



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAL14-LED35-HO-04-PIES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Wal14-LED35-HO-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	3795
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	48
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	2937	1388	485
55	4265	1837	448
65	6372	2437	407
75	10637	3384	358
85	25658	5255	238

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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	125.172	125.172	125.172	125.172	125.172	125.172	125.172	125.172	125.172	125.172
2.5	183.876	185.580	168.276	148.020	125.508	110.244	102.648	100.884	99.636	100.884
5.0	229.740	238.212	224.076	172.560	125.640	103.068	102.552	105.132	106.224	105.132
7.5	174.876	170.760	211.272	201.108	126.000	102.288	107.844	112.272	114.648	112.272
10.0	200.280	191.976	173.364	233.124	125.640	104.712	113.724	118.548	121.992	118.548
12.5	178.236	194.748	188.340	228.660	125.184	107.484	118.488	129.684	139.944	129.684
15.0	162.132	159.504	194.616	190.764	123.852	109.980	125.244	154.212	172.560	154.212
17.5	174.696	167.688	167.832	158.856	122.964	112.968	139.092	188.772	215.220	188.772
20.0	194.400	182.496	152.016	167.424	121.896	115.596	160.032	231.012	264.600	231.012
22.5	216.432	201.240	156.108	163.308	120.156	117.084	186.876	276.900	316.536	276.900
25.0	241.404	221.868	164.208	165.024	118.188	119.232	218.076	324.144	367.728	324.144
27.5	270.348	244.980	174.876	157.680	115.968	123.096	251.616	370.608	416.436	370.608
30.0	299.856	269.208	186.468	135.756	113.748	129.912	286.236	414.168	458.832	414.168
32.5	329.520	294.204	198.816	121.896	111.408	139.404	320.712	452.292	494.700	452.292
35.0	357.624	318.744	211.920	115.572	108.660	150.576	354.204	482.904	521.484	482.904
37.5	386.304	342.912	225.048	112.152	105.864	163.728	384.756	506.556	540.816	506.556
40.0	414.360	366.396	237.948	110.100	102.684	178.464	410.832	523.140	552.540	523.140
42.5	441.888	389.424	250.392	109.140	99.096	194.076	431.412	532.992	558.012	532.992
45.0	469.380	411.744	262.332	108.672	95.628	210.288	445.872	536.412	557.376	536.412
47.5	493.416	432.828	273.804	108.312	91.236	226.116	454.548	534.180	551.820	534.180
50.0	518.244	453.084	284.652	108.000	87.108	241.608	457.404	527.664	543.456	527.664
52.5	539.616	471.804	294.792	107.580	82.992	255.276	455.016	517.920	532.296	517.920
55.0	562.404	489.876	304.356	107.148	78.516	266.844	448.020	506.328	520.116	506.328
57.5	582.204	506.232	313.164	106.596	73.260	275.100	437.100	492.852	507.204	492.852
60.0	601.404	521.136	321.324	105.936	68.664	279.132	423.720	480.252	497.172	480.252
62.5	620.220	535.752	328.608	105.144	64.404	278.208	409.236	468.756	485.520	468.756
65.0	636.600	549.432	334.656	104.244	60.300	272.760	393.228	456.696	474.564	456.696
67.5	652.728	561.540	340.176	103.476	56.148	262.980	379.776	445.596	464.880	445.596
70.0	666.192	572.376	345.636	102.792	51.672	249.060	366.264	436.008	457.980	436.008
72.5	679.344	582.204	350.460	102.216	46.932	232.596	354.264	430.944	457.224	430.944
75.0	690.432	590.664	354.540	101.544	41.544	216.480	345.516	434.388	480.924	434.388
77.5	699.576	597.432	357.792	101.052	35.208	201.252	343.812	490.860	608.580	490.860
80.0	707.268	602.724	360.204	101.376	27.480	190.140	385.584	691.080	733.440	691.080
82.5	712.908	606.300	361.884	101.676	23.448	188.592	594.900	497.280	471.840	497.280
85.0	716.748	608.592	362.856	102.036	19.212	323.832	347.772	414.000	437.100	414.000
87.5	718.212	609.396	363.132	102.348	11.160	180.540	320.148	407.292	434.268	407.292
90.0	714.636	607.284	362.436	102.576	8.340	165.672	316.692	404.268	434.412	404.268
92.5	711.120	604.116	360.156	101.532	10.920	204.948	323.220	411.456	439.572	411.456
95.0	705.588	599.448	357.036	100.356	17.316	286.020	338.592	412.632	439.788	412.632
97.5	698.040	593.292	353.232	99.144	22.800	216.816	440.172	443.868	461.568	443.868
100.0	689.040	585.756	348.744	97.920	26.448	183.720	425.376	551.172	584.232	551.172
102.5	678.192	576.900	343.452	96.744	29.556	187.044	361.764	530.052	578.784	530.052
105.0	665.400	566.532	337.512	95.856	32.640	198.384	335.148	456.612	492.336	456.612
107.5	651.360	554.892	330.816	95.172	35.460	215.328	332.424	421.380	449.592	421.380
110.0	636.120	542.148	323.304	94.416	38.184	232.548	337.860	411.756	434.832	411.756
112.5	619.596	528.420	315.252	93.852	40.836	247.752	347.124	413.136	434.856	413.136
115.0	601.380	513.312	306.900	93.564	43.548	259.776	358.032	418.812	438.420	418.812
117.5	581.568	496.848	298.104	93.396	46.392	268.260	371.496	427.116	445.752	427.116
120.0	560.616	479.592	288.492	93.288	49.308	272.772	387.612	436.584	454.476	436.584
122.5	539.076	461.628	278.304	93.132	52.248	273.168	402.708	446.340	463.920	446.340
125.0	516.372	442.296	267.528	92.988	55.272	269.460	415.680	458.664	472.836	458.664
127.5	491.988	421.956	256.464	92.868	58.236	262.116	425.952	472.380	485.988	472.380
130.0	466.884	400.536	245.064	92.880	61.092	251.688	432.576	484.308	498.468	484.308
132.5	441.324	378.588	233.304	92.892	63.840	239.136	434.916	493.800	509.052	493.800

