

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-835U-L38-835D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-3-00-L38-835U-L38-835D-DMA-DIM-UNV_
[LUMINAIRE] 3' wall mounted fixture with both up and down lighting
[MORE] compartments
[OTHER] This test was performed using the calibrated photodetector method
[MORE] of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7634
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	65.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	2.75 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21019	19797	18874
55	20895	18918	17236
65	20930	18233	15290
75	21294	17782	12435
85	22384	18130	8239

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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	1142.554	1142.554	1142.554	1142.554	1142.554	1142.554	1142.554	1142.554	1142.554
0.5	1144.160	1146.067	1143.943	1148.295	1140.507	1146.432	1138.736	1138.676	1138.784
1.0	1147.275	1148.785	1148.142	1149.226	1139.804	1144.722	1135.469	1135.408	1135.593
1.5	1151.398	1152.434	1149.379	1151.715	1139.804	1141.531	1133.758	1131.438	1130.141
2.0	1154.895	1156.938	1152.173	1151.944	1138.949	1139.118	1130.643	1128.246	1126.950
2.5	1159.949	1160.038	1155.899	1152.952	1138.170	1137.560	1127.528	1125.910	1123.911
3.0	1163.293	1164.694	1158.845	1153.181	1137.392	1136.002	1125.191	1121.237	1119.940
3.5	1167.721	1168.801	1161.013	1155.822	1137.392	1132.811	1121.297	1118.045	1117.604
4.0	1173.554	1172.908	1164.739	1156.051	1135.758	1129.696	1119.740	1114.151	1112.152
4.5	1176.196	1176.313	1167.685	1155.577	1134.979	1128.917	1115.845	1110.257	1107.403
5.0	1177.661	1180.572	1170.235	1158.143	1133.421	1125.023	1111.173	1106.287	1102.806
5.5	1183.097	1184.053	1171.074	1158.448	1131.085	1121.129	1108.836	1102.393	1100.470
6.0	1186.746	1186.831	1173.318	1157.974	1129.451	1120.274	1105.721	1099.201	1095.720
6.5	1189.693	1192.098	1175.638	1157.577	1127.969	1117.235	1101.674	1093.673	1091.124
7.0	1192.640	1195.426	1177.180	1157.729	1127.114	1114.745	1097.780	1088.924	1085.596
7.5	1195.647	1198.204	1178.798	1157.408	1123.144	1110.851	1093.107	1085.030	1080.144
8.0	1201.432	1200.203	1180.797	1155.377	1120.807	1106.957	1089.213	1080.281	1074.692
8.5	1206.558	1203.134	1182.796	1156.537	1120.029	1104.621	1085.243	1075.608	1069.317
9.0	1213.564	1206.217	1184.567	1155.285	1116.135	1100.650	1080.493	1069.301	1063.865
9.5	1217.029	1208.903	1185.635	1155.666	1113.722	1095.978	1075.820	1064.552	1062.307
10.0	1220.891	1213.070	1186.626	1154.566	1111.385	1092.786	1071.926	1059.879	1053.740
10.5	1224.676	1215.527	1188.397	1153.390	1107.491	1088.968	1067.177	1054.351	1049.923
11.0	1226.981	1217.282	1189.465	1151.511	1105.857	1084.998	1061.649	1050.457	1044.471
11.5	1229.056	1220.044	1189.754	1149.632	1101.184	1080.325	1057.053	1044.150	1037.462
12.0	1230.353	1222.027	1190.822	1149.311	1098.069	1077.912	1052.303	1038.698	1031.307
12.5	1234.841	1225.568	1191.187	1147.432	1095.656	1071.605	1046.852	1033.246	1025.855
13.0	1237.375	1227.475	1191.705	1145.553	1092.541	1067.711	1041.324	1026.939	1018.220
13.5	1239.358	1230.008	1192.223	1144.453	1087.089	1063.038	1036.574	1020.633	1013.699
14.0	1243.128	1231.610	1192.817	1142.651	1084.677	1056.731	1029.565	1014.402	1006.919
14.5	1245.737	1233.288	1191.701	1139.917	1080.783	1052.837	1024.037	1008.171	999.986
15.0	1245.781	1234.111	1192.066	1138.115	1075.254	1048.088	1018.585	1001.941	993.053
15.5	1247.399	1235.010	1191.958	1134.602	1070.582	1043.339	1012.278	994.931	989.159
16.0	1248.086	1236.689	1191.071	1131.715	1066.611	1037.887	1007.529	988.701	979.736
16.5	1251.442	1238.367	1192.520	1130.692	1062.717	1032.435	1001.299	983.249	975.064
17.0	1255.119	1237.708	1192.412	1127.179	1058.823	1026.129	995.771	976.164	970.467
17.5	1255.698	1240.242	1191.448	1122.811	1053.295	1022.158	988.685	971.414	962.602
18.0	1257.910	1239.583	1190.485	1121.009	1047.843	1014.294	981.676	964.405	957.151
18.5	1260.901	1240.559	1189.293	1117.649	1042.315	1009.621	978.484	960.511	950.065
19.0	1260.150	1241.535	1189.032	1115.220	1037.642	1003.314	972.253	953.501	943.056
19.5	1263.675	1241.655	1187.061	1112.088	1032.114	998.565	965.168	946.492	935.191
20.0	1265.413	1241.149	1186.800	1107.949	1027.441	992.334	962.052	939.483	928.182
20.5	1265.915	1242.125	1184.126	1104.589	1022.692	986.027	954.967	932.397	920.317
21.0	1266.341	1241.543	1183.087	1099.977	1015.683	979.797	947.957	925.388	913.308
21.5	1267.621	1241.892	1181.192	1097.624	1010.934	976.605	941.727	917.599	905.520
22.0	1269.284	1241.615	1179.373	1094.569	1004.703	968.817	934.641	910.590	897.655
22.5	1270.243	1241.338	1177.478	1090.583	998.396	963.213	927.555	903.581	890.646
23.0	1269.569	1241.764	1175.660	1086.520	992.868	955.424	920.546	895.792	882.781
23.5	1269.749	1240.937	1174.544	1080.900	985.859	952.309	913.460	888.004	874.993
24.0	1270.633	1240.813	1171.946	1077.921	981.186	946.002	906.375	880.919	866.426
24.5	1271.135	1240.536	1170.128	1073.384	974.100	938.993	899.365	873.207	859.417
25.0	1270.079	1240.335	1166.752	1070.101	971.764	931.831	892.280	865.342	851.552
25.5	1268.244	1238.577	1164.933	1066.114	966.236	924.822	885.270	857.554	842.985
26.0	1268.746	1238.147	1162.336	1059.791	960.784	917.736	877.406	850.545	835.900
26.5	1267.767	1236.160	1159.815	1054.950	953.698	910.727	870.320	842.756	827.256

