



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAL14-LED35-MO-04-P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Wal14-LED35-MO-04-P  
 [TESTLAB] Intertek  
 [ISSUE DATE] October 12, 2016  
 [MANUFAC] Prudential Ltg

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2277
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.58 ft
Luminous Height	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1762	833	291
55	2559	1102	269
65	3823	1462	244
75	6382	2030	215
85	15395	3153	143

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WAL14-LED35-MO-04-PIES**

**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>	75.103	75.103	75.103	75.103	75.103	75.103	75.103	75.103	75.103	75.103
<b>2.5</b>	110.326	111.348	100.966	88.812	75.305	66.146	61.589	60.530	59.782	60.530
<b>5.0</b>	137.844	142.927	134.446	103.536	75.384	61.841	61.531	63.079	63.734	63.079
<b>7.5</b>	104.926	102.456	126.763	120.665	75.600	61.373	64.706	67.363	68.789	67.363
<b>10.0</b>	120.168	115.186	104.018	139.874	75.384	62.827	68.234	71.129	73.195	71.129
<b>12.5</b>	106.942	116.849	113.004	137.196	75.110	64.490	71.093	77.810	83.966	77.810
<b>15.0</b>	97.279	95.702	116.770	114.458	74.311	65.988	75.146	92.527	103.536	92.527
<b>17.5</b>	104.818	100.613	100.699	95.314	73.778	67.781	83.455	113.263	129.132	113.263
<b>20.0</b>	116.640	109.498	91.210	100.454	73.138	69.358	96.019	138.607	158.760	138.607
<b>22.5</b>	129.859	120.744	93.665	97.985	72.094	70.250	112.126	166.140	189.922	166.140
<b>25.0</b>	144.842	133.121	98.525	99.014	70.913	71.539	130.846	194.486	220.637	194.486
<b>27.5</b>	162.209	146.988	104.926	94.608	69.581	73.858	150.970	222.365	249.862	222.365
<b>30.0</b>	179.914	161.525	111.881	81.454	68.249	77.947	171.742	248.501	275.299	248.501
<b>32.5</b>	197.712	176.522	119.290	73.138	66.845	83.642	192.427	271.375	296.820	271.375
<b>35.0</b>	214.574	191.246	127.152	69.343	65.196	90.346	212.522	289.742	312.890	289.742
<b>37.5</b>	231.782	205.747	135.029	67.291	63.518	98.237	230.854	303.934	324.490	303.934
<b>40.0</b>	248.616	219.838	142.769	66.060	61.610	107.078	246.499	313.884	331.524	313.884
<b>42.5</b>	265.133	233.654	150.235	65.484	59.458	116.446	258.847	319.795	334.807	319.795
<b>45.0</b>	281.628	247.046	157.399	65.203	57.377	126.173	267.523	321.847	334.426	321.847
<b>47.5</b>	296.050	259.697	164.282	64.987	54.742	135.670	272.729	320.508	331.092	320.508
<b>50.0</b>	310.946	271.850	170.791	64.800	52.265	144.965	274.442	316.598	326.074	316.598
<b>52.5</b>	323.770	283.082	176.875	64.548	49.795	153.166	273.010	310.752	319.378	310.752
<b>55.0</b>	337.442	293.926	182.614	64.289	47.110	160.106	268.812	303.797	312.070	303.797
<b>57.5</b>	349.322	303.739	187.898	63.958	43.956	165.060	262.260	295.711	304.322	295.711
<b>60.0</b>	360.842	312.682	192.794	63.562	41.198	167.479	254.232	288.151	298.303	288.151
<b>62.5</b>	372.132	321.451	197.165	63.086	38.642	166.925	245.542	281.254	291.312	281.254
<b>65.0</b>	381.960	329.659	200.794	62.546	36.180	163.656	235.937	274.018	284.738	274.018
<b>67.5</b>	391.637	336.924	204.106	62.086	33.689	157.788	227.866	267.358	278.928	267.358
<b>70.0</b>	399.715	343.426	207.382	61.675	31.003	149.436	219.758	261.605	274.788	261.605
<b>72.5</b>	407.606	349.322	210.276	61.330	28.159	139.558	212.558	258.566	274.334	258.566
<b>75.0</b>	414.259	354.398	212.724	60.926	24.926	129.888	207.310	260.633	288.554	260.633
<b>77.5</b>	419.746	358.459	214.675	60.631	21.125	120.751	206.287	294.516	365.148	294.516
<b>80.0</b>	424.361	361.634	216.122	60.826	16.488	114.084	231.350	414.648	440.064	414.648
<b>82.5</b>	427.745	363.780	217.130	61.006	14.069	113.155	356.940	298.368	283.104	298.368
<b>85.0</b>	430.049	365.155	217.714	61.222	11.527	194.299	208.663	248.400	262.260	248.400
<b>87.5</b>	430.927	365.638	217.879	61.409	6.696	108.324	192.089	244.375	260.561	244.375
<b>90.0</b>	428.782	364.370	217.462	61.546	5.004	99.403	190.015	242.561	260.647	242.561
<b>92.5</b>	426.672	362.470	216.094	60.919	6.552	122.969	193.932	246.874	263.743	246.874
<b>95.0</b>	423.353	359.669	214.222	60.214	10.390	171.612	203.155	247.579	263.873	247.579
<b>97.5</b>	418.824	355.975	211.939	59.486	13.680	130.090	264.103	266.321	276.941	266.321
<b>100.0</b>	413.424	351.454	209.246	58.752	15.869	110.232	255.226	330.703	350.539	330.703
<b>102.5</b>	406.915	346.140	206.071	58.046	17.734	112.226	217.058	318.031	347.270	318.031
<b>105.0</b>	399.240	339.919	202.507	57.514	19.584	119.030	201.089	273.967	295.402	273.967
<b>107.5</b>	390.816	332.935	198.490	57.103	21.276	129.197	199.454	252.828	269.755	252.828
<b>110.0</b>	381.672	325.289	193.982	56.650	22.910	139.529	202.716	247.054	260.899	247.054
<b>112.5</b>	371.758	317.052	189.151	56.311	24.502	148.651	208.274	247.882	260.914	247.882
<b>115.0</b>	360.828	307.987	184.140	56.138	26.129	155.866	214.819	251.287	263.052	251.287
<b>117.5</b>	348.941	298.109	178.862	56.038	27.835	160.956	222.898	256.270	267.451	256.270
<b>120.0</b>	336.370	287.755	173.095	55.973	29.585	163.663	232.567	261.950	272.686	261.950
<b>122.5</b>	323.446	276.977	166.982	55.879	31.349	163.901	241.625	267.804	278.352	267.804
<b>125.0</b>	309.823	265.378	160.517	55.793	33.163	161.676	249.408	275.198	283.702	275.198
<b>127.5</b>	295.193	253.174	153.878	55.721	34.942	157.270	255.571	283.428	291.593	283.428
<b>130.0</b>	280.130	240.322	147.038	55.728	36.655	151.013	259.546	290.585	299.081	290.585
<b>132.5</b>	264.794	227.153	139.982	55.735	38.304	143.482	260.950	296.280	305.431	296.280

