

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P59-A9-LED35-LO

[TESTLAB] Intertek

[ISSUE DATE] 2/12/2016

[MANUFAC] Prudential Lighting

[\_CONVERT] Photometric web converted from original test data

[\_CONVERT] Luminaire test position and photometric web converted from original test data

[\_CONVERT] Photometric web converted from original test data

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1269
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	16
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.75 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2312	1966	931
55	2714	2214	892
65	3404	2656	825
75	4989	3714	697
85	13027	9077	603

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	342.128	341.499	340.870	340.241	339.612	338.983	338.354	337.725	337.096	336.467
<b>20</b>	408.597	407.046	405.495	403.944	402.393	400.842	399.291	397.740	396.189	394.638
<b>30</b>	462.366	460.051	457.736	455.421	453.106	450.792	448.477	446.162	443.847	441.532
<b>40</b>	464.284	462.293	460.301	458.310	456.319	454.327	452.336	450.345	448.353	446.362
<b>50</b>	447.999	445.510	443.021	440.533	438.044	435.555	433.066	430.578	428.089	425.600
<b>60</b>	420.398	417.601	414.804	412.007	409.210	406.412	403.615	400.818	398.021	395.224
<b>70</b>	382.174	379.302	376.430	373.558	370.686	367.815	364.943	362.071	359.199	356.327
<b>80</b>	338.314	335.404	332.494	329.584	326.674	323.765	320.855	317.945	315.035	312.125
<b>90</b>	295.168	292.088	289.007	285.927	282.846	279.766	276.685	273.605	270.524	267.444
<b>100</b>	252.603	249.379	246.154	242.930	239.706	236.481	233.257	230.033	226.808	223.584
<b>110</b>	149.379	145.508	141.637	137.766	133.895	130.025	126.154	122.283	118.412	114.541
<b>120</b>	19.048	18.816	18.583	18.351	18.119	17.886	17.654	17.422	17.189	16.957
<b>130</b>	6.186	6.100	6.014	5.928	5.842	5.755	5.669	5.583	5.497	5.411
<b>140</b>	0.632	0.733	0.834	0.935	1.036	1.136	1.237	1.338	1.439	1.540
<b>150</b>	0.250	0.295	0.340	0.384	0.429	0.474	0.519	0.563	0.608	0.653
<b>160</b>	1.015	0.949	0.882	0.816	0.750	0.683	0.617	0.551	0.484	0.418
<b>170</b>	0.739	0.714	0.688	0.663	0.637	0.612	0.586	0.561	0.535	0.510
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles**      **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	334.530	332.592	330.655	328.717	326.780	324.842	322.905	320.967	319.030	316.414
<b>20</b>	390.467	386.296	382.124	377.953	373.782	369.611	365.439	361.268	357.097	351.644
<b>30</b>	435.473	429.414	423.356	417.297	411.238	405.179	399.121	393.062	387.003	378.628
<b>40</b>	441.389	436.416	431.443	426.470	421.497	416.524	411.551	406.578	401.605	391.018
<b>50</b>	419.858	414.116	408.374	402.632	396.890	391.148	385.406	379.664	373.922	364.699
<b>60</b>	388.497	381.769	375.042	368.314	361.587	354.859	348.132	341.404	334.677	325.989
<b>70</b>	349.127	341.928	334.728	327.529	320.329	313.130	305.930	298.731	291.531	280.958
<b>80</b>	304.646	297.166	289.687	282.207	274.728	267.248	259.769	252.289	244.810	233.414
<b>90</b>	259.570	251.696	243.822	235.948	228.075	220.201	212.327	204.453	196.579	185.352
<b>100</b>	215.369	207.154	198.939	190.724	182.509	174.294	166.079	157.864	149.649	137.252
<b>110</b>	128.595	142.649	156.703	170.757	184.810	198.864	212.918	226.972	241.026	215.013
<b>120</b>	16.139	15.322	14.504	13.686	12.869	12.051	11.233	10.416	9.598	8.756
<b>130</b>	4.979	4.546	4.114	3.682	3.249	2.817	2.385	1.952	1.520	1.389
<b>140</b>	1.385	1.230	1.074	0.919	0.764	0.609	0.453	0.298	0.143	0.222
<b>150</b>	0.612	0.571	0.531	0.490	0.449	0.408	0.368	0.327	0.286	0.364
<b>160</b>	0.471	0.525	0.578	0.631	0.685	0.738	0.791	0.845	0.898	0.878
<b>170</b>	0.517	0.524	0.530	0.537	0.544	0.551	0.557	0.564	0.571	0.582
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles**      **Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	313.798	311.181	308.565	305.949	303.333	300.716	298.100	295.484	292.940	290.396
<b>20</b>	346.191	340.738	335.285	329.832	324.379	318.926	313.473	308.020	302.336	296.651
<b>30</b>	370.253	361.879	353.504	345.129	336.754	328.380	320.005	311.630	302.931	294.231
<b>40</b>	380.432	369.845	359.259	348.672	338.086	327.499	316.913	306.326	294.802	283.279
<b>50</b>	355.477	346.254	337.032	327.809	318.587	309.364	300.142	290.919	276.892	262.865
<b>60</b>	317.301	308.613	299.925	291.236	282.548	273.860	265.172	256.484	241.420	226.356
<b>70</b>	270.385	259.812	249.239	238.667	228.094	217.521	206.948	196.375	182.748	169.121

