

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P59-A9-LED35-MO

[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	1866
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	24
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	1700	1571	1153
55	1643	1481	1035
65	1592	1394	866
75	1551	1321	603
85	1541	1260	282

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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>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	503.130	502.205	501.280	500.355	499.430	498.505	497.580	496.655	495.730	494.805
20	600.878	598.597	596.316	594.035	591.754	589.474	587.193	584.912	582.631	580.350
30	679.950	676.546	673.142	669.738	666.334	662.929	659.525	656.121	652.717	649.313
40	682.770	679.842	676.913	673.985	671.057	668.128	665.200	662.272	659.343	656.415
50	658.822	655.162	651.502	647.842	644.182	640.523	636.863	633.203	629.543	625.883
60	618.232	614.119	610.005	605.892	601.779	597.665	593.552	589.439	585.325	581.212
70	562.020	557.797	553.573	549.350	545.127	540.903	536.680	532.457	528.233	524.010
80	497.520	493.241	488.962	484.682	480.403	476.124	471.845	467.565	463.286	459.007
90	434.070	429.540	425.010	420.480	415.950	411.420	406.890	402.360	397.830	393.300
100	371.475	366.733	361.992	357.250	352.508	347.767	343.025	338.283	333.542	328.800
110	219.675	213.982	208.290	202.597	196.905	191.212	185.520	179.827	174.135	168.442
120	28.012	27.670	27.329	26.987	26.646	26.304	25.963	25.621	25.280	24.938
130	9.098	8.971	8.844	8.718	8.591	8.464	8.337	8.211	8.084	7.957
140	0.930	1.078	1.227	1.375	1.523	1.672	1.820	1.968	2.117	2.265
150	0.367	0.433	0.499	0.565	0.631	0.696	0.762	0.828	0.894	0.960
160	1.492	1.395	1.297	1.200	1.102	1.005	0.907	0.810	0.712	0.615
170	1.087	1.050	1.012	0.975	0.937	0.900	0.862	0.825	0.787	0.750
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	491.956	489.107	486.258	483.409	480.559	477.710	474.861	472.012	469.163	465.315
20	574.216	568.082	561.948	555.814	549.679	543.545	537.411	531.277	525.143	517.124
30	640.403	631.493	622.583	613.673	604.762	595.852	586.942	578.032	569.122	556.806
40	649.102	641.788	634.475	627.162	619.848	612.535	605.222	597.908	590.595	575.027
50	617.439	608.995	600.550	592.106	583.662	575.218	566.773	558.329	549.885	536.322
60	571.319	561.426	551.532	541.639	531.746	521.853	511.959	502.066	492.173	479.396
70	513.423	502.835	492.248	481.660	471.073	460.485	449.898	439.310	428.723	413.175
80	448.008	437.009	426.010	415.011	404.011	393.012	382.013	371.014	360.015	343.256
90	381.721	370.142	358.562	346.983	335.404	323.825	312.245	300.666	289.087	272.576
100	316.719	304.638	292.557	280.476	268.396	256.315	244.234	232.153	220.072	201.841
110	189.110	209.777	230.445	251.112	271.780	292.447	313.115	333.782	354.450	316.195
120	23.735	22.533	21.330	20.128	18.925	17.723	16.520	15.318	14.115	12.877
130	7.321	6.685	6.050	5.414	4.778	4.142	3.507	2.871	2.235	2.042
140	2.037	1.808	1.580	1.352	1.123	0.895	0.667	0.438	0.210	0.327
150	0.900	0.840	0.780	0.720	0.660	0.600	0.540	0.480	0.420	0.535
160	0.693	0.772	0.850	0.928	1.007	1.085	1.163	1.242	1.320	1.290
170	0.760	0.770	0.780	0.790	0.800	0.810	0.820	0.830	0.840	0.856
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	461.468	457.620	453.773	449.925	446.078	442.230	438.383	434.535	430.794	427.053
20	509.105	501.085	493.066	485.047	477.028	469.008	460.989	452.970	444.611	436.252
30	544.490	532.175	519.859	507.543	495.227	482.912	470.596	458.280	445.487	432.693
40	559.458	543.890	528.322	512.753	497.185	481.617	466.048	450.480	433.533	416.587
50	522.760	509.197	495.635	482.072	468.510	454.947	441.385	427.822	407.194	386.565
60	466.620	453.843	441.066	428.290	415.513	402.736	389.960	377.183	355.030	332.876
70	397.626	382.078	366.530	350.981	335.433	319.885	304.336	288.788	268.748	248.708

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CANDELA TABULATION - (Cont.)

