



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Wal14-LED35-LO-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	1518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	18
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	1175	555	194
55	1706	735	179
65	2549	975	163
75	4255	1354	143
85	10263	2102	95

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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>	50.069	50.069	50.069	50.069	50.069	50.069	50.069	50.069	50.069	50.069
<b>2.5</b>	73.550	74.232	67.310	59.208	50.203	44.098	41.059	40.354	39.854	40.354
<b>5.0</b>	91.896	95.285	89.630	69.024	50.256	41.227	41.021	42.053	42.490	42.053
<b>7.5</b>	69.950	68.304	84.509	80.443	50.400	40.915	43.138	44.909	45.859	44.909
<b>10.0</b>	80.112	76.790	69.346	93.250	50.256	41.885	45.490	47.419	48.797	47.419
<b>12.5</b>	71.294	77.899	75.336	91.464	50.074	42.994	47.395	51.874	55.978	51.874
<b>15.0</b>	64.853	63.802	77.846	76.306	49.541	43.992	50.098	61.685	69.024	61.685
<b>17.5</b>	69.878	67.075	67.133	63.542	49.186	45.187	55.637	75.509	86.088	75.509
<b>20.0</b>	77.760	72.998	60.806	66.970	48.758	46.238	64.013	92.405	105.840	92.405
<b>22.5</b>	86.573	80.496	62.443	65.323	48.062	46.834	74.750	110.760	126.614	110.760
<b>25.0</b>	96.562	88.747	65.683	66.010	47.275	47.693	87.230	129.658	147.091	129.658
<b>27.5</b>	108.139	97.992	69.950	63.072	46.387	49.238	100.646	148.243	166.574	148.243
<b>30.0</b>	119.942	107.683	74.587	54.302	45.499	51.965	114.494	165.667	183.533	165.667
<b>32.5</b>	131.808	117.682	79.526	48.758	44.563	55.762	128.285	180.917	197.880	180.917
<b>35.0</b>	143.050	127.498	84.768	46.229	43.464	60.230	141.682	193.162	208.594	193.162
<b>37.5</b>	154.522	137.165	90.019	44.861	42.346	65.491	153.902	202.622	216.326	202.622
<b>40.0</b>	165.744	146.558	95.179	44.040	41.074	71.386	164.333	209.256	221.016	209.256
<b>42.5</b>	176.755	155.770	100.157	43.656	39.638	77.630	172.565	213.197	223.205	213.197
<b>45.0</b>	187.752	164.698	104.933	43.469	38.251	84.115	178.349	214.565	222.950	214.565
<b>47.5</b>	197.366	173.131	109.522	43.325	36.494	90.446	181.819	213.672	220.728	213.672
<b>50.0</b>	207.298	181.234	113.861	43.200	34.843	96.643	182.962	211.066	217.382	211.066
<b>52.5</b>	215.846	188.722	117.917	43.032	33.197	102.110	182.006	207.168	212.918	207.168
<b>55.0</b>	224.962	195.950	121.742	42.859	31.406	106.738	179.208	202.531	208.046	202.531
<b>57.5</b>	232.882	202.493	125.266	42.638	29.304	110.040	174.840	197.141	202.882	197.141
<b>60.0</b>	240.562	208.454	128.530	42.374	27.466	111.653	169.488	192.101	198.869	192.101
<b>62.5</b>	248.088	214.301	131.443	42.058	25.762	111.283	163.694	187.502	194.208	187.502
<b>65.0</b>	254.640	219.773	133.862	41.698	24.120	109.104	157.291	182.678	189.826	182.678
<b>67.5</b>	261.091	224.616	136.070	41.390	22.459	105.192	151.910	178.238	185.952	178.238
<b>70.0</b>	266.477	228.950	138.254	41.117	20.669	99.624	146.506	174.403	183.192	174.403
<b>72.5</b>	271.738	232.882	140.184	40.886	18.773	93.038	141.706	172.378	182.890	172.378
<b>75.0</b>	276.173	236.266	141.816	40.618	16.618	86.592	138.206	173.755	192.370	173.755
<b>77.5</b>	279.830	238.973	143.117	40.421	14.083	80.501	137.525	196.344	243.432	196.344
<b>80.0</b>	282.907	241.090	144.082	40.550	10.992	76.056	154.234	276.432	293.376	276.432
<b>82.5</b>	285.163	242.520	144.754	40.670	9.379	75.437	237.960	198.912	188.736	198.912
<b>85.0</b>	286.699	243.437	145.142	40.814	7.685	129.533	139.109	165.600	174.840	165.600
<b>87.5</b>	287.285	243.758	145.253	40.939	4.464	72.216	128.059	162.917	173.707	162.917
<b>90.0</b>	285.854	242.914	144.974	41.030	3.336	66.269	126.677	161.707	173.765	161.707
<b>92.5</b>	284.448	241.646	144.062	40.613	4.368	81.979	129.288	164.582	175.829	164.582
<b>95.0</b>	282.235	239.779	142.814	40.142	6.926	114.408	135.437	165.053	175.915	165.053
<b>97.5</b>	279.216	237.317	141.293	39.658	9.120	86.726	176.069	177.547	184.627	177.547
<b>100.0</b>	275.616	234.302	139.498	39.168	10.579	73.488	170.150	220.469	233.693	220.469
<b>102.5</b>	271.277	230.760	137.381	38.698	11.822	74.818	144.706	212.021	231.514	212.021
<b>105.0</b>	266.160	226.613	135.005	38.342	13.056	79.354	134.059	182.645	196.934	182.645
<b>107.5</b>	260.544	221.957	132.326	38.069	14.184	86.131	132.970	168.552	179.837	168.552
<b>110.0</b>	254.448	216.859	129.322	37.766	15.274	93.019	135.144	164.702	173.933	164.702
<b>112.5</b>	247.838	211.368	126.101	37.541	16.334	99.101	138.850	165.254	173.942	165.254
<b>115.0</b>	240.552	205.325	122.760	37.426	17.419	103.910	143.213	167.525	175.368	167.525
<b>117.5</b>	232.627	198.739	119.242	37.358	18.557	107.304	148.598	170.846	178.301	170.846
<b>120.0</b>	224.246	191.837	115.397	37.315	19.723	109.109	155.045	174.634	181.790	174.634
<b>122.5</b>	215.630	184.651	111.322	37.253	20.899	109.267	161.083	178.536	185.568	178.536
<b>125.0</b>	206.549	176.918	107.011	37.195	22.109	107.784	166.272	183.466	189.134	183.466
<b>127.5</b>	196.795	168.782	102.586	37.147	23.294	104.846	170.381	188.952	194.395	188.952
<b>130.0</b>	186.754	160.214	98.026	37.152	24.437	100.675	173.030	193.723	199.387	193.723
<b>132.5</b>	176.530	151.435	93.322	37.157	25.536	95.654	173.966	197.520	203.621	197.520