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27.0	1266.008	1234.952	1158.149	1050.963	946.613	903.565	862.532	834.968	819.468
27.5	1265.960	1234.522	1153.444	1046.977	940.306	896.555	855.446	827.104	811.604
28.0	1266.462	1232.535	1150.373	1039.799	933.296	888.691	848.361	819.315	803.036
28.5	1264.399	1230.548	1148.004	1036.515	927.066	881.681	840.572	811.527	795.172
29.0	1262.717	1230.119	1145.636	1030.192	919.278	874.596	832.784	802.960	787.384
29.5	1262.364	1226.574	1142.641	1023.717	912.192	866.807	824.920	795.172	779.206
30.0	1261.766	1224.434	1139.494	1019.654	905.106	858.867	817.910	787.308	771.110
30.5	1259.778	1222.676	1136.346	1014.110	898.097	851.857	810.046	779.441	763.320
31.0	1259.502	1221.468	1133.275	1008.413	891.087	843.993	802.258	771.575	755.222
31.5	1257.819	1220.107	1128.570	1005.908	884.002	836.205	794.469	763.865	747.201
32.0	1255.206	1218.120	1126.278	999.433	876.214	829.119	786.605	755.842	739.490
32.5	1255.708	1215.354	1122.275	996.149	869.128	821.254	778.739	748.053	731.315
33.0	1251.461	1214.222	1118.976	990.605	862.119	813.466	770.873	739.877	723.138
33.5	1252.191	1210.601	1114.897	984.206	854.254	805.602	763.085	732.011	715.271
34.0	1251.136	1207.911	1110.039	978.586	846.466	797.814	755.220	724.301	707.095
34.5	1248.675	1205.145	1105.182	972.110	838.601	790.728	747.354	716.279	699.151
35.0	1245.756	1202.379	1101.958	965.711	830.813	782.706	739.644	708.413	691.441
35.5	1243.922	1200.468	1098.582	960.091	823.804	774.842	731.933	700.469	683.341
36.0	1240.987	1196.145	1093.877	953.692	816.016	766.975	724.067	692.681	675.243
36.5	1239.305	1193.379	1090.577	947.292	807.449	759.111	715.891	685.048	667.221
37.0	1236.616	1191.468	1084.864	940.817	799.584	751.479	708.259	677.028	659.122
37.5	1234.231	1187.220	1079.931	934.418	791.796	743.380	700.471	668.928	651.491
38.0	1233.251	1183.676	1076.783	928.019	784.008	735.514	692.527	661.296	643.237
38.5	1228.378	1180.986	1070.368	921.619	776.065	727.492	684.738	653.354	635.059
39.0	1225.993	1179.075	1066.213	914.441	767.966	719.784	676.794	645.565	627.115
39.5	1222.601	1174.752	1066.807	907.966	760.099	711.918	669.162	637.621	619.249
40.0	1221.698	1172.062	1062.026	901.567	752.000	703.818	661.453	629.835	611.617
40.5	1216.977	1169.220	1057.245	894.389	743.902	695.953	653.431	622.045	603.751
41.0	1213.432	1165.125	1052.311	887.913	736.035	688.087	645.643	614.181	595.732
41.5	1209.490	1161.580	1047.530	880.888	727.780	679.911	637.699	606.548	588.020
42.0	1208.511	1158.738	1041.817	874.565	719.758	672.433	629.913	598.606	580.311
42.5	1205.271	1155.269	1036.959	868.242	711.658	664.491	622.047	590.662	572.677
43.0	1201.252	1149.388	1031.949	862.072	703.560	656.469	614.258	583.185	564.581
43.5	1199.342	1146.622	1027.168	855.047	695.071	648.447	606.237	575.165	557.025
44.0	1195.247	1143.077	1021.608	848.021	687.127	640.583	598.215	567.299	549.626
44.5	1192.007	1139.609	1015.819	840.919	678.872	632.794	590.350	559.590	541.917
45.0	1189.623	1136.843	1011.038	834.520	670.772	624.540	582.562	551.646	534.363
45.5	1184.520	1131.817	1005.401	827.498	662.674	616.595	574.462	544.014	526.420
46.0	1184.167	1128.348	999.765	820.554	654.418	608.573	566.674	536.303	518.788
46.5	1179.446	1126.361	994.908	813.530	646.239	600.631	558.652	528.439	511.467
47.0	1177.688	1125.153	989.271	806.352	637.752	592.687	550.786	520.883	504.070
47.5	1175.074	1121.913	983.559	799.560	629.340	584.587	542.922	513.096	496.204
48.0	1171.911	1117.361	978.151	792.768	621.007	576.255	535.210	505.697	488.571
48.5	1166.808	1113.266	972.286	785.899	612.829	568.155	527.189	497.988	481.017
49.0	1163.645	1108.942	966.726	778.796	604.653	560.134	519.323	490.512	473.306
49.5	1160.558	1104.619	961.013	771.694	596.398	552.267	511.613	482.959	465.985
50.0	1160.984	1101.227	955.300	764.748	588.064	544.247	503.904	475.404	458.275
50.5	1155.407	1096.903	949.740	757.572	579.809	535.992	495.960	468.238	450.800
51.0	1154.352	1092.732	944.180	750.627	571.631	528.048	488.250	460.607	443.247
51.5	1150.486	1088.485	937.689	743.448	563.454	519.870	480.384	453.052	435.926
52.0	1146.620	1083.382	931.900	735.960	555.120	512.004	472.829	445.655	428.761
52.5	1143.304	1079.135	926.340	728.938	546.943	504.062	465.121	438.256	421.284
53.0	1139.209	1074.735	919.925	721.604	538.687	495.962	457.332	430.857	413.730
53.5	1135.114	1070.564	914.134	714.350	530.665	487.784	449.544	423.536	406.177
54.0	1131.325	1066.164	908.110	706.938	522.333	479.918	441.834	415.982	399.477
54.5	1127.230	1061.367	901.850	699.448	514.312	472.130	434.203	408.740	392.082