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>80</b>	222.018	210.621	199.225	187.829	176.433	165.036	153.640	142.244	129.435	116.626
<b>90</b>	174.124	162.897	151.670	140.442	129.215	117.988	106.760	95.533	85.178	74.824
<b>100</b>	124.855	112.458	100.061	87.665	75.268	62.871	50.474	38.077	34.114	30.150
<b>110</b>	188.999	162.986	136.972	110.959	84.945	58.932	32.918	6.905	6.405	5.904
<b>120</b>	7.914	7.072	6.230	5.388	4.546	3.704	2.862	2.020	2.061	2.103
<b>130</b>	1.257	1.126	0.994	0.863	0.731	0.600	0.468	0.337	0.569	0.800
<b>140</b>	0.302	0.381	0.460	0.540	0.619	0.698	0.778	0.857	1.039	1.221
<b>150</b>	0.442	0.520	0.598	0.677	0.755	0.833	0.911	0.989	1.172	1.354
<b>160</b>	0.857	0.837	0.816	0.796	0.775	0.755	0.734	0.714	0.941	1.167
<b>170</b>	0.593	0.603	0.614	0.625	0.636	0.646	0.657	0.668	0.913	1.158
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	287.853	285.309	282.765	280.221	277.678	275.134	272.590	269.553	266.515	263.478
<b>20</b>	290.967	285.283	279.598	273.914	268.230	262.545	256.861	250.003	243.144	236.286
<b>30</b>	285.532	276.832	268.133	259.433	250.734	242.034	233.335	223.532	213.728	203.925
<b>40</b>	271.755	260.231	248.708	237.184	225.660	214.137	202.613	190.987	179.360	167.734
<b>50</b>	248.837	234.810	220.783	206.756	192.728	178.701	164.674	152.682	140.690	128.699
<b>60</b>	211.291	196.227	181.163	166.099	151.034	135.970	120.906	110.214	99.522	88.830
<b>70</b>	155.494	141.867	128.239	114.612	100.985	87.358	73.731	66.327	58.923	51.519
<b>80</b>	103.817	91.008	78.200	65.391	52.582	39.773	26.964	24.450	21.936	19.423
<b>90</b>	64.469	54.114	43.760	33.405	23.050	12.696	2.341	2.346	2.350	2.355
<b>100</b>	26.187	22.224	18.260	14.297	10.334	6.370	2.407	2.427	2.447	2.467
<b>110</b>	5.404	4.904	4.403	3.903	3.403	2.902	2.402	2.416	2.429	2.443
<b>120</b>	2.144	2.185	2.227	2.268	2.309	2.351	2.392	2.399	2.406	2.412
<b>130</b>	1.032	1.264	1.495	1.727	1.959	2.190	2.422	2.424	2.426	2.427
<b>140</b>	1.403	1.585	1.766	1.948	2.130	2.312	2.494	2.491	2.488	2.485
<b>150</b>	1.537	1.719	1.902	2.084	2.267	2.449	2.632	2.626	2.619	2.613
<b>160</b>	1.394	1.621	1.847	2.074	2.301	2.527	2.754	2.744	2.735	2.725
<b>170</b>	1.402	1.647	1.892	2.137	2.381	2.626	2.871	2.853	2.836	2.818
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>100.0</b></u>	<u><b>102.5</b></u>	<u><b>105.0</b></u>	<u><b>107.5</b></u>	<u><b>110.0</b></u>	<u><b>112.5</b></u>	<u><b>115.0</b></u>	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>122.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	260.441	257.403	254.366	251.329	248.291	245.254	241.525	237.797	234.068	230.339
<b>20</b>	229.428	222.569	215.711	208.853	201.994	195.136	189.360	183.584	177.808	172.032
<b>30</b>	194.122	184.318	174.515	164.712	154.908	145.105	138.648	132.192	125.735	119.279
<b>40</b>	156.108	144.481	132.855	121.229	109.602	97.976	91.972	85.967	79.963	73.958
<b>50</b>	116.707	104.715	92.723	80.732	68.740	56.748	52.013	47.279	42.544	37.810
<b>60</b>	78.138	67.447	56.755	46.063	35.371	24.679	22.431	20.183	17.935	15.687
<b>70</b>	44.115	36.710	29.306	21.902	14.498	7.094	6.746	6.398	6.050	5.702
<b>80</b>	16.909	14.395	11.881	9.368	6.854	4.340	4.158	3.976	3.794	3.612
<b>90</b>	2.359	2.364	2.368	2.373	2.377	2.382	2.398	2.414	2.429	2.445
<b>100</b>	2.487	2.506	2.526	2.546	2.566	2.586	2.605	2.623	2.642	2.661
<b>110</b>	2.456	2.470	2.483	2.497	2.510	2.524	2.474	2.424	2.375	2.325
<b>120</b>	2.419	2.426	2.433	2.439	2.446	2.453	2.432	2.411	2.390	2.369
<b>130</b>	2.429	2.431	2.433	2.434	2.436	2.438	2.411	2.384	2.356	2.329
<b>140</b>	2.482	2.480	2.477	2.474	2.471	2.468	2.427	2.386	2.346	2.305
<b>150</b>	2.607	2.600	2.594	2.588	2.581	2.575	2.533	2.490	2.448	2.405
<b>160</b>	2.715	2.706	2.696	2.686	2.677	2.667	2.637	2.607	2.577	2.547
<b>170</b>	2.801	2.783	2.766	2.748	2.731	2.713	2.656	2.600	2.543	2.486

