

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P59-A9-LED35-HO

[TESTLAB] Intertek

[ISSUE DATE] 2/12/2016

[MANUFAC] Prudential Lighting

[\_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	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)	2.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.75 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	2562	2367	1737
55	2476	2231	1560
65	2398	2101	1304
75	2336	1991	909
85	2322	1898	425

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-HO\_.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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	758.049	756.655	755.262	753.868	752.474	751.081	749.687	748.293	746.900	745.506
<b>20</b>	905.322	901.886	898.449	895.013	891.576	888.140	884.703	881.267	877.830	874.394
<b>30</b>	1024.458	1019.329	1014.200	1009.071	1003.942	998.813	993.684	988.555	983.426	978.297
<b>40</b>	1028.707	1024.295	1019.883	1015.471	1011.059	1006.647	1002.235	997.823	993.411	988.999
<b>50</b>	992.626	987.112	981.597	976.083	970.568	965.054	959.539	954.025	948.510	942.996
<b>60</b>	931.470	925.273	919.075	912.878	906.680	900.483	894.285	888.088	881.890	875.693
<b>70</b>	846.777	840.414	834.051	827.687	821.324	814.961	808.598	802.234	795.871	789.508
<b>80</b>	749.597	743.150	736.702	730.255	723.808	717.360	710.913	704.466	698.018	691.571
<b>90</b>	653.999	647.174	640.349	633.523	626.698	619.873	613.048	606.222	599.397	592.572
<b>100</b>	559.689	552.545	545.401	538.257	531.113	523.968	516.824	509.680	502.536	495.392
<b>110</b>	330.977	322.400	313.824	305.247	296.670	288.094	279.517	270.940	262.364	253.787
<b>120</b>	42.205	41.690	41.175	40.661	40.146	39.631	39.116	38.602	38.087	37.572
<b>130</b>	13.707	13.516	13.325	13.134	12.943	12.753	12.562	12.371	12.180	11.989
<b>140</b>	1.401	1.625	1.848	2.072	2.295	2.519	2.742	2.966	3.189	3.413
<b>150</b>	0.554	0.653	0.752	0.851	0.950	1.050	1.149	1.248	1.347	1.446
<b>160</b>	2.249	2.102	1.955	1.808	1.661	1.515	1.368	1.221	1.074	0.927
<b>170</b>	1.638	1.582	1.525	1.469	1.412	1.356	1.299	1.243	1.186	1.130
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	741.213	736.920	732.628	728.335	724.042	719.749	715.457	711.164	706.871	701.074
<b>20</b>	865.152	855.910	846.668	837.426	828.183	818.941	809.699	800.457	791.215	779.133
<b>30</b>	964.873	951.448	938.024	924.600	911.175	897.751	884.327	870.902	857.478	838.922
<b>40</b>	977.980	966.961	955.943	944.924	933.905	922.886	911.868	900.849	889.830	866.374
<b>50</b>	930.273	917.551	904.828	892.106	879.383	866.661	853.938	841.216	828.493	808.059
<b>60</b>	860.787	845.881	830.975	816.069	801.164	786.258	771.352	756.446	741.540	722.290
<b>70</b>	773.556	757.604	741.653	725.701	709.749	693.797	677.846	661.894	645.942	622.516
<b>80</b>	674.999	658.427	641.855	625.283	608.711	592.139	575.567	558.995	542.423	517.172
<b>90</b>	575.126	557.680	540.234	522.788	505.342	487.896	470.450	453.004	435.558	410.682
<b>100</b>	477.190	458.988	440.787	422.585	404.383	386.181	367.980	349.778	331.576	304.108
<b>110</b>	284.926	316.065	347.204	378.343	409.482	440.621	471.760	502.899	534.038	476.400
<b>120</b>	35.760	33.949	32.137	30.325	28.514	26.702	24.890	23.079	21.267	19.401
<b>130</b>	11.031	10.073	9.115	8.157	7.199	6.241	5.283	4.325	3.367	3.076
<b>140</b>	3.069	2.725	2.381	2.037	1.692	1.348	1.004	0.660	0.316	0.492
<b>150</b>	1.356	1.265	1.175	1.085	0.994	0.904	0.814	0.723	0.633	0.806
<b>160</b>	1.045	1.163	1.281	1.399	1.517	1.635	1.753	1.871	1.989	1.944
<b>170</b>	1.145	1.160	1.175	1.190	1.206	1.221	1.236	1.251	1.266	1.290
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	695.277	689.480	683.683	677.887	672.090	666.293	660.496	654.699	649.063	643.427
<b>20</b>	767.051	754.968	742.886	730.804	718.722	706.639	694.557	682.475	669.880	657.286
<b>30</b>	820.366	801.810	783.254	764.699	746.143	727.587	709.031	690.475	671.200	651.925
<b>40</b>	842.917	819.461	796.005	772.548	749.092	725.636	702.179	678.723	653.190	627.657
<b>50</b>	787.625	767.191	746.757	726.322	705.888	685.454	665.020	644.586	613.506	582.426
<b>60</b>	703.040	683.789	664.539	645.289	626.039	606.788	587.538	568.288	534.910	501.533
<b>70</b>	599.090	575.663	552.237	528.811	505.385	481.958	458.532	435.106	404.912	374.719