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CANDELA TABULATION - (Cont.)

55.0	1123.288	1056.967	895.904	692.194	506.134	464.032	426.493	401.264	384.603
55.5	1119.269	1051.865	890.033	684.627	498.034	455.856	418.862	393.865	377.438
56.0	1115.327	1047.617	883.931	677.295	489.779	447.988	411.306	386.778	369.885
56.5	1111.538	1042.515	877.593	669.649	481.600	439.968	403.441	379.145	362.954
57.0	1107.519	1038.344	871.337	662.082	473.346	432.100	396.119	372.137	356.099
57.5	1102.722	1033.318	865.308	654.516	465.244	423.926	388.644	364.583	348.546
58.0	1098.474	1028.139	859.128	646.715	456.835	415.980	380.933	357.496	341.303
58.5	1094.685	1023.113	852.796	639.149	448.579	408.114	373.535	350.253	333.982
59.0	1090.666	1018.239	846.226	631.348	440.168	400.172	366.136	342.932	327.050
59.5	1085.945	1012.984	840.119	623.549	431.679	392.150	358.815	335.844	319.963
60.0	1080.843	1007.882	833.552	615.983	423.345	384.052	351.494	328.679	312.798
60.5	1076.198	1002.856	827.450	608.417	415.090	376.108	344.019	321.592	305.633
61.0	1072.180	997.750	821.114	601.006	406.912	368.086	336.542	314.427	298.545
61.5	1067.306	992.648	814.778	593.362	398.579	360.298	329.065	307.262	291.380
62.0	1061.654	987.234	808.131	585.561	390.400	352.278	321.900	300.098	284.527
62.5	1056.856	981.895	801.870	577.917	381.988	344.411	314.424	292.855	277.284
63.0	1052.059	976.789	795.615	570.274	373.889	336.312	306.949	285.768	270.352
63.5	1047.262	971.141	789.280	562.628	365.633	328.290	299.626	278.757	263.187
64.0	1042.541	965.650	782.632	554.985	357.378	320.657	292.227	271.514	256.491
64.5	1036.965	960.236	776.376	547.341	349.202	312.713	284.673	264.427	250.025
65.0	1031.624	954.822	769.497	539.386	340.946	304.925	277.118	257.417	242.782
65.5	1026.208	949.096	763.160	531.509	332.613	296.981	269.875	250.330	235.928
66.0	1020.944	943.213	756.746	523.867	324.511	289.039	262.321	243.398	229.230
66.5	1015.987	937.567	749.946	516.145	316.413	281.095	255.079	236.233	222.532
67.0	1010.411	931.918	743.609	508.423	308.312	273.307	247.990	229.380	216.068
67.5	1004.993	926.269	736.806	500.468	300.211	265.674	240.747	222.448	209.292
68.0	999.650	920.391	730.162	492.593	291.723	258.120	233.428	215.595	202.361
68.5	993.996	914.508	723.594	484.793	283.545	250.176	226.107	208.741	195.507
69.0	989.046	908.706	716.713	477.151	275.524	242.621	218.864	201.887	189.199
69.5	983.470	903.059	710.300	469.585	267.502	234.833	212.009	195.189	182.657
70.0	978.204	897.174	703.422	462.019	259.402	227.278	204.923	188.492	176.113
70.5	972.782	891.217	696.775	454.376	251.382	219.570	197.914	181.638	169.339
71.0	967.517	885.334	690.051	446.503	243.280	212.093	190.904	175.174	162.797
71.5	962.172	879.451	683.019	438.939	235.648	204.616	184.052	168.710	156.333
72.0	956.370	873.185	676.450	431.607	227.702	197.140	177.197	162.245	150.412
72.5	950.869	867.457	669.727	424.121	219.215	189.741	170.421	156.015	143.792
73.0	945.143	861.421	663.159	416.866	211.581	182.498	163.801	149.473	137.561
73.5	939.565	855.230	656.516	409.379	203.716	175.488	157.103	143.086	131.175
74.0	934.066	849.271	649.639	401.894	196.004	168.401	150.484	137.010	125.102
74.5	928.106	843.007	642.992	394.487	188.528	161.392	144.019	130.857	119.417
75.0	922.452	837.048	636.041	387.309	180.973	154.382	137.633	124.784	113.264
75.5	916.646	830.857	629.398	379.826	173.573	147.529	131.245	118.553	107.421
76.0	910.763	824.899	623.064	372.497	166.174	140.831	124.782	112.712	101.736
76.5	904.872	818.632	616.268	365.551	158.775	134.211	118.396	106.638	96.130
77.0	898.911	812.754	609.625	358.146	151.608	127.591	112.475	100.952	90.910
77.5	892.949	806.566	602.985	351.279	144.288	121.049	106.324	95.189	85.458
78.0	887.144	800.610	596.574	344.262	137.434	114.507	100.327	89.659	80.162
78.5	880.870	794.425	590.240	337.629	130.502	108.120	94.408	84.206	74.866
79.0	874.989	788.083	583.755	330.613	123.803	101.968	88.567	78.754	69.493
79.5	869.027	782.129	577.423	323.828	117.027	95.893	82.880	73.302	64.586
80.0	862.915	776.096	571.017	317.124	110.328	89.972	77.351	68.162	59.602
80.5	856.800	769.991	564.608	310.804	103.864	84.053	71.899	63.022	54.773
81.0	851.073	764.115	558.667	304.486	97.631	78.290	66.603	58.038	49.788
81.5	845.190	757.773	552.495	298.170	91.557	72.759	61.383	53.131	44.960
82.0	839.231	751.898	546.553	291.853	85.560	67.307	56.167	48.302	40.444
82.5	833.889	746.568	540.693	285.769	79.563	62.089	51.336	43.861	36.157

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CANDELA TABULATION - (Cont.)