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**CANDELA TABULATION - (Cont.)**

135.0	165.845	142.421	88.464	37.128	26.554	90.221	172.819	200.050	206.750	200.050
137.5	154.819	133.176	83.597	37.123	27.499	84.533	169.507	201.010	208.330	201.010
140.0	143.438	123.749	78.715	37.171	28.387	78.754	163.958	199.838	208.094	199.838
142.5	132.110	114.254	73.848	37.435	29.155	73.022	156.226	196.315	205.502	196.315
145.0	121.080	104.851	69.086	40.430	29.813	67.541	146.558	190.152	200.136	190.152
147.5	110.131	95.640	64.670	46.526	30.422	62.453	135.264	181.291	191.842	181.291
150.0	99.322	86.746	60.576	50.309	30.994	57.955	122.918	169.546	180.590	169.546
152.5	88.872	78.427	56.779	50.064	31.642	54.096	110.093	155.275	166.426	155.275
155.0	79.435	71.045	53.318	49.934	32.083	50.818	97.166	138.998	149.198	138.998
157.5	71.261	64.277	50.362	47.544	32.549	48.394	84.538	121.507	130.094	121.507
160.0	63.749	58.354	53.232	50.050	32.918	47.093	72.850	103.786	110.678	103.786
162.5	57.230	53.424	63.024	57.120	33.259	46.387	62.827	86.765	92.131	86.765
165.0	52.301	62.722	57.778	55.243	33.413	45.998	54.878	71.390	74.995	71.390
167.5	66.840	61.939	52.094	47.194	33.691	45.542	49.310	58.882	60.552	58.882
170.0	59.246	53.885	58.723	40.963	33.658	43.546	46.714	50.122	50.184	50.122
172.5	51.542	58.454	51.101	36.768	33.730	40.656	45.499	46.277	45.864	46.277
175.0	52.200	45.264	39.125	34.037	33.600	37.814	42.149	44.242	43.930	44.242
177.5	36.091	34.334	33.274	32.587	33.442	35.434	36.960	38.270	36.802	38.270
180.0	32.861	32.861	32.861	32.861	32.861	32.861	32.861	32.861	32.861	32.861