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

**CANDELA TABULATION - (Cont.)**

<b>80</b>	491.922	466.671	441.421	416.170	390.920	365.669	340.419	315.168	286.787	258.407
<b>90</b>	385.806	360.929	336.053	311.177	286.301	261.424	236.548	211.672	188.729	165.786
<b>100</b>	276.640	249.173	221.705	194.237	166.769	139.302	111.834	84.366	75.585	66.803
<b>110</b>	418.763	361.125	303.488	245.850	188.213	130.575	72.938	15.300	14.191	13.083
<b>120</b>	17.535	15.670	13.804	11.938	10.072	8.207	6.341	4.475	4.567	4.658
<b>130</b>	2.785	2.493	2.202	1.911	1.620	1.328	1.037	0.746	1.259	1.773
<b>140</b>	0.668	0.843	1.019	1.195	1.371	1.546	1.722	1.898	2.301	2.704
<b>150</b>	0.979	1.153	1.326	1.499	1.672	1.846	2.019	2.192	2.596	3.001
<b>160</b>	1.899	1.853	1.808	1.763	1.718	1.672	1.627	1.582	2.084	2.586
<b>170</b>	1.314	1.337	1.361	1.385	1.409	1.432	1.456	1.480	2.022	2.565
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	637.791	632.155	626.518	620.882	615.246	609.610	603.974	597.244	590.514	583.785
<b>20</b>	644.691	632.097	619.502	606.908	594.313	581.719	569.124	553.928	538.732	523.536
<b>30</b>	632.649	613.374	594.099	574.824	555.548	536.273	516.998	495.277	473.556	451.835
<b>40</b>	602.124	576.591	551.058	525.525	499.992	474.459	448.926	423.166	397.406	371.645
<b>50</b>	551.346	520.266	489.186	458.106	427.026	395.946	364.866	338.296	311.726	285.156
<b>60</b>	468.155	434.777	401.400	368.022	334.644	301.267	267.889	244.199	220.509	196.820
<b>70</b>	344.525	314.332	284.138	253.945	223.751	193.558	163.364	146.959	130.554	114.149
<b>80</b>	230.026	201.646	173.265	144.885	116.504	88.124	59.743	54.173	48.604	43.034
<b>90</b>	142.844	119.901	96.958	74.015	51.073	28.130	5.187	5.197	5.207	5.217
<b>100</b>	58.022	49.241	40.459	31.678	22.897	14.115	5.334	5.378	5.422	5.466
<b>110</b>	11.974	10.865	9.757	8.648	7.539	6.431	5.322	5.352	5.382	5.412
<b>120</b>	4.750	4.842	4.933	5.025	5.117	5.208	5.300	5.315	5.330	5.345
<b>130</b>	2.286	2.800	3.313	3.827	4.340	4.854	5.367	5.371	5.375	5.378
<b>140</b>	3.107	3.510	3.914	4.317	4.720	5.123	5.526	5.520	5.513	5.507
<b>150</b>	3.405	3.809	4.214	4.618	5.022	5.427	5.831	5.817	5.803	5.789
<b>160</b>	3.089	3.591	4.093	4.595	5.098	5.600	6.102	6.081	6.059	6.038
<b>170</b>	3.107	3.650	4.192	4.735	5.277	5.820	6.362	6.323	6.284	6.245
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	577.055	570.325	563.595	556.866	550.136	543.406	535.144	526.883	518.621	510.360
<b>20</b>	508.340	493.145	477.949	462.753	447.557	432.361	419.563	406.765	393.967	381.169
<b>30</b>	430.114	408.392	386.671	364.950	343.229	321.508	307.202	292.896	278.590	264.284
<b>40</b>	345.885	320.125	294.365	268.604	242.844	217.084	203.780	190.476	177.172	163.868
<b>50</b>	258.586	232.015	205.445	178.875	152.305	125.735	115.245	104.755	94.265	83.775
<b>60</b>	173.130	149.440	125.750	102.061	78.371	54.681	49.700	44.719	39.739	34.758
<b>70</b>	97.744	81.338	64.933	48.528	32.123	15.718	14.947	14.176	13.405	12.634
<b>80</b>	37.464	31.895	26.325	20.755	15.186	9.616	9.213	8.810	8.407	8.004
<b>90</b>	5.227	5.237	5.247	5.257	5.267	5.277	5.312	5.347	5.382	5.417
<b>100</b>	5.510	5.553	5.597	5.641	5.685	5.729	5.770	5.812	5.853	5.895
<b>110</b>	5.442	5.473	5.503	5.533	5.563	5.593	5.483	5.372	5.262	5.151
<b>120</b>	5.360	5.375	5.390	5.405	5.420	5.435	5.389	5.342	5.296	5.249
<b>130</b>	5.382	5.386	5.390	5.393	5.397	5.401	5.341	5.281	5.220	5.160
<b>140</b>	5.501	5.494	5.488	5.482	5.475	5.469	5.379	5.288	5.198	5.108
<b>150</b>	5.775	5.762	5.748	5.734	5.720	5.706	5.612	5.518	5.424	5.330
<b>160</b>	6.017	5.995	5.974	5.953	5.931	5.910	5.843	5.777	5.710	5.644
<b>170</b>	6.206	6.168	6.129	6.090	6.051	6.012	5.886	5.761	5.635	5.510