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**CANDELA TABULATION - (Cont.)**

135.0	248.767	213.631	132.696	55.692	39.830	135.331	259.229	300.074	310.126	300.074
137.5	232.229	199.764	125.395	55.685	41.249	126.799	254.261	301.514	312.494	301.514
140.0	215.158	185.623	118.073	55.757	42.581	118.130	245.938	299.758	312.142	299.758
142.5	198.166	171.382	110.772	56.153	43.733	109.534	234.338	294.473	308.254	294.473
145.0	181.620	157.277	103.630	60.646	44.719	101.311	219.838	285.228	300.204	285.228
147.5	165.197	143.460	97.006	69.790	45.634	93.679	202.896	271.937	287.762	271.937
150.0	148.982	130.118	90.864	75.463	46.490	86.933	184.378	254.318	270.886	254.318
152.5	133.308	117.641	85.169	75.096	47.462	81.144	165.139	232.913	249.638	232.913
155.0	119.153	106.567	79.978	74.902	48.125	76.226	145.750	208.498	223.798	208.498
157.5	106.891	96.415	75.542	71.316	48.823	72.590	126.806	182.261	195.142	182.261
160.0	95.623	87.530	79.848	75.074	49.378	70.639	109.274	155.678	166.018	155.678
162.5	85.846	80.136	94.536	85.680	49.889	69.581	94.241	130.147	138.197	130.147
165.0	78.451	94.082	86.666	82.865	50.119	68.998	82.318	107.086	112.493	107.086
167.5	100.260	92.909	78.142	70.790	50.537	68.314	73.966	88.322	90.828	88.322
170.0	88.870	80.827	88.085	61.445	50.486	65.318	70.070	75.182	75.276	75.182
172.5	77.314	87.682	76.651	55.152	50.594	60.984	68.249	69.415	68.796	69.415
175.0	78.300	67.896	58.687	51.055	50.400	56.722	63.223	66.362	65.894	66.362
177.5	54.137	51.502	49.910	48.881	50.162	53.150	55.440	57.406	55.202	57.406
180.0	49.291	49.291	49.291	49.291	49.291	49.291	49.291	49.291	49.291	49.291