83.0	828.089	740.847	534.677	280.072	73.799	56.793	46.508	39.344	31.720
83.5	822.598	735.049	528.816	274.453	68.270	51.651	41.913	34.905	27.436
84.0	817.261	729.564	523.267	268.839	62.896	46.745	37.396	30.621	23.229
84.5	811.767	723.924	517.642	263.224	57.600	41.994	32.800	26.338	19.337
85.0	806.585	718.207	512.095	257.920	52.460	37.399	28.439	22.366	15.830
85.5	801.480	712.953	506.313	252.616	47.397	32.804	24.232	18.550	12.715
86.0	796.379	707.929	500.765	247.546	42.491	28.364	20.182	15.123	10.456
86.5	791.656	703.362	495.760	242.475	37.740	24.079	16.288	12.473	8.897
87.0	787.315	700.173	490.825	237.793	33.223	19.874	12.861	10.370	7.885
87.5	784.194	697.748	487.118	232.956	28.706	15.822	10.445	9.045	7.260
88.0	782.683	696.623	484.475	228.196	24.111	11.850	8.732	8.110	6.945
88.5	781.546	695.801	482.823	224.044	19.516	8.579	7.796	7.409	6.557
89.0	780.871	695.595	482.401	221.192	14.841	7.022	7.250	7.174	6.478
89.5	780.735	695.465	482.054	220.247	10.866	6.475	7.017	6.940	6.400
90.0	780.824	695.411	482.094	220.302	9.294	6.319	6.937	6.939	6.476
90.5	780.224	695.593	482.139	220.744	11.040	6.317	6.936	6.937	6.397
91.0	780.550	696.162	482.721	222.818	14.853	6.392	6.858	7.014	6.397
91.5	780.722	697.197	484.005	226.450	19.429	7.613	6.934	6.936	6.319
92.0	781.671	698.854	486.920	230.785	23.854	9.823	7.163	6.858	6.472
92.5	782.697	701.673	490.923	235.120	28.124	13.408	7.772	7.087	6.624
93.0	784.811	705.197	495.701	240.148	32.394	17.603	9.297	7.392	7.158
93.5	787.548	709.649	500.791	244.636	36.818	21.799	11.891	8.229	8.379
94.0	791.607	714.723	506.030	249.737	41.471	26.070	15.399	9.907	10.743
94.5	796.520	719.876	510.960	254.762	46.200	30.188	19.442	12.579	14.023
95.0	801.665	725.411	516.739	259.784	51.082	34.688	23.560	15.781	17.683
95.5	806.810	731.023	522.285	265.037	56.116	39.267	27.831	19.671	21.880
96.0	812.188	736.248	527.751	270.442	61.303	43.842	32.410	23.868	25.999
96.5	817.409	741.627	533.374	276.078	66.641	48.647	36.910	28.062	30.423
97.0	822.707	747.086	538.996	281.790	72.133	53.453	41.563	32.486	34.924
97.5	828.159	752.692	544.694	287.499	77.856	58.564	46.292	37.141	39.348
98.0	833.452	758.300	550.396	293.590	83.499	63.751	51.022	41.641	43.847
98.5	839.055	764.060	556.401	299.759	89.527	69.090	55.978	46.369	48.730
99.0	844.580	769.898	562.406	305.849	95.781	74.811	61.091	51.174	53.612
99.5	850.107	775.581	568.486	312.247	102.035	80.456	66.352	56.210	58.724
100.0	855.630	781.417	574.720	318.718	108.442	86.406	71.615	61.245	63.605
100.5	861.156	787.328	580.875	325.190	115.002	92.355	77.107	66.279	68.791
101.0	866.987	793.087	587.185	331.891	121.716	98.305	82.830	71.466	73.902
101.5	872.358	798.841	593.414	338.517	128.503	104.714	88.475	76.729	79.318
102.0	878.187	804.833	599.950	345.294	135.445	110.661	94.348	82.145	84.888
102.5	883.787	810.591	606.256	351.994	142.386	117.375	100.222	87.713	90.380
103.0	889.544	816.500	612.638	358.771	149.634	125.308	106.248	93.282	96.025
103.5	895.294	822.335	619.096	365.700	156.957	131.868	112.350	99.003	101.593
104.0	901.053	828.167	625.632	372.783	164.127	137.435	118.452	104.802	107.543
104.5	906.648	834.309	632.087	379.711	171.450	144.454	124.860	110.750	113.493
105.0	912.556	840.066	638.468	386.640	179.078	151.166	131.192	116.777	119.519
105.5	917.619	845.976	645.077	393.723	186.631	158.260	137.598	122.803	125.545
106.0	923.446	851.885	651.458	400.880	194.258	166.193	144.160	128.906	131.725
106.5	928.893	857.565	657.838	408.115	202.116	174.431	150.796	135.086	137.826
107.0	934.569	863.398	664.294	415.120	209.820	180.457	157.356	141.415	144.463
107.5	940.245	869.306	670.674	422.355	217.677	186.941	164.221	147.670	150.642
108.0	945.691	875.062	677.287	429.742	225.535	194.264	170.934	154.385	157.126
108.5	951.058	880.817	683.819	437.129	233.544	201.741	177.723	160.790	163.535
109.0	956.811	886.344	690.277	444.439	241.477	209.138	184.740	167.504	170.095
109.5	962.102	892.487	696.732	451.673	249.410	216.615	191.683	173.988	176.578
110.0	967.624	897.858	703.038	459.213	257.496	224.167	198.548	180.701	183.369
110.5	972.993	903.617	709.111	466.600	265.582	231.719	205.642	187.413	190.005

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CANDELA TABULATION - (Cont.)