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

CANDELA TABULATION - (Cont.)

180	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
<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	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
10	502.098	493.837	485.575	477.314	469.052	464.174	459.296	454.418	449.540	444.663
20	368.372	355.574	342.776	329.978	317.180	310.330	303.479	296.629	289.779	282.928
30	249.979	235.673	221.367	207.061	192.755	185.838	178.921	172.005	165.088	158.171
40	150.565	137.261	123.957	110.653	97.349	91.616	85.883	80.151	74.418	68.685
50	73.284	62.794	52.304	41.814	31.324	28.494	25.664	22.834	20.004	17.173
60	29.777	24.796	19.816	14.835	9.854	9.330	8.807	8.283	7.759	7.236
70	11.864	11.093	10.322	9.551	8.780	8.349	7.919	7.488	7.057	6.627
80	7.601	7.198	6.795	6.392	5.989	5.850	5.710	5.571	5.432	5.292
90	5.453	5.488	5.523	5.558	5.593	5.406	5.219	5.032	4.845	4.658
100	5.936	5.978	6.019	6.061	6.102	5.905	5.708	5.511	5.314	5.116
110	5.041	4.930	4.820	4.709	4.599	4.494	4.388	4.283	4.177	4.072
120	5.203	5.156	5.110	5.063	5.017	4.829	4.640	4.452	4.264	4.075
130	5.100	5.040	4.979	4.919	4.859	4.669	4.480	4.290	4.101	3.911
140	5.017	4.927	4.837	4.746	4.656	4.449	4.242	4.034	3.827	3.620
150	5.235	5.141	5.047	4.953	4.859	4.736	4.613	4.490	4.367	4.244
160	5.577	5.511	5.444	5.378	5.311	5.125	4.939	4.754	4.568	4.382
170	5.384	5.259	5.133	5.008	4.882	4.769	4.656	4.543	4.430	4.317
180	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