**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	50.069	50.069	50.069	50.069	50.069	50.069	50.069
2.5	41.059	44.098	50.203	59.208	67.310	74.232	73.550
5.0	41.021	41.227	50.256	69.024	89.630	95.285	91.896
7.5	43.138	40.915	50.400	80.443	84.509	68.304	69.950
10.0	45.490	41.885	50.256	93.250	69.346	76.790	80.112
12.5	47.395	42.994	50.074	91.464	75.336	77.899	71.294
15.0	50.098	43.992	49.541	76.306	77.846	63.802	64.853
17.5	55.637	45.187	49.186	63.542	67.133	67.075	69.878
20.0	64.013	46.238	48.758	66.970	60.806	72.998	77.760
22.5	74.750	46.834	48.062	65.323	62.443	80.496	86.573
25.0	87.230	47.693	47.275	66.010	65.683	88.747	96.562
27.5	100.646	49.238	46.387	63.072	69.950	97.992	108.139
30.0	114.494	51.965	45.499	54.302	74.587	107.683	119.942
32.5	128.285	55.762	44.563	48.758	79.526	117.682	131.808
35.0	141.682	60.230	43.464	46.229	84.768	127.498	143.050
37.5	153.902	65.491	42.346	44.861	90.019	137.165	154.522
40.0	164.333	71.386	41.074	44.040	95.179	146.558	165.744
42.5	172.565	77.630	39.638	43.656	100.157	155.770	176.755
45.0	178.349	84.115	38.251	43.469	104.933	164.698	187.752
47.5	181.819	90.446	36.494	43.325	109.522	173.131	197.366
50.0	182.962	96.643	34.843	43.200	113.861	181.234	207.298
52.5	182.006	102.110	33.197	43.032	117.917	188.722	215.846
55.0	179.208	106.738	31.406	42.859	121.742	195.950	224.962
57.5	174.840	110.040	29.304	42.638	125.266	202.493	232.882
60.0	169.488	111.653	27.466	42.374	128.530	208.454	240.562
62.5	163.694	111.283	25.762	42.058	131.443	214.301	248.088
65.0	157.291	109.104	24.120	41.698	133.862	219.773	254.640
67.5	151.910	105.192	22.459	41.390	136.070	224.616	261.091
70.0	146.506	99.624	20.669	41.117	138.254	228.950	266.477
72.5	141.706	93.038	18.773	40.886	140.184	232.882	271.738
75.0	138.206	86.592	16.618	40.618	141.816	236.266	276.173
77.5	137.525	80.501	14.083	40.421	143.117	238.973	279.830
80.0	154.234	76.056	10.992	40.550	144.082	241.090	282.907

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**CANDELA TABULATION - (Cont.)**