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES

CANDELA TABULATION - (Cont.)

180	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>125.0</u></b>	<b><u>127.5</u></b>	<b><u>130.0</u></b>	<b><u>132.5</u></b>	<b><u>135.0</u></b>	<b><u>137.5</u></b>	<b><u>140.0</u></b>	<b><u>142.5</u></b>	<b><u>145.0</u></b>	<b><u>147.5</u></b>
0	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
10	226.611	222.882	219.153	215.425	211.696	209.494	207.293	205.091	202.890	200.688
20	166.256	160.480	154.704	148.928	143.152	140.060	136.968	133.877	130.785	127.693
30	112.822	106.366	99.909	93.453	86.996	83.874	80.752	77.631	74.509	71.387
40	67.954	61.949	55.945	49.940	43.936	41.349	38.761	36.174	33.587	30.999
50	33.075	28.341	23.606	18.872	14.137	12.860	11.583	10.305	9.028	7.751
60	13.439	11.191	8.943	6.695	4.447	4.211	3.974	3.738	3.502	3.265
70	5.355	5.007	4.659	4.311	3.963	3.769	3.574	3.380	3.185	2.991
80	3.431	3.249	3.067	2.885	2.703	2.640	2.577	2.514	2.451	2.389
90	2.461	2.477	2.492	2.508	2.524	2.440	2.355	2.271	2.187	2.102
100	2.679	2.698	2.717	2.735	2.754	2.665	2.576	2.487	2.398	2.309
110	2.275	2.225	2.176	2.126	2.076	2.028	1.981	1.933	1.885	1.838
120	2.348	2.327	2.306	2.285	2.264	2.179	2.094	2.009	1.924	1.839
130	2.302	2.275	2.247	2.220	2.193	2.107	2.022	1.936	1.851	1.765
140	2.264	2.223	2.183	2.142	2.101	2.008	1.914	1.821	1.727	1.634
150	2.363	2.320	2.278	2.235	2.193	2.137	2.082	2.026	1.971	1.915
160	2.517	2.487	2.457	2.427	2.397	2.313	2.229	2.145	2.061	1.978
170	2.430	2.373	2.316	2.260	2.203	2.152	2.101	2.050	1.999	1.948
180	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>150.0</u></b>	<b><u>152.5</u></b>	<b><u>155.0</u></b>	<b><u>157.5</u></b>	<b><u>160.0</u></b>	<b><u>162.5</u></b>	<b><u>165.0</u></b>	<b><u>167.5</u></b>	<b><u>170.0</u></b>	<b><u>172.5</u></b>
0	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
10	198.487	196.285	194.084	191.882	191.024	190.166	189.308	188.450	187.593	186.735
20	124.601	121.510	118.418	115.326	114.284	113.242	112.200	111.158	110.115	109.073
30	68.265	65.144	62.022	58.900	57.929	56.957	55.986	55.015	54.043	53.072
40	28.412	25.825	23.237	20.650	19.773	18.896	18.018	17.141	16.264	15.387
50	6.474	5.196	3.919	2.642	2.443	2.243	2.044	1.844	1.645	1.445
60	3.029	2.793	2.556	2.320	2.178	2.036	1.893	1.751	1.609	1.467
70	2.796	2.602	2.407	2.213	2.141	2.069	1.997	1.925	1.854	1.782
80	2.326	2.263	2.200	2.137	2.092	2.046	2.001	1.956	1.910	1.865
90	2.018	1.934	1.849	1.765	1.718	1.672	1.625	1.579	1.532	1.486
100	2.220	2.131	2.042	1.953	1.914	1.876	1.837	1.799	1.760	1.722
110	1.790	1.742	1.695	1.647	1.580	1.513	1.446	1.379	1.313	1.246
120	1.754	1.669	1.584	1.499	1.444	1.389	1.334	1.279	1.225	1.170
130	1.680	1.594	1.509	1.423	1.377	1.331	1.285	1.239	1.194	1.148
140	1.540	1.447	1.353	1.260	1.216	1.172	1.127	1.083	1.039	0.995
150	1.860	1.804	1.749	1.693	1.606	1.520	1.433	1.346	1.260	1.173
160	1.894	1.810	1.726	1.642	1.556	1.470	1.384	1.298	1.211	1.125
170	1.897	1.846	1.795	1.744	1.632	1.521	1.409	1.297	1.186	1.074
180	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>175.0</u></b>	<b><u>177.5</u></b>	<b><u>180.0</u></b>	<b><u>182.5</u></b>	<b><u>185.0</u></b>	<b><u>187.5</u></b>	<b><u>190.0</u></b>	<b><u>192.5</u></b>	<b><u>195.0</u></b>	<b><u>197.5</u></b>
0	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
10	185.877	185.019	184.161	184.958	185.755	186.551	187.348	188.145	188.942	189.738
20	108.031	106.989	105.947	106.953	107.960	108.966	109.973	110.979	111.986	112.992
30	52.101	51.129	50.158	51.135	52.112	53.089	54.066	55.043	56.020	56.997
40	14.509	13.632	12.755	13.599	14.443	15.286	16.130	16.974	17.818	18.661

