

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-830U-L38-830D-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
[MANUFACT] H E Williams Inc
[LUMCAT] CMH-3-00-L38-830U-L38-830D-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	7558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	20809	19599	18685
55	20686	18729	17063
65	20721	18051	15137
75	21081	17604	12310
85	22160	17948	8157

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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	1131.129	1131.129	1131.129	1131.129	1131.129	1131.129	1131.129	1131.129	1131.129
0.5	1132.718	1134.606	1132.504	1136.812	1129.102	1134.968	1127.349	1127.289	1127.397
1.0	1135.802	1137.297	1136.661	1137.734	1128.406	1133.275	1124.114	1124.054	1124.237
1.5	1139.884	1140.910	1137.885	1140.198	1128.406	1130.115	1122.421	1120.124	1118.840
2.0	1143.346	1145.369	1140.651	1140.425	1127.560	1127.727	1119.337	1116.964	1115.680
2.5	1148.350	1148.437	1144.340	1141.422	1126.789	1126.185	1116.253	1114.651	1112.671
3.0	1151.660	1153.048	1147.257	1141.649	1126.018	1124.642	1113.939	1110.025	1108.741
3.5	1156.044	1157.113	1149.403	1144.264	1126.018	1121.483	1110.084	1106.865	1106.428
4.0	1161.819	1161.179	1153.091	1144.491	1124.400	1118.399	1108.542	1103.010	1101.030
4.5	1164.434	1164.550	1156.009	1144.022	1123.629	1117.628	1104.687	1099.155	1096.329
5.0	1165.885	1168.766	1158.532	1146.561	1122.087	1113.773	1100.061	1095.224	1091.778
5.5	1171.266	1172.212	1159.363	1146.863	1119.774	1109.917	1097.748	1091.369	1089.465
6.0	1174.879	1174.963	1161.585	1146.394	1118.156	1109.071	1094.664	1088.209	1084.763
6.5	1177.796	1180.177	1163.882	1146.001	1116.690	1106.062	1090.657	1082.736	1080.213
7.0	1180.713	1183.472	1165.408	1146.152	1115.843	1103.598	1086.802	1078.035	1074.740
7.5	1183.690	1186.222	1167.010	1145.834	1111.912	1099.743	1082.176	1074.180	1069.343
8.0	1189.417	1188.201	1168.989	1143.823	1109.599	1095.888	1078.321	1069.478	1063.945
8.5	1194.493	1191.103	1170.968	1144.972	1108.828	1093.575	1074.390	1064.852	1058.624
9.0	1201.428	1194.155	1172.721	1143.732	1104.973	1089.644	1069.688	1058.608	1053.226
9.5	1204.858	1196.814	1173.778	1144.109	1102.585	1085.018	1065.062	1053.906	1051.684
10.0	1208.682	1200.940	1174.760	1143.020	1100.271	1081.858	1061.207	1049.280	1043.203
10.5	1212.430	1203.372	1176.513	1141.856	1096.416	1078.078	1056.505	1043.807	1039.423
11.0	1214.711	1205.109	1177.570	1139.996	1094.799	1074.148	1051.033	1039.952	1034.026
11.5	1216.766	1207.843	1177.856	1138.136	1090.173	1069.522	1046.482	1033.708	1027.087
12.0	1218.050	1209.807	1178.913	1137.818	1087.088	1067.133	1041.780	1028.311	1020.994
12.5	1222.493	1213.312	1179.275	1135.958	1084.700	1060.889	1036.383	1022.914	1015.597
13.0	1225.001	1215.200	1179.788	1134.098	1081.616	1057.034	1030.910	1016.670	1008.038
13.5	1226.964	1217.708	1180.301	1133.009	1076.218	1052.408	1026.209	1010.426	1003.562
14.0	1230.696	1219.294	1180.889	1131.224	1073.830	1046.164	1019.269	1004.258	996.850
14.5	1233.280	1220.955	1179.784	1128.518	1069.975	1042.309	1013.797	998.090	989.986
15.0	1233.324	1221.770	1180.146	1126.733	1064.502	1037.607	1008.399	991.921	983.122
15.5	1234.925	1222.660	1180.039	1123.256	1059.876	1032.905	1002.156	984.982	979.267
16.0	1235.605	1224.322	1179.160	1120.398	1055.945	1027.508	997.454	978.814	969.939
16.5	1238.928	1225.983	1180.595	1119.385	1052.090	1022.111	991.286	973.417	965.313
17.0	1242.568	1225.331	1180.488	1115.907	1048.235	1015.867	985.813	966.402	960.762
17.5	1243.141	1227.839	1179.534	1111.583	1042.762	1011.937	978.798	961.700	952.976
18.0	1245.331	1227.188	1178.580	1109.799	1037.365	1004.151	971.859	954.761	947.579
18.5	1248.292	1228.153	1177.400	1106.472	1031.892	999.525	968.699	950.906	940.564
19.0	1247.548	1229.119	1177.142	1104.068	1027.266	993.281	962.531	943.966	933.625
19.5	1251.038	1229.238	1175.190	1100.968	1021.793	988.579	955.516	937.027	925.839
20.0	1252.759	1228.738	1174.932	1096.870	1017.167	982.411	952.432	930.088	918.900
20.5	1253.256	1229.704	1172.285	1093.543	1012.465	976.167	945.417	923.073	911.114
21.0	1253.677	1229.127	1171.256	1088.977	1005.526	969.999	938.478	916.134	904.175
21.5	1254.945	1229.473	1169.380	1086.648	1000.824	966.839	932.310	908.423	896.464
22.0	1256.591	1229.199	1167.579	1083.623	994.656	959.129	925.295	901.484	888.679
22.5	1257.541	1228.925	1165.704	1079.677	988.412	953.581	918.280	894.545	881.739
23.0	1256.873	1229.346	1163.903	1075.655	982.939	945.870	911.341	886.835	873.953
23.5	1257.052	1228.528	1162.798	1070.091	976.000	942.786	904.326	879.124	866.243
24.0	1257.926	1228.405	1160.227	1067.142	971.374	936.542	897.311	872.109	857.762
24.5	1258.423	1228.130	1158.427	1062.651	964.359	929.603	890.372	864.475	850.823
25.0	1257.378	1227.932	1155.084	1059.400	962.046	922.513	883.357	856.689	843.037
25.5	1255.562	1226.191	1153.284	1055.453	956.573	915.573	876.418	848.978	834.555
26.0	1256.059	1225.766	1150.712	1049.193	951.176	908.559	868.632	842.039	827.541
26.5	1255.089	1223.799	1148.217	1044.400	944.161	901.619	861.617	834.329	818.984