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CANDELA TABULATION - (Cont.)

135.0	414.612	356.052	221.160	92.820	66.384	225.552	432.048	500.124	516.876	500.124
137.5	387.048	332.940	208.992	92.808	68.748	211.332	423.768	502.524	520.824	502.524
140.0	358.596	309.372	196.788	92.928	70.968	196.884	409.896	499.596	520.236	499.596
142.5	330.276	285.636	184.620	93.588	72.888	182.556	390.564	490.788	513.756	490.788
145.0	302.700	262.128	172.716	101.076	74.532	168.852	366.396	475.380	500.340	475.380
147.5	275.328	239.100	161.676	116.316	76.056	156.132	338.160	453.228	479.604	453.228
150.0	248.304	216.864	151.440	125.772	77.484	144.888	307.296	423.864	451.476	423.864
152.5	222.180	196.068	141.948	125.160	79.104	135.240	275.232	388.188	416.064	388.188
155.0	198.588	177.612	133.296	124.836	80.208	127.044	242.916	347.496	372.996	347.496
157.5	178.152	160.692	125.904	118.860	81.372	120.984	211.344	303.768	325.236	303.768
160.0	159.372	145.884	133.080	125.124	82.296	117.732	182.124	259.464	276.696	259.464
162.5	143.076	133.560	157.560	142.800	83.148	115.968	157.068	216.912	230.328	216.912
165.0	130.752	156.804	144.444	138.108	83.532	114.996	137.196	178.476	187.488	178.476
167.5	167.100	154.848	130.236	117.984	84.228	113.856	123.276	147.204	151.380	147.204
170.0	148.116	134.712	146.808	102.408	84.144	108.864	116.784	125.304	125.460	125.304
172.5	128.856	146.136	127.752	91.920	84.324	101.640	113.748	115.692	114.660	115.692
175.0	130.500	113.160	97.812	85.092	84.000	94.536	105.372	110.604	109.824	110.604
177.5	90.228	85.836	83.184	81.468	83.604	88.584	92.400	95.676	92.004	95.676
180.0	82.152	82.152	82.152	82.152	82.152	82.152	82.152	82.152	82.152	82.152

