



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-8-L11-835-S-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13362254.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 3-JUN-2020

[MANUFAC] H E Williams Inc

[LUMCAT] AIWP33-8-L11/835-S-DIM-UNV

[LUMINAIRE] Formed white steel housing, prismatic lens enclosure

[LAMP] 112 White LEDs

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	8.00 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4046	3101	1461
55	4758	3423	1172
65	5747	3849	866
75	7719	4612	705
85	16906	8548	820

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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>
0.0	411.463	411.463	411.463	411.463	411.463	411.463	411.463	411.463	411.463
0.5	407.862	414.165	413.489	415.740	419.116	412.364	407.187	405.836	399.984
1.0	411.914	418.441	416.415	417.316	419.116	410.563	403.810	401.334	395.932
1.5	415.740	422.493	419.567	418.891	419.116	408.762	400.434	397.283	391.881
2.0	419.792	426.770	422.718	420.467	418.891	406.737	397.058	393.006	387.829
2.5	423.843	430.821	425.419	422.043	418.666	404.936	393.681	388.504	384.003
3.0	427.670	435.098	428.345	423.393	418.441	402.910	390.305	384.453	379.726
3.5	431.721	439.149	431.271	424.744	418.216	401.109	386.929	379.951	375.899
4.0	435.773	443.201	434.197	426.094	417.766	398.858	383.327	375.674	371.623
4.5	439.600	447.253	437.124	427.445	417.316	396.833	379.951	371.398	367.346
5.0	443.876	451.079	439.825	428.570	416.866	394.582	376.349	366.896	363.519
5.5	447.928	455.131	442.526	429.696	416.415	392.331	372.748	362.619	359.243
6.0	452.430	459.182	445.227	430.821	415.740	390.080	369.147	358.342	355.191
6.5	456.706	462.784	447.928	431.947	414.840	387.829	365.545	354.066	351.139
7.0	461.208	466.610	450.404	433.072	414.165	385.578	361.944	349.564	347.088
7.5	465.485	470.662	453.105	433.972	413.489	383.102	358.342	345.062	342.811
8.0	469.762	474.263	455.581	434.873	412.589	380.626	354.741	340.785	338.985
8.5	474.038	477.865	458.057	435.548	411.689	378.375	351.139	336.284	334.708
9.0	478.315	481.466	460.308	436.448	410.563	375.899	347.313	332.007	330.656
9.5	482.367	485.068	462.559	437.349	409.663	373.423	343.712	327.730	326.605
10.0	486.193	488.444	465.035	437.799	408.537	370.947	340.110	323.453	322.553
10.5	490.245	491.820	467.061	438.474	407.637	368.246	336.509	318.952	318.276
11.0	494.071	495.197	469.311	439.149	406.286	365.770	332.682	314.675	314.225
11.5	497.673	498.573	471.337	439.600	405.161	363.069	328.856	310.398	309.948
12.0	501.499	501.949	473.363	440.050	403.810	360.143	325.029	306.122	305.671
12.5	505.101	504.876	475.389	440.500	402.460	357.442	321.428	301.845	301.395
13.0	508.927	508.252	477.190	440.725	401.109	354.741	317.601	297.568	297.118
13.5	512.529	511.178	479.215	440.950	399.759	352.040	313.775	293.291	292.841
14.0	516.130	514.104	480.791	441.175	398.183	349.114	309.948	289.240	288.340
14.5	519.506	517.255	482.817	441.400	396.833	346.188	306.122	284.738	284.288
15.0	523.108	520.182	484.392	441.625	395.257	343.261	302.295	280.686	280.011
15.5	526.709	523.108	485.968	441.625	393.681	340.335	298.469	276.410	275.735
16.0	530.311	526.034	487.544	441.625	392.331	337.184	294.642	272.133	271.233
16.5	533.687	528.735	488.894	441.400	390.530	334.258	290.816	267.856	266.956
17.0	537.063	531.436	490.470	441.400	388.954	331.107	286.764	263.580	262.904
17.5	540.440	534.137	491.820	441.175	387.379	327.955	282.937	259.303	258.403
18.0	543.816	536.613	493.171	440.950	385.578	325.029	279.111	255.251	254.126
18.5	546.967	539.089	494.521	440.725	383.777	321.878	275.284	250.975	249.849
19.0	550.119	541.565	495.872	440.500	381.977	318.727	271.458	246.698	245.347
19.5	553.045	543.816	497.222	440.275	380.176	315.575	267.406	242.646	240.846
20.0	556.646	546.067	498.123	439.825	378.150	312.424	263.580	238.370	236.344
20.5	560.022	548.318	499.248	439.375	376.124	309.048	259.753	234.318	231.842
21.0	563.174	550.569	500.374	439.149	374.324	305.897	255.927	230.266	227.565
21.5	565.875	553.045	501.499	438.474	372.073	302.520	251.875	225.990	223.064
22.0	568.576	555.070	502.400	438.024	370.047	299.144	248.049	221.938	218.562
22.5	571.277	557.096	503.525	437.349	367.796	295.993	244.222	217.887	214.060
23.0	574.428	559.347	504.425	436.673	365.545	292.391	240.170	214.060	209.783
23.5	577.129	561.373	505.101	436.223	363.294	289.015	236.119	210.008	205.282
24.0	580.280	563.624	506.001	435.323	360.818	285.638	232.292	206.182	200.780
24.5	583.207	565.650	506.901	434.648	358.342	282.037	228.466	202.130	196.728
25.0	585.683	567.675	507.577	433.972	356.091	278.661	224.639	198.304	192.226
25.5	587.934	569.701	508.252	433.072	353.615	275.059	220.813	194.252	187.725
26.0	590.410	571.502	508.702	432.397	351.139	271.458	216.986	190.201	183.448
26.5	592.660	573.303	509.152	431.496	348.438	268.081	213.160	186.374	179.171