111.0	978.439	908.991	715.490	473.988	273.743	239.348	212.736	194.204	196.794
111.5	983.735	914.594	721.949	481.528	281.905	246.976	219.754	201.069	203.278
112.0	988.798	920.200	728.250	488.990	290.067	254.680	227.000	207.934	209.836
112.5	994.243	925.728	734.708	496.606	298.459	262.537	234.323	214.723	216.550
113.0	999.150	931.257	741.090	504.068	306.545	270.394	241.494	221.512	223.415
113.5	1004.521	936.709	747.391	511.837	314.707	278.328	248.893	228.529	230.433
114.0	1009.658	941.927	753.693	519.300	323.098	286.109	256.446	235.471	237.298
114.5	1014.721	947.301	759.997	526.839	331.183	294.118	265.445	242.642	244.163
115.0	1019.479	952.755	766.301	534.455	339.423	302.053	275.056	249.736	251.183
115.5	1024.315	958.129	772.527	541.994	347.737	310.138	281.921	256.678	257.971
116.0	1029.529	963.120	778.909	549.533	356.052	318.071	286.652	263.772	265.370
116.5	1034.213	968.497	784.903	557.073	364.214	326.004	293.212	270.866	272.312
117.0	1039.427	973.873	791.361	564.688	372.530	334.242	301.910	278.112	279.560
117.5	1044.034	978.786	797.433	572.151	380.997	342.101	311.673	285.054	286.423
118.0	1048.640	984.082	803.582	579.768	389.082	350.339	319.452	292.378	293.595
118.5	1053.013	989.001	810.039	587.228	397.473	358.426	324.795	299.318	300.689
119.0	1057.697	993.763	816.037	594.845	405.789	366.359	330.745	306.795	308.014
119.5	1062.382	999.288	822.186	602.308	414.103	374.216	338.067	313.965	314.877
120.0	1066.833	1004.284	828.259	609.694	422.572	382.225	345.543	321.288	322.507
120.5	1071.361	1009.124	834.333	616.928	430.810	390.388	353.094	328.536	329.524
121.0	1075.890	1013.886	840.484	624.466	438.819	398.321	360.570	335.935	336.696
121.5	1080.496	1018.882	846.405	631.775	447.210	406.178	368.045	344.707	343.866
122.0	1084.262	1023.722	852.480	639.315	455.524	414.113	375.827	354.701	351.189
122.5	1088.947	1027.644	858.323	646.625	463.686	421.970	383.303	363.243	358.588
123.0	1093.553	1032.640	864.320	653.933	471.926	430.057	390.932	368.889	365.911
123.5	1098.160	1037.324	870.397	661.167	480.240	437.913	398.560	375.678	373.463
124.0	1102.003	1041.480	876.469	668.401	488.326	445.923	406.266	384.528	383.609
124.5	1106.610	1046.242	882.310	675.787	496.642	454.010	413.894	392.003	396.807
125.0	1110.609	1051.160	888.387	683.095	504.727	461.714	421.674	397.038	405.272
125.5	1114.375	1055.237	894.382	690.407	513.042	469.723	429.304	402.379	409.241
126.0	1118.904	1060.078	900.000	697.410	521.127	477.656	437.008	409.471	410.614
126.5	1122.670	1064.311	905.992	704.568	529.213	485.438	444.559	416.795	417.021
127.0	1126.669	1069.151	912.374	711.725	537.453	493.524	452.187	424.196	424.344
127.5	1130.591	1073.228	917.837	718.654	545.615	501.381	459.893	431.519	431.744
128.0	1134.357	1077.384	923.145	725.886	553.624	509.466	467.675	438.918	439.296
128.5	1138.278	1082.224	929.448	733.043	561.940	517.554	475.073	446.395	446.695
129.0	1142.200	1086.379	934.912	740.048	570.178	525.410	483.083	454.021	454.247
129.5	1142.152	1090.456	940.375	747.129	578.340	533.343	490.940	461.422	461.798
130.0	1146.151	1094.534	946.679	754.210	586.425	541.276	498.721	468.821	469.352
130.5	1148.547	1098.611	952.064	761.367	594.513	549.363	506.503	476.220	476.980
131.0	1152.313	1101.848	957.527	768.294	602.751	557.296	514.053	483.697	484.455
131.5	1153.262	1105.396	962.991	775.299	611.065	565.153	521.758	491.325	492.008
132.0	1159.238	1108.711	968.454	782.228	619.227	573.010	529.692	498.876	499.789
132.5	1163.237	1111.947	973.917	789.156	627.543	581.021	537.396	506.428	507.337
133.0	1164.949	1114.733	979.380	795.932	635.781	588.878	545.405	513.829	514.893
133.5	1168.714	1117.285	984.844	802.936	643.792	596.888	553.109	522.372	522.445
134.0	1174.162	1122.203	990.229	810.018	651.878	604.898	561.044	529.847	530.227
134.5	1175.795	1125.517	994.929	816.945	660.039	612.678	568.900	537.477	537.701
135.0	1179.639	1130.435	1000.393	824.028	668.201	620.840	576.603	545.181	545.713
135.5	1184.401	1132.909	1005.856	830.192	676.365	628.849	584.539	552.963	553.111
136.0	1185.956	1136.302	1011.085	837.275	684.450	636.860	592.243	560.360	560.893
136.5	1191.326	1139.694	1015.942	844.124	692.460	644.563	600.024	568.066	568.289
137.0	1191.433	1143.694	1020.564	851.129	700.623	652.648	607.881	575.619	576.379
137.5	1195.884	1147.849	1026.105	857.449	708.558	660.739	615.432	583.168	584.007
138.0	1197.517	1150.401	1029.046	864.220	716.562	668.514	623.132	590.718	591.164
138.5	1202.202	1155.319	1033.062	870.462	724.268	676.371	630.992	598.730	599.333

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CANDELA TABULATION - (Cont.)