<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	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
10	439.785	434.907	430.029	425.151	423.250	421.349	419.448	417.547	415.647	413.746
20	276.078	269.228	262.377	255.527	253.218	250.909	248.600	246.291	243.982	241.673
30	151.254	144.338	137.421	130.504	128.352	126.200	124.048	121.896	119.743	117.591
40	62.952	57.220	51.487	45.754	43.810	41.867	39.923	37.979	36.036	34.092
50	14.343	11.513	8.683	5.853	5.411	4.969	4.527	4.085	3.644	3.202
60	6.712	6.188	5.665	5.141	4.826	4.511	4.196	3.881	3.565	3.250
70	6.196	5.765	5.335	4.904	4.745	4.585	4.426	4.266	4.107	3.947
80	5.153	5.014	4.874	4.735	4.635	4.534	4.434	4.333	4.233	4.132
90	4.471	4.284	4.097	3.910	3.807	3.704	3.601	3.498	3.395	3.292
100	4.919	4.722	4.525	4.328	4.243	4.157	4.072	3.986	3.901	3.815
110	3.966	3.861	3.755	3.650	3.502	3.354	3.205	3.057	2.909	2.761
120	3.887	3.699	3.510	3.322	3.200	3.078	2.957	2.835	2.713	2.591
130	3.722	3.532	3.343	3.153	3.051	2.949	2.848	2.746	2.644	2.542
140	3.413	3.205	2.998	2.791	2.693	2.595	2.497	2.399	2.302	2.204
150	4.121	3.998	3.875	3.752	3.560	3.368	3.176	2.984	2.791	2.599
160	4.196	4.011	3.825	3.639	3.448	3.257	3.066	2.875	2.685	2.494
170	4.204	4.091	3.978	3.865	3.618	3.370	3.123	2.875	2.628	2.380
180	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

<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	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
10	411.845	409.944	408.043	409.808	411.574	413.339	415.104	416.870	418.635	420.400
20	239.364	237.055	234.746	236.976	239.206	241.436	243.666	245.895	248.125	250.355
30	115.439	113.287	111.135	113.300	115.464	117.629	119.794	121.958	124.123	126.288
40	32.148	30.205	28.261	30.131	32.000	33.870	35.739	37.609	39.478	41.348