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27.0	595.361	574.878	509.602	430.146	345.737	264.255	209.108	182.322	175.120
27.5	597.837	576.454	510.053	429.020	343.036	260.654	205.282	178.271	170.618
28.0	600.313	578.255	510.503	427.670	340.335	257.052	201.230	174.444	166.566
28.5	602.339	579.830	510.953	426.319	337.634	253.451	197.403	170.393	162.289
29.0	603.690	581.631	511.403	425.194	334.933	249.849	193.577	166.566	158.238
29.5	605.040	583.207	511.178	423.618	331.782	246.023	189.750	162.515	154.186
30.0	606.616	584.557	510.728	422.268	329.081	242.421	185.699	158.688	150.135
30.5	608.192	585.007	510.503	420.692	325.929	238.595	182.097	154.862	146.083
31.0	609.992	585.683	510.503	419.342	323.003	234.768	178.046	151.035	142.031
31.5	611.793	586.583	510.728	417.766	320.077	231.167	174.219	147.208	138.205
32.0	612.918	587.708	511.403	415.965	316.926	227.340	170.393	143.157	134.378
32.5	613.819	589.509	512.078	414.615	314.000	223.514	166.566	139.555	130.552
33.0	614.944	591.085	512.303	412.814	310.623	219.687	162.515	135.729	126.725
33.5	616.295	592.210	511.628	410.788	307.697	215.861	158.688	131.902	122.899
34.0	617.645	591.985	509.377	408.537	304.096	212.259	154.862	128.076	119.297
34.5	619.221	590.635	507.802	406.061	300.945	208.433	150.810	124.474	115.696
35.0	620.571	590.184	507.126	403.810	297.793	204.606	146.983	120.648	112.095
35.5	621.022	590.635	506.226	401.785	294.192	200.780	143.382	117.046	108.493
36.0	621.022	591.085	505.326	399.534	290.816	196.953	139.555	113.445	105.117
36.5	621.472	591.310	504.200	397.283	287.214	193.127	135.729	110.069	101.740
37.0	621.922	590.635	503.300	395.032	283.838	189.300	132.127	106.467	98.589
37.5	622.597	589.509	502.174	392.556	280.236	185.474	128.526	103.091	95.213
38.0	623.498	588.384	500.824	390.080	276.635	181.872	124.925	99.940	92.287
38.5	624.173	587.934	499.248	387.604	273.033	178.046	121.323	96.563	89.135
39.0	624.173	588.159	497.673	384.903	269.432	174.669	117.947	93.412	86.209
39.5	624.173	588.834	496.097	382.202	265.606	170.843	114.571	90.261	83.283
40.0	624.398	588.834	494.296	379.501	262.004	167.016	111.194	87.335	80.582
40.5	624.398	587.258	492.496	376.800	258.178	163.640	107.818	84.409	77.881
41.0	625.073	585.232	490.470	373.874	254.576	160.039	104.441	81.482	75.180
41.5	625.298	583.657	488.444	371.172	250.975	156.437	101.290	78.781	72.704
42.0	625.298	582.531	486.643	368.246	247.148	152.836	98.139	76.080	70.003
42.5	624.398	581.856	484.617	365.095	243.322	149.234	94.988	73.604	67.527
43.0	623.498	581.181	483.267	362.169	239.495	145.858	91.836	71.128	65.051
43.5	622.822	580.055	483.492	359.018	235.669	142.257	88.910	68.652	62.800
44.0	622.372	579.155	482.592	356.091	232.067	138.880	86.209	66.401	60.549
44.5	622.147	578.030	479.891	352.940	228.241	135.279	83.283	64.150	58.298
45.0	621.472	576.904	476.289	350.014	224.414	131.902	80.582	61.900	56.272
45.5	620.571	575.779	473.363	347.088	220.588	128.526	78.106	59.874	54.247
46.0	619.446	574.653	470.887	343.937	216.536	125.150	75.630	57.623	52.221
46.5	618.771	573.303	469.086	341.010	212.935	121.773	73.154	55.597	50.195
47.0	618.096	571.952	467.286	337.859	209.108	118.622	70.678	53.571	48.169
47.5	617.645	570.377	465.485	334.708	205.282	115.246	68.427	51.545	46.368
48.0	617.195	569.026	462.784	331.782	201.230	112.095	66.401	49.745	44.568
48.5	616.070	567.450	460.308	329.081	197.403	108.943	64.150	47.944	42.992
49.0	614.494	565.875	457.607	326.605	193.352	105.792	62.350	46.143	41.191
49.5	613.144	564.299	455.356	323.228	189.300	102.641	60.324	44.343	39.616
50.0	611.793	562.724	453.105	319.402	185.474	99.490	58.298	42.542	38.040
50.5	610.893	560.923	450.629	315.800	181.422	96.563	56.497	40.966	36.464
51.0	609.317	559.122	448.378	312.199	177.370	93.637	54.697	39.391	34.889
51.5	607.741	556.871	445.902	308.598	173.544	90.711	52.671	37.815	33.313
52.0	605.716	554.845	443.201	305.221	169.492	88.010	50.870	36.239	31.963
52.5	603.690	552.820	440.500	301.845	165.441	85.084	48.844	34.889	30.612
53.0	601.664	550.569	438.024	298.469	161.389	82.158	47.269	33.538	29.262
53.5	600.088	548.093	435.323	295.092	157.563	79.457	45.468	31.963	28.136
54.0	598.063	545.617	432.847	291.266	153.736	76.755	43.892	30.837	26.786
54.5	595.587	544.041	430.146	287.214	149.910	74.280	42.317	29.487	25.660

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CANDELA TABULATION - (Cont.)