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27.0	1253.348	1222.602	1146.567	1040.454	937.146	894.529	853.907	826.618	811.273
27.5	1253.301	1222.177	1141.909	1036.507	930.903	887.590	846.892	818.833	803.487
28.0	1253.798	1220.210	1138.869	1029.401	923.963	879.804	839.877	811.122	795.006
28.5	1251.755	1218.243	1136.524	1026.150	917.795	872.865	832.167	803.412	787.220
29.0	1250.090	1217.817	1134.179	1019.890	910.085	865.850	824.456	794.931	779.510
29.5	1249.740	1214.308	1131.214	1013.480	903.070	858.139	816.671	787.220	771.414
30.0	1249.148	1212.190	1128.099	1009.458	896.055	850.278	809.731	779.434	763.399
30.5	1247.181	1210.449	1124.983	1003.969	889.116	843.339	801.945	771.647	755.687
31.0	1246.906	1209.253	1121.942	998.329	882.177	835.553	794.235	763.860	747.669
31.5	1245.241	1207.906	1117.284	995.849	875.162	827.843	786.525	756.226	739.729
32.0	1242.654	1205.938	1115.015	989.439	867.451	820.828	778.739	748.283	732.095
32.5	1243.151	1203.200	1111.053	986.188	860.437	813.042	770.952	740.573	724.002
33.0	1238.946	1202.079	1107.786	980.699	853.497	805.332	763.164	732.479	715.906
33.5	1239.669	1198.495	1103.748	974.364	845.712	797.546	755.454	724.691	708.119
34.0	1238.624	1195.832	1098.939	968.800	838.001	789.835	747.668	717.058	700.024
34.5	1236.188	1193.093	1094.130	962.389	830.215	782.821	739.880	709.116	692.160
35.0	1233.299	1190.355	1090.939	956.054	822.505	774.879	732.247	701.329	684.527
35.5	1231.483	1188.463	1087.596	950.490	815.566	767.093	724.614	693.464	676.508
36.0	1228.577	1184.183	1082.938	944.155	807.855	759.306	716.827	685.754	668.491
36.5	1226.912	1181.445	1079.671	937.819	799.374	751.520	708.732	678.198	660.549
37.0	1224.249	1179.553	1074.016	931.409	791.588	743.964	701.176	670.258	652.530
37.5	1221.889	1175.348	1069.131	925.074	783.878	735.947	693.466	662.239	644.976
38.0	1220.919	1171.839	1066.015	918.738	776.168	728.159	685.601	654.683	636.805
38.5	1216.094	1169.176	1059.664	912.403	768.305	720.218	677.891	646.820	628.709
39.0	1213.733	1167.284	1055.551	905.297	760.286	712.586	670.027	639.110	620.844
39.5	1210.375	1163.004	1056.139	898.886	752.498	704.799	662.470	631.245	613.057
40.0	1209.481	1160.341	1051.406	892.551	744.480	696.780	654.839	623.536	605.501
40.5	1204.807	1157.527	1046.672	885.445	736.463	688.994	646.897	615.825	597.713
41.0	1201.298	1153.474	1041.788	879.034	728.675	681.207	639.187	608.039	589.775
41.5	1197.395	1149.964	1037.054	872.079	720.502	673.112	631.322	600.483	582.140
42.0	1196.425	1147.150	1031.399	865.820	712.561	665.709	623.614	592.620	574.508
42.5	1193.218	1143.717	1026.590	859.560	704.542	657.846	615.826	584.755	566.951
43.0	1189.240	1137.894	1021.630	853.451	696.525	649.904	608.116	577.353	558.935
43.5	1187.348	1135.156	1016.896	846.496	688.120	641.963	600.174	569.413	551.454
44.0	1183.294	1131.647	1011.392	839.541	680.256	634.177	592.233	561.626	544.130
44.5	1180.087	1128.213	1005.661	832.510	672.083	626.466	584.447	553.994	536.498
45.0	1177.726	1125.475	1000.927	826.175	664.064	618.295	576.736	546.130	529.019
45.5	1172.675	1120.499	995.347	819.223	656.047	610.429	568.718	538.573	521.156
46.0	1172.325	1117.065	989.767	812.348	647.874	602.487	561.007	530.940	513.600
46.5	1167.651	1115.098	984.958	805.395	639.777	594.624	553.066	523.154	506.352
47.0	1165.911	1113.901	979.378	798.288	631.374	586.760	545.278	515.674	499.029
47.5	1163.323	1110.694	973.723	791.565	623.047	578.741	537.492	507.965	491.242
48.0	1160.192	1106.187	968.369	784.841	614.797	570.493	529.858	500.640	483.685
48.5	1155.140	1102.133	962.563	778.040	606.701	562.474	521.918	493.009	476.206
49.0	1152.009	1097.853	957.058	771.008	598.607	554.532	514.130	485.607	468.573
49.5	1148.952	1093.573	951.403	763.977	590.434	546.745	506.497	478.129	461.326
50.0	1149.374	1090.214	945.747	757.100	582.184	538.805	498.865	470.650	453.692
50.5	1143.853	1085.934	940.243	749.996	574.011	530.632	491.001	463.555	446.292
51.0	1142.808	1081.805	934.738	743.121	565.915	522.767	483.368	456.001	438.815
51.5	1138.981	1077.600	928.312	736.013	557.819	514.671	475.580	448.522	431.567
52.0	1135.154	1072.549	922.581	728.600	549.569	506.884	468.101	441.198	424.473
52.5	1131.871	1068.344	917.076	721.648	541.473	499.021	460.469	433.874	417.071
53.0	1127.817	1063.988	910.725	714.388	533.300	491.002	452.759	426.549	409.592
53.5	1123.763	1059.858	904.993	707.206	525.359	482.906	445.049	419.301	402.115
54.0	1120.012	1055.503	899.029	699.869	517.110	475.119	437.416	411.822	395.483
54.5	1115.958	1050.753	892.832	692.454	509.169	467.409	429.861	404.653	388.161

