



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A9-LED35-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P59-A9-LED35-SO
 [TESTLAB] Intertek
 [ISSUE DATE] 2/12/2016
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2404
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	33.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	2.20
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.75 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1538	2068	2204
55	1400	1941	2133
65	1189	1831	2065
75	852	1734	2005
85	263	1650	1995

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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	524.906	524.906	524.906	524.906	524.906	524.906	524.906	524.906	524.906	524.906
2.5	529.882	541.241	546.323	552.958	552.764	550.727	542.123	532.666	529.416	521.152
5.0	528.650	553.007	569.264	583.843	585.948	581.166	564.686	543.763	527.273	508.639
7.5	526.186	563.851	591.040	613.544	618.812	610.877	585.977	553.637	523.412	489.452
10.0	521.918	572.717	612.138	642.722	650.715	639.948	606.784	561.999	518.455	466.463
12.5	516.661	580.176	631.858	671.356	682.347	668.592	626.494	569.477	512.470	442.669
15.0	510.230	586.559	650.356	699.913	714.502	696.295	644.866	575.967	505.351	419.040
17.5	503.042	591.710	668.223	728.858	746.415	723.863	662.374	581.505	497.319	395.178
20.0	494.768	595.871	685.140	756.658	777.135	750.586	679.184	585.841	488.541	371.141
22.5	485.999	599.198	701.058	782.489	805.692	775.893	695.451	589.236	478.792	346.969
25.0	475.698	601.264	716.006	805.401	832.221	799.377	710.544	591.428	468.074	323.049
27.5	463.941	602.409	729.275	826.421	856.869	820.601	724.057	592.777	456.404	299.420
30.0	451.166	602.341	741.051	845.588	879.402	839.778	736.065	592.709	443.794	275.984
32.5	438.110	601.274	751.634	862.670	891.527	856.636	746.473	591.894	430.321	252.772
35.0	424.627	599.218	759.888	867.180	890.673	861.108	754.796	589.741	416.179	230.094
37.5	410.485	596.191	766.834	862.931	887.696	855.870	760.480	586.695	401.289	207.920
40.0	395.236	591.991	770.684	856.384	883.049	848.963	763.836	582.621	385.362	186.347
42.5	378.368	586.307	764.205	848.488	876.938	840.806	756.687	577.344	368.581	165.385
45.0	360.365	579.148	750.363	838.759	869.527	831.212	742.884	570.797	350.771	145.287
47.5	341.615	570.360	734.746	828.060	861.632	820.853	727.568	562.813	332.312	126.100
50.0	322.932	559.942	718.130	816.459	852.077	809.475	711.185	553.317	313.203	107.932
52.5	303.930	547.953	700.825	803.645	841.233	796.865	693.715	541.978	293.435	90.734
55.0	283.929	533.995	682.861	790.385	828.720	782.615	675.624	528.233	272.929	74.671
57.5	262.453	517.961	663.897	775.534	814.810	767.493	656.603	512.286	251.705	60.014
60.0	240.221	494.273	644.342	759.374	799.581	751.702	636.543	487.823	229.958	46.938
62.5	218.289	466.599	624.699	741.866	783.275	734.562	616.425	460.314	207.706	35.347
65.0	196.541	438.275	604.727	723.504	765.456	716.665	596.220	431.679	185.377	25.501
67.5	174.377	409.767	583.833	703.822	746.454	697.673	575.734	402.346	162.824	17.489
70.0	151.116	381.162	562.164	683.064	726.879	677.720	554.481	373.499	140.233	13.493
72.5	127.526	352.071	540.135	662.122	706.344	657.175	533.034	344.544	117.690	12.009
75.0	104.605	325.309	517.582	640.578	685.169	636.087	511.015	317.180	95.380	10.631
77.5	82.489	301.195	494.390	619.248	664.178	614.563	488.405	293.464	73.138	9.370
80.0	60.179	278.177	471.265	597.918	643.459	593.650	465.619	270.543	51.284	8.255
82.5	39.140	255.876	448.150	576.636	623.138	572.426	443.436	248.844	31.224	7.227
85.0	20.137	233.062	425.141	555.781	602.942	551.833	420.932	226.922	16.063	6.247
87.5	10.360	209.947	401.599	534.810	582.669	530.833	398.020	204.505	8.740	5.267
90.0	4.559	186.366	377.194	512.694	561.397	508.668	373.887	181.700	4.452	4.530
92.5	3.754	167.306	358.444	496.359	546.071	491.858	354.836	162.766	4.491	4.588
95.0	3.802	147.275	342.837	487.163	537.749	483.429	340.907	143.977	4.530	4.869
97.5	3.861	120.232	316.686	456.802	507.756	453.853	315.085	119.213	4.569	4.831
100.0	3.909	74.089	285.471	428.207	480.441	425.248	284.627	72.420	4.578	4.918
102.5	3.958	34.251	248.572	392.132	443.979	389.998	248.349	61.944	4.588	4.947
105.0	4.026	26.879	191.197	350.859	405.402	351.266	190.828	22.494	4.588	4.937
107.5	4.093	21.874	112.588	293.522	355.660	296.820	111.909	17.188	4.588	4.899
110.0	4.161	17.819	287.508	211.800	284.113	217.852	458.422	13.134	4.569	4.802
112.5	4.239	14.725	38.558	124.432	188.995	128.438	35.667	10.845	4.549	4.724
115.0	4.307	13.105	31.855	472.429	135.596	534.392	29.246	8.517	4.549	4.695
117.5	4.394	11.776	26.753	42.224	688.031	39.877	23.028	5.316	4.540	4.656
120.0	4.481	10.728	21.156	33.989	36.230	32.253	18.255	3.841	4.549	4.666
122.5	4.569	9.875	17.324	27.393	28.586	26.171	13.512	2.241	4.559	4.646
125.0	4.685	9.176	12.629	22.009	22.698	20.564	8.439	0.621	4.569	4.656
127.5	4.772	8.594	10.893	16.733	16.965	15.103	4.268	0.902	4.588	4.646
130.0	4.879	8.119	9.264	11.718	11.766	10.292	2.891	0.640	4.608	4.637
132.5	4.966	7.712	9.186	7.712	7.372	5.752	1.484	0.825	4.627	4.666

