

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] P59-A6-LED35-MO-04
[TESTLAB] Intertek
[ISSUE DATE] October 4, 2016
[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1774
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	24
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	2025	1923	1430
55	1907	1781	1249
65	1818	1652	998
75	1788	1552	618
85	1819	1523	86

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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	350.655	350.655	350.655	350.655	350.655	350.655	350.655	350.655	350.655	350.655
2.5	378.112	376.454	371.534	363.025	348.627	334.464	322.530	314.158	309.088	314.158
5.0	397.761	394.920	385.145	370.675	346.248	317.005	291.947	275.411	266.961	275.411
7.5	424.586	418.587	399.646	375.837	343.746	299.013	262.795	241.013	229.879	241.013
10.0	450.151	442.962	415.811	379.990	340.483	280.449	234.825	208.032	195.169	208.032
12.5	476.892	465.237	431.945	383.415	336.115	262.853	208.429	177.957	165.158	177.957
15.0	502.216	487.987	446.940	388.966	331.779	245.277	184.015	149.968	136.571	149.968
17.5	527.780	511.075	461.246	393.542	326.722	227.298	160.816	124.215	110.994	124.215
20.0	552.727	532.213	475.156	397.202	319.871	210.223	139.139	101.497	87.295	101.497
22.5	576.543	552.825	488.605	400.653	313.800	193.544	118.956	80.262	67.301	80.262
25.0	599.618	572.760	500.845	402.915	304.856	176.143	99.521	61.782	48.360	61.782
27.5	622.134	591.630	512.037	404.313	297.680	159.867	82.751	44.824	30.725	44.824
30.0	644.111	610.135	523.191	404.943	288.873	143.721	66.599	29.341	15.496	29.341
32.5	663.845	626.340	532.473	405.041	279.396	128.544	51.538	15.789	4.576	15.789
35.0	672.334	640.399	540.644	405.093	268.872	113.685	37.752	4.342	0.000	4.342
37.5	674.043	643.773	548.613	403.052	257.803	99.404	25.240	0.351	0.000	0.351
40.0	672.997	641.732	555.126	399.594	247.117	85.410	14.378	0.000	0.000	0.000
42.5	669.168	637.734	558.083	396.812	235.748	72.650	5.681	0.045	0.000	0.045
45.0	665.613	632.853	554.606	393.295	223.301	58.747	2.424	0.000	0.000	0.000
47.5	659.860	626.047	546.234	388.193	210.061	47.378	1.911	0.000	0.000	0.000
50.0	654.329	618.176	536.250	383.890	196.956	37.635	1.956	0.000	0.000	0.000
52.5	647.484	609.914	525.193	377.819	183.202	27.885	1.586	0.000	0.000	0.000
55.0	639.080	601.393	513.825	370.637	168.915	18.661	1.404	0.000	0.000	0.000
57.5	630.058	591.214	501.806	363.590	154.810	11.199	0.565	0.000	0.000	0.000
60.0	621.692	580.723	489.014	353.639	139.821	5.382	0.403	0.000	0.000	0.000
62.5	611.572	570.784	476.112	337.538	125.001	4.433	0.448	0.000	0.000	0.000
65.0	602.472	559.845	462.228	319.676	110.012	3.815	0.591	0.000	0.000	0.000
67.5	592.995	549.854	448.201	302.243	94.848	3.068	0.494	0.000	0.000	0.000
70.0	583.706	540.124	434.167	284.992	80.229	2.515	0.000	0.000	0.000	0.000
72.5	575.789	530.029	420.719	268.235	64.805	1.352	0.000	0.000	0.000	0.000
75.0	567.729	520.071	407.446	252.167	50.557	1.521	0.604	0.000	0.000	0.000
77.5	558.577	511.264	395.148	236.529	36.094	0.383	0.312	0.000	1.033	0.000
80.0	550.894	502.534	383.305	220.447	22.808	0.208	0.000	0.299	0.669	0.299
82.5	543.153	493.649	371.937	204.171	11.993	0.000	0.000	0.000	0.149	0.000
85.0	534.859	485.101	361.459	188.077	4.361	0.000	0.000	0.104	0.156	0.104
87.5	526.467	477.145	351.611	174.577	1.248	0.000	0.000	0.312	0.774	0.312
90.0	521.904	472.270	344.916	163.845	0.000	0.000	0.026	0.227	0.702	0.227
92.5	514.208	462.897	333.339	149.357	0.000	0.000	0.000	0.520	0.078	0.520
95.0	491.367	438.652	313.027	128.446	0.000	0.000	0.000	0.065	1.144	0.065
97.5	469.553	418.925	289.867	104.871	0.000	0.000	0.117	0.416	0.910	0.416
100.0	446.452	390.988	262.424	68.191	0.000	0.000	0.215	0.026	2.262	0.026
102.5	413.848	359.534	231.848	40.891	0.000	0.000	0.000	0.123	0.702	0.123
105.0	378.540	325.286	193.271	22.373	0.000	0.000	0.000	0.838	1.443	0.838
107.5	343.220	286.949	141.134	11.570	0.000	0.000	0.000	0.000	0.877	0.000
110.0	301.366	239.317	81.601	7.566	0.000	0.000	0.000	0.000	0.000	0.000
112.5	247.338	177.359	58.669	5.011	0.000	0.000	0.000	0.000	0.370	0.000
115.0	178.568	110.727	81.360	1.807	0.000	0.000	0.000	0.000	0.000	0.000
117.5	108.251	77.863	15.346	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	81.477	81.828	11.446	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	79.384	99.983	7.507	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	119.028	19.578	4.524	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	19.051	15.710	1.462	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	14.228	12.545	0.461	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	11.128	8.892	0.000	0.208	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	8.040	5.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	6.032	2.847	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	3.595	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	1.261	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	0.071	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	350.655	350.655	350.655	350.655	350.655	350.655	350.655
2.5	322.530	334.464	348.627	363.025	371.534	376.454	378.112
5.0	291.947	317.005	346.248	370.675	385.145	394.920	397.761
7.5	262.795	299.013	343.746	375.837	399.646	418.587	424.586
10.0	234.825	280.449	340.483	379.990	415.811	442.962	450.151
12.5	208.429	262.853	336.115	383.415	431.945	465.237	476.892
15.0	184.015	245.277	331.779	388.966	446.940	487.987	502.216
17.5	160.816	227.298	326.722	393.542	461.246	511.075	527.780
20.0	139.139	210.223	319.871	397.202	475.156	532.213	552.727
22.5	118.956	193.544	313.800	400.653	488.605	552.825	576.543
25.0	99.521	176.143	304.856	402.915	500.845	572.760	599.618
27.5	82.751	159.867	297.680	404.313	512.037	591.630	622.134
30.0	66.599	143.721	288.873	404.943	523.191	610.135	644.111
32.5	51.538	128.544	279.396	405.041	532.473	626.340	663.845
35.0	37.752	113.685	268.872	405.093	540.644	640.399	672.334
37.5	25.240	99.404	257.803	403.052	548.613	643.773	674.043
40.0	14.378	85.410	247.117	399.594	555.126	641.732	672.997
42.5	5.681	72.650	235.748	396.812	558.083	637.734	669.168
45.0	2.424	58.747	223.301	393.295	554.606	632.853	665.613
47.5	1.911	47.378	210.061	388.193	546.234	626.047	659.860
50.0	1.956	37.635	196.956	383.890	536.250	618.176	654.329
52.5	1.586	27.885	183.202	377.819	525.193	609.914	647.484
55.0	1.404	18.661	168.915	370.637	513.825	601.393	639.080
57.5	0.565	11.199	154.810	363.590	501.806	591.214	630.058
60.0	0.403	5.382	139.821	353.639	489.014	580.723	621.692
62.5	0.448	4.433	125.001	337.538	476.112	570.784	611.572
65.0	0.591	3.815	110.012	319.676	462.228	559.845	602.472
67.5	0.494	3.068	94.848	302.243	448.201	549.854	592.995
70.0	0.000	2.515	80.229	284.992	434.167	540.124	583.706
72.5	0.000	1.352	64.805	268.235	420.719	530.029	575.789
75.0	0.604	1.521	50.557	252.167	407.446	520.071	567.729
77.5	0.312	0.383	36.094	236.529	395.148	511.264	558.577
80.0	0.000	0.208	22.808	220.447	383.305	502.534	550.894