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	125.172	125.172	125.172	125.172	125.172	125.172	125.172
2.5	102.648	110.244	125.508	148.020	168.276	185.580	183.876
5.0	102.552	103.068	125.640	172.560	224.076	238.212	229.740
7.5	107.844	102.288	126.000	201.108	211.272	170.760	174.876
10.0	113.724	104.712	125.640	233.124	173.364	191.976	200.280
12.5	118.488	107.484	125.184	228.660	188.340	194.748	178.236
15.0	125.244	109.980	123.852	190.764	194.616	159.504	162.132
17.5	139.092	112.968	122.964	158.856	167.832	167.688	174.696
20.0	160.032	115.596	121.896	167.424	152.016	182.496	194.400
22.5	186.876	117.084	120.156	163.308	156.108	201.240	216.432
25.0	218.076	119.232	118.188	165.024	164.208	221.868	241.404
27.5	251.616	123.096	115.968	157.680	174.876	244.980	270.348
30.0	286.236	129.912	113.748	135.756	186.468	269.208	299.856
32.5	320.712	139.404	111.408	121.896	198.816	294.204	329.520
35.0	354.204	150.576	108.660	115.572	211.920	318.744	357.624
37.5	384.756	163.728	105.864	112.152	225.048	342.912	386.304
40.0	410.832	178.464	102.684	110.100	237.948	366.396	414.360
42.5	431.412	194.076	99.096	109.140	250.392	389.424	441.888
45.0	445.872	210.288	95.628	108.672	262.332	411.744	469.380
47.5	454.548	226.116	91.236	108.312	273.804	432.828	493.416
50.0	457.404	241.608	87.108	108.000	284.652	453.084	518.244
52.5	455.016	255.276	82.992	107.580	294.792	471.804	539.616
55.0	448.020	266.844	78.516	107.148	304.356	489.876	562.404
57.5	437.100	275.100	73.260	106.596	313.164	506.232	582.204
60.0	423.720	279.132	68.664	105.936	321.324	521.136	601.404
62.5	409.236	278.208	64.404	105.144	328.608	535.752	620.220
65.0	393.228	272.760	60.300	104.244	334.656	549.432	636.600
67.5	379.776	262.980	56.148	103.476	340.176	561.540	652.728
70.0	366.264	249.060	51.672	102.792	345.636	572.376	666.192
72.5	354.264	232.596	46.932	102.216	350.460	582.204	679.344
75.0	345.516	216.480	41.544	101.544	354.540	590.664	690.432
77.5	343.812	201.252	35.208	101.052	357.792	597.432	699.576
80.0	385.584	190.140	27.480	101.376	360.204	602.724	707.268

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CANDELA TABULATION - (Cont.)