55.0	592.885	543.816	426.544	283.162	146.083	71.804	40.516	28.136	24.535
55.5	590.410	543.141	422.718	279.336	142.257	69.328	38.940	27.011	23.409
56.0	587.934	539.539	419.342	275.509	138.430	66.852	37.590	25.885	22.509
56.5	585.458	533.912	415.965	271.683	134.829	64.601	36.014	24.760	21.383
57.0	582.756	529.185	412.589	267.631	131.227	62.350	34.664	23.634	20.483
57.5	579.605	526.484	408.987	263.805	127.626	60.099	33.313	22.734	19.583
58.0	576.454	524.458	405.386	259.753	124.024	58.073	32.188	21.834	18.682
58.5	573.528	521.982	401.785	255.476	120.423	56.047	30.837	20.933	17.782
59.0	570.602	517.481	398.183	251.425	116.821	54.021	29.712	20.033	17.107
59.5	567.450	512.754	394.582	247.598	113.445	52.221	28.361	19.133	16.432
60.0	563.849	510.053	390.755	243.322	109.844	50.195	27.236	18.457	15.756
60.5	560.473	507.126	386.929	239.270	106.467	48.394	26.110	17.782	15.081
61.0	556.871	503.300	383.327	234.993	103.091	46.594	25.210	16.882	14.631
61.5	553.720	498.573	379.951	230.942	99.715	45.018	24.310	16.206	13.956
62.0	550.344	495.647	376.800	226.665	96.563	43.217	23.409	15.756	13.505
62.5	546.742	494.296	373.198	222.839	93.637	41.642	22.509	15.081	13.055
63.0	542.916	492.496	368.021	219.012	90.486	40.066	21.609	14.631	12.605
63.5	539.089	487.319	364.870	214.735	87.560	38.490	20.708	14.181	12.155
64.0	535.488	480.566	363.294	210.008	84.859	37.140	20.033	13.730	11.705
64.5	531.661	475.389	360.143	205.507	81.933	35.789	19.358	13.280	11.254
65.0	527.610	471.337	353.390	201.230	79.457	34.439	18.682	12.830	11.029
65.5	523.558	467.061	347.538	196.953	76.755	33.088	18.007	12.605	10.579
66.0	519.506	463.009	343.261	192.902	74.280	31.738	17.332	12.155	10.354
66.5	515.455	458.957	338.985	188.400	71.804	30.387	16.657	11.930	9.904
67.0	511.403	454.906	334.483	184.123	69.553	29.262	16.206	11.480	9.679
67.5	507.126	450.629	330.206	179.846	67.302	27.911	15.756	11.254	9.454
68.0	502.625	445.902	325.704	175.570	65.051	26.786	15.081	11.029	9.229
68.5	498.123	441.625	320.977	171.293	63.025	25.660	14.631	10.579	9.004
69.0	493.621	436.899	316.251	167.016	60.999	24.535	14.181	10.354	8.778
69.5	489.119	432.172	312.199	162.740	58.973	23.634	13.956	10.129	8.553
70.0	484.392	427.670	308.598	158.238	56.948	22.734	13.505	9.904	8.328
70.5	479.666	422.718	304.096	153.961	54.922	21.834	13.055	9.679	8.103
71.0	474.714	417.991	298.469	149.684	53.121	20.933	12.830	9.454	7.878
71.5	469.762	413.039	294.642	145.858	51.320	20.033	12.605	9.229	7.653
72.0	465.035	408.087	291.716	141.581	49.520	19.358	12.155	9.004	7.428
72.5	459.858	403.360	285.864	137.079	47.944	18.457	11.930	9.004	7.428
73.0	454.681	398.183	279.111	132.803	46.143	17.782	11.705	8.778	7.428
73.5	449.729	393.231	274.159	128.751	44.568	17.107	11.480	8.553	7.203
74.0	444.552	388.054	268.982	124.925	42.992	16.657	11.254	8.553	6.978
74.5	439.375	382.877	264.030	121.098	41.416	15.981	11.029	8.328	6.978
75.0	433.972	377.700	259.303	117.272	39.616	15.531	10.804	8.328	6.753
75.5	428.570	372.298	254.351	113.670	37.815	15.081	10.579	8.103	6.753
76.0	423.393	367.121	249.624	110.069	36.239	14.631	10.579	8.103	6.528
76.5	417.991	362.169	244.447	106.917	34.664	14.181	10.354	7.878	6.528
77.0	412.589	358.567	239.495	103.541	33.088	13.730	10.354	7.878	6.528
77.5	407.187	356.542	234.768	100.615	31.738	13.505	10.129	7.653	6.528
78.0	401.785	350.239	230.492	97.464	30.387	13.055	10.129	7.653	6.303
78.5	396.382	341.911	226.890	94.538	29.262	12.830	9.904	7.653	6.303
79.0	390.755	337.184	220.813	91.836	28.361	12.605	9.904	7.653	6.303
79.5	385.128	333.132	215.185	89.135	27.011	12.380	9.679	7.653	6.303
80.0	379.726	326.380	210.008	86.434	25.885	12.155	9.679	7.653	6.303
80.5	373.648	319.627	205.056	83.958	24.760	11.930	9.679	7.428	6.303
81.0	368.021	314.450	200.104	81.707	23.634	11.705	9.679	7.428	6.303
81.5	362.169	308.372	195.153	79.231	22.734	11.705	9.454	7.653	6.303
82.0	356.091	302.970	190.201	76.755	21.609	11.480	9.454	7.428	6.303
82.5	350.239	300.719	185.249	74.505	20.483	11.480	9.454	7.653	6.303

