

IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A6-LED35-HO_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] P59-A6-LED35-HO-04
[TESTLAB] Intertek
[ISSUE DATE]
[MANUFACTURER] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.38
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.75 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3208	3047	2266
55	3021	2823	1979
65	2880	2618	1582
75	2833	2460	979
85	2882	2414	136

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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	555.654	555.654	555.654	555.654	555.654	555.654	555.654	555.654	555.654	555.654
2.5	599.161	596.535	588.738	575.255	552.440	529.997	511.086	497.820	489.786	497.820
5.0	630.298	625.797	610.306	587.378	548.671	502.331	462.624	436.421	423.031	436.421
7.5	672.806	663.299	633.285	595.556	544.705	473.821	416.429	381.914	364.270	381.914
10.0	713.316	701.924	658.901	602.138	539.535	444.404	372.108	329.651	309.268	329.651
12.5	755.690	737.222	684.466	607.566	532.613	416.522	330.280	281.993	261.713	281.993
15.0	795.819	773.272	708.228	616.362	525.743	388.670	291.593	237.642	216.413	237.642
17.5	836.329	809.858	730.898	623.613	517.729	360.181	254.832	196.833	175.883	196.833
20.0	875.860	843.354	752.940	629.412	506.873	333.123	220.482	160.834	138.329	160.834
22.5	913.600	876.015	774.251	634.882	497.253	306.693	188.500	127.184	106.646	127.184
25.0	950.165	907.605	793.646	638.466	483.080	279.120	157.703	97.902	76.632	97.902
27.5	985.844	937.506	811.382	640.681	471.709	253.328	131.129	71.029	48.688	71.029
30.0	1020.668	966.830	829.057	641.680	457.753	227.743	105.534	46.494	24.555	46.494
32.5	1051.939	992.508	843.766	641.834	442.735	203.693	81.669	25.019	7.251	25.019
35.0	1065.391	1014.787	856.713	641.917	426.059	180.147	59.822	6.880	0.000	6.880
37.5	1068.100	1020.133	869.341	638.682	408.519	157.518	39.995	0.556	0.000	0.556
40.0	1066.441	1016.898	879.661	633.203	391.585	135.342	22.784	0.000	0.000	0.000
42.5	1060.375	1010.564	884.348	628.794	373.571	115.123	9.002	0.072	0.000	0.072
45.0	1054.741	1002.829	878.837	623.222	353.846	93.091	3.842	0.000	0.000	0.000
47.5	1045.625	992.044	865.571	615.137	332.865	75.077	3.028	0.000	0.000	0.000
50.0	1036.860	979.571	849.750	608.318	312.100	59.637	3.100	0.000	0.000	0.000
52.5	1026.014	966.480	832.230	598.698	290.305	44.187	2.513	0.000	0.000	0.000
55.0	1012.696	952.977	814.215	587.316	267.666	29.571	2.225	0.000	0.000	0.000
57.5	998.400	936.847	795.170	576.151	245.315	17.747	0.896	0.000	0.000	0.000
60.0	985.143	920.223	774.900	560.382	221.563	8.528	0.639	0.000	0.000	0.000
62.5	969.106	904.474	754.454	534.869	198.079	7.025	0.711	0.000	0.000	0.000
65.0	954.686	887.139	732.454	506.564	174.327	6.046	0.937	0.000	0.000	0.000
67.5	939.669	871.308	710.226	478.940	150.298	4.862	0.783	0.000	0.000	0.000
70.0	924.950	855.889	687.988	451.604	127.133	3.986	0.000	0.000	0.000	0.000
72.5	912.405	839.893	666.678	425.050	102.691	2.142	0.000	0.000	0.000	0.000
75.0	899.633	824.113	645.645	399.589	80.113	2.410	0.958	0.000	0.000	0.000
77.5	885.130	810.157	626.158	374.807	57.196	0.608	0.494	0.000	1.638	0.000
80.0	872.956	796.324	607.391	349.324	36.143	0.330	0.000	0.474	1.061	0.474
82.5	860.689	782.244	589.376	323.533	19.004	0.000	0.000	0.000	0.237	0.000
85.0	847.546	768.699	572.773	298.030	6.911	0.000	0.000	0.165	0.247	0.165
87.5	834.248	756.092	557.168	276.637	1.978	0.000	0.000	0.494	1.226	0.494
90.0	827.018	748.367	546.559	259.632	0.000	0.000	0.041	0.360	1.112	0.360
92.5	814.823	733.515	528.215	236.673	0.000	0.000	0.000	0.824	0.124	0.824
95.0	778.628	695.095	496.027	203.538	0.000	0.000	0.000	0.103	1.813	0.103
97.5	744.062	663.835	459.328	166.180	0.000	0.000	0.185	0.659	1.442	0.659
100.0	707.455	619.566	415.842	108.057	0.000	0.000	0.340	0.041	3.584	0.041
102.5	655.791	569.724	367.391	64.797	0.000	0.000	0.000	0.196	1.112	0.196
105.0	599.841	515.453	306.260	35.453	0.000	0.000	0.000	1.329	2.287	1.329
107.5	543.871	454.704	223.644	18.334	0.000	0.000	0.000	0.000	1.390	0.000
110.0	477.549	379.225	129.306	11.989	0.000	0.000	0.000	0.000	0.000	0.000
112.5	391.936	281.046	92.968	7.941	0.000	0.000	0.000	0.000	0.587	0.000
115.0	282.962	175.461	128.925	2.863	0.000	0.000	0.000	0.000	0.000	0.000
117.5	171.536	123.384	24.318	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	129.110	129.667	18.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	125.794	158.435	11.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	188.614	31.024	7.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	30.189	24.895	2.317	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	22.547	19.879	0.731	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	17.634	14.090	0.000	0.330	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	12.741	8.446	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	9.558	4.511	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	5.696	0.175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	1.998	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.113	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	555.654	555.654	555.654	555.654	555.654	555.654	555.654
2.5	511.086	529.997	552.440	575.255	588.738	596.535	599.161
5.0	462.624	502.331	548.671	587.378	610.306	625.797	630.298
7.5	416.429	473.821	544.705	595.556	633.285	663.299	672.806
10.0	372.108	444.404	539.535	602.138	658.901	701.924	713.316
12.5	330.280	416.522	532.613	607.566	684.466	737.222	755.690
15.0	291.593	388.670	525.743	616.362	708.228	773.272	795.819
17.5	254.832	360.181	517.729	623.613	730.898	809.858	836.329
20.0	220.482	333.123	506.873	629.412	752.940	843.354	875.860
22.5	188.500	306.693	497.253	634.882	774.251	876.015	913.600
25.0	157.703	279.120	483.080	638.466	793.646	907.605	950.165
27.5	131.129	253.328	471.709	640.681	811.382	937.506	985.844
30.0	105.534	227.743	457.753	641.680	829.057	966.830	1020.668
32.5	81.669	203.693	442.735	641.834	843.766	992.508	1051.939
35.0	59.822	180.147	426.059	641.917	856.713	1014.787	1065.391
37.5	39.995	157.518	408.519	638.682	869.341	1020.133	1068.100
40.0	22.784	135.342	391.585	633.203	879.661	1016.898	1066.441
42.5	9.002	115.123	373.571	628.794	884.348	1010.564	1060.375
45.0	3.842	93.091	353.846	623.222	878.837	1002.829	1054.741
47.5	3.028	75.077	332.865	615.137	865.571	992.044	1045.625
50.0	3.100	59.637	312.100	608.318	849.750	979.571	1036.860
52.5	2.513	44.187	290.305	598.698	832.230	966.480	1026.014
55.0	2.225	29.571	267.666	587.316	814.215	952.977	1012.696
57.5	0.896	17.747	245.315	576.151	795.170	936.847	998.400
60.0	0.639	8.528	221.563	560.382	774.900	920.223	985.143
62.5	0.711	7.025	198.079	534.869	754.454	904.474	969.106
65.0	0.937	6.046	174.327	506.564	732.454	887.139	954.686
67.5	0.783	4.862	150.298	478.940	710.226	871.308	939.669
70.0	0.000	3.986	127.133	451.604	687.988	855.889	924.950
72.5	0.000	2.142	102.691	425.050	666.678	839.893	912.405
75.0	0.958	2.410	80.113	399.589	645.645	824.113	899.633
77.5	0.494	0.608	57.196	374.807	626.158	810.157	885.130
80.0	0.000	0.330	36.143	349.324	607.391	796.324	872.956