82.5	594.900	188.592	23.448	101.676	361.884	606.300	712.908
85.0	347.772	323.832	19.212	102.036	362.856	608.592	716.748
87.5	320.148	180.540	11.160	102.348	363.132	609.396	718.212
90.0	316.692	165.672	8.340	102.576	362.436	607.284	714.636
92.5	323.220	204.948	10.920	101.532	360.156	604.116	711.120
95.0	338.592	286.020	17.316	100.356	357.036	599.448	705.588
97.5	440.172	216.816	22.800	99.144	353.232	593.292	698.040
100.0	425.376	183.720	26.448	97.920	348.744	585.756	689.040
102.5	361.764	187.044	29.556	96.744	343.452	576.900	678.192
105.0	335.148	198.384	32.640	95.856	337.512	566.532	665.400
107.5	332.424	215.328	35.460	95.172	330.816	554.892	651.360
110.0	337.860	232.548	38.184	94.416	323.304	542.148	636.120
112.5	347.124	247.752	40.836	93.852	315.252	528.420	619.596
115.0	358.032	259.776	43.548	93.564	306.900	513.312	601.380
117.5	371.496	268.260	46.392	93.396	298.104	496.848	581.568
120.0	387.612	272.772	49.308	93.288	288.492	479.592	560.616
122.5	402.708	273.168	52.248	93.132	278.304	461.628	539.076
125.0	415.680	269.460	55.272	92.988	267.528	442.296	516.372
127.5	425.952	262.116	58.236	92.868	256.464	421.956	491.988
130.0	432.576	251.688	61.092	92.880	245.064	400.536	466.884
132.5	434.916	239.136	63.840	92.892	233.304	378.588	441.324
135.0	432.048	225.552	66.384	92.820	221.160	356.052	414.612
137.5	423.768	211.332	68.748	92.808	208.992	332.940	387.048
140.0	409.896	196.884	70.968	92.928	196.788	309.372	358.596
142.5	390.564	182.556	72.888	93.588	184.620	285.636	330.276
145.0	366.396	168.852	74.532	101.076	172.716	262.128	302.700
147.5	338.160	156.132	76.056	116.316	161.676	239.100	275.328
150.0	307.296	144.888	77.484	125.772	151.440	216.864	248.304
152.5	275.232	135.240	79.104	125.160	141.948	196.068	222.180
155.0	242.916	127.044	80.208	124.836	133.296	177.612	198.588
157.5	211.344	120.984	81.372	118.860	125.904	160.692	178.152
160.0	182.124	117.732	82.296	125.124	133.080	145.884	159.372
162.5	157.068	115.968	83.148	142.800	157.560	133.560	143.076
165.0	137.196	114.996	83.532	138.108	144.444	156.804	130.752
167.5	123.276	113.856	84.228	117.984	130.236	154.848	167.100
170.0	116.784	108.864	84.144	102.408	146.808	134.712	148.116
172.5	113.748	101.640	84.324	91.920	127.752	146.136	128.856
175.0	105.372	94.536	84.000	85.092	97.812	113.160	130.500
177.5	92.400	88.584	83.604	81.468	83.184	85.836	90.228
180.0	82.152	82.152	82.152	82.152	82.152	82.152	82.152

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	58.77	N.A.	1.50
0-30	154.37	N.A.	4.10
0-40	325.96	N.A.	8.60
0-60	881.84	N.A.	23.20
0-80	1583.66	N.A.	41.70
0-90	1962.09	N.A.	51.70
10-90	1947.95	N.A.	51.30
20-40	267.19	N.A.	7.00
20-50	516.50	N.A.	13.60
40-70	893.81	N.A.	23.60
60-80	701.82	N.A.	18.50
70-80	363.88	N.A.	9.60
80-90	378.44	N.A.	10.00
90-110	715.44	N.A.	18.90
90-120	1027.44	N.A.	27.10
90-130	1306.96	N.A.	34.40
90-150	1693.82	N.A.	44.60
90-180	1832.96	N.A.	48.30
110-180	1117.52	N.A.	29.40
0-180	3795.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.14
10-20	44.63
20-30	95.60
30-40	171.59
40-50	249.30
50-60	306.57
60-70	337.94
70-80	363.88
80-90	378.44
90-100	365.58
100-110	349.86
110-120	312.00
120-130	279.52
130-140	227.80
140-150	159.06
150-160	88.94
160-170	39.96
170-180	10.24