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83.0	344.162	295.542	180.522	72.479	19.358	11.254	9.454	7.653	6.528
83.5	338.084	286.539	176.470	70.228	18.232	11.254	9.454	7.653	6.528
84.0	332.232	279.111	173.994	67.977	17.332	11.029	9.454	7.653	6.753
84.5	325.929	273.259	167.692	65.951	16.432	11.029	9.454	7.878	6.978
85.0	320.077	267.631	161.839	63.925	15.531	11.029	9.679	7.878	7.203
85.5	313.775	262.454	157.112	61.900	14.856	11.029	9.679	8.103	7.428
86.0	307.697	257.052	152.611	59.874	14.181	11.029	9.904	8.328	7.878
86.5	302.070	251.650	148.334	57.848	13.730	11.029	9.904	8.553	8.328
87.0	295.767	245.347	144.057	55.822	13.280	11.029	10.129	9.004	8.778
87.5	289.915	239.945	140.006	53.796	12.830	11.029	10.579	9.229	9.229
88.0	284.063	234.543	135.954	51.996	12.605	11.254	10.804	9.904	9.679
88.5	278.211	228.916	132.353	50.195	12.380	11.254	11.254	10.354	10.354
89.0	272.583	223.739	129.426	48.394	12.380	11.930	11.930	11.029	11.029
89.5	266.506	218.562	124.925	47.044	14.406	15.081	13.956	12.605	12.380
90.0	251.875	205.507	112.095	36.464	5.627	9.679	9.904	11.029	13.280
90.5	246.023	200.780	109.393	37.590	10.129	17.107	16.657	16.657	20.933
91.0	240.621	196.503	108.268	43.217	16.206	25.210	26.110	25.210	32.188
91.5	235.669	193.352	110.069	51.095	25.210	36.464	38.040	37.140	46.143
92.0	231.617	192.451	115.696	62.575	35.789	49.520	52.446	51.320	61.900
92.5	229.366	194.927	124.925	76.080	46.819	62.125	67.527	66.626	77.206
93.0	229.816	201.005	137.530	89.811	58.073	73.829	81.707	82.158	91.836
93.5	234.093	210.684	151.935	103.541	69.778	84.859	95.213	97.014	106.242
94.0	242.871	223.289	167.467	117.046	81.257	95.888	108.043	111.194	120.648
94.5	254.576	237.920	183.898	130.552	92.962	107.143	119.973	124.925	134.603
95.0	268.757	253.451	200.330	144.282	104.892	118.172	131.677	137.980	147.208
95.5	284.513	270.107	216.986	158.238	116.821	129.651	142.707	150.135	158.913
96.0	300.719	286.764	234.093	172.193	128.751	141.131	153.736	161.839	169.943
96.5	317.826	303.871	250.975	186.149	140.906	152.836	164.765	173.094	181.872
97.0	335.383	321.428	268.307	200.330	153.061	164.315	176.020	184.123	193.127
97.5	352.715	339.660	285.864	214.510	165.216	176.020	187.049	195.153	204.156
98.0	370.947	358.567	304.096	229.366	177.596	187.725	198.304	206.407	214.960
98.5	389.855	377.475	322.553	244.222	189.975	199.204	209.333	217.661	225.765
99.0	408.987	397.058	341.461	259.078	202.130	210.684	220.588	228.466	237.019
99.5	429.245	417.316	360.818	274.159	214.735	222.388	232.067	239.720	248.499
100.0	449.504	438.249	381.076	289.465	226.890	234.093	243.322	250.975	259.528
100.5	470.887	460.308	401.785	304.996	239.270	245.798	254.801	262.229	270.783
101.0	493.621	483.492	423.618	320.977	251.875	257.277	266.056	273.709	281.587
101.5	517.255	506.901	445.677	337.634	264.255	268.757	277.535	284.738	293.066
102.0	542.015	531.661	468.636	354.066	276.860	280.461	288.790	295.993	304.546
102.5	567.450	557.546	492.496	370.947	289.465	292.166	300.269	307.697	316.026
103.0	594.911	584.782	517.481	388.279	301.845	303.871	311.749	319.177	327.055
103.5	623.273	613.594	543.141	406.286	314.450	315.575	323.228	330.656	338.309
104.0	652.534	643.080	569.701	424.744	327.280	327.055	334.708	341.911	349.339
104.5	684.272	673.693	596.937	443.426	340.110	338.760	345.737	353.390	360.818
105.0	716.910	705.655	625.749	462.334	353.165	350.689	357.217	364.645	372.298
105.5	751.123	739.194	655.235	481.691	365.995	362.619	368.696	376.124	383.102
106.0	786.687	774.758	685.397	501.949	379.051	374.774	379.951	387.379	394.132
106.5	824.052	811.447	716.460	522.658	392.556	386.479	391.205	398.633	405.161
107.0	863.443	848.812	748.647	543.816	406.061	398.408	402.460	409.438	416.190
107.5	903.959	887.302	781.961	564.974	419.792	410.113	413.939	420.692	427.220
108.0	946.051	928.044	816.174	587.033	433.522	422.268	425.194	431.947	438.249
108.5	989.943	970.360	851.063	609.542	447.478	434.197	436.673	443.426	449.278
109.0	1034.736	1014.028	886.627	632.726	461.883	446.127	448.153	454.456	460.083
109.5	1081.780	1058.595	923.317	656.361	476.289	458.282	459.407	465.485	471.112
110.0	1129.724	1103.613	960.907	680.220	490.920	470.437	470.887	476.514	482.367
110.5	1179.018	1150.657	999.622	704.530	505.551	482.817	482.592	487.994	493.396