139.0	1204.831	1157.186	1038.525	877.389	732.201	683.999	638.696	606.282	607.115
139.5	1206.994	1160.422	1042.385	883.475	740.213	692.010	646.402	613.988	614.820
140.0	1209.390	1163.893	1047.163	889.639	748.070	699.638	653.877	621.539	622.450
140.5	1213.389	1167.363	1049.575	896.489	756.005	707.572	661.812	629.474	630.690
141.0	1215.708	1170.678	1053.513	902.575	764.092	715.278	669.668	637.560	638.775
141.5	1218.866	1171.860	1058.976	909.424	772.101	723.059	677.372	645.493	646.632
142.0	1220.655	1176.093	1062.836	915.588	779.729	730.839	685.075	653.426	654.565
142.5	1223.051	1179.408	1067.614	921.674	787.357	738.467	692.703	660.977	662.498
143.0	1226.817	1181.881	1071.474	927.916	794.985	746.248	700.331	668.605	670.355
143.5	1230.054	1183.748	1075.412	934.158	803.376	754.181	708.264	676.691	678.289
144.0	1228.636	1186.456	1080.112	940.400	811.081	761.961	715.890	684.622	686.221
144.5	1232.791	1189.926	1084.050	946.565	818.787	769.284	723.672	692.479	694.154
145.0	1236.635	1192.556	1087.225	952.122	826.415	776.912	731.300	700.107	702.394
145.5	1236.821	1195.186	1092.688	958.364	834.043	784.617	738.926	707.963	710.021
146.0	1239.139	1196.897	1095.785	963.921	840.986	792.245	746.402	715.591	717.878
146.5	1243.372	1200.367	1099.800	967.875	848.614	799.873	753.953	723.370	725.735
147.0	1245.083	1202.078	1103.660	973.354	856.242	807.501	761.810	731.073	733.666
147.5	1248.320	1205.627	1106.913	977.386	863.185	815.285	769.362	738.853	741.294
148.0	1248.350	1205.968	1110.851	982.102	870.813	822.835	776.990	746.634	749.303
148.5	1248.613	1207.835	1113.263	988.344	877.756	829.700	784.695	754.414	757.086
149.0	1250.931	1211.305	1117.200	993.823	885.461	836.643	792.245	762.040	765.017
149.5	1252.113	1210.121	1119.612	997.855	892.327	844.349	799.873	769.440	772.646
150.0	1252.828	1213.435	1123.550	1004.175	899.192	851.977	807.501	777.067	781.037
150.5	1255.302	1215.302	1128.328	1008.969	906.057	858.920	815.129	785.458	788.665
151.0	1255.409	1217.169	1129.293	1014.526	913.000	865.785	822.072	793.008	796.978
151.5	1257.961	1217.588	1133.993	1019.243	919.943	873.413	829.700	800.714	804.684
152.0	1258.147	1218.770	1135.720	1024.800	926.886	880.356	837.328	808.264	812.996
152.5	1257.492	1220.637	1138.973	1028.831	933.751	887.221	845.034	815.892	820.702
153.0	1257.677	1220.979	1142.226	1034.389	939.931	894.164	851.821	822.757	828.330
153.5	1260.151	1222.923	1144.638	1039.183	943.823	901.029	859.527	831.148	835.958
154.0	1258.811	1224.105	1146.365	1044.740	951.451	908.735	866.392	838.698	844.427
154.5	1260.522	1224.525	1147.937	1048.772	956.790	914.837	874.020	846.326	852.132
155.0	1262.156	1225.629	1151.033	1052.803	961.445	921.858	880.963	853.191	859.682
155.5	1261.656	1225.363	1153.212	1057.675	966.862	928.645	888.591	860.819	867.388
156.0	1259.475	1226.545	1154.628	1061.629	973.727	935.666	895.533	868.446	874.938
156.5	1261.187	1227.805	1156.199	1066.501	979.145	939.480	902.399	875.996	881.803
157.0	1261.979	1227.383	1158.533	1070.611	985.325	946.423	909.264	882.862	889.509
157.5	1258.475	1227.880	1160.105	1073.802	990.665	952.525	916.969	890.489	897.137
158.0	1258.706	1226.089	1161.910	1077.833	996.082	958.627	923.835	898.117	904.765
158.5	1256.665	1226.586	1162.952	1081.180	1002.184	963.282	929.937	904.982	911.630
159.0	1254.562	1227.083	1164.757	1085.212	1007.602	969.384	934.514	911.848	919.258
159.5	1256.585	1227.503	1165.799	1089.321	1012.178	976.249	943.745	919.475	926.123
160.0	1254.093	1227.081	1166.919	1092.590	1018.359	981.667	947.559	926.341	933.751
160.5	1252.301	1226.582	1168.802	1095.174	1023.013	987.847	954.502	933.206	940.694
161.0	1252.938	1226.689	1169.922	1098.520	1026.827	993.187	959.841	938.545	948.244
161.5	1251.458	1223.902	1171.727	1101.789	1032.930	999.289	964.496	945.410	954.346
162.0	1250.446	1222.717	1169.874	1105.136	1036.744	1004.706	971.361	952.275	957.242
162.5	1247.580	1220.848	1172.520	1106.194	1042.924	1010.887	976.701	957.615	963.951
163.0	1246.769	1222.108	1172.192	1110.303	1046.816	1016.989	984.407	962.954	969.820
163.5	1245.351	1219.632	1172.628	1112.047	1052.155	1021.643	989.746	969.820	976.607
164.0	1245.771	1219.600	1173.748	1114.630	1055.969	1026.220	995.086	975.922	982.631
164.5	1243.294	1217.202	1173.420	1116.374	1060.624	1031.560	1002.029	982.865	990.866
165.0	1240.896	1217.092	1173.855	1118.958	1065.200	1037.662	1008.131	988.204	996.968
165.5	1236.972	1213.168	1173.606	1121.464	1069.855	1041.554	1012.708	993.544	1002.308
166.0	1236.940	1211.688	1173.200	1124.047	1073.669	1046.131	1018.125	1000.409	1009.780
166.5	1235.227	1210.130	1173.713	1126.631	1076.720	1051.548	1024.149	1006.511	1016.645

CANDELA TABULATION - (Cont.)

