	278.857	279.091	278.857
160.0	730.659	710.617	656.963	577.668	477.609	379.196	312.533	287.252	284.657	287.252
162.5	710.024	692.047	644.101	573.330	484.914	397.408	333.955	303.563	298.080	303.563
165.0	688.105	670.694	629.321	568.279	492.103	415.716	356.831	324.484	319.199	324.484
167.5	662.768	647.441	611.759	562.345	498.258	434.070	380.912	349.963	344.798	349.963
170.0	635.876	622.748	593.828	554.530	503.314	450.703	406.171	378.263	374.693	378.263
172.5	607.770	595.801	573.413	545.045	506.883	466.799	432.395	410.789	407.505	410.789
175.0	576.527	566.485	551.715	534.368	508.774	482.982	457.580	442.755	441.402	442.755
177.5	543.044	536.930	529.814	522.601	510.053	497.623	481.965	474.439	477.259	474.439
180.0	508.599	508.599	508.599	508.599	508.599	508.599	508.599	508.599	508.599	508.599

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	3.427	4.186	3.933	5.520	4.425	4.531	3.648
95.0	10.856	10.888	10.493	60.219	8.519	8.087	7.383
97.5	22.568	20.640	20.981	103.279	121.941	14.564	12.636
100.0	36.276	32.701	36.230	144.711	271.409	283.286	55.398
102.5	51.193	46.248	54.630	186.746	330.459	433.182	456.716
105.0	66.576	61.134	76.263	224.337	383.902	497.025	531.760
107.5	82.377	76.457	98.297	264.068	432.303	550.505	588.404
110.0	98.537	93.072	122.273	300.960	475.249	597.374	636.534
112.5	114.121	108.358	146.680	335.602	510.540	635.458	677.410
115.0	129.508	124.306	171.249	368.023	539.267	667.055	711.358
117.5	144.859	138.621	194.787	398.553	566.729	695.216	738.847
120.0	159.450	152.633	219.181	425.440	589.610	713.511	760.743
122.5	173.595	164.919	241.339	449.797	612.191	728.185	772.547
125.0	187.482	175.835	264.546	473.142	631.644	741.249	782.745
127.5	200.049	186.866	285.752	493.442	646.916	753.747	792.511
130.0	211.582	196.333	306.457	511.074	660.675	762.188	800.952
132.5	222.543	206.439	326.103	528.397	670.045	768.490	806.679
135.0	231.398	216.292	345.244	541.236	679.806	774.014	809.968
137.5	238.657	226.969	363.037	552.363	688.583	776.958	811.803
140.0	245.203	240.911	379.923	560.551	693.846	777.423	809.572
142.5	250.856	255.521	395.858	567.999	696.509	776.609	807.525
145.0	255.245	271.087	410.380	576.017	696.767	775.114	802.617
147.5	259.684	288.107	424.589	580.019	695.709	770.666	795.570
150.0	263.759	305.403	437.488	582.608	690.920	763.278	786.720
152.5	270.057	324.088	448.730	582.627	684.715	753.843	776.066
155.0	279.537	342.102	459.784	582.102	677.516	741.649	763.195
157.5	294.796	360.907	468.574	580.391	667.492	727.582	748.604
160.0	312.533	379.196	477.609	577.668	656.963	710.617	730.659
162.5	333.955	397.408	484.914	573.330	644.101	692.047	710.024
165.0	356.831	415.716	492.103	568.279	629.321	670.694	688.105
167.5	380.912	434.070	498.258	562.345	611.759	647.441	662.768
170.0	406.171	450.703	503.314	554.530	593.828	622.748	635.876
172.5	432.395	466.799	506.883	545.045	573.413	595.801	607.770
175.0	457.580	482.982	508.774	534.368	551.715	566.485	576.527
177.5	481.965	497.623	510.053	522.601	529.814	536.930	543.044
180.0	508.599	508.599	508.599	508.599	508.599	508.599	508.599

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	248.08	N.A.	12.60
90-120	563.32	N.A.	28.60
90-130	915.23	N.A.	46.50
90-150	1553.95	N.A.	79.00
90-180	1966.65	N.A.	100.00
110-180	1718.57	N.A.	87.40
0-180	1966.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	32.17
100-110	215.91
110-120	315.25
120-130	351.90
130-140	342.30
140-150	296.43
150-160	224.31
160-170	140.17
170-180	48.22