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111.0	1230.339	1199.952	1039.013	729.740	520.857	495.647	494.296	499.698	504.650
111.5	1281.884	1250.147	1079.079	754.950	536.163	508.252	506.001	511.178	515.455
112.0	1335.681	1301.467	1120.270	780.835	551.919	521.082	517.931	522.433	526.934
112.5	1390.377	1352.562	1162.362	807.171	567.675	533.912	530.311	533.912	538.189
113.0	1446.650	1405.233	1205.354	834.181	583.882	547.192	542.465	545.617	549.668
113.5	1503.822	1459.930	1249.246	861.192	600.539	560.923	554.845	557.997	561.373
114.0	1562.120	1515.752	1293.814	889.103	617.195	574.653	567.225	569.926	572.853
114.5	1621.544	1572.475	1339.282	917.014	634.302	588.159	580.055	582.081	584.782
115.0	1681.868	1628.747	1386.326	945.601	651.409	602.114	593.111	593.786	596.262
115.5	1735.439	1686.370	1434.045	974.637	668.741	616.295	606.166	606.166	608.192
116.0	1798.464	1736.115	1482.439	1004.349	686.298	630.926	619.446	618.771	620.346
116.5	1861.264	1795.088	1531.733	1034.061	704.530	645.556	632.951	631.376	632.726
117.0	1925.190	1855.862	1581.703	1063.998	722.537	660.637	646.457	643.981	644.881
117.5	1990.916	1915.961	1632.573	1094.610	741.219	675.718	660.412	656.586	656.811
118.0	2056.192	1977.185	1682.093	1126.347	759.902	691.024	674.143	669.866	669.191
118.5	2124.394	2037.959	1727.786	1158.985	778.809	706.781	688.098	683.371	682.021
119.0	2191.696	2099.184	1778.882	1191.173	798.392	722.987	702.729	696.652	695.076
119.5	2257.647	2161.534	1831.778	1222.911	817.975	739.194	717.585	710.157	708.131
120.0	2327.424	2224.784	1885.349	1255.549	837.333	755.850	732.441	723.888	721.412
120.5	2392.700	2286.908	1938.920	1289.312	857.140	772.732	747.297	738.518	734.692
121.0	2460.227	2352.184	1992.266	1323.526	878.074	790.064	762.603	753.374	749.098
121.5	2527.754	2415.209	2044.937	1357.514	899.007	807.846	778.134	768.455	763.503
122.0	2595.281	2480.485	2098.959	1391.053	919.715	825.853	794.341	783.536	778.359
122.5	2662.808	2545.761	2152.080	1424.591	940.424	844.085	810.322	798.842	792.990
123.0	2732.585	2613.288	2205.876	1458.804	961.807	862.768	826.753	815.049	807.846
123.5	2802.363	2678.564	2259.898	1493.243	983.866	881.675	843.410	831.255	823.377
124.0	2874.392	2743.840	2313.919	1528.357	1005.925	901.033	860.292	847.462	839.583
124.5	2944.169	2811.367	2365.690	1562.796	1027.758	920.165	877.624	863.893	855.565
125.0	3013.947	2874.392	2419.711	1595.884	1049.592	939.973	895.631	880.325	871.321
125.5	3085.976	2941.919	2469.231	1628.072	1071.426	960.006	913.638	897.431	887.302
126.0	3160.255	3007.194	2516.500	1659.584	1093.709	980.264	931.645	914.763	903.284
126.5	3230.033	3067.969	2563.768	1687.945	1115.993	1000.522	949.877	932.095	919.940
127.0	3295.309	3124.241	2606.535	1714.056	1137.827	1021.006	968.785	949.202	937.272
127.5	3360.585	3173.761	2642.550	1737.690	1159.436	1041.939	988.142	966.534	954.379
128.0	3416.857	3218.779	2671.811	1759.524	1180.819	1063.097	1007.275	984.091	971.711
128.5	3466.377	3254.793	2698.822	1780.682	1202.203	1084.481	1026.633	1002.098	989.268
129.0	3506.893	3284.054	2719.080	1801.165	1223.136	1106.089	1046.216	1020.330	1006.825
129.5	3540.656	3304.312	2734.836	1816.697	1243.619	1127.473	1066.249	1038.112	1025.057
130.0	3565.416	3320.069	2746.091	1832.228	1263.652	1148.631	1086.281	1056.795	1043.514
130.5	3581.172	3331.323	2752.843	1845.508	1283.235	1170.015	1106.540	1075.702	1062.422
131.0	3590.176	3338.076	2757.345	1856.312	1302.367	1191.623	1126.572	1095.060	1081.330
131.5	3594.678	3338.076	2759.596	1865.991	1320.825	1212.782	1147.056	1114.418	1100.237
132.0	3592.427	3338.076	2759.596	1872.969	1338.607	1233.265	1167.089	1134.000	1119.370
132.5	3587.925	3331.323	2755.094	1879.947	1355.488	1253.073	1187.122	1153.808	1139.403
133.0	3581.172	3324.571	2752.843	1884.899	1372.370	1273.106	1207.605	1173.841	1159.661
133.5	3569.918	3317.818	2748.342	1890.301	1388.577	1292.688	1227.413	1194.324	1180.144
134.0	3558.664	3306.563	2739.338	1893.902	1404.333	1310.696	1247.445	1214.582	1200.402
134.5	3545.158	3295.309	2734.836	1898.179	1418.964	1328.928	1266.803	1234.390	1220.435
135.0	3531.653	3284.054	2725.833	1900.205	1433.144	1346.260	1286.161	1254.423	1240.243
135.5	3518.147	3270.549	2719.080	1902.906	1447.100	1363.592	1304.618	1274.006	1260.276
136.0	3502.391	3257.044	2710.076	1905.607	1460.830	1380.248	1322.850	1293.814	1280.759
136.5	3488.886	3243.538	2701.073	1906.057	1473.660	1396.455	1340.407	1312.721	1300.567
137.0	3470.879	3225.531	2694.320	1908.758	1486.265	1411.986	1357.514	1331.404	1319.474
137.5	3452.872	3207.524	2683.066	1910.784	1498.195	1427.292	1374.396	1349.636	1337.931
138.0	3432.613	3191.768	2674.062	1913.260	1509.900	1442.373	1390.152	1367.193	1355.939
138.5	3412.355	3173.761	2665.059	1915.061	1521.379	1456.779	1405.458	1383.625	1373.721