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

**CANDELA TABULATION - (Cont.)**

<b>50</b>	2.760	2.318	1.876	2.260	2.644	3.029	3.413	3.797	4.181	4.566
<b>60</b>	2.935	2.620	2.305	2.523	2.742	2.960	3.179	3.397	3.616	3.834
<b>70</b>	3.788	3.628	3.469	3.568	3.667	3.767	3.866	3.965	4.064	4.164
<b>80</b>	4.032	3.931	3.831	3.821	3.811	3.801	3.791	3.780	3.770	3.760
<b>90</b>	3.189	3.086	2.983	2.939	2.895	2.851	2.807	2.764	2.720	2.676
<b>100</b>	3.730	3.644	3.559	3.580	3.602	3.623	3.645	3.666	3.688	3.709
<b>110</b>	2.612	2.464	2.316	2.315	2.314	2.312	2.311	2.310	2.309	2.307
<b>120</b>	2.470	2.348	2.226	2.225	2.224	2.222	2.221	2.220	2.219	2.217
<b>130</b>	2.441	2.339	2.237	2.199	2.162	2.124	2.086	2.049	2.011	1.973
<b>140</b>	2.106	2.008	1.910	1.862	1.814	1.767	1.719	1.671	1.623	1.576
<b>150</b>	2.407	2.215	2.023	2.067	2.111	2.155	2.199	2.242	2.286	2.330
<b>160</b>	2.303	2.112	1.921	1.908	1.896	1.883	1.871	1.858	1.846	1.833
<b>170</b>	2.133	1.885	1.638	1.654	1.671	1.687	1.703	1.720	1.736	1.752
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>200.0</u></b>	<b><u>202.5</u></b>	<b><u>205.0</u></b>	<b><u>207.5</u></b>	<b><u>210.0</u></b>	<b><u>212.5</u></b>	<b><u>215.0</u></b>	<b><u>217.5</u></b>	<b><u>220.0</u></b>	<b><u>222.5</u></b>
<b>0</b>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	422.166	423.931	428.470	433.009	437.547	442.086	446.625	451.164	455.702	460.241
<b>20</b>	252.585	254.815	261.370	267.925	274.481	281.036	287.591	294.146	300.702	307.257
<b>30</b>	128.452	130.617	137.319	144.021	150.723	157.425	164.128	170.830	177.532	184.234
<b>40</b>	43.217	45.087	50.825	56.563	62.301	68.039	73.776	79.514	85.252	90.990
<b>50</b>	4.950	5.334	8.111	10.888	13.666	16.443	19.220	21.997	24.775	27.552
<b>60</b>	4.053	4.271	4.729	5.188	5.646	6.104	6.563	7.021	7.479	7.938
<b>70</b>	4.263	4.362	4.544	4.726	4.908	5.090	5.272	5.454	5.636	5.818
<b>80</b>	3.750	3.740	3.798	3.856	3.913	3.971	4.029	4.087	4.144	4.202
<b>90</b>	2.632	2.588	2.545	2.502	2.460	2.417	2.374	2.331	2.289	2.246
<b>100</b>	3.731	3.752	3.621	3.491	3.360	3.229	3.099	2.968	2.837	2.707
<b>110</b>	2.306	2.305	2.309	2.313	2.316	2.320	2.324	2.328	2.331	2.335
<b>120</b>	2.216	2.215	2.205	2.195	2.185	2.175	2.164	2.154	2.144	2.134
<b>130</b>	1.936	1.898	1.837	1.775	1.714	1.652	1.591	1.529	1.468	1.406
<b>140</b>	1.528	1.480	1.498	1.515	1.533	1.550	1.568	1.585	1.603	1.620
<b>150</b>	2.374	2.418	2.295	2.172	2.049	1.926	1.803	1.680	1.557	1.434
<b>160</b>	1.821	1.808	1.792	1.775	1.759	1.743	1.726	1.710	1.694	1.677
<b>170</b>	1.769	1.785	1.756	1.727	1.698	1.669	1.641	1.612	1.583	1.554
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>225.0</u></b>	<b><u>227.5</u></b>	<b><u>230.0</u></b>	<b><u>232.5</u></b>	<b><u>235.0</u></b>	<b><u>237.5</u></b>	<b><u>240.0</u></b>	<b><u>242.5</u></b>	<b><u>245.0</u></b>	<b><u>247.5</u></b>
<b>0</b>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	464.780	472.598	480.417	488.235	496.053	503.872	511.690	519.508	527.327	535.145
<b>20</b>	313.812	326.307	338.803	351.298	363.793	376.289	388.784	401.279	413.775	426.270
<b>30</b>	190.936	204.944	218.952	232.961	246.969	260.977	274.985	288.994	303.002	317.010
<b>40</b>	96.728	109.773	122.818	135.864	148.909	161.954	174.999	188.045	201.090	214.135
<b>50</b>	30.329	40.712	51.096	61.479	71.863	82.246	92.630	103.013	113.397	123.780
<b>60</b>	8.396	13.303	18.209	23.116	28.023	32.929	37.836	42.743	47.649	52.556
<b>70</b>	6.000	6.722	7.444	8.166	8.888	9.610	10.332	11.054	11.776	12.498
<b>80</b>	4.260	4.487	4.714	4.942	5.169	5.396	5.623	5.851	6.078	6.305
<b>90</b>	2.203	2.188	2.173	2.158	2.143	2.128	2.113	2.098	2.083	2.068
<b>100</b>	2.576	2.429	2.282	2.135	1.988	1.842	1.695	1.548	1.401	1.254
<b>110</b>	2.339	2.186	2.033	1.879	1.726	1.573	1.420	1.266	1.113	0.960
<b>120</b>	2.124	2.041	1.958	1.876	1.793	1.710	1.627	1.545	1.462	1.379
<b>130</b>	1.345	1.346	1.347	1.349	1.350	1.351	1.352	1.354	1.355	1.356
<b>140</b>	1.638	1.602	1.565	1.529	1.493	1.456	1.420	1.384	1.347	1.311