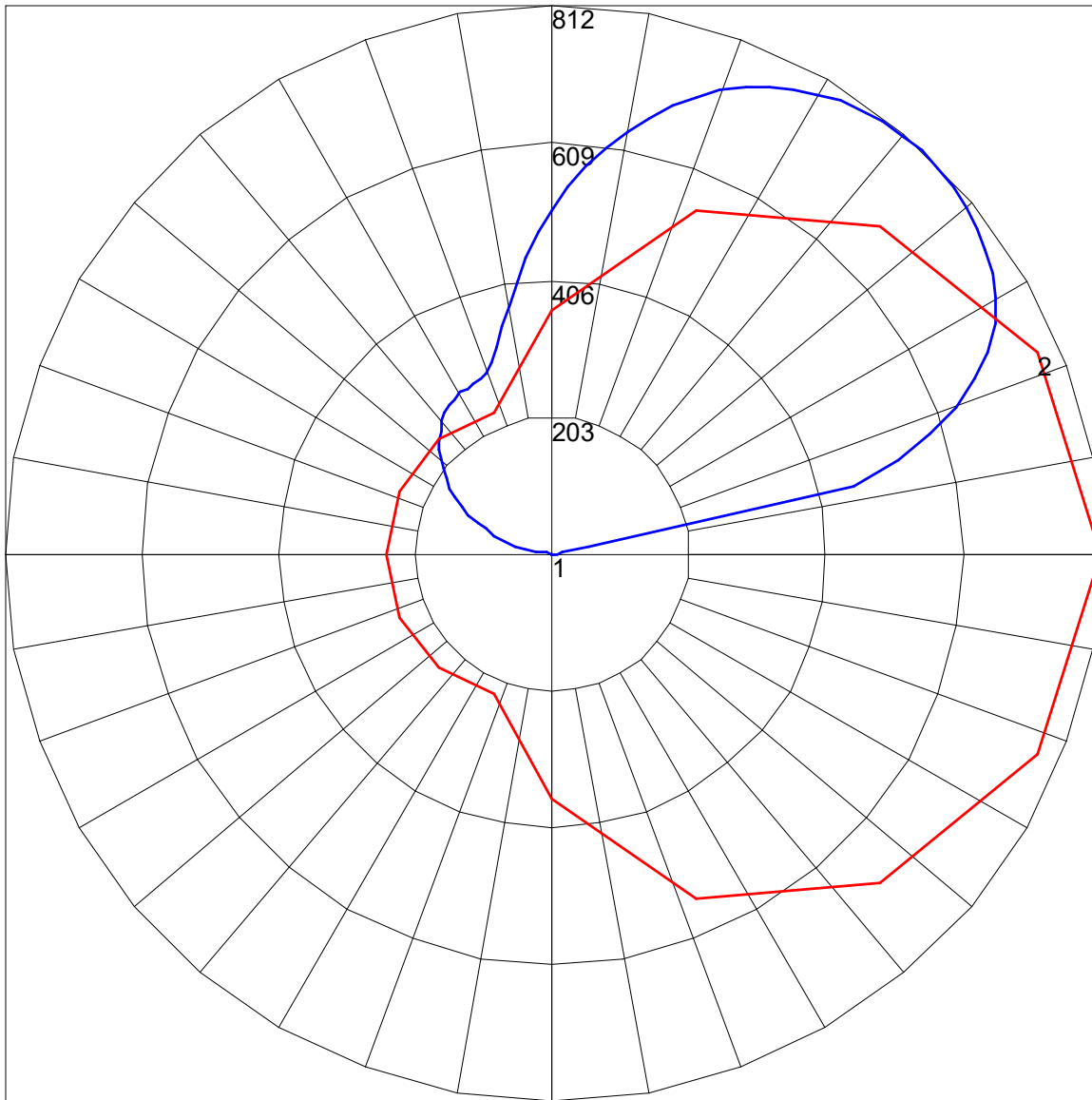
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 811.803 Located At Horizontal Angle = 0, Vertical Angle = 137.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (137.5) (Through Max. Cd.)