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139.0	3392.097	3155.753	2653.804	1915.511	1532.634	1470.959	1420.089	1399.831	1391.053
139.5	3371.839	3139.997	2644.801	1916.861	1543.438	1484.690	1434.945	1415.362	1407.709
140.0	3351.581	3121.990	2633.546	1917.762	1553.792	1497.970	1448.901	1432.019	1423.690
140.5	3331.323	3103.983	2624.542	1918.212	1564.146	1511.250	1462.631	1446.650	1438.997
141.0	3311.065	3088.227	2613.288	1918.662	1574.050	1524.305	1475.686	1460.605	1453.852
141.5	3290.807	3072.470	2599.783	1919.112	1583.504	1536.910	1488.291	1474.111	1468.708
142.0	3270.549	3056.714	2586.277	1919.788	1592.733	1548.840	1500.671	1487.166	1483.339
142.5	3248.040	3040.958	2572.772	1920.688	1601.511	1560.320	1512.601	1500.221	1497.520
143.0	3225.531	3025.202	2559.267	1920.238	1610.515	1571.799	1524.531	1513.051	1511.926
143.5	3205.273	3011.696	2545.761	1920.913	1619.293	1583.054	1535.785	1525.431	1525.881
144.0	3182.764	2995.940	2534.507	1921.363	1627.622	1594.083	1546.364	1537.586	1539.837
144.5	3160.255	2980.184	2521.001	1922.714	1635.500	1604.437	1556.718	1549.065	1554.017
145.0	3135.495	2962.177	2507.496	1923.164	1643.828	1614.791	1566.847	1560.545	1567.973
145.5	3112.986	2944.169	2493.991	1923.839	1651.706	1624.695	1576.526	1571.349	1581.478
146.0	3090.478	2926.162	2480.485	1922.939	1659.584	1635.049	1585.980	1582.153	1594.308
146.5	3065.718	2905.904	2466.980	1924.064	1667.237	1644.728	1595.434	1592.057	1606.463
147.0	3038.707	2887.897	2453.475	1923.839	1674.440	1654.182	1604.437	1601.736	1617.718
147.5	3011.696	2867.639	2439.969	1922.939	1681.643	1663.636	1613.216	1610.740	1628.522
148.0	2984.686	2847.381	2426.464	1922.038	1688.846	1672.864	1621.769	1619.293	1637.976
148.5	2957.675	2827.123	2415.209	1921.363	1695.824	1682.093	1630.548	1627.622	1646.754
149.0	2930.664	2806.865	2401.704	1920.238	1702.351	1691.097	1638.876	1635.950	1654.407
149.5	2903.653	2786.607	2390.450	1918.437	1706.403	1699.875	1647.429	1643.603	1660.710
150.0	2878.894	2766.349	2376.944	1917.987	1708.429	1708.204	1656.208	1651.481	1667.012
150.5	2851.883	2743.840	2365.690	1917.987	1712.255	1708.879	1664.311	1658.684	1672.639
151.0	2824.872	2721.331	2352.184	1916.861	1718.783	1716.307	1672.189	1666.112	1678.042
151.5	2800.112	2701.073	2340.930	1916.636	1724.635	1725.760	1680.292	1673.765	1683.219
152.0	2775.352	2678.564	2327.424	1915.736	1730.712	1733.188	1687.945	1681.193	1688.621
152.5	2750.593	2653.804	2313.919	1913.935	1736.340	1741.067	1692.897	1688.846	1694.248
153.0	2730.335	2631.295	2302.665	1913.485	1742.417	1748.269	1699.650	1695.599	1700.325
153.5	2707.826	2611.037	2289.159	1912.135	1747.369	1757.048	1706.853	1698.750	1706.403
154.0	2685.317	2588.528	2275.654	1911.234	1753.446	1764.251	1714.281	1706.178	1712.705
154.5	2665.059	2568.270	2264.399	1910.784	1758.624	1771.229	1717.432	1713.606	1710.679
155.0	2644.801	2548.012	2250.894	1909.659	1763.801	1777.981	1725.085	1720.358	1717.432
155.5	2629.044	2525.503	2240.540	1909.884	1769.428	1784.734	1732.513	1723.059	1723.960
156.0	2611.037	2507.496	2228.835	1909.884	1774.380	1791.937	1739.041	1730.037	1730.262
156.5	2593.030	2487.238	2217.131	1908.983	1779.332	1798.239	1746.694	1736.115	1737.690
157.0	2575.023	2466.980	2205.201	1907.858	1783.158	1804.542	1754.572	1742.867	1744.668
157.5	2554.765	2448.973	2193.721	1906.732	1788.786	1810.169	1761.550	1749.620	1750.295
158.0	2536.758	2428.715	2182.917	1905.832	1793.287	1816.021	1768.753	1757.048	1756.598
158.5	2516.500	2408.457	2171.888	1905.607	1797.789	1821.649	1776.631	1763.576	1763.801
159.0	2493.991	2388.199	2160.633	1904.031	1803.191	1827.051	1784.059	1770.103	1768.978
159.5	2471.482	2367.941	2149.154	1904.707	1807.693	1832.003	1791.262	1777.081	1776.856
160.0	2448.973	2349.933	2139.025	1904.707	1811.745	1836.730	1798.689	1783.834	1782.933
160.5	2426.464	2329.675	2128.896	1903.356	1816.697	1841.456	1806.568	1791.036	1792.162
161.0	2401.704	2311.668	2118.541	1904.481	1821.198	1845.958	1813.095	1797.114	1798.689
161.5	2379.195	2291.410	2108.412	1904.481	1825.250	1850.010	1819.623	1803.867	1805.217
162.0	2356.686	2271.152	2097.833	1904.707	1829.977	1854.512	1828.176	1810.394	1812.645
162.5	2334.177	2250.894	2087.254	1904.932	1834.254	1859.239	1833.803	1816.697	1818.497
163.0	2309.417	2231.987	2077.350	1905.607	1837.855	1862.840	1839.656	1822.549	1826.375
163.5	2284.657	2213.979	2066.771	1906.957	1842.357	1865.541	1846.633	1829.077	1832.003
164.0	2262.149	2194.397	2057.092	1906.732	1846.183	1868.917	1852.936	1835.379	1838.530
164.5	2240.090	2176.615	2047.188	1906.957	1850.235	1872.519	1858.788	1841.456	1844.608
165.0	2219.382	2158.833	2037.509	1907.858	1854.061	1875.445	1863.290	1847.309	1850.910
165.5	2197.548	2142.176	2026.255	1907.633	1858.563	1879.046	1869.142	1854.287	1857.888
166.0	2179.091	2126.870	2016.126	1908.083	1861.940	1881.297	1873.419	1861.039	1862.615
166.5	2159.508	2111.339	2006.897	1908.083	1864.641	1884.449	1877.696	1865.991	1868.467