80	326.497	309.738	292.979	276.219	259.460	242.701	225.942	209.183	190.346	171.510
90	256.065	239.555	223.044	206.533	190.022	173.512	157.001	140.490	125.262	110.035
100	183.610	165.380	147.149	128.918	110.687	92.457	74.226	55.995	50.167	44.338
110	277.940	239.685	201.430	163.175	124.920	86.665	48.410	10.155	9.419	8.683
120	11.638	10.400	9.162	7.923	6.685	5.447	4.208	2.970	3.031	3.092
130	1.848	1.655	1.462	1.268	1.075	0.882	0.688	0.495	0.836	1.177
140	0.443	0.560	0.677	0.793	0.910	1.027	1.143	1.260	1.527	1.795
150	0.650	0.765	0.880	0.995	1.110	1.225	1.340	1.455	1.723	1.992
160	1.260	1.230	1.200	1.170	1.140	1.110	1.080	1.050	1.383	1.717
170	0.872	0.888	0.904	0.919	0.935	0.951	0.967	0.983	1.343	1.703
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	423.313	419.572	415.831	412.090	408.350	404.609	400.868	396.401	391.935	387.468
20	427.893	419.534	411.174	402.815	394.456	386.097	377.738	367.652	357.566	347.480
30	419.900	407.107	394.313	381.520	368.727	355.933	343.140	328.723	314.307	299.890
40	399.640	382.693	365.747	348.800	331.853	314.907	297.960	280.863	263.765	246.668
50	365.937	345.309	324.680	304.052	283.424	262.795	242.167	224.532	206.897	189.262
60	310.723	288.570	266.416	244.263	222.110	199.956	177.803	162.080	146.356	130.633
70	228.668	208.628	188.587	168.547	148.507	128.467	108.427	97.539	86.650	75.762
80	152.673	133.836	115.000	96.163	77.326	58.490	39.653	35.956	32.260	28.563
90	94.807	79.580	64.352	49.125	33.897	18.670	3.442	3.449	3.455	3.462
100	38.510	32.682	26.853	21.025	15.197	9.368	3.540	3.569	3.598	3.628
110	7.948	7.212	6.476	5.740	5.005	4.269	3.533	3.553	3.573	3.593
120	3.153	3.214	3.274	3.335	3.396	3.457	3.518	3.528	3.538	3.548
130	1.518	1.859	2.199	2.540	2.881	3.222	3.563	3.565	3.568	3.570
140	2.062	2.330	2.597	2.865	3.132	3.400	3.667	3.663	3.659	3.655
150	2.260	2.528	2.797	3.065	3.333	3.602	3.870	3.861	3.852	3.843
160	2.050	2.383	2.717	3.050	3.383	3.717	4.050	4.036	4.022	4.007
170	2.063	2.423	2.783	3.143	3.503	3.863	4.223	4.197	4.171	4.145
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles	Horizontal Angles									
	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	383.001	378.535	374.068	369.601	365.135	360.668	355.185	349.701	344.218	338.734
20	337.394	327.309	317.223	307.137	297.051	286.965	278.471	269.977	261.483	252.989
30	285.473	271.057	256.640	242.223	227.807	213.390	203.895	194.400	184.905	175.410
40	229.570	212.473	195.375	178.278	161.180	144.083	135.253	126.423	117.593	108.763
50	171.627	153.993	136.358	118.723	101.088	83.453	76.490	69.528	62.565	55.603
60	114.909	99.186	83.462	67.739	52.015	36.292	32.986	29.680	26.375	23.069
70	64.874	53.985	43.097	32.209	21.320	10.432	9.920	9.409	8.897	8.385
80	24.866	21.170	17.473	13.776	10.080	6.383	6.115	5.848	5.580	5.313
90	3.469	3.475	3.482	3.489	3.495	3.502	3.525	3.549	3.572	3.595
100	3.657	3.686	3.715	3.745	3.774	3.803	3.830	3.858	3.885	3.913
110	3.613	3.632	3.652	3.672	3.692	3.712	3.639	3.566	3.492	3.419
120	3.558	3.567	3.577	3.587	3.597	3.607	3.576	3.545	3.515	3.484
130	3.573	3.575	3.578	3.580	3.583	3.585	3.545	3.505	3.465	3.425
140	3.651	3.646	3.642	3.638	3.634	3.630	3.570	3.510	3.450	3.390
150	3.834	3.824	3.815	3.806	3.797	3.788	3.725	3.663	3.600	3.538
160	3.993	3.979	3.965	3.950	3.936	3.922	3.878	3.834	3.790	3.746
170	4.119	4.094	4.068	4.042	4.016	3.990	3.907	3.823	3.740	3.657