**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	75.103	75.103	75.103	75.103	75.103	75.103	75.103
2.5	61.589	66.146	75.305	88.812	100.966	111.348	110.326
5.0	61.531	61.841	75.384	103.536	134.446	142.927	137.844
7.5	64.706	61.373	75.600	120.665	126.763	102.456	104.926
10.0	68.234	62.827	75.384	139.874	104.018	115.186	120.168
12.5	71.093	64.490	75.110	137.196	113.004	116.849	106.942
15.0	75.146	65.988	74.311	114.458	116.770	95.702	97.279
17.5	83.455	67.781	73.778	95.314	100.699	100.613	104.818
20.0	96.019	69.358	73.138	100.454	91.210	109.498	116.640
22.5	112.126	70.250	72.094	97.985	93.665	120.744	129.859
25.0	130.846	71.539	70.913	99.014	98.525	133.121	144.842
27.5	150.970	73.858	69.581	94.608	104.926	146.988	162.209
30.0	171.742	77.947	68.249	81.454	111.881	161.525	179.914
32.5	192.427	83.642	66.845	73.138	119.290	176.522	197.712
35.0	212.522	90.346	65.196	69.343	127.152	191.246	214.574
37.5	230.854	98.237	63.518	67.291	135.029	205.747	231.782
40.0	246.499	107.078	61.610	66.060	142.769	219.838	248.616
42.5	258.847	116.446	59.458	65.484	150.235	233.654	265.133
45.0	267.523	126.173	57.377	65.203	157.399	247.046	281.628
47.5	272.729	135.670	54.742	64.987	164.282	259.697	296.050
50.0	274.442	144.965	52.265	64.800	170.791	271.850	310.946
52.5	273.010	153.166	49.795	64.548	176.875	283.082	323.770
55.0	268.812	160.106	47.110	64.289	182.614	293.926	337.442
57.5	262.260	165.060	43.956	63.958	187.898	303.739	349.322
60.0	254.232	167.479	41.198	63.562	192.794	312.682	360.842
62.5	245.542	166.925	38.642	63.086	197.165	321.451	372.132
65.0	235.937	163.656	36.180	62.546	200.794	329.659	381.960
67.5	227.866	157.788	33.689	62.086	204.106	336.924	391.637
70.0	219.758	149.436	31.003	61.675	207.382	343.426	399.715
72.5	212.558	139.558	28.159	61.330	210.276	349.322	407.606
75.0	207.310	129.888	24.926	60.926	212.724	354.398	414.259
77.5	206.287	120.751	21.125	60.631	214.675	358.459	419.746
80.0	231.350	114.084	16.488	60.826	216.122	361.634	424.361

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**CANDELA TABULATION - (Cont.)**