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>50</b>	1.246	1.046	0.847	1.020	1.194	1.367	1.540	1.714	1.887	2.060
<b>60</b>	1.324	1.182	1.040	1.139	1.237	1.336	1.435	1.533	1.632	1.731
<b>70</b>	1.710	1.638	1.566	1.611	1.656	1.700	1.745	1.790	1.835	1.879
<b>80</b>	1.820	1.774	1.729	1.724	1.720	1.715	1.711	1.706	1.702	1.697
<b>90</b>	1.439	1.393	1.346	1.326	1.306	1.287	1.267	1.247	1.227	1.208
<b>100</b>	1.683	1.645	1.606	1.616	1.625	1.635	1.645	1.654	1.664	1.674
<b>110</b>	1.179	1.112	1.045	1.044	1.044	1.043	1.043	1.042	1.042	1.041
<b>120</b>	1.115	1.060	1.005	1.004	1.004	1.003	1.003	1.002	1.002	1.001
<b>130</b>	1.102	1.056	1.010	0.993	0.976	0.959	0.942	0.925	0.908	0.891
<b>140</b>	0.950	0.906	0.862	0.840	0.819	0.797	0.776	0.754	0.733	0.711
<b>150</b>	1.086	1.000	0.913	0.933	0.953	0.972	0.992	1.012	1.032	1.051
<b>160</b>	1.039	0.953	0.867	0.861	0.856	0.850	0.844	0.839	0.833	0.827
<b>170</b>	0.962	0.851	0.739	0.746	0.754	0.761	0.769	0.776	0.784	0.791
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>200.0</b></u>	<u><b>202.5</b></u>	<u><b>205.0</b></u>	<u><b>207.5</b></u>	<u><b>210.0</b></u>	<u><b>212.5</b></u>	<u><b>215.0</b></u>	<u><b>217.5</b></u>	<u><b>220.0</b></u>	<u><b>222.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	190.535	191.332	193.380	195.429	197.477	199.526	201.574	203.623	205.671	207.720
<b>20</b>	113.999	115.005	117.964	120.922	123.881	126.839	129.798	132.756	135.715	138.673
<b>30</b>	57.974	58.951	61.976	65.001	68.026	71.051	74.075	77.100	80.125	83.150
<b>40</b>	19.505	20.349	22.939	25.528	28.118	30.708	33.297	35.887	38.477	41.066
<b>50</b>	2.234	2.407	3.660	4.914	6.167	7.421	8.674	9.928	11.181	12.435
<b>60</b>	1.829	1.928	2.135	2.342	2.548	2.755	2.962	3.169	3.375	3.582
<b>70</b>	1.924	1.969	2.051	2.133	2.215	2.297	2.380	2.462	2.544	2.626
<b>80</b>	1.693	1.688	1.714	1.740	1.766	1.792	1.819	1.845	1.871	1.897
<b>90</b>	1.188	1.168	1.149	1.129	1.110	1.091	1.071	1.052	1.033	1.013