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167.0	2141.050	2096.258	1997.894	1907.633	1868.017	1887.150	1881.747	1872.519	1874.319
167.5	2123.944	2080.276	1988.215	1907.633	1870.943	1888.275	1885.124	1878.596	1880.622
168.0	2107.737	2066.096	1979.436	1906.507	1875.220	1890.526	1888.050	1884.674	1885.124
168.5	2089.955	2050.339	1972.008	1906.507	1876.795	1892.777	1890.976	1889.175	1891.876
169.0	2073.073	2037.059	1963.905	1906.282	1880.397	1893.902	1893.677	1893.902	1897.054
169.5	2058.668	2022.879	1956.252	1906.282	1882.648	1895.253	1895.703	1899.530	1900.430
170.0	2042.236	2010.724	1949.499	1905.832	1886.024	1896.603	1897.054	1902.231	1906.282
170.5	2026.930	1998.344	1943.872	1906.507	1888.275	1897.054	1898.404	1905.607	1909.884
171.0	2016.126	1987.765	1936.894	1907.408	1890.076	1897.954	1898.629	1908.533	1912.135
171.5	2002.620	1976.510	1931.942	1906.507	1892.327	1899.079	1898.404	1910.784	1916.186
172.0	1990.241	1967.732	1927.216	1907.183	1893.677	1899.079	1898.404	1911.234	1917.312
172.5	1979.211	1958.278	1922.939	1906.957	1895.478	1900.205	1899.530	1912.585	1917.987
173.0	1968.632	1951.300	1918.887	1907.183	1897.504	1901.330	1898.629	1913.710	1918.662
173.5	1959.178	1942.747	1914.836	1907.633	1899.304	1900.430	1897.954	1912.135	1918.437
174.0	1952.200	1935.319	1911.234	1907.408	1899.980	1901.555	1896.603	1911.684	1916.186
174.5	1942.071	1928.341	1908.083	1907.633	1901.105	1901.780	1895.253	1910.109	1914.160
175.0	1932.843	1922.714	1905.607	1907.858	1901.330	1901.330	1894.352	1907.633	1911.459
175.5	1925.190	1916.861	1902.681	1907.183	1902.456	1901.330	1893.677	1906.282	1909.208
176.0	1919.788	1912.360	1899.755	1905.832	1902.906	1900.655	1892.552	1903.581	1904.481
176.5	1913.260	1908.083	1897.279	1905.832	1903.131	1900.880	1891.876	1901.105	1902.005
177.0	1908.758	1903.581	1894.803	1905.382	1903.806	1901.105	1890.301	1899.304	1898.854
177.5	1903.806	1899.530	1892.552	1904.481	1904.707	1900.655	1890.076	1897.054	1895.928
178.0	1901.555	1897.279	1891.426	1903.806	1904.031	1901.330	1889.400	1894.352	1894.352
178.5	1897.729	1895.028	1890.301	1903.131	1904.256	1901.780	1887.375	1892.552	1890.976
179.0	1895.253	1892.102	1888.725	1902.906	1904.481	1901.105	1887.600	1891.426	1891.201
179.5	1892.552	1892.102	1888.500	1902.231	1904.481	1901.780	1886.474	1891.201	1893.002
180.0	1894.578	1894.578	1894.578	1894.578	1894.578	1894.578	1894.578	1894.578	1894.578

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-8-L11-835-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	150.78	N.A.	1.70
0-30	321.05	N.A.	3.60
0-40	527.33	N.A.	6.00
0-60	950.31	N.A.	10.80
0-80	1267.83	N.A.	14.40
0-90	1364.23	N.A.	15.50
10-90	1325.27	N.A.	15.00
20-40	376.55	N.A.	4.30
20-50	593.02	N.A.	6.70
40-70	601.46	N.A.	6.80
60-80	317.53	N.A.	3.60
70-80	139.04	N.A.	1.60
80-90	96.40	N.A.	1.10
90-110	686.37	N.A.	7.80
90-120	1624.42	N.A.	18.40
90-130	3023.63	N.A.	34.30
90-150	5790.26	N.A.	65.70
90-180	7445.58	N.A.	84.50
110-180	6759.22	N.A.	76.70
0-180	8809.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.96
10-20	111.82
20-30	170.28
30-40	206.27
40-50	216.47
50-60	206.51
60-70	178.48
70-80	139.04
80-90	96.40
90-100	182.31
100-110	504.05
110-120	938.05
120-130	1399.21
130-140	1502.93
140-150	1263.7
150-160	919.81
160-170	552.74
170-180	182.78

IES INDOOR REPORT
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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	181	181	181	181	159	159	159	159	117	117	117	80	80	80	45	45	45	28
1	164	156	149	143	144	137	131	126	101	98	94	68	66	64	38	37	36	22
2	149	136	125	116	130	119	110	103	88	82	77	60	56	53	33	31	30	18
3	136	119	106	96	118	105	94	85	77	70	64	52	48	44	29	27	25	15
4	124	105	91	80	108	92	81	72	68	60	54	46	41	37	26	23	21	13
5	113	93	79	68	99	82	70	61	61	53	46	41	36	32	23	20	18	11
6	104	83	69	59	91	73	61	52	54	46	40	37	32	28	21	18	16	9
7	96	74	60	51	83	66	54	45	49	41	35	33	28	24	19	16	14	8
8	88	67	54	44	77	59	48	40	44	36	30	30	25	21	17	14	12	7
9	82	61	48	39	72	54	43	35	40	32	27	28	23	19	16	13	11	7
10	76	55	43	34	67	49	38	31	37	29	24	25	20	17	15	12	10	6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-8-L11-835-S-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