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CANDELA TABULATION - (Cont.)

135.0	5.063	7.372	8.051	5.936	2.929	4.026	0.737	0.854	4.675	4.666
137.5	5.160	7.091	7.100	5.578	1.174	3.638	0.795	1.038	4.705	4.675
140.0	5.238	6.839	7.003	4.782	1.203	2.929	0.272	1.630	4.743	4.695
142.5	5.306	6.625	6.470	4.152	1.067	2.532	0.572	1.911	4.821	4.772
145.0	5.384	6.431	5.849	4.646	1.164	1.756	0.621	1.911	4.889	4.821
147.5	5.451	6.266	5.675	3.172	0.776	1.785	0.650	1.921	4.947	4.860
150.0	5.510	6.101	5.878	3.589	0.475	1.242	0.543	1.882	5.005	4.899
152.5	5.568	5.956	5.257	2.891	1.339	0.514	1.183	1.678	5.063	4.947
155.0	5.568	5.820	4.937	3.026	1.038	0.514	1.707	1.707	5.131	4.986
157.5	5.597	5.694	5.073	2.561	0.795	1.057	1.377	1.756	5.199	5.025
160.0	5.636	5.607	4.540	2.406	1.930	0.795	1.707	1.358	5.238	5.073
162.5	5.655	5.519	4.850	2.968	1.455	0.621	1.232	1.106	5.306	5.093
165.0	5.684	5.451	4.229	2.774	0.679	0.601	1.348	0.951	5.345	5.122
167.5	5.694	5.393	4.152	2.755	0.892	0.999	1.213	1.329	5.403	5.141
170.0	5.694	5.354	4.811	2.900	1.407	0.970	1.086	1.271	5.461	5.160
172.5	5.684	5.287	4.511	2.270	1.183	1.377	1.048	1.416	5.519	5.199
175.0	5.694	5.287	4.365	2.658	1.145	1.445	1.125	1.135	5.558	5.228
177.5	5.675	5.248	4.074	2.677	1.300	1.630	1.300	1.232	5.597	5.238
180.0	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871