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	11.993	204.171	371.937	493.649	543.153
85.0	0.000	0.000	4.361	188.077	361.459	485.101	534.859
87.5	0.000	0.000	1.248	174.577	351.611	477.145	526.467
90.0	0.026	0.000	0.000	163.845	344.916	472.270	521.904
92.5	0.000	0.000	0.000	149.357	333.339	462.897	514.208
95.0	0.000	0.000	0.000	128.446	313.027	438.652	491.367
97.5	0.117	0.000	0.000	104.871	289.867	418.925	469.553
100.0	0.215	0.000	0.000	68.191	262.424	390.988	446.452
102.5	0.000	0.000	0.000	40.891	231.848	359.534	413.848
105.0	0.000	0.000	0.000	22.373	193.271	325.286	378.540
107.5	0.000	0.000	0.000	11.570	141.134	286.949	343.220
110.0	0.000	0.000	0.000	7.566	81.601	239.317	301.366
112.5	0.000	0.000	0.000	5.011	58.669	177.359	247.338
115.0	0.000	0.000	0.000	1.807	81.360	110.727	178.568
117.5	0.000	0.000	0.000	0.000	15.346	77.863	108.251
120.0	0.000	0.000	0.000	0.000	11.446	81.828	81.477
122.5	0.000	0.000	0.000	0.000	7.507	99.983	79.384
125.0	0.000	0.000	0.000	0.000	4.524	19.578	119.028
127.5	0.000	0.000	0.000	0.000	1.462	15.710	19.051
130.0	0.000	0.000	0.000	0.000	0.461	12.545	14.228
132.5	0.000	0.000	0.000	0.208	0.000	8.892	11.128
135.0	0.000	0.000	0.000	0.000	0.000	5.330	8.040
137.5	0.000	0.000	0.000	0.000	0.000	2.847	6.032
140.0	0.000	0.000	0.000	0.000	0.000	0.110	3.595
142.5	0.000	0.000	0.000	0.000	0.000	0.000	1.261
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	122.42	N.A.	6.90
0-30	263.70	N.A.	14.90
0-40	447.54	N.A.	25.20
0-60	883.08	N.A.	49.80
0-80	1301.45	N.A.	73.40
0-90	1480.51	N.A.	83.40
10-90	1448.44	N.A.	81.60
20-40	325.12	N.A.	18.30
20-50	537.37	N.A.	30.30
40-70	653.40	N.A.	36.80
60-80	418.37	N.A.	23.60
70-80	200.51	N.A.	11.30
80-90	179.06	N.A.	10.10
90-110	248.54	N.A.	14.00
90-120	283.02	N.A.	16.00
90-130	292.58	N.A.	16.50
90-150	293.62	N.A.	16.60
90-180	293.62	N.A.	16.60
110-180	45.09	N.A.	2.50
0-180	1774.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.07
10-20	90.35
20-30	141.28
30-40	183.84
40-50	212.25
50-60	223.29
60-70	217.86
70-80	200.51
80-90	179.06
90-100	152.58
100-110	95.96
110-120	34.48
120-130	9.56
130-140	1.01
140-150	0.03
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	17.7	19.1	18.3	19.8	20.5	9.4	10.8	10.0	11.4	12.1
	3H	20.9	22.2	21.5	22.8	23.5	10.6	11.9	11.2	12.5	13.3
	4H	22.5	23.7	23.1	24.4	25.1	10.9	12.2	11.6	12.8	13.6
	6H	24.2	25.4	24.8	26.0	26.8	11.1	12.3	11.8	13.0	13.7
	8H	25.1	26.2	25.7	26.9	27.6	11.1	12.3	11.8	12.9	13.7
	12H	26.0	27.1	26.7	27.8	28.6	11.1	12.2	11.8	12.9	13.7