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

**CANDELA TABULATION - (Cont.)**

<b>150</b>	1.311	1.322	1.333	1.345	1.356	1.367	1.378	1.390	1.401	1.412
<b>160</b>	1.661	1.635	1.608	1.582	1.556	1.529	1.503	1.477	1.450	1.424
<b>170</b>	1.525	1.592	1.658	1.725	1.791	1.858	1.924	1.991	2.057	2.124
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	543.241	551.337	559.433	567.529	575.624	583.720	591.816	599.912	608.008	614.583
<b>20</b>	442.949	459.628	476.306	492.985	509.664	526.343	543.021	559.700	576.379	589.466
<b>30</b>	340.185	363.360	386.535	409.710	432.886	456.061	479.236	502.411	525.586	545.154
<b>40</b>	241.501	268.867	296.233	323.599	350.966	378.332	405.698	433.064	460.430	485.898
<b>50</b>	151.827	179.873	207.920	235.967	264.013	292.060	320.107	348.153	376.200	406.878
<b>60</b>	77.810	103.064	128.319	153.573	178.827	204.081	229.336	254.590	279.844	312.728
<b>70</b>	30.670	48.841	67.013	85.185	103.356	121.528	139.700	157.871	176.043	205.820
<b>80</b>	13.394	20.483	27.572	34.661	41.749	48.838	55.927	63.016	70.105	98.322
<b>90</b>	2.428	2.789	3.149	3.509	3.870	4.230	4.590	4.951	5.311	28.844
<b>100</b>	1.621	1.987	2.354	2.721	3.087	3.454	3.821	4.187	4.554	13.638
<b>110</b>	1.392	1.824	2.256	2.688	3.120	3.552	3.984	4.416	4.848	6.616
<b>120</b>	1.806	2.233	2.660	3.087	3.513	3.940	4.367	4.794	5.221	6.030
<b>130</b>	1.837	2.318	2.799	3.280	3.760	4.241	4.722	5.203	5.684	6.103
<b>140</b>	1.843	2.376	2.908	3.440	3.973	4.505	5.037	5.570	6.102	6.309
<b>150</b>	1.968	2.524	3.081	3.637	4.193	4.749	5.306	5.862	6.418	6.495
<b>160</b>	1.995	2.566	3.138	3.709	4.280	4.851	5.423	5.994	6.565	6.561
<b>170</b>	2.625	3.126	3.627	4.128	4.629	5.130	5.631	6.132	6.633	6.589
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	621.159	627.734	634.309	640.885	647.460	654.035	660.611	667.186	672.289	677.391
<b>20</b>	602.552	615.639	628.726	641.812	654.899	667.986	681.072	694.159	705.714	717.269
<b>30</b>	564.722	584.289	603.857	623.425	642.993	662.561	682.128	701.696	719.650	737.605
<b>40</b>	511.365	536.833	562.301	587.768	613.236	638.704	664.171	689.639	712.769	735.899
<b>50</b>	437.556	468.235	498.913	529.591	560.269	590.948	621.626	652.304	672.780	693.255
<b>60</b>	345.613	378.497	411.381	444.266	477.150	510.034	542.919	575.803	595.228	614.652
<b>70</b>	235.596	265.373	295.150	324.926	354.703	384.480	414.256	444.033	467.462	490.890
<b>80</b>	126.540	154.757	182.974	211.192	239.409	267.626	295.844	324.061	349.054	374.047
<b>90</b>	52.377	75.910	99.443	122.976	146.508	170.041	193.574	217.107	241.808	266.508
<b>100</b>	22.722	31.806	40.890	49.973	59.057	68.141	77.225	86.309	113.670	141.031
<b>110</b>	8.384	10.151	11.919	13.687	15.455	17.222	18.990	20.758	55.666	90.575
<b>120</b>	6.838	7.647	8.455	9.264	10.072	10.881	11.689	12.498	13.848	15.197
<b>130</b>	6.523	6.942	7.361	7.781	8.200	8.619	9.039	9.458	9.606	9.754
<b>140</b>	6.516	6.723	6.930	7.138	7.345	7.552	7.759	7.966	7.987	8.009
<b>150</b>	6.571	6.648	6.725	6.801	6.878	6.955	7.031	7.108	7.079	7.050
<b>160</b>	6.557	6.554	6.550	6.546	6.542	6.539	6.535	6.531	6.393	6.255
<b>170</b>	6.545	6.501	6.457	6.414	6.370	6.326	6.282	6.238	6.168	6.097
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	682.494	687.596	692.699	697.801	702.904	708.006	713.109	717.068	721.027	724.985