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82.5	0.000	0.000	19.004	323.533	589.376	782.244	860.689
85.0	0.000	0.000	6.911	298.030	572.773	768.699	847.546
87.5	0.000	0.000	1.978	276.637	557.168	756.092	834.248
90.0	0.041	0.000	0.000	259.632	546.559	748.367	827.018
92.5	0.000	0.000	0.000	236.673	528.215	733.515	814.823
95.0	0.000	0.000	0.000	203.538	496.027	695.095	778.628
97.5	0.185	0.000	0.000	166.180	459.328	663.835	744.062
100.0	0.340	0.000	0.000	108.057	415.842	619.566	707.455
102.5	0.000	0.000	0.000	64.797	367.391	569.724	655.791
105.0	0.000	0.000	0.000	35.453	306.260	515.453	599.841
107.5	0.000	0.000	0.000	18.334	223.644	454.704	543.871
110.0	0.000	0.000	0.000	11.989	129.306	379.225	477.549
112.5	0.000	0.000	0.000	7.941	92.968	281.046	391.936
115.0	0.000	0.000	0.000	2.863	128.925	175.461	282.962
117.5	0.000	0.000	0.000	0.000	24.318	123.384	171.536
120.0	0.000	0.000	0.000	0.000	18.138	129.667	129.110
122.5	0.000	0.000	0.000	0.000	11.896	158.435	125.794
125.0	0.000	0.000	0.000	0.000	7.169	31.024	188.614
127.5	0.000	0.000	0.000	0.000	2.317	24.895	30.189
130.0	0.000	0.000	0.000	0.000	0.731	19.879	22.547
132.5	0.000	0.000	0.000	0.330	0.000	14.090	17.634
135.0	0.000	0.000	0.000	0.000	0.000	8.446	12.741
137.5	0.000	0.000	0.000	0.000	0.000	4.511	9.558
140.0	0.000	0.000	0.000	0.000	0.000	0.175	5.696
142.5	0.000	0.000	0.000	0.000	0.000	0.000	1.998
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	193.99	N.A.	6.90
0-30	417.86	N.A.	14.90
0-40	709.18	N.A.	25.20
0-60	1399.35	N.A.	49.80
0-80	2062.3	N.A.	73.40
0-90	2346.04	N.A.	83.40
10-90	2295.23	N.A.	81.60
20-40	515.19	N.A.	18.30
20-50	851.53	N.A.	30.30
40-70	1035.39	N.A.	36.80
60-80	662.95	N.A.	23.60
70-80	317.73	N.A.	11.30
80-90	283.74	N.A.	10.10
90-110	393.84	N.A.	14.00
90-120	448.48	N.A.	16.00
90-130	463.62	N.A.	16.50
90-150	465.28	N.A.	16.60
90-180	465.28	N.A.	16.60
110-180	71.45	N.A.	2.50
0-180	2811.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.82
10-20	143.17
20-30	223.87
30-40	291.32
40-50	336.34
50-60	353.83
60-70	345.22
70-80	317.73
80-90	283.74
90-100	241.78
100-110	152.06
110-120	54.64
120-130	15.14
130-140	1.61
140-150	0.05
150-160	0.00
160-170	0.00
170-180	0.00