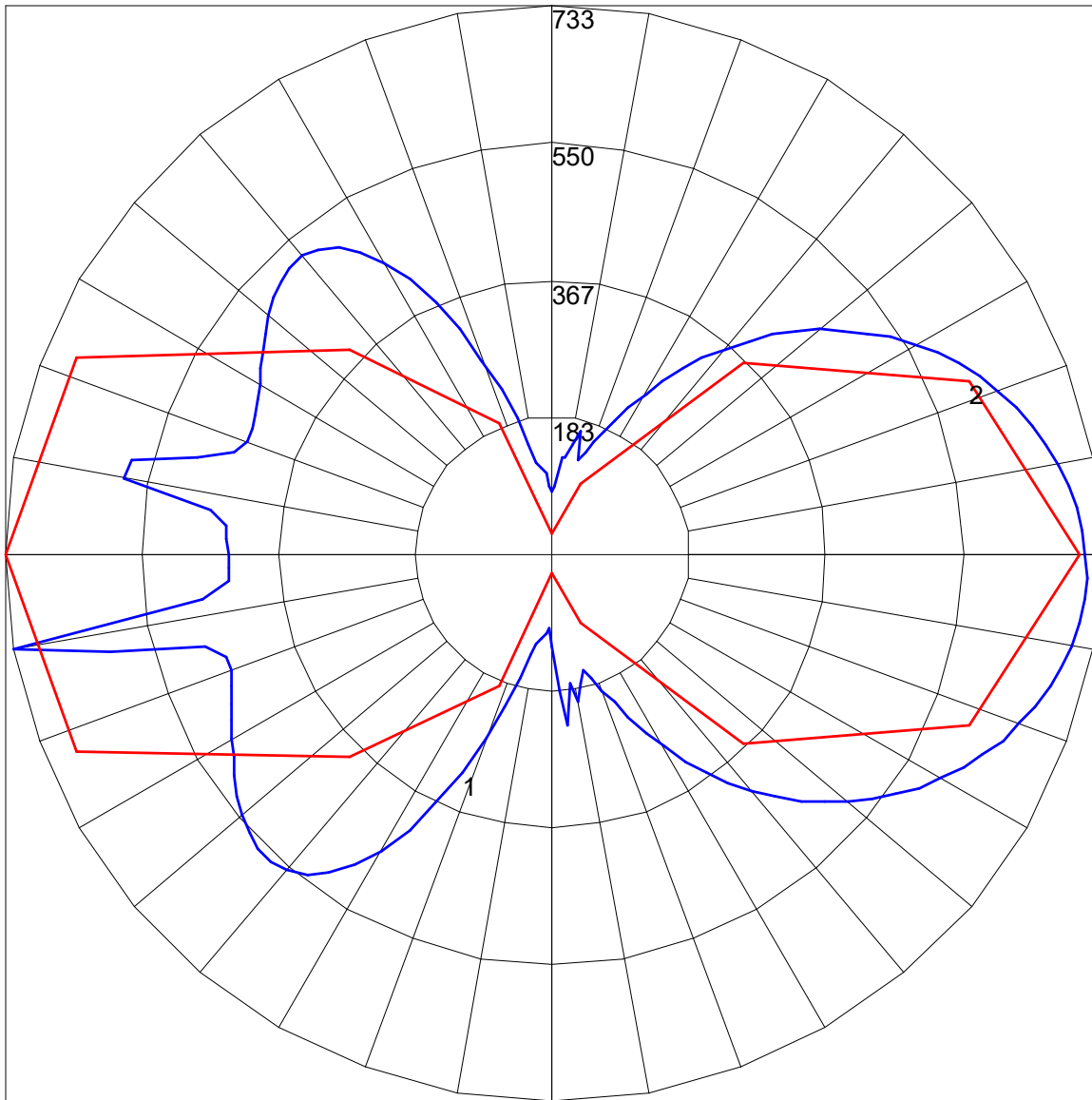
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 733.44 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.)