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

**CANDELA TABULATION - (Cont.)**

<b>20</b>	728.824	740.379	751.933	763.488	775.043	786.598	798.153	807.410	816.667	825.925
<b>30</b>	755.559	773.514	791.468	809.423	827.377	845.332	863.286	876.817	890.348	903.879
<b>40</b>	759.029	782.159	805.288	828.418	851.548	874.678	897.808	908.901	919.994	931.086
<b>50</b>	713.731	734.206	754.682	775.157	795.633	816.109	836.584	849.312	862.039	874.767
<b>60</b>	634.077	653.502	672.926	692.351	711.776	731.200	750.625	765.515	780.404	795.294
<b>70</b>	514.319	537.748	561.176	584.605	608.034	631.462	654.891	670.540	686.190	701.839
<b>80</b>	399.040	424.034	449.026	474.020	499.013	524.006	548.999	565.393	581.787	598.180
<b>90</b>	291.209	315.909	340.610	365.310	390.011	414.712	439.412	456.951	474.490	492.028
<b>100</b>	168.392	195.754	223.114	250.476	277.837	305.198	332.559	351.034	369.510	387.985
<b>110</b>	125.483	160.391	195.299	230.207	265.115	300.024	334.932	325.132	315.333	305.533
<b>120</b>	16.547	17.897	19.246	20.596	21.946	23.295	24.645	26.306	27.967	29.628
<b>130</b>	9.902	10.050	10.199	10.347	10.495	10.643	10.791	11.109	11.426	11.744
<b>140</b>	8.030	8.052	8.073	8.095	8.116	8.138	8.159	7.871	7.584	7.296
<b>150</b>	7.021	6.992	6.964	6.935	6.906	6.877	6.848	6.552	6.255	5.959
<b>160</b>	6.117	5.979	5.840	5.702	5.564	5.426	5.288	5.012	4.736	4.459
<b>170</b>	6.027	5.957	5.886	5.816	5.746	5.675	5.605	5.358	5.110	4.863
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
<b>10</b>	728.944	732.903	736.862	740.820	744.779	748.738	749.773	750.807	751.842	752.876
<b>20</b>	835.182	844.439	853.696	862.954	872.211	881.468	884.118	886.769	889.419	892.070
<b>30</b>	917.410	930.942	944.473	958.004	971.535	985.066	989.443	993.820	998.197	1002.574
<b>40</b>	942.179	953.272	964.365	975.457	986.550	997.643	1001.095	1004.546	1007.998	1011.449
<b>50</b>	887.494	900.222	912.949	925.677	938.404	951.132	955.742	960.353	964.963	969.574
<b>60</b>	810.184	825.073	839.963	854.853	869.742	884.632	889.836	895.040	900.245	905.449
<b>70</b>	717.488	733.138	748.787	764.436	780.086	795.735	801.406	807.078	812.749	818.420
<b>80</b>	614.574	630.968	647.362	663.755	680.149	696.543	702.438	708.333	714.228	720.123
<b>90</b>	509.567	527.106	544.645	562.183	579.722	597.261	603.565	609.869	616.174	622.478
<b>100</b>	406.461	424.936	443.412	461.887	480.362	498.838	505.599	512.360	519.122	525.883
<b>110</b>	295.733	285.934	276.134	266.334	256.535	246.735	256.095	265.455	274.816	284.176
<b>120</b>	31.289	32.951	34.612	36.273	37.934	39.595	39.885	40.175	40.465	40.755
<b>130</b>	12.062	12.379	12.697	13.015	13.332	13.650	13.656	13.663	13.669	13.675
<b>140</b>	7.009	6.721	6.434	6.146	5.859	5.571	5.108	4.644	4.181	3.718
<b>150</b>	5.663	5.366	5.070	4.774	4.477	4.181	3.778	3.375	2.972	2.569
<b>160</b>	4.183	3.907	3.631	3.354	3.078	2.802	2.741	2.679	2.618	2.556
<b>170</b>	4.616	4.368	4.121	3.874	3.626	3.379	3.186	2.992	2.799	2.605
<b>180</b>	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000

**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>	611.488	611.488	611.488	611.488	611.488
<b>10</b>	753.911	754.945	755.980	757.014	758.049
<b>20</b>	894.720	897.371	900.021	902.672	905.322
<b>30</b>	1006.950	1011.327	1015.704	1020.081	1024.458
<b>40</b>	1014.901	1018.352	1021.804	1025.255	1028.707
<b>50</b>	974.184	978.795	983.405	988.016	992.626
<b>60</b>	910.653	915.857	921.062	926.266	931.470
<b>70</b>	824.092	829.763	835.434	841.106	846.777
<b>80</b>	726.017	731.912	737.807	743.702	749.597
<b>90</b>	628.782	635.086	641.391	647.695	653.999
<b>100</b>	532.644	539.405	546.167	552.928	559.689
<b>110</b>	293.536	302.896	312.257	321.617	330.977