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	524.906	524.906	524.906	524.906	524.906	524.906	524.906
2.5	506.214	496.747	490.529	495.224	502.353	513.722	529.882
5.0	474.049	452.078	441.622	450.701	468.850	500.598	528.650
7.5	438.314	407.817	394.596	406.546	433.939	481.683	526.186
10.0	402.637	364.953	350.267	363.905	398.971	459.373	521.918
12.5	367.931	324.213	308.693	323.175	364.060	436.122	516.661
15.0	334.378	286.393	269.912	285.403	330.780	412.463	510.230
17.5	302.727	251.928	234.284	250.794	299.177	389.019	503.042
20.0	272.269	219.346	201.508	218.735	269.379	365.913	494.768
22.5	242.888	189.218	171.331	188.966	240.725	342.429	485.999
25.0	215.389	161.263	143.832	161.311	213.555	319.062	475.698
27.5	189.722	135.655	118.379	135.625	187.957	295.617	463.941
30.0	165.463	112.025	95.400	112.122	163.901	272.124	451.166
32.5	142.639	90.724	74.399	90.879	141.882	249.164	438.110
35.0	121.192	71.635	56.202	71.547	120.804	226.796	424.627
37.5	101.627	54.407	39.372	53.893	101.142	205.155	410.485
40.0	83.566	39.275	24.260	38.703	83.032	183.815	395.236
42.5	66.746	24.948	12.241	24.143	66.358	162.882	378.368
45.0	52.332	13.299	2.338	12.610	51.187	143.017	360.365
47.5	38.053	5.888	1.785	5.102	37.704	124.131	341.615
50.0	26.888	5.025	1.610	4.578	26.035	106.254	322.932
52.5	16.839	4.462	1.377	3.938	15.336	88.823	303.930
55.0	9.438	4.520	1.145	3.812	8.294	73.012	283.929
57.5	9.205	5.044	1.630	3.444	7.896	58.035	262.453
60.0	8.458	4.414	1.979	3.667	7.207	45.115	240.221
62.5	8.536	4.627	2.765	3.744	7.003	32.563	218.289
65.0	8.080	3.929	1.765	3.812	6.218	23.426	196.541
67.5	7.411	4.928	2.192	3.298	5.645	15.142	174.377
70.0	7.537	4.210	2.978	3.744	5.151	10.728	151.116
72.5	6.111	4.113	2.018	3.424	4.617	9.603	127.526
75.0	6.354	4.559	3.133	3.230	4.123	7.906	104.605
77.5	5.975	4.530	2.580	3.026	3.696	6.130	82.489
80.0	5.141	4.064	3.288	3.211	3.657	5.413	60.179

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CANDELA TABULATION - (Cont.)