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CANDELA TABULATION - (Cont.)

180 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000

Vert. Horizontal Angles
Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	333.251	327.767	322.284	316.800	311.317	308.080	304.842	301.605	298.367	295.130
20	244.494	236.000	227.506	219.012	210.518	205.971	201.424	196.878	192.331	187.784
30	165.915	156.420	146.925	137.430	127.935	123.344	118.753	114.163	109.572	104.981
40	99.932	91.102	82.272	73.442	64.612	60.807	57.002	53.197	49.392	45.587
50	48.640	41.678	34.715	27.753	20.790	18.912	17.033	15.155	13.277	11.398
60	19.763	16.457	13.152	9.846	6.540	6.193	5.845	5.498	5.150	4.803
70	7.874	7.362	6.850	6.339	5.827	5.541	5.255	4.970	4.684	4.398
80	5.045	4.778	4.510	4.243	3.975	3.883	3.790	3.698	3.605	3.513
90	3.619	3.642	3.665	3.689	3.712	3.588	3.464	3.340	3.216	3.091
100	3.940	3.968	3.995	4.023	4.050	3.919	3.788	3.658	3.527	3.396
110	3.346	3.273	3.199	3.126	3.053	2.983	2.913	2.843	2.773	2.702
120	3.453	3.422	3.392	3.361	3.330	3.205	3.080	2.955	2.830	2.705
130	3.385	3.345	3.305	3.265	3.225	3.099	2.973	2.847	2.721	2.596
140	3.330	3.270	3.210	3.150	3.090	2.953	2.815	2.678	2.540	2.403
150	3.475	3.413	3.350	3.288	3.225	3.143	3.062	2.980	2.898	2.817
160	3.701	3.657	3.613	3.569	3.525	3.402	3.278	3.155	3.032	2.908
170	3.573	3.490	3.407	3.323	3.240	3.165	3.090	3.015	2.940	2.865
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Horizontal Angles
Angles

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	291.892	288.655	285.417	282.180	280.918	279.657	278.395	277.133	275.872	274.610
20	183.237	178.691	174.144	169.597	168.065	166.532	165.000	163.467	161.935	160.402
30	100.390	95.800	91.209	86.618	85.190	83.761	82.333	80.905	79.476	78.048
40	41.782	37.977	34.172	30.367	29.077	27.787	26.497	25.207	23.918	22.628
50	9.520	7.642	5.763	3.885	3.592	3.298	3.005	2.712	2.418	2.125
60	4.455	4.108	3.760	3.413	3.204	2.995	2.785	2.576	2.367	2.158
70	4.112	3.827	3.541	3.255	3.149	3.043	2.938	2.832	2.726	2.620
80	3.420	3.328	3.235	3.143	3.076	3.009	2.943	2.876	2.809	2.742
90	2.967	2.843	2.719	2.595	2.527	2.458	2.390	2.322	2.253	2.185
100	3.265	3.135	3.004	2.873	2.816	2.759	2.703	2.646	2.589	2.532
110	2.632	2.562	2.492	2.422	2.324	2.226	2.127	2.029	1.931	1.833
120	2.580	2.455	2.330	2.205	2.124	2.043	1.963	1.882	1.801	1.720
130	2.470	2.344	2.218	2.092	2.025	1.957	1.890	1.822	1.755	1.687
140	2.265	2.128	1.990	1.853	1.788	1.723	1.658	1.593	1.528	1.463
150	2.735	2.653	2.572	2.490	2.363	2.235	2.108	1.980	1.853	1.725
160	2.785	2.662	2.538	2.415	2.288	2.162	2.035	1.908	1.782	1.655
170	2.790	2.715	2.640	2.565	2.401	2.237	2.072	1.908	1.744	1.580
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	273.348	272.087	270.825	271.997	273.168	274.340	275.512	276.683	277.855	279.027
20	158.870	157.337	155.805	157.285	158.765	160.245	161.725	163.205	164.685	166.165
30	76.620	75.191	73.763	75.200	76.636	78.073	79.509	80.946	82.382	83.819
40	21.338	20.048	18.758	19.999	21.240	22.480	23.721	24.962	26.203	27.443

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CANDELA TABULATION - (Cont.)