<b>100</b>	1.683	1.693	1.634	1.575	1.516	1.457	1.399	1.340	1.281	1.222
<b>110</b>	1.041	1.040	1.042	1.044	1.045	1.047	1.049	1.051	1.052	1.054
<b>120</b>	1.001	1.000	0.995	0.991	0.986	0.982	0.977	0.973	0.968	0.964
<b>130</b>	0.874	0.857	0.829	0.801	0.774	0.746	0.718	0.690	0.663	0.635
<b>140</b>	0.690	0.668	0.676	0.684	0.692	0.700	0.707	0.715	0.723	0.731
<b>150</b>	1.071	1.091	1.036	0.980	0.925	0.869	0.814	0.758	0.703	0.647
<b>160</b>	0.822	0.816	0.809	0.801	0.794	0.787	0.779	0.772	0.765	0.757
<b>170</b>	0.799	0.806	0.793	0.780	0.767	0.754	0.740	0.727	0.714	0.701
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>225.0</b></u>	<u><b>227.5</b></u>	<u><b>230.0</b></u>	<u><b>232.5</b></u>	<u><b>235.0</b></u>	<u><b>237.5</b></u>	<u><b>240.0</b></u>	<u><b>242.5</b></u>	<u><b>245.0</b></u>	<u><b>247.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	209.768	213.297	216.825	220.354	223.883	227.411	230.940	234.469	237.997	241.526
<b>20</b>	141.632	147.271	152.911	158.550	164.190	169.829	175.469	181.108	186.748	192.387
<b>30</b>	86.175	92.497	98.819	105.142	111.464	117.786	124.108	130.431	136.753	143.075
<b>40</b>	43.656	49.544	55.431	61.319	67.207	73.094	78.982	84.870	90.757	96.645
<b>50</b>	13.688	18.374	23.061	27.747	32.433	37.120	41.806	46.492	51.179	55.865
<b>60</b>	3.789	6.004	8.218	10.433	12.647	14.862	17.076	19.291	21.505	23.720
<b>70</b>	2.708	3.034	3.360	3.686	4.012	4.337	4.663	4.989	5.315	5.641
<b>80</b>	1.923	2.026	2.128	2.231	2.333	2.436	2.538	2.641	2.743	2.846
<b>90</b>	0.994	0.987	0.980	0.974	0.967	0.960	0.953	0.947	0.940	0.933
<b>100</b>	1.163	1.097	1.030	0.964	0.898	0.831	0.765	0.699	0.632	0.566
<b>110</b>	1.056	0.987	0.918	0.848	0.779	0.710	0.641	0.571	0.502	0.433
<b>120</b>	0.959	0.922	0.884	0.847	0.809	0.772	0.734	0.697	0.659	0.622
<b>130</b>	0.607	0.608	0.608	0.609	0.609	0.610	0.610	0.611	0.611	0.612
<b>140</b>	0.739	0.723	0.706	0.690	0.674	0.657	0.641	0.625	0.608	0.592