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

**CANDELA TABULATION - (Cont.)**

<b>120</b>	41.045	41.335	41.625	41.915	42.205
<b>130</b>	13.682	13.688	13.694	13.701	13.707
<b>140</b>	3.254	2.791	2.328	1.864	1.401
<b>150</b>	2.166	1.763	1.360	0.957	0.554
<b>160</b>	2.495	2.433	2.372	2.310	2.249
<b>170</b>	2.412	2.218	2.025	1.831	1.638
<b>180</b>	3.000	3.000	3.000	3.000	3.000



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

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	221.18	N.A.	7.90
0-30	474.96	N.A.	16.90
0-40	796.19	N.A.	28.30
0-60	1515.32	N.A.	53.90
0-80	2156.14	N.A.	76.70
0-90	2402.29	N.A.	85.50
10-90	2344.84	N.A.	83.40
20-40	575.01	N.A.	20.50
20-50	931.71	N.A.	33.10
40-70	1060.97	N.A.	37.70
60-80	640.82	N.A.	22.80
70-80	298.99	N.A.	10.60
80-90	246.15	N.A.	8.80
90-110	329.90	N.A.	11.70
90-120	391.40	N.A.	13.90
90-130	400.08	N.A.	14.20
90-150	406.11	N.A.	14.40
90-180	409.03	N.A.	14.50
110-180	79.13	N.A.	2.80
0-180	2811.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.45
10-20	163.73
20-30	253.78
30-40	321.22
40-50	356.71
50-60	362.43
60-70	341.84
70-80	298.99
80-90	246.15
90-100	191.23
100-110	138.67
110-120	61.51
120-130	8.68
130-140	3.74
140-150	2.28
150-160	1.63
160-170	0.99
170-180	0.31

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A9-LED35-HO\_.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	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	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-HO\_.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	18.1	19.6	18.7	20.2	20.8	10.9	12.3	11.4	12.9	13.6
	3H	21.1	22.4	21.7	23.0	23.7	12.2	13.5	12.8	14.1	14.8
	4H	22.6	23.9	23.2	24.5	25.2	12.6	13.8	13.2	14.5	15.2
	6H	24.1	25.3	24.8	25.9	26.7	12.8	14.0	13.4	14.6	15.3
	8H	24.9	26.1	25.5	26.7	27.4	12.8	14.0	13.5	14.6	15.4
	12H	25.7	26.8	26.3	27.4	28.2	12.9	14.0	13.5	14.6	15.4

UGR Viewed Endwise

4H	2H	18.5	19.7	19.1	20.3	21.1	12.5	13.8	13.1	14.4	15.1
	3H	21.7	22.8	22.3	23.4	24.2	14.2	15.3	14.8	16.0	16.7
	4H	23.3	24.4	24.0	25.0	25.8	14.9	15.9	15.5	16.5	17.3
	6H	25.1	26.0	25.7	26.7	27.4	15.3	16.2	15.9	16.8	17.6
	8H	26.0	26.8	26.6	27.5	28.3	15.4	16.2	16.0	16.9	17.7
	12H	26.9	27.7	27.6	28.4	29.2	15.4	16.2	16.1	16.9	17.7
8H	4H	23.5	24.4	24.2	25.1	25.8	16.2	17.1	16.9	17.8	18.5
	6H	25.4	26.2	26.1	26.9	27.7	16.9	17.7	17.6	18.4	19.2
	8H	26.5	27.1	27.2	27.9	28.7	17.2	17.9	17.9	18.6	19.4
	12H	27.6	28.2	28.3	28.9	29.8	17.4	18.0	18.1	18.7	19.6
12H	4H	23.5	24.3	24.2	25.0	25.8	16.6	17.4	17.3	18.1	18.9
	6H	25.5	26.2	26.2	26.9	27.7	17.5	18.2	18.3	18.9	19.7
	8H	26.6	27.2	27.3	27.9	28.7	17.9	18.5	18.6	19.3	20.1

Maximum UGR = 29.8

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

POLAR GRAPH