50	1.832	1.538	1.245	1.500	1.755	2.010	2.265	2.520	2.775	3.030
60	1.948	1.739	1.530	1.675	1.820	1.965	2.110	2.255	2.400	2.545
70	2.515	2.409	2.303	2.369	2.435	2.500	2.566	2.632	2.698	2.763
80	2.676	2.609	2.542	2.535	2.529	2.522	2.515	2.509	2.502	2.495
90	2.117	2.048	1.980	1.951	1.922	1.893	1.864	1.834	1.805	1.776
100	2.476	2.419	2.362	2.376	2.390	2.405	2.419	2.433	2.447	2.462
110	1.734	1.636	1.538	1.537	1.536	1.535	1.534	1.534	1.533	1.532
120	1.640	1.559	1.478	1.477	1.476	1.475	1.474	1.474	1.473	1.472
130	1.620	1.552	1.485	1.460	1.435	1.410	1.385	1.360	1.335	1.310
140	1.398	1.333	1.268	1.236	1.205	1.173	1.141	1.110	1.078	1.046
150	1.598	1.470	1.343	1.372	1.401	1.430	1.459	1.489	1.518	1.547
160	1.528	1.402	1.275	1.267	1.258	1.250	1.242	1.233	1.225	1.217
170	1.415	1.251	1.087	1.098	1.109	1.120	1.131	1.141	1.152	1.163
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles **Horizontal Angles**

	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	280.198	281.370	284.383	287.395	290.408	293.420	296.433	299.445	302.458	305.470
20	167.645	169.125	173.476	177.827	182.177	186.528	190.879	195.230	199.580	203.931
30	85.255	86.692	91.140	95.589	100.037	104.486	108.934	113.383	117.831	122.280
40	28.684	29.925	33.733	37.542	41.350	45.158	48.967	52.775	56.583	60.392
50	3.285	3.540	5.383	7.227	9.070	10.913	12.757	14.600	16.443	18.287
60	2.690	2.835	3.139	3.443	3.747	4.051	4.356	4.660	4.964	5.268
70	2.829	2.895	3.016	3.137	3.257	3.378	3.499	3.620	3.740	3.861
80	2.489	2.482	2.520	2.559	2.597	2.636	2.674	2.713	2.751	2.790
90	1.747	1.718	1.690	1.661	1.633	1.604	1.576	1.547	1.519	1.490
100	2.476	2.490	2.403	2.317	2.230	2.143	2.057	1.970	1.883	1.797
110	1.531	1.530	1.532	1.535	1.537	1.540	1.542	1.545	1.547	1.550
120	1.471	1.470	1.463	1.457	1.450	1.443	1.437	1.430	1.423	1.417
130	1.285	1.260	1.219	1.178	1.137	1.096	1.056	1.015	0.974	0.933
140	1.015	0.983	0.995	1.006	1.018	1.029	1.041	1.052	1.064	1.075
150	1.576	1.605	1.523	1.442	1.360	1.278	1.197	1.115	1.033	0.952
160	1.208	1.200	1.189	1.178	1.168	1.157	1.146	1.135	1.125	1.114
170	1.174	1.185	1.166	1.147	1.127	1.108	1.089	1.070	1.050	1.031
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	308.483	313.672	318.861	324.050	329.239	334.429	339.618	344.807	349.996	355.185
20	208.282	216.575	224.869	233.162	241.456	249.749	258.043	266.336	274.630	282.923
30	126.728	136.025	145.323	154.620	163.918	173.215	182.513	191.810	201.108	210.405
40	64.200	72.858	81.517	90.175	98.833	107.492	116.150	124.808	133.467	142.125
50	20.130	27.022	33.913	40.805	47.697	54.588	61.480	68.372	75.263	82.155
60	5.572	8.829	12.086	15.342	18.599	21.856	25.113	28.369	31.626	34.883
70	3.982	4.461	4.940	5.420	5.899	6.378	6.857	7.337	7.816	8.295
80	2.828	2.979	3.130	3.280	3.431	3.582	3.733	3.883	4.034	4.185
90	1.462	1.452	1.442	1.432	1.422	1.413	1.403	1.393	1.383	1.373
100	1.710	1.613	1.515	1.418	1.320	1.223	1.125	1.028	0.930	0.833
110	1.552	1.450	1.349	1.247	1.145	1.044	0.942	0.840	0.739	0.637
120	1.410	1.355	1.300	1.245	1.190	1.135	1.080	1.025	0.970	0.915
130	0.892	0.893	0.894	0.895	0.896	0.896	0.897	0.898	0.899	0.900
140	1.087	1.063	1.039	1.015	0.991	0.966	0.942	0.918	0.894	0.870