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>150</b>	0.592	0.597	0.602	0.607	0.612	0.617	0.622	0.627	0.632	0.637
<b>160</b>	0.750	0.738	0.726	0.714	0.702	0.691	0.679	0.667	0.655	0.643
<b>170</b>	0.688	0.718	0.748	0.778	0.808	0.839	0.869	0.899	0.929	0.959
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles      Horizontal Angles**

	<u><b>250.0</b></u>	<u><b>252.5</b></u>	<u><b>255.0</b></u>	<u><b>257.5</b></u>	<u><b>260.0</b></u>	<u><b>262.5</b></u>	<u><b>265.0</b></u>	<u><b>267.5</b></u>	<u><b>270.0</b></u>	<u><b>272.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	245.180	248.834	252.488	256.142	259.795	263.449	267.103	270.757	274.411	277.379
<b>20</b>	199.915	207.442	214.970	222.498	230.025	237.553	245.081	252.608	260.136	266.042
<b>30</b>	153.535	163.994	174.454	184.913	195.373	205.832	216.292	226.751	237.211	246.043
<b>40</b>	108.996	121.347	133.698	146.049	158.401	170.752	183.103	195.454	207.805	219.299
<b>50</b>	68.523	81.181	93.840	106.498	119.156	131.814	144.473	157.131	169.789	183.635
<b>60</b>	35.118	46.516	57.914	69.312	80.709	92.107	103.505	114.903	126.301	141.143
<b>70</b>	13.842	22.044	30.245	38.446	46.648	54.849	63.050	71.252	79.453	92.892
<b>80</b>	6.045	9.245	12.444	15.643	18.843	22.042	25.241	28.441	31.640	44.375
<b>90</b>	1.096	1.258	1.421	1.584	1.746	1.909	2.072	2.234	2.397	13.018
<b>100</b>	0.731	0.897	1.062	1.228	1.393	1.559	1.724	1.890	2.055	6.155
<b>110</b>	0.628	0.823	1.018	1.213	1.408	1.603	1.798	1.993	2.188	2.986
<b>120</b>	0.815	1.007	1.200	1.393	1.585	1.778	1.971	2.163	2.356	2.721
<b>130</b>	0.829	1.046	1.263	1.480	1.697	1.914	2.131	2.348	2.565	2.754
<b>140</b>	0.832	1.072	1.313	1.553	1.793	2.033	2.274	2.514	2.754	2.847
<b>150</b>	0.888	1.139	1.390	1.641	1.893	2.144	2.395	2.646	2.897	2.932
<b>160</b>	0.901	1.159	1.416	1.674	1.932	2.190	2.447	2.705	2.963	2.961
<b>170</b>	1.185	1.411	1.637	1.863	2.090	2.316	2.542	2.768	2.994	2.974
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles      Horizontal Angles**

	<u><b>275.0</b></u>	<u><b>277.5</b></u>	<u><b>280.0</b></u>	<u><b>282.5</b></u>	<u><b>285.0</b></u>	<u><b>287.5</b></u>	<u><b>290.0</b></u>	<u><b>292.5</b></u>	<u><b>295.0</b></u>	<u><b>297.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	280.346	283.314	286.281	289.249	292.216	295.184	298.151	301.119	303.422	305.725
<b>20</b>	271.949	277.855	283.761	289.668	295.574	301.480	307.387	313.293	318.508	323.723
<b>30</b>	254.874	263.706	272.537	281.369	290.200	299.032	307.863	316.695	324.798	332.902
<b>40</b>	230.793	242.288	253.782	265.276	276.770	288.265	299.759	311.253	321.692	332.131
<b>50</b>	197.481	211.327	225.173	239.019	252.865	266.711	280.557	294.403	303.644	312.885
<b>60</b>	155.984	170.826	185.668	200.509	215.351	230.193	245.034	259.876	268.643	277.410
<b>70</b>	106.331	119.770	133.209	146.648	160.087	173.526	186.965	200.404	210.978	221.552
<b>80</b>	57.111	69.846	82.581	95.317	108.052	120.787	133.523	146.258	157.538	168.818
<b>90</b>	23.639	34.260	44.881	55.502	66.123	76.744	87.365	97.986	109.134	120.282
<b>100</b>	10.255	14.355	18.455	22.554	26.654	30.754	34.854	38.954	51.303	63.652
<b>110</b>	3.784	4.582	5.380	6.177	6.975	7.773	8.571	9.369	25.124	40.879
<b>120</b>	3.086	3.451	3.816	4.181	4.546	4.911	5.276	5.641	6.250	6.859
<b>130</b>	2.944	3.133	3.322	3.512	3.701	3.890	4.080	4.269	4.336	4.403
<b>140</b>	2.941	3.034	3.128	3.221	3.315	3.408	3.502	3.595	3.605	3.614
<b>150</b>	2.966	3.001	3.035	3.070	3.104	3.139	3.173	3.208	3.195	3.182
<b>160</b>	2.960	2.958	2.956	2.955	2.953	2.951	2.950	2.948	2.886	2.823
<b>170</b>	2.954	2.934	2.914	2.895	2.875	2.855	2.835	2.815	2.783	2.752
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles      Horizontal Angles**

	<u><b>300.0</b></u>	<u><b>302.5</b></u>	<u><b>305.0</b></u>	<u><b>307.5</b></u>	<u><b>310.0</b></u>	<u><b>312.5</b></u>	<u><b>315.0</b></u>	<u><b>317.5</b></u>	<u><b>320.0</b></u>	<u><b>322.5</b></u>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	308.028	310.331	312.634	314.937	317.240	319.543	321.846	323.633	325.419	327.206