82.5	237.960	75.437	9.379	40.670	144.754	242.520	285.163
85.0	139.109	129.533	7.685	40.814	145.142	243.437	286.699
87.5	128.059	72.216	4.464	40.939	145.253	243.758	287.285
90.0	126.677	66.269	3.336	41.030	144.974	242.914	285.854
92.5	129.288	81.979	4.368	40.613	144.062	241.646	284.448
95.0	135.437	114.408	6.926	40.142	142.814	239.779	282.235
97.5	176.069	86.726	9.120	39.658	141.293	237.317	279.216
100.0	170.150	73.488	10.579	39.168	139.498	234.302	275.616
102.5	144.706	74.818	11.822	38.698	137.381	230.760	271.277
105.0	134.059	79.354	13.056	38.342	135.005	226.613	266.160
107.5	132.970	86.131	14.184	38.069	132.326	221.957	260.544
110.0	135.144	93.019	15.274	37.766	129.322	216.859	254.448
112.5	138.850	99.101	16.334	37.541	126.101	211.368	247.838
115.0	143.213	103.910	17.419	37.426	122.760	205.325	240.552
117.5	148.598	107.304	18.557	37.358	119.242	198.739	232.627
120.0	155.045	109.109	19.723	37.315	115.397	191.837	224.246
122.5	161.083	109.267	20.899	37.253	111.322	184.651	215.630
125.0	166.272	107.784	22.109	37.195	107.011	176.918	206.549
127.5	170.381	104.846	23.294	37.147	102.586	168.782	196.795
130.0	173.030	100.675	24.437	37.152	98.026	160.214	186.754
132.5	173.966	95.654	25.536	37.157	93.322	151.435	176.530
135.0	172.819	90.221	26.554	37.128	88.464	142.421	165.845
137.5	169.507	84.533	27.499	37.123	83.597	133.176	154.819
140.0	163.958	78.754	28.387	37.171	78.715	123.749	143.438
142.5	156.226	73.022	29.155	37.435	73.848	114.254	132.110
145.0	146.558	67.541	29.813	40.430	69.086	104.851	121.080
147.5	135.264	62.453	30.422	46.526	64.670	95.640	110.131
150.0	122.918	57.955	30.994	50.309	60.576	86.746	99.322
152.5	110.093	54.096	31.642	50.064	56.779	78.427	88.872
155.0	97.166	50.818	32.083	49.934	53.318	71.045	79.435
157.5	84.538	48.394	32.549	47.544	50.362	64.277	71.261
160.0	72.850	47.093	32.918	50.050	53.232	58.354	63.749
162.5	62.827	46.387	33.259	57.120	63.024	53.424	57.230
165.0	54.878	45.998	33.413	55.243	57.778	62.722	52.301
167.5	49.310	45.542	33.691	47.194	52.094	61.939	66.840
170.0	46.714	43.546	33.658	40.963	58.723	53.885	59.246
172.5	45.499	40.656	33.730	36.768	51.101	58.454	51.542
175.0	42.149	37.814	33.600	34.037	39.125	45.264	52.200
177.5	36.960	35.434	33.442	32.587	33.274	34.334	36.091
180.0	32.861	32.861	32.861	32.861	32.861	32.861	32.861

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	23.51	N.A.	1.50
0-30	61.75	N.A.	4.10
0-40	130.39	N.A.	8.60
0-60	352.74	N.A.	23.20
0-80	633.46	N.A.	41.70
0-90	784.84	N.A.	51.70
10-90	779.18	N.A.	51.30
20-40	106.88	N.A.	7.00
20-50	206.60	N.A.	13.60
40-70	357.52	N.A.	23.60
60-80	280.73	N.A.	18.50
70-80	145.55	N.A.	9.60
80-90	151.37	N.A.	10.00
90-110	286.18	N.A.	18.90
90-120	410.97	N.A.	27.10
90-130	522.78	N.A.	34.40
90-150	677.53	N.A.	44.60
90-180	733.18	N.A.	48.30
110-180	447.01	N.A.	29.40
0-180	1518.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	5.66
10-20	17.85
20-30	38.24
30-40	68.64
40-50	99.72
50-60	122.63
60-70	135.17
70-80	145.55
80-90	151.37
90-100	146.23
100-110	139.94
110-120	124.80
120-130	111.81
130-140	91.12
140-150	63.62
150-160	35.58
160-170	15.98
170-180	4.10