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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	101	94	88	83	96	90	85	80	82	78	74	76	72	69	69	67	64	61
2	90	80	71	64	85	76	68	62	70	63	58	64	59	54	58	54	50	47
3	81	69	59	51	77	66	57	50	60	53	47	55	49	44	50	45	41	38
4	73	60	50	42	70	57	48	41	53	45	39	48	42	36	44	39	34	31
5	67	53	43	36	64	51	42	35	47	39	33	43	36	31	39	34	29	26
6	62	47	38	31	59	45	36	30	42	34	28	39	32	27	35	30	25	23
7	57	43	33	27	54	41	32	26	38	30	25	35	28	23	32	26	22	20
8	53	39	30	23	50	37	29	23	34	27	22	32	25	21	30	24	20	17
9	49	35	27	21	47	34	26	20	32	24	19	29	23	18	27	22	17	15
10	46	32	24	19	44	31	24	18	29	22	17	27	21	17	25	20	16	14

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	19.3	20.7	19.9	21.4	22.1	11.0	12.4	11.6	13.0	13.7
	3H	22.5	23.8	23.1	24.4	25.1	12.2	13.5	12.8	14.1	14.9
	4H	24.1	25.3	24.7	26.0	26.7	12.5	13.8	13.2	14.4	15.2
	6H	25.8	27.0	26.4	27.6	28.4	12.7	13.9	13.4	14.6	15.3
	8H	26.7	27.8	27.3	28.5	29.2	12.7	13.9	13.4	14.5	15.3
	12H	27.6	28.7	28.3	29.4	30.2	12.7	13.8	13.4	14.5	15.3

UGR Viewed Endwise

4H	2H	19.6	20.9	20.2	21.5	22.2	13.0	14.2	13.6	14.9	15.6
	3H	22.9	24.0	23.6	24.7	25.5	14.6	15.7	15.3	16.4	17.2
	4H	24.7	25.7	25.4	26.4	27.2	15.2	16.3	15.9	16.9	17.7
	6H	26.6	27.6	27.3	28.3	29.1	15.6	16.5	16.3	17.2	18.0
	8H	27.6	28.5	28.3	29.2	30.0	15.7	16.6	16.4	17.3	18.1
	12H	28.7	29.5	29.4	30.2	31.0	15.8	16.6	16.5	17.3	18.1
8H	4H	24.9	25.7	25.6	26.5	27.3	16.8	17.7	17.5	18.4	19.2
	6H	27.0	27.7	27.7	28.4	29.3	17.6	18.3	18.3	19.1	19.9
	8H	28.1	28.8	28.8	29.5	30.3	17.9	18.5	18.6	19.3	20.1
	12H	29.3	30.0	30.1	30.7	31.6	18.0	18.6	18.7	19.4	20.3
12H	4H	24.9	25.7	25.6	26.4	27.2	17.3	18.1	18.0	18.9	19.7
	6H	27.0	27.7	27.7	28.4	29.3	18.3	19.0	19.0	19.7	20.6
	8H	28.2	28.8	28.9	29.5	30.4	18.7	19.3	19.4	20.0	20.9

Maximum UGR = 31.6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P59-A6-LED35-HO_.IES

POLAR GRAPH