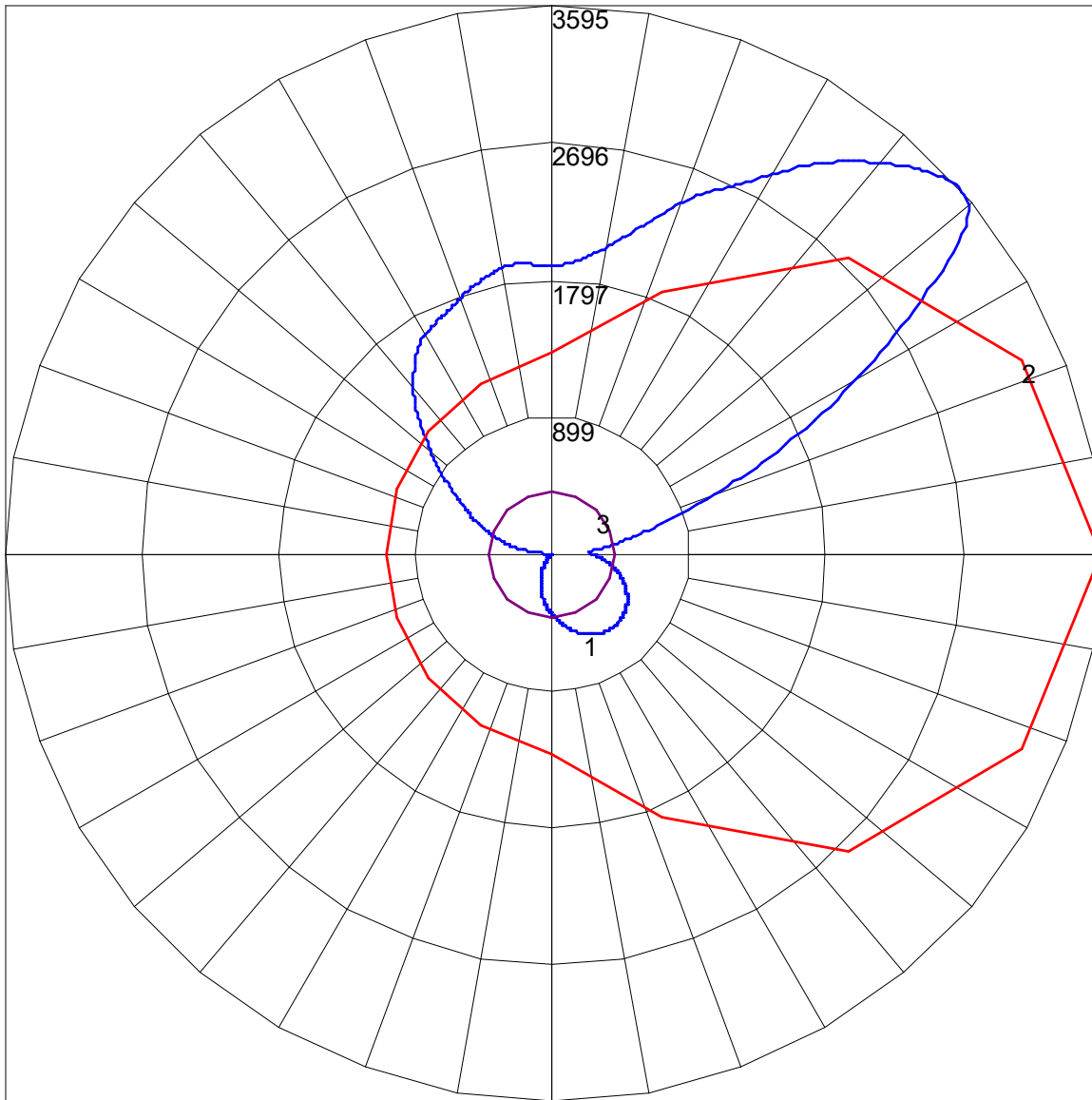
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	9.8	10.5	11.0	11.7	13.4	UGR Viewed Endwise				
	3H	12.8	13.4	14.0	14.6	16.3	5.5	5.5	5.5	5.5	5.6
	4H	14.3	14.8	15.5	16.0	17.7	5.5	5.5	5.5	5.5	7.1
	6H	15.8	16.3	17.0	17.5	19.2	5.5	5.5	5.5	5.6	7.4
	8H	16.5	17.0	17.8	18.2	19.9	5.5	5.5	5.5	5.7	7.4
	12H	17.4	17.9	18.7	19.1	20.8	5.5	5.5	5.5	5.8	7.5
4H	2H	10.2	10.7	11.4	11.9	13.6	5.5	5.5	5.5	5.9	7.6
	3H	13.4	13.9	14.7	15.1	16.8	5.7	6.2	6.9	7.4	9.1
	4H	15.1	15.5	16.4	16.7	18.5	6.2	6.6	7.4	7.8	9.6
	6H	16.9	17.3	18.1	18.5	20.2	6.6	6.9	7.8	8.2	9.9
	8H	17.8	18.1	19.0	19.4	21.1	6.7	7.0	7.9	8.3	10.0
	12H	18.8	19.1	20.1	20.3	22.1	6.8	7.1	8.1	8.3	10.1
8H	4H	15.3	15.6	16.5	16.9	18.6	7.9	8.2	9.1	9.5	11.2
	6H	17.3	17.6	18.6	18.9	20.6	8.6	8.9	9.9	10.2	11.9
	8H	18.5	18.7	19.8	20.0	21.7	8.9	9.1	10.1	10.4	12.1
	12H	19.8	20.0	21.0	21.2	23.0	9.1	9.3	10.3	10.5	12.3
12H	4H	15.3	15.6	16.5	16.8	18.6	8.4	8.7	9.7	10.0	11.7
	6H	17.4	17.6	18.6	18.9	20.6	9.4	9.6	10.7	10.9	12.7
	8H	18.6	18.8	19.9	20.0	21.8	9.8	10.1	11.1	11.3	13.1

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 3594.678 Located At Horizontal Angle = 0, Vertical Angle = 131.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (131.5) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (0)