82.5	356.940	113.155	14.069	61.006	217.130	363.780	427.745
85.0	208.663	194.299	11.527	61.222	217.714	365.155	430.049
87.5	192.089	108.324	6.696	61.409	217.879	365.638	430.927
90.0	190.015	99.403	5.004	61.546	217.462	364.370	428.782
92.5	193.932	122.969	6.552	60.919	216.094	362.470	426.672
95.0	203.155	171.612	10.390	60.214	214.222	359.669	423.353
97.5	264.103	130.090	13.680	59.486	211.939	355.975	418.824
100.0	255.226	110.232	15.869	58.752	209.246	351.454	413.424
102.5	217.058	112.226	17.734	58.046	206.071	346.140	406.915
105.0	201.089	119.030	19.584	57.514	202.507	339.919	399.240
107.5	199.454	129.197	21.276	57.103	198.490	332.935	390.816
110.0	202.716	139.529	22.910	56.650	193.982	325.289	381.672
112.5	208.274	148.651	24.502	56.311	189.151	317.052	371.758
115.0	214.819	155.866	26.129	56.138	184.140	307.987	360.828
117.5	222.898	160.956	27.835	56.038	178.862	298.109	348.941
120.0	232.567	163.663	29.585	55.973	173.095	287.755	336.370
122.5	241.625	163.901	31.349	55.879	166.982	276.977	323.446
125.0	249.408	161.676	33.163	55.793	160.517	265.378	309.823
127.5	255.571	157.270	34.942	55.721	153.878	253.174	295.193
130.0	259.546	151.013	36.655	55.728	147.038	240.322	280.130
132.5	260.950	143.482	38.304	55.735	139.982	227.153	264.794
135.0	259.229	135.331	39.830	55.692	132.696	213.631	248.767
137.5	254.261	126.799	41.249	55.685	125.395	199.764	232.229
140.0	245.938	118.130	42.581	55.757	118.073	185.623	215.158
142.5	234.338	109.534	43.733	56.153	110.772	171.382	198.166
145.0	219.838	101.311	44.719	60.646	103.630	157.277	181.620
147.5	202.896	93.679	45.634	69.790	97.006	143.460	165.197
150.0	184.378	86.933	46.490	75.463	90.864	130.118	148.982
152.5	165.139	81.144	47.462	75.096	85.169	117.641	133.308
155.0	145.750	76.226	48.125	74.902	79.978	106.567	119.153
157.5	126.806	72.590	48.823	71.316	75.542	96.415	106.891
160.0	109.274	70.639	49.378	75.074	79.848	87.530	95.623
162.5	94.241	69.581	49.889	85.680	94.536	80.136	85.846
165.0	82.318	68.998	50.119	82.865	86.666	94.082	78.451
167.5	73.966	68.314	50.537	70.790	78.142	92.909	100.260
170.0	70.070	65.318	50.486	61.445	88.085	80.827	88.870
172.5	68.249	60.984	50.594	55.152	76.651	87.682	77.314
175.0	63.223	56.722	50.400	51.055	58.687	67.896	78.300
177.5	55.440	53.150	50.162	48.881	49.910	51.502	54.137
180.0	49.291	49.291	49.291	49.291	49.291	49.291	49.291

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	35.26	N.A.	1.50
0-30	92.62	N.A.	4.10
0-40	195.58	N.A.	8.60
0-60	529.10	N.A.	23.20
0-80	950.19	N.A.	41.70
0-90	1177.25	N.A.	51.70
10-90	1168.77	N.A.	51.30
20-40	160.32	N.A.	7.00
20-50	309.90	N.A.	13.60
40-70	536.29	N.A.	23.60
60-80	421.09	N.A.	18.50
70-80	218.33	N.A.	9.60
80-90	227.06	N.A.	10.00
90-110	429.26	N.A.	18.90
90-120	616.46	N.A.	27.10
90-130	784.17	N.A.	34.40
90-150	1016.29	N.A.	44.60
90-180	1099.78	N.A.	48.30
110-180	670.51	N.A.	29.40
0-180	2277.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	8.48
10-20	26.78
20-30	57.36
30-40	102.95
40-50	149.58
50-60	183.94
60-70	202.76
70-80	218.33
80-90	227.06
90-100	219.35
100-110	209.92
110-120	187.20
120-130	167.71
130-140	136.68
140-150	95.44
150-160	53.36
160-170	23.98
170-180	6.15