82.5	5.519	4.123	3.589	3.958	3.123	4.268	39.140
85.0	5.112	4.540	3.453	3.172	2.755	3.211	20.137
87.5	4.394	3.172	2.862	2.609	2.192	1.833	10.360
90.0	4.802	3.356	2.561	2.221	1.892	1.775	4.559
92.5	4.646	3.143	2.250	2.241	2.027	1.242	3.754
95.0	5.335	4.472	3.589	3.220	2.270	1.959	3.802
97.5	4.714	3.608	2.929	2.968	2.056	0.941	3.861
100.0	5.238	3.715	3.056	3.220	2.212	1.077	3.909
102.5	4.229	3.570	2.561	2.561	2.105	1.688	3.958
105.0	4.899	3.735	3.085	2.522	2.241	1.339	4.026
107.5	4.336	3.172	3.007	2.464	1.872	1.998	4.093
110.0	3.948	3.133	1.989	1.979	2.008	0.825	4.161
112.5	4.152	3.589	1.649	1.979	1.348	1.135	4.239
115.0	3.890	2.803	1.998	1.998	1.436	1.048	4.307
117.5	4.113	2.551	2.425	1.707	2.483	1.019	4.394
120.0	4.307	2.852	1.911	1.901	1.824	1.183	4.481
122.5	4.743	3.521	2.464	2.270	1.911	0.805	4.569
125.0	4.365	2.735	1.630	1.930	1.407	1.358	4.685
127.5	4.190	3.366	2.842	1.959	1.862	1.698	4.772
130.0	4.171	2.706	1.921	1.630	1.154	1.164	4.879
132.5	3.715	3.250	1.620	1.106	1.862	1.251	4.966
135.0	4.123	3.153	2.037	1.756	1.668	0.854	5.063
137.5	3.996	2.716	2.095	1.571	1.164	1.271	5.160
140.0	3.996	2.396	1.639	1.271	1.407	1.125	5.238
142.5	4.317	3.162	1.862	1.183	1.552	1.319	5.306
145.0	3.948	2.803	1.474	1.804	1.717	1.271	5.384
147.5	3.958	2.745	1.571	1.601	1.581	1.319	5.451
150.0	4.171	3.220	1.736	2.076	1.125	1.213	5.510
152.5	3.967	3.191	1.853	1.232	1.736	1.591	5.568
155.0	3.899	3.996	1.329	1.736	1.038	1.183	5.568
157.5	4.452	2.677	1.756	1.824	1.659	1.426	5.597
160.0	4.559	3.123	1.649	1.552	1.426	1.222	5.636
162.5	4.666	2.571	2.037	1.746	2.008	1.290	5.655
165.0	3.754	3.143	1.552	1.445	2.018	1.368	5.684
167.5	4.569	3.376	1.620	1.562	1.242	1.280	5.694
170.0	4.190	3.317	1.407	1.533	1.310	1.824	5.694
172.5	4.258	2.968	1.513	1.591	1.261	1.290	5.684
175.0	4.675	3.017	1.290	1.727	1.436	1.154	5.694
177.5	4.540	2.454	1.513	1.552	1.639	1.765	5.675
180.0	2.871	2.871	2.871	2.871	2.871	2.871	2.871

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	189.39	N.A.	7.90
0-30	407.03	N.A.	16.90
0-40	683.25	N.A.	28.40
0-60	1299.63	N.A.	54.10
0-80	1848.84	N.A.	76.90
0-90	2059.39	N.A.	85.70
10-90	2010.08	N.A.	83.60
20-40	493.86	N.A.	20.50
20-50	799.23	N.A.	33.20
40-70	909.52	N.A.	37.80
60-80	549.20	N.A.	22.80
70-80	256.07	N.A.	10.70
80-90	210.56	N.A.	8.80
90-110	274.96	N.A.	11.40
90-120	330.05	N.A.	13.70
90-130	337.31	N.A.	14.00
90-150	342.27	N.A.	14.20
90-180	344.77	N.A.	14.30
110-180	69.80	N.A.	2.90
0-180	2404.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.31
10-20	140.08
20-30	217.64
30-40	276.22
40-50	305.37
50-60	311.01
60-70	293.14
70-80	256.07
80-90	210.56
90-100	167.99
100-110	106.98
110-120	55.08
120-130	7.26
130-140	2.99
140-150	1.97
150-160	1.39
160-170	0.83
170-180	0.28