167.0	1233.358	1208.573	1172.701	1126.242	1080.612	1055.362	1030.330	1011.929	1022.748
167.5	1230.041	1205.645	1172.451	1128.141	1083.741	1059.939	1034.144	1018.872	1028.087
168.0	1224.747	1203.403	1172.202	1130.040	1087.555	1064.593	1040.324	1024.974	1034.267
168.5	1223.952	1201.611	1171.952	1132.017	1091.369	1069.170	1046.504	1031.154	1040.292
169.0	1219.343	1198.979	1170.177	1130.864	1095.261	1073.747	1050.240	1035.731	1045.553
169.5	1217.023	1196.130	1169.927	1133.448	1097.471	1076.798	1056.342	1042.596	1050.052
170.0	1214.703	1193.202	1168.915	1133.900	1099.760	1081.453	1060.997	1047.173	1056.155
170.5	1212.460	1191.878	1166.454	1135.114	1102.126	1085.267	1064.889	1052.590	1061.572
171.0	1207.773	1189.107	1167.045	1135.643	1103.651	1089.081	1068.781	1057.930	1066.227
171.5	1204.083	1186.335	1163.745	1136.172	1107.543	1091.447	1073.435	1063.425	1072.329
172.0	1202.074	1182.878	1163.651	1137.386	1110.672	1095.261	1078.012	1066.476	1076.750
172.5	1198.462	1179.500	1161.190	1137.152	1112.883	1099.075	1082.589	1072.579	1082.774
173.0	1193.402	1176.728	1158.886	1136.997	1114.486	1102.889	1087.166	1077.155	1085.748
173.5	1190.708	1173.271	1158.185	1138.366	1115.934	1104.414	1090.979	1080.969	1091.165
174.0	1187.858	1170.578	1155.118	1138.211	1116.697	1108.228	1094.031	1085.624	1096.427
174.5	1183.405	1165.673	1152.969	1138.055	1119.063	1112.042	1097.767	1090.201	1098.715
175.0	1178.952	1162.295	1150.821	1136.451	1121.351	1114.330	1100.818	1093.937	1103.214
175.5	1174.577	1159.072	1148.750	1137.977	1122.799	1115.778	1104.710	1097.829	1106.265
176.0	1173.409	1155.927	1146.757	1137.899	1124.402	1118.907	1108.446	1101.720	1112.445
176.5	1167.057	1151.412	1144.842	1137.214	1125.087	1120.433	1113.100	1105.612	1114.812
177.0	1163.756	1148.578	1141.557	1137.214	1125.243	1122.721	1113.863	1109.348	1118.625
177.5	1158.852	1144.297	1140.639	1135.689	1126.691	1123.484	1117.677	1112.399	1120.836
178.0	1154.259	1141.697	1139.035	1135.689	1127.454	1125.772	1119.888	1117.054	1127.016
178.5	1149.371	1136.964	1136.747	1134.926	1127.454	1128.061	1122.176	1120.027	1130.752
179.0	1146.086	1135.361	1133.696	1134.926	1128.216	1128.823	1126.068	1123.078	1132.278
179.5	1142.957	1132.388	1132.170	1133.400	1128.216	1130.349	1127.593	1125.445	1138.458
180.0	1131.096	1131.096	1131.096	1131.096	1131.096	1131.096	1131.096	1131.096	1131.096

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L38-835U-L38-835D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	419.95	N.A.	5.50
0-30	892.07	N.A.	11.70
0-40	1463.33	N.A.	19.20
0-60	2650.41	N.A.	34.70
0-80	3549.69	N.A.	46.50
0-90	3832.17	N.A.	50.20
10-90	3723.69	N.A.	48.80
20-40	1043.38	N.A.	13.70
20-50	1649.09	N.A.	21.60
40-70	1692.52	N.A.	22.20
60-80	899.28	N.A.	11.80
70-80	393.85	N.A.	5.20
80-90	282.48	N.A.	3.70
90-110	673.79	N.A.	8.80
90-120	1175.66	N.A.	15.40
90-130	1752.93	N.A.	23.00
90-150	2920.12	N.A.	38.20
90-180	3802.28	N.A.	49.80
110-180	3128.49	N.A.	41.00
0-180	7634.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.48
10-20	311.46
20-30	472.13
30-40	571.25
40-50	605.71
50-60	581.38
60-70	505.43
70-80	393.85
80-90	282.48
90-100	282.07
100-110	391.72
110-120	501.87
120-130	577.28
130-140	601.08
140-150	566.10
150-160	467.09
160-170	307.80
170-180	107.27

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-835U-L38-835D-DMA-DIM-UNV_.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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	32
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	26
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	27	32	27	23	26	22	19	16
7	56	43	35	29	51	40	33	28	34	28	24	29	24	21	23	20	17	14
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	21	18	15	13
9	48	36	28	23	45	33	26	22	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	18	15	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-835U-L38-835D-DMA-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