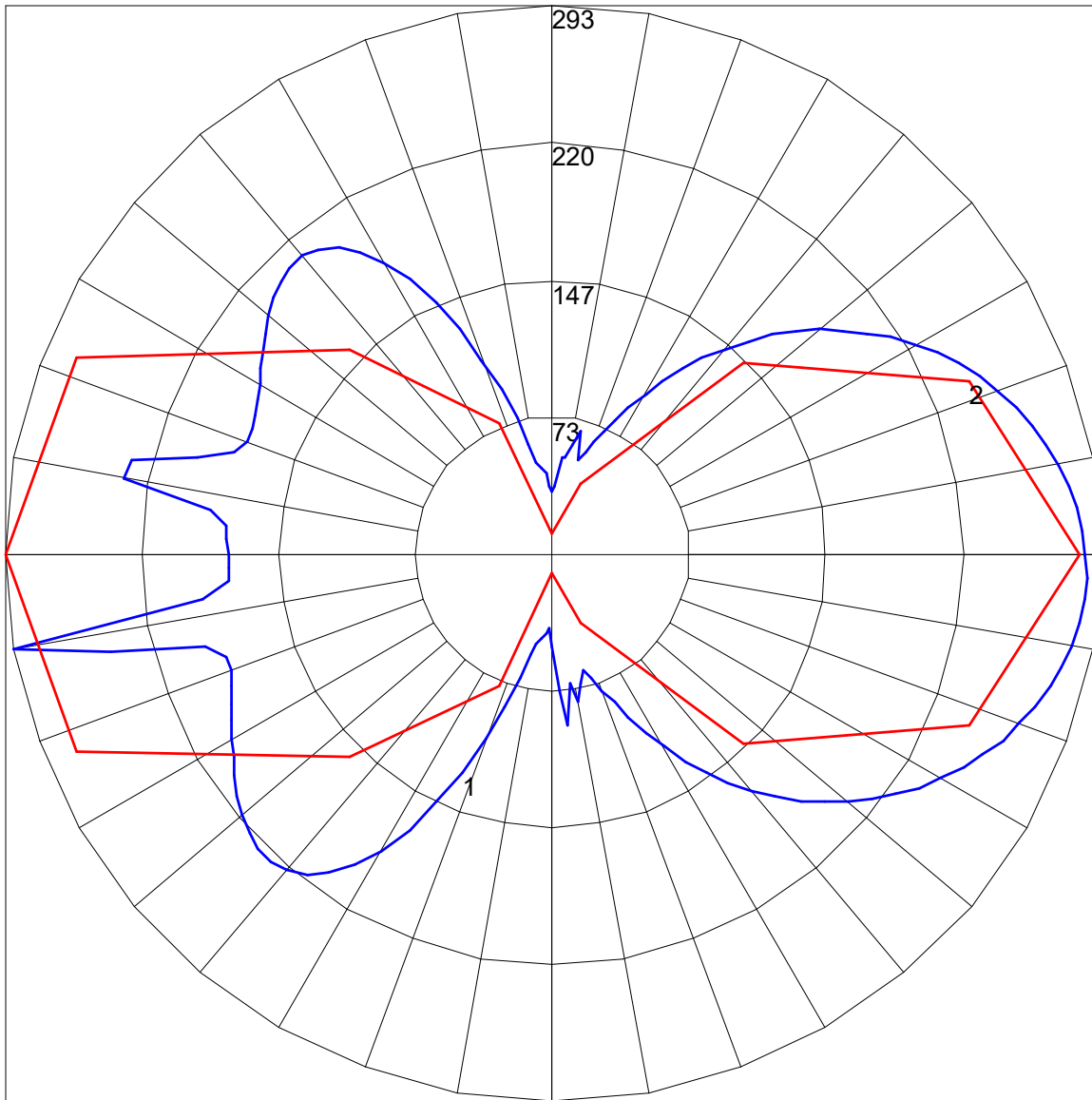
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 293.376 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.)