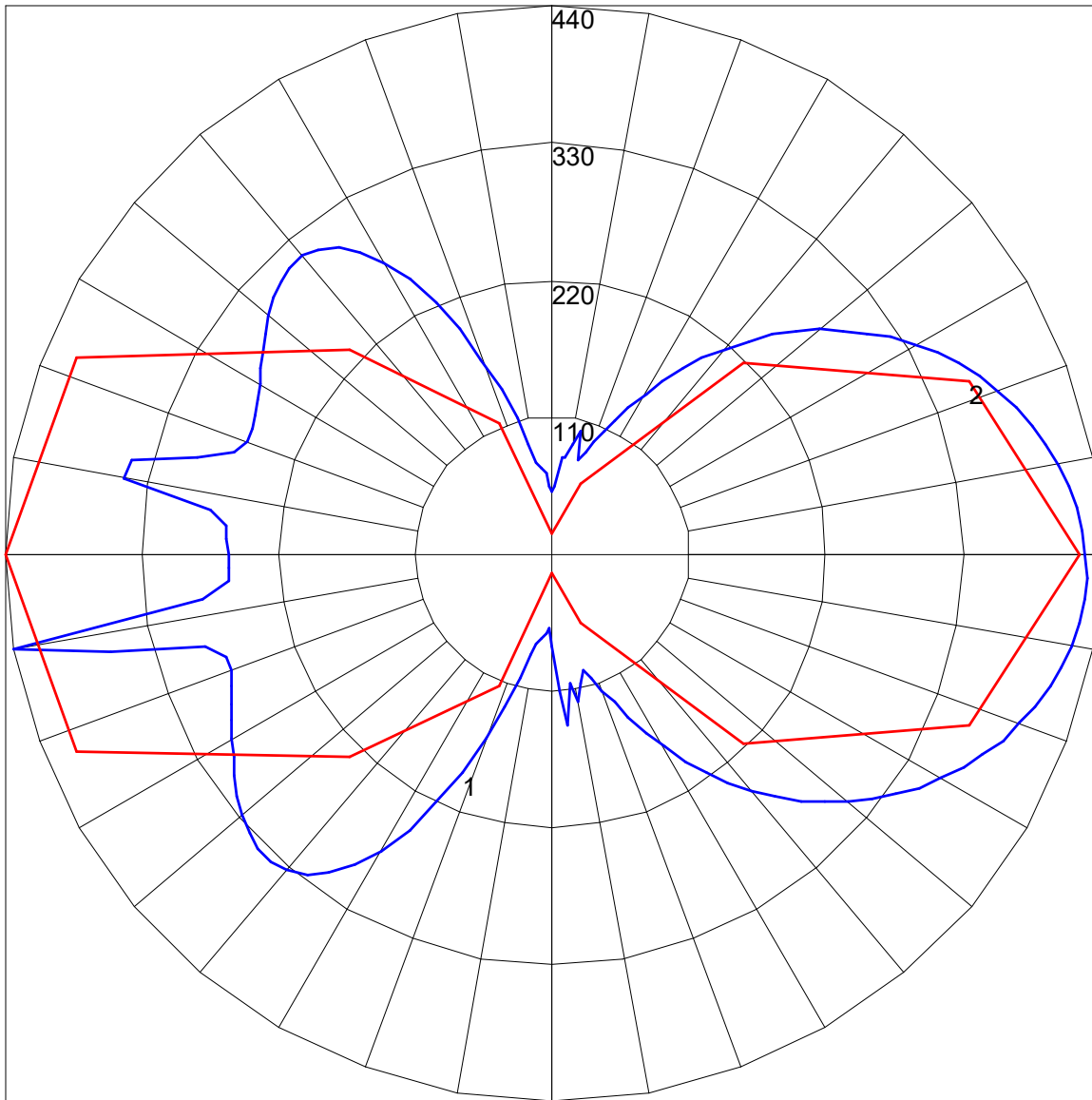
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	93	87	81	76	85	80	74	70	66	62	59	54	51	48	43	41	39	33
2	83	73	65	58	75	67	59	53	55	50	45	45	40	37	35	32	29	24
3	74	62	53	46	68	57	49	42	47	41	35	38	33	29	29	26	22	18
4	67	54	44	37	61	50	41	34	41	34	29	33	27	23	25	21	18	14
5	61	47	38	31	56	43	35	28	36	29	24	29	23	19	22	18	15	11
6	56	42	33	26	51	39	30	24	32	25	20	26	20	16	20	16	12	9
7	51	38	29	22	47	34	26	20	29	22	17	23	18	14	18	14	10	8
8	48	34	25	19	43	31	23	18	26	19	15	21	16	12	16	12	9	6
9	44	31	22	17	40	28	21	15	23	17	13	19	14	10	15	11	8	5
10	41	28	20	15	37	26	18	14	21	15	11	17	12	9	14	10	7	5

POLAR GRAPH



Maximum Candela = 440.064 Located At Horizontal Angle = 180, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)