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CANDELA TABULATION - (Cont.)

150	0.870	0.878	0.885	0.893	0.900	0.908	0.915	0.923	0.930	0.938
160	1.103	1.085	1.068	1.050	1.033	1.015	0.998	0.980	0.963	0.945
170	1.012	1.056	1.100	1.145	1.189	1.233	1.277	1.322	1.366	1.410
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	360.558	365.932	371.305	376.678	382.052	387.425	392.798	398.172	403.545	407.909
20	293.993	305.063	316.133	327.203	338.273	349.343	360.413	371.483	382.553	391.239
30	225.787	241.168	256.550	271.932	287.313	302.695	318.077	333.458	348.840	361.827
40	160.288	178.452	196.615	214.778	232.942	251.105	269.268	287.432	305.595	322.498
50	100.770	119.385	138.000	156.615	175.230	193.845	212.460	231.075	249.690	270.052
60	51.645	68.406	85.168	101.930	118.691	135.453	152.215	168.976	185.738	207.564
70	20.356	32.417	44.478	56.539	68.599	80.660	92.721	104.782	116.843	136.606
80	8.890	13.595	18.300	23.005	27.710	32.415	37.120	41.825	46.530	65.258
90	1.612	1.851	2.090	2.329	2.569	2.808	3.047	3.286	3.525	19.144
100	1.076	1.319	1.563	1.806	2.049	2.292	2.536	2.779	3.022	9.051
110	0.924	1.210	1.497	1.784	2.070	2.357	2.644	2.930	3.217	4.390
120	1.198	1.482	1.765	2.048	2.332	2.615	2.898	3.182	3.465	4.002
130	1.219	1.538	1.857	2.176	2.496	2.815	3.134	3.453	3.772	4.050
140	1.223	1.577	1.930	2.283	2.637	2.990	3.343	3.697	4.050	4.187
150	1.307	1.676	2.045	2.414	2.784	3.153	3.522	3.891	4.260	4.311
160	1.324	1.703	2.082	2.461	2.841	3.220	3.599	3.978	4.357	4.355
170	1.742	2.075	2.407	2.740	3.072	3.405	3.737	4.070	4.402	4.373
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	412.273	416.637	421.001	425.366	429.730	434.094	438.458	442.822	446.209	449.596
20	399.925	408.610	417.296	425.982	434.668	443.353	452.039	460.725	468.394	476.063
30	374.815	387.803	400.790	413.778	426.765	439.753	452.740	465.728	477.645	489.561
40	339.402	356.305	373.208	390.112	407.015	423.918	440.822	457.725	473.077	488.428
50	290.413	310.775	331.137	351.498	371.860	392.222	412.583	432.945	446.535	460.125
60	229.390	251.215	273.041	294.867	316.693	338.519	360.344	382.170	395.062	407.955
70	156.369	176.133	195.896	215.659	235.422	255.186	274.949	294.712	310.262	325.812
80	83.987	102.715	121.443	140.172	158.900	177.628	196.357	215.085	231.673	248.262
90	34.763	50.382	66.001	81.621	97.240	112.859	128.478	144.097	160.491	176.886
100	15.080	21.110	27.139	33.168	39.197	45.227	51.256	57.285	75.445	93.605
110	5.564	6.737	7.910	9.084	10.257	11.430	12.604	13.777	36.946	60.116
120	4.538	5.075	5.612	6.148	6.685	7.222	7.758	8.295	9.191	10.087
130	4.329	4.607	4.885	5.164	5.442	5.720	5.999	6.277	6.375	6.474
140	4.325	4.462	4.600	4.737	4.875	5.012	5.150	5.287	5.301	5.315
150	4.362	4.413	4.464	4.514	4.565	4.616	4.667	4.718	4.699	4.680
160	4.352	4.350	4.347	4.345	4.342	4.340	4.337	4.335	4.243	4.152
170	4.344	4.315	4.286	4.256	4.227	4.198	4.169	4.140	4.093	4.047
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Angles Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	452.982	456.369	459.756	463.143	466.529	469.916	473.303	475.930	478.558	481.185

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CANDELA TABULATION - (Cont.)