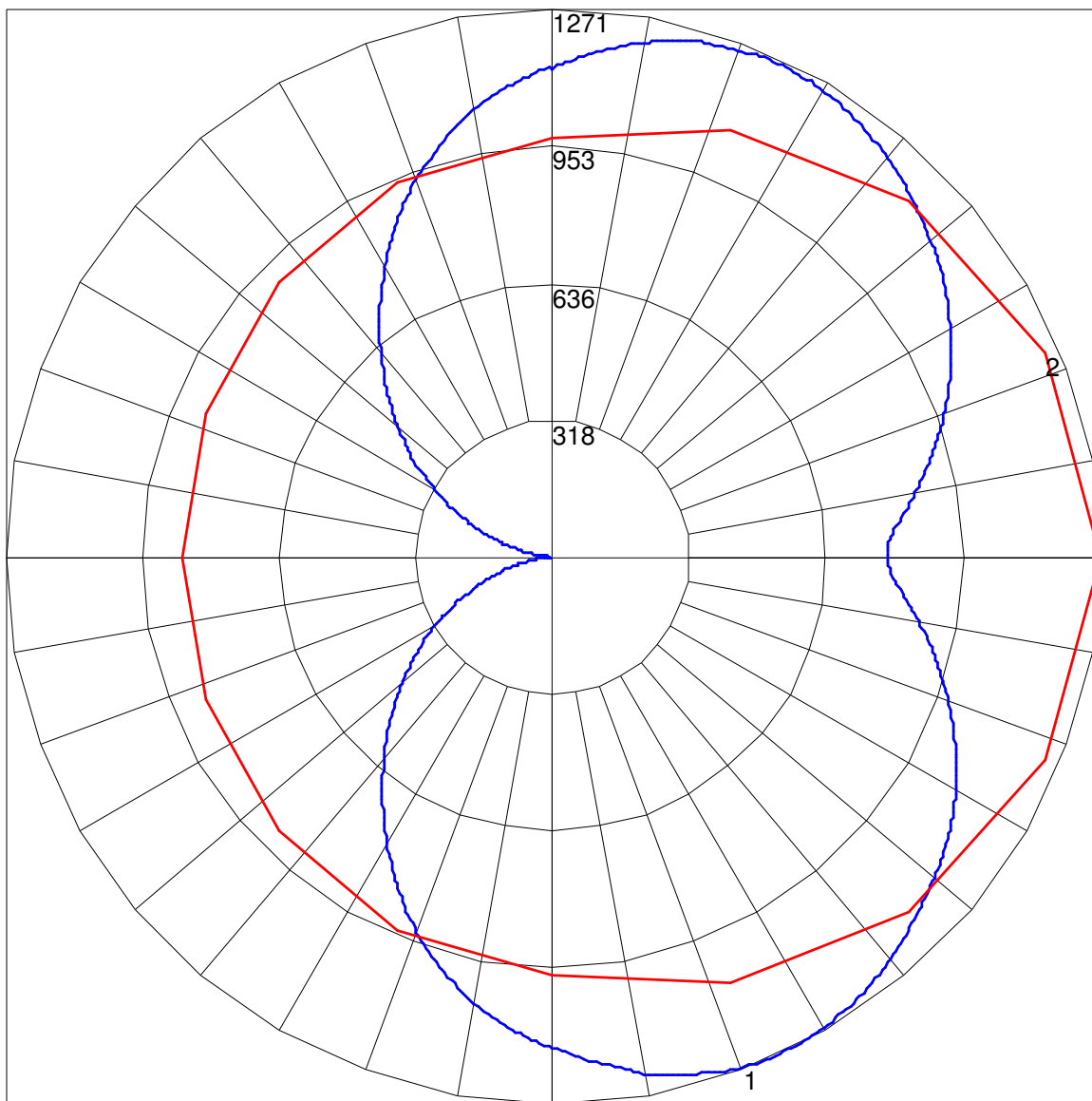
X=2H	Y=2H	21.8	22.7	22.8	23.7	25.0	15.9	16.8	16.8	17.8	19.0
	3H	24.9	25.7	25.9	26.7	28.0	17.2	18.1	18.2	19.0	20.3
	4H	26.5	27.3	27.5	28.3	29.5	17.7	18.4	18.6	19.4	20.7
	6H	28.2	28.9	29.1	29.9	31.2	17.9	18.6	18.9	19.6	20.9
	8H	29.0	29.7	30.0	30.8	32.1	18.0	18.6	18.9	19.7	21.0
	12H	30.0	30.7	31.0	31.7	33.0	18.0	18.6	19.0	19.6	21.0

UGR Viewed Endwise

4H	2H	22.1	22.9	23.1	23.9	25.2	17.1	17.9	18.1	18.9	20.2
	3H	25.4	26.1	26.4	27.1	28.4	18.8	19.4	19.7	20.4	21.7
	4H	27.2	27.8	28.2	28.8	30.1	19.3	19.9	20.3	20.9	22.3
	6H	29.1	29.6	30.1	30.6	31.9	19.7	20.2	20.7	21.3	22.6
	8H	30.0	30.5	31.1	31.6	32.9	19.8	20.3	20.8	21.3	22.7
	12H	31.1	31.6	32.2	32.6	34.0	19.8	20.3	20.9	21.3	22.7
8H	4H	27.3	27.8	28.3	28.8	30.2	20.4	20.9	21.4	21.9	23.3
	6H	29.4	29.8	30.4	30.8	32.2	21.1	21.5	22.1	22.5	23.9
	8H	30.5	30.9	31.5	31.9	33.3	21.3	21.7	22.3	22.7	24.1
	12H	31.8	32.1	32.8	33.2	34.6	21.4	21.7	22.4	22.8	24.2
12H	4H	27.3	27.7	28.3	28.8	30.1	20.8	21.2	21.8	22.3	23.6
	6H	29.4	29.7	30.4	30.8	32.2	21.6	22.0	22.6	23.0	24.4
	8H	30.6	30.9	31.6	31.9	33.3	21.9	22.2	22.9	23.3	24.7

Maximum UGR = 34.6

POLAR GRAPH



Maximum Candela = 1271.135 Located At Horizontal Angle = 0, Vertical Angle = 24.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (24.5) (Through Max. Cd.)