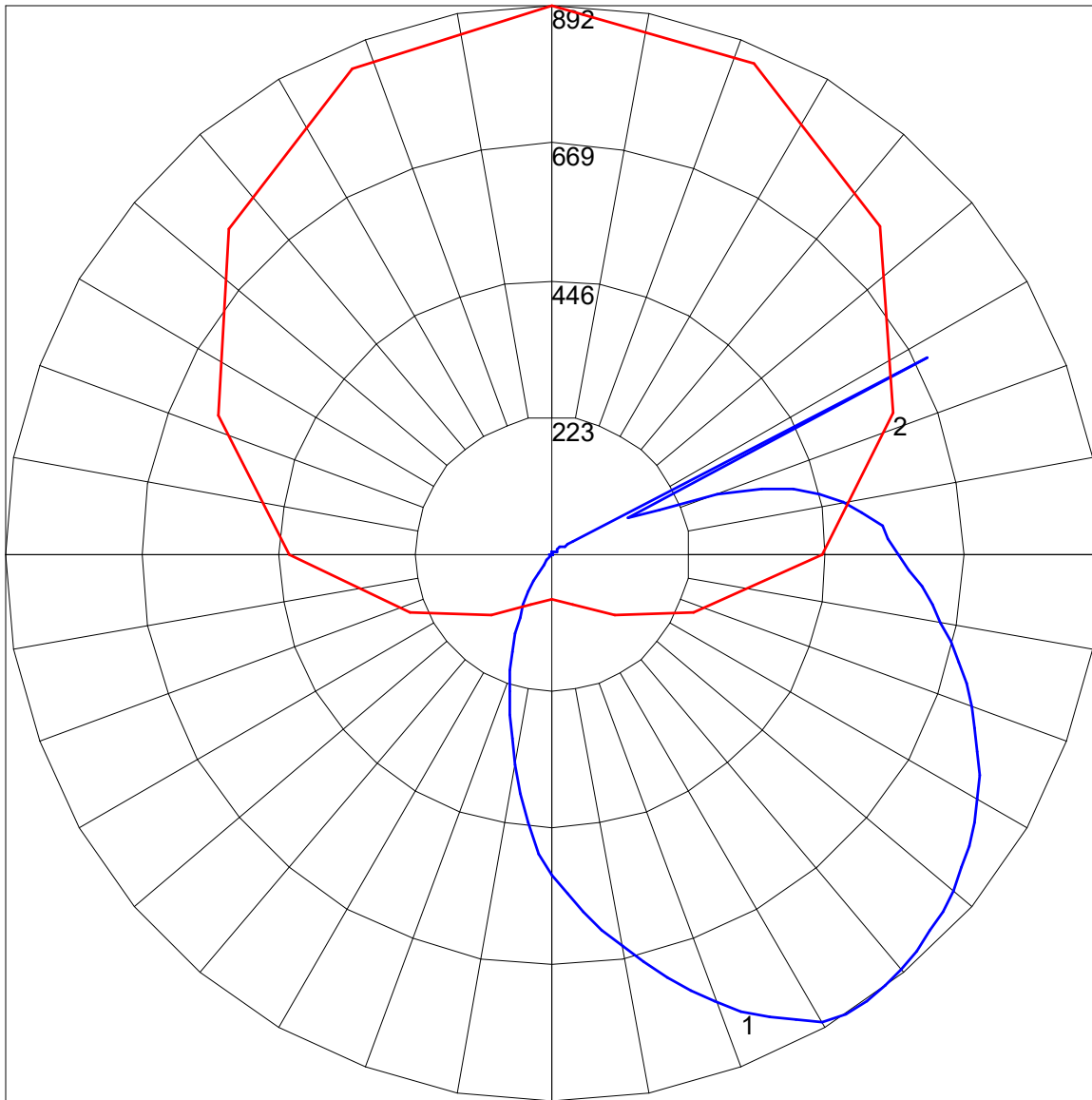
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	102	95	90	85	97	92	87	82	85	81	77	78	75	72	72	70	67	64
2	91	81	73	66	87	78	71	64	72	66	61	66	61	57	61	57	54	50
3	82	70	61	53	78	68	59	52	62	55	49	58	52	47	53	48	44	41
4	75	62	52	44	71	59	50	43	55	47	41	51	44	39	47	41	37	34
5	69	55	45	38	65	53	43	37	49	41	35	45	38	33	42	36	32	29
6	63	49	39	32	60	47	38	32	44	36	30	41	34	29	38	32	27	25
7	58	44	35	28	56	42	34	28	40	32	26	37	30	25	34	29	24	22
8	54	40	31	25	52	39	30	24	36	29	23	34	27	22	31	26	21	19
9	50	37	28	22	48	35	27	22	33	26	21	31	25	20	29	23	19	17
10	47	34	25	20	45	33	25	20	31	24	19	29	22	18	27	21	17	15

POLAR GRAPH



Maximum Candela = 891.527 Located At Horizontal Angle = 90, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)