20	483.732	491.401	499.071	506.740	514.409	522.078	529.747	535.891	542.035	548.180
30	501.478	513.394	525.311	537.227	549.144	561.060	572.977	581.958	590.939	599.920
40	503.780	519.132	534.483	549.835	565.187	580.538	595.890	603.253	610.615	617.978
50	473.715	487.305	500.895	514.485	528.075	541.665	555.255	563.703	572.150	580.598
60	420.847	433.740	446.632	459.525	472.417	485.310	498.202	508.085	517.967	527.850
70	341.362	356.913	372.463	388.013	403.563	419.113	434.663	445.050	455.436	465.823
80	264.850	281.438	298.027	314.615	331.203	347.792	364.380	375.261	386.142	397.023
90	193.280	209.674	226.068	242.462	258.857	275.251	291.645	303.286	314.927	326.568
100	111.765	129.925	148.085	166.245	184.405	202.565	220.725	232.987	245.250	257.512
110	83.285	106.454	129.623	152.792	175.961	199.131	222.300	215.796	209.292	202.787
120	10.983	11.879	12.774	13.670	14.566	15.462	16.358	17.460	18.563	19.665
130	6.572	6.670	6.769	6.867	6.965	7.064	7.162	7.373	7.584	7.795
140	5.330	5.344	5.358	5.372	5.387	5.401	5.415	5.224	5.033	4.842
150	4.660	4.641	4.622	4.603	4.583	4.564	4.545	4.348	4.152	3.955
160	4.060	3.968	3.877	3.785	3.693	3.602	3.510	3.327	3.143	2.960
170	4.000	3.953	3.907	3.860	3.813	3.767	3.720	3.556	3.392	3.228
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855	405.855
10	483.813	486.440	489.068	491.695	494.323	496.950	497.637	498.323	499.010	499.697
20	554.324	560.468	566.612	572.757	578.901	585.045	586.804	588.563	590.323	592.082
30	608.901	617.881	626.862	635.843	644.824	653.805	656.710	659.615	662.520	665.425
40	625.340	632.703	640.065	647.428	654.790	662.153	664.444	666.735	669.025	671.316
50	589.045	597.493	605.940	614.388	622.835	631.283	634.343	637.403	640.463	643.523
60	537.732	547.615	557.497	567.380	577.262	587.145	590.599	594.053	597.507	600.961
70	476.210	486.596	496.983	507.370	517.756	528.143	531.907	535.671	539.435	543.199
80	407.904	418.784	429.665	440.546	451.427	462.308	466.220	470.133	474.045	477.958
90	338.209	349.849	361.490	373.131	384.772	396.413	400.597	404.781	408.965	413.149
100	269.775	282.037	294.300	306.562	318.824	331.087	335.575	340.062	344.550	349.037
110	196.283	189.779	183.275	176.770	170.266	163.762	169.975	176.187	182.400	188.612
120	20.768	21.870	22.973	24.075	25.178	26.280	26.472	26.665	26.857	27.050
130	8.006	8.216	8.427	8.638	8.849	9.060	9.064	9.068	9.073	9.077
140	4.651	4.461	4.270	4.079	3.888	3.697	3.390	3.082	2.775	2.467
150	3.758	3.562	3.365	3.168	2.972	2.775	2.507	2.240	1.972	1.705
160	2.777	2.593	2.410	2.227	2.043	1.860	1.819	1.778	1.737	1.696
170	3.064	2.899	2.735	2.571	2.407	2.243	2.115	1.986	1.858	1.729
180	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0	405.855	405.855	405.855	405.855	405.855
10	500.383	501.070	501.757	502.443	503.130
20	593.841	595.600	597.360	599.119	600.878
30	668.330	671.235	674.140	677.045	679.950
40	673.607	675.898	678.188	680.479	682.770
50	646.582	649.642	652.702	655.762	658.822
60	604.416	607.870	611.324	614.778	618.232
70	546.964	550.728	554.492	558.256	562.020
80	481.870	485.783	489.695	493.608	497.520
90	417.334	421.518	425.702	429.886	434.070
100	353.525	358.012	362.500	366.987	371.475
110	194.825	201.037	207.250	213.462	219.675

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CANDELA TABULATION - (Cont.)