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>20</b>	328.938	334.153	339.368	344.583	349.798	355.013	360.228	364.406	368.584	372.762
<b>30</b>	341.005	349.108	357.212	365.315	373.418	381.522	389.625	395.732	401.839	407.946
<b>40</b>	342.570	353.009	363.449	373.888	384.327	394.766	405.205	410.212	415.218	420.225
<b>50</b>	322.126	331.367	340.609	349.850	359.091	368.332	377.573	383.317	389.062	394.806
<b>60</b>	286.177	294.944	303.710	312.477	321.244	330.011	338.778	345.498	352.218	358.938
<b>70</b>	232.126	242.700	253.274	263.848	274.422	284.996	295.570	302.633	309.696	316.759
<b>80</b>	180.098	191.378	202.658	213.938	225.218	236.498	247.778	255.177	262.576	269.975
<b>90</b>	131.430	142.578	153.727	164.875	176.023	187.171	198.319	206.235	214.150	222.066
<b>100</b>	76.000	88.349	100.698	113.047	125.395	137.744	150.093	158.431	166.770	175.108
<b>110</b>	56.634	72.389	88.144	103.899	119.654	135.409	151.164	146.741	142.318	137.895
<b>120</b>	7.468	8.077	8.687	9.296	9.905	10.514	11.123	11.873	12.622	13.372
<b>130</b>	4.469	4.536	4.603	4.670	4.736	4.803	4.870	5.013	5.157	5.300
<b>140</b>	3.624	3.634	3.643	3.653	3.663	3.672	3.682	3.552	3.422	3.293
<b>150</b>	3.169	3.156	3.143	3.130	3.117	3.104	3.091	2.957	2.823	2.690
<b>160</b>	2.761	2.699	2.636	2.574	2.512	2.449	2.387	2.262	2.138	2.013
<b>170</b>	2.720	2.688	2.657	2.625	2.593	2.562	2.530	2.418	2.307	2.195
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles      Horizontal Angles**

	<b><u>325.0</u></b>	<b><u>327.5</u></b>	<b><u>330.0</u></b>	<b><u>332.5</u></b>	<b><u>335.0</u></b>	<b><u>337.5</u></b>	<b><u>340.0</u></b>	<b><u>342.5</u></b>	<b><u>345.0</u></b>	<b><u>347.5</u></b>
<b>0</b>	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981	275.981
<b>10</b>	328.993	330.779	332.566	334.353	336.139	337.926	338.393	338.860	339.327	339.794
<b>20</b>	376.940	381.119	385.297	389.475	393.653	397.831	399.027	400.223	401.420	402.616
<b>30</b>	414.053	420.159	426.266	432.373	438.480	444.587	446.562	448.538	450.513	452.489
<b>40</b>	425.231	430.238	435.244	440.251	445.257	450.264	451.822	453.380	454.937	456.495
<b>50</b>	400.550	406.295	412.039	417.783	423.528	429.272	431.353	433.434	435.514	437.595
<b>60</b>	365.658	372.379	379.099	385.819	392.539	399.259	401.608	403.957	406.305	408.654
<b>70</b>	323.822	330.885	337.948	345.011	352.074	359.137	361.697	364.256	366.816	369.376
<b>80</b>	277.374	284.773	292.172	299.571	306.970	314.369	317.030	319.690	322.351	325.011
<b>90</b>	229.982	237.897	245.813	253.729	261.644	269.560	272.405	275.251	278.096	280.941
<b>100</b>	183.447	191.785	200.124	208.462	216.801	225.139	228.191	231.242	234.294	237.345
<b>110</b>	133.472	129.050	124.627	120.204	115.781	111.358	115.583	119.807	124.032	128.256
<b>120</b>	14.122	14.871	15.621	16.371	17.120	17.870	18.001	18.132	18.263	18.394
<b>130</b>	5.444	5.587	5.731	5.874	6.018	6.161	6.164	6.167	6.169	6.172
<b>140</b>	3.163	3.033	2.903	2.774	2.644	2.514	2.305	2.096	1.887	1.678
<b>150</b>	2.556	2.422	2.288	2.155	2.021	1.887	1.705	1.523	1.341	1.159
<b>160</b>	1.888	1.764	1.639	1.514	1.390	1.265	1.237	1.209	1.182	1.154
<b>170</b>	2.083	1.972	1.860	1.748	1.637	1.525	1.438	1.350	1.263	1.176
<b>180</b>	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Vert. Angles      Horizontal Angles**

	<b><u>350.0</u></b>	<b><u>352.5</u></b>	<b><u>355.0</u></b>	<b><u>357.5</u></b>	<b><u>360.0</u></b>
<b>0</b>	275.981	275.981	275.981	275.981	275.981
<b>10</b>	340.260	340.727	341.194	341.661	342.128
<b>20</b>	403.812	405.008	406.205	407.401	408.597
<b>30</b>	454.464	456.440	458.415	460.391	462.366
<b>40</b>	458.053	459.611	461.168	462.726	464.284
<b>50</b>	439.676	441.757	443.837	445.918	447.999
<b>60</b>	411.003	413.352	415.700	418.049	420.398
<b>70</b>	371.935	374.495	377.055	379.614	382.174
<b>80</b>	327.672	330.332	332.993	335.653	338.314
<b>90</b>	283.787	286.632	289.477	292.323	295.168
<b>100</b>	240.397	243.448	246.500	249.551	252.603
<b>110</b>	132.481	136.705	140.930	145.154	149.379