UGR Viewed Endwise

4H	2H	18.0	19.3	18.6	19.9	20.6	11.4	12.6	12.0	13.3	14.0
	3H	21.3	22.4	22.0	23.1	23.9	13.0	14.1	13.7	14.8	15.6
	4H	23.1	24.1	23.8	24.8	25.6	13.6	14.7	14.3	15.3	16.1
	6H	25.0	26.0	25.7	26.7	27.5	14.0	14.9	14.7	15.6	16.4
	8H	26.0	26.9	26.7	27.6	28.4	14.1	15.0	14.8	15.7	16.5
	12H	27.1	27.9	27.8	28.6	29.4	14.2	15.0	14.9	15.7	16.5

8H	4H	23.3	24.1	24.0	24.9	25.7	15.2	16.1	15.9	16.8	17.6
	6H	25.4	26.1	26.1	26.8	27.7	16.0	16.7	16.7	17.5	18.3
	8H	26.5	27.2	27.2	27.9	28.7	16.3	16.9	17.0	17.7	18.5
	12H	27.7	28.4	28.5	29.1	30.0	16.4	17.0	17.1	17.8	18.7

12H	4H	23.3	24.1	24.0	24.8	25.6	15.7	16.5	16.4	17.3	18.1
	6H	25.4	26.1	26.1	26.8	27.7	16.7	17.4	17.4	18.1	19.0
	8H	26.6	27.2	27.3	27.9	28.8	17.1	17.7	17.8	18.4	19.3

Maximum UGR = 30.0

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

POLAR GRAPH