120	27.242	27.435	27.627	27.820	28.012
130	9.081	9.085	9.090	9.094	9.098
140	2.160	1.852	1.545	1.237	0.930
150	1.437	1.170	0.902	0.635	0.367
160	1.656	1.615	1.574	1.533	1.492
170	1.601	1.472	1.344	1.215	1.087
180	2.000	2.000	2.000	2.000	2.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	146.80	N.A.	7.90
0-30	315.24	N.A.	16.90
0-40	528.44	N.A.	28.30
0-60	1005.74	N.A.	53.90
0-80	1431.07	N.A.	76.70
0-90	1594.44	N.A.	85.50
10-90	1556.31	N.A.	83.40
20-40	381.64	N.A.	20.50
20-50	618.39	N.A.	33.10
40-70	704.18	N.A.	37.70
60-80	425.32	N.A.	22.80
70-80	198.44	N.A.	10.60
80-90	163.37	N.A.	8.80
90-110	218.96	N.A.	11.70
90-120	259.78	N.A.	13.90
90-130	265.54	N.A.	14.20
90-150	269.54	N.A.	14.40
90-180	271.48	N.A.	14.50
110-180	52.52	N.A.	2.80
0-180	1865.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.13
10-20	108.67
20-30	168.44
30-40	213.20
40-50	236.75
50-60	240.55
60-70	226.88
70-80	198.44
80-90	163.37
90-100	126.92
100-110	92.03
110-120	40.83
120-130	5.76
130-140	2.48
140-150	1.52
150-160	1.08
160-170	0.65
170-180	0.21

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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	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

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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	16.7	18.2	17.3	18.8	19.4	9.5	10.9	10.0	11.5	12.2
	3H	19.7	21.0	20.3	21.6	22.3	10.8	12.1	11.4	12.7	13.4
	4H	21.2	22.5	21.8	23.1	23.8	11.2	12.4	11.8	13.1	13.8
	6H	22.7	23.9	23.4	24.5	25.3	11.4	12.6	12.0	13.2	13.9
	8H	23.5	24.6	24.1	25.3	26.0	11.4	12.6	12.1	13.2	14.0
	12H	24.3	25.4	24.9	26.0	26.8	11.5	12.6	12.1	13.2	14.0

UGR Viewed Endwise

4H	2H	17.1	18.3	17.7	18.9	19.7	11.1	12.4	11.7	13.0	13.7
	3H	20.3	21.4	20.9	22.0	22.8	12.8	13.9	13.4	14.6	15.3
	4H	21.9	23.0	22.6	23.6	24.4	13.5	14.5	14.1	15.1	15.9
	6H	23.7	24.6	24.3	25.3	26.0	13.9	14.8	14.5	15.4	16.2
	8H	24.6	25.4	25.2	26.1	26.9	14.0	14.8	14.6	15.5	16.3
	12H	25.5	26.3	26.2	27.0	27.8	14.0	14.8	14.7	15.5	16.3

8H	4H	22.1	23.0	22.8	23.7	24.4	14.8	15.7	15.5	16.3	17.1
	6H	24.0	24.8	24.7	25.5	26.3	15.5	16.3	16.2	17.0	17.8
	8H	25.1	25.7	25.8	26.5	27.3	15.8	16.5	16.5	17.2	18.0
	12H	26.2	26.8	26.9	27.5	28.4	16.0	16.6	16.7	17.3	18.2

12H	4H	22.1	22.9	22.8	23.6	24.4	15.2	16.0	15.9	16.7	17.5
	6H	24.1	24.8	24.8	25.5	26.3	16.1	16.8	16.9	17.5	18.3
	8H	25.2	25.8	25.9	26.5	27.3	16.5	17.1	17.2	17.9	18.7

Maximum UGR = 28.4

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P59-A9-LED35-MO_.IES

POLAR GRAPH