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>120</b>	18.524	18.655	18.786	18.917	19.048
<b>130</b>	6.175	6.178	6.180	6.183	6.186
<b>140</b>	1.468	1.259	1.050	0.841	0.632
<b>150</b>	0.978	0.796	0.614	0.432	0.250
<b>160</b>	1.126	1.098	1.071	1.043	1.015
<b>170</b>	1.088	1.001	0.914	0.826	0.739
<b>180</b>	1.000	1.000	1.000	1.000	1.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	99.82	N.A.	7.90
0-30	214.36	N.A.	16.90
0-40	359.34	N.A.	28.30
0-60	683.91	N.A.	53.90
0-80	973.13	N.A.	76.70
0-90	1084.22	N.A.	85.50
10-90	1058.29	N.A.	83.40
20-40	259.52	N.A.	20.50
20-50	420.51	N.A.	33.10
40-70	478.84	N.A.	37.70
60-80	289.22	N.A.	22.80
70-80	134.94	N.A.	10.60
80-90	111.09	N.A.	8.80
90-110	148.89	N.A.	11.70
90-120	176.65	N.A.	13.90
90-130	180.57	N.A.	14.20
90-150	183.29	N.A.	14.40
90-180	184.59	N.A.	14.50
110-180	35.70	N.A.	2.80
0-180	1268.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	25.93
10-20	73.90
20-30	114.54
30-40	144.98
40-50	160.99
50-60	163.57
60-70	154.28
70-80	134.94
80-90	111.09
90-100	86.31
100-110	62.58
110-120	27.76
120-130	3.92
130-140	1.69
140-150	1.03
150-160	0.73
160-170	0.44
170-180	0.12

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**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	85
1	102	95	90	85	97	92	87	82	85	80	77	78	75	72	72	69	67	64
2	91	81	73	66	87	78	71	64	72	66	60	66	61	57	61	57	53	50
3	82	70	61	53	78	67	59	52	62	55	49	57	52	46	53	48	44	41
4	75	62	52	44	71	59	50	43	55	47	41	51	44	39	47	41	37	34
5	68	55	45	38	65	52	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	28	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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES**

**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	17.3	18.8	17.9	19.4	20.0	11.4	12.8	12.0	13.4	14.1
	3H	20.5	21.9	21.1	22.5	23.2	13.1	14.4	13.7	15.0	15.7
	4H	22.2	23.5	22.8	24.1	24.8	13.8	15.0	14.4	15.6	16.3
	6H	24.0	25.2	24.6	25.8	26.5	14.2	15.4	14.8	16.0	16.8
	8H	25.0	26.1	25.6	26.8	27.5	14.4	15.5	15.0	16.2	16.9
	12H	26.1	27.2	26.7	27.9	28.6	14.5	15.6	15.2	16.3	17.0

UGR Viewed Endwise

4H	2H	18.0	19.2	18.6	19.8	20.5	13.1	14.4	13.7	15.0	15.7
	3H	21.5	22.6	22.1	23.2	23.9	15.3	16.4	16.0	17.1	17.8
	4H	23.4	24.4	24.0	25.0	25.8	16.3	17.3	16.9	18.0	18.7
	6H	25.4	26.3	26.1	27.0	27.8	17.0	17.9	17.7	18.6	19.4
	8H	26.5	27.4	27.2	28.1	28.8	17.3	18.2	18.0	18.8	19.6
	12H	27.8	28.6	28.5	29.3	30.1	17.5	18.3	18.2	19.0	19.8
8H	4H	23.8	24.7	24.5	25.3	26.1	17.9	18.8	18.6	19.4	20.2
	6H	26.1	26.9	26.8	27.6	28.4	19.1	19.9	19.8	20.6	21.4
	8H	27.5	28.2	28.2	28.9	29.7	19.7	20.3	20.4	21.1	21.9
	12H	29.0	29.6	29.7	30.3	31.2	20.2	20.7	20.9	21.5	22.3
12H	4H	23.9	24.6	24.5	25.3	26.1	18.4	19.2	19.1	19.9	20.7
	6H	26.3	27.0	27.0	27.7	28.5	19.9	20.6	20.6	21.3	22.1
	8H	27.8	28.4	28.5	29.1	29.9	20.7	21.3	21.4	22.0	22.9

Maximum UGR = 31.2

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : P59-A9-LED35-LO\_.IES

POLAR GRAPH