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CANDELA TABULATION - (Cont.)

55.0	1112.055	1046.397	886.945	685.272	501.073	459.392	422.228	397.251	380.757
55.5	1108.077	1041.346	881.132	677.780	493.054	451.297	414.673	389.926	373.664
56.0	1104.174	1037.141	875.091	670.522	484.881	443.508	407.193	382.910	366.186
56.5	1100.422	1032.090	868.817	662.953	476.784	435.568	399.407	375.354	359.324
57.0	1096.444	1027.960	862.624	655.461	468.612	427.779	392.158	368.416	352.538
57.5	1091.695	1022.985	856.655	647.971	460.592	419.687	384.757	360.937	345.060
58.0	1087.490	1017.858	850.537	640.248	452.266	411.820	377.124	353.921	337.890
58.5	1083.738	1012.882	844.268	632.758	444.093	404.033	369.799	346.750	330.642
59.0	1079.760	1008.057	837.764	625.035	435.766	396.170	362.474	339.502	323.780
59.5	1075.086	1002.855	831.718	617.313	427.362	388.228	355.227	332.486	316.763
60.0	1070.035	997.803	825.216	609.823	419.112	380.211	347.979	325.392	309.670
60.5	1065.436	992.827	819.175	602.333	410.939	372.347	340.579	318.376	302.576
61.0	1061.458	987.773	812.903	594.996	402.843	364.405	333.177	311.283	295.560
61.5	1056.633	982.721	806.630	587.428	394.593	356.695	325.775	304.189	288.466
62.0	1051.037	977.362	800.050	579.705	386.496	348.755	318.681	297.097	281.681
62.5	1046.288	972.076	793.851	572.138	378.169	340.967	311.279	289.927	274.511
63.0	1041.539	967.021	787.659	564.571	370.150	332.949	303.879	282.910	267.649
63.5	1036.789	961.430	781.387	557.002	361.977	325.007	296.630	275.969	260.555
64.0	1032.115	955.993	774.806	549.435	353.804	317.451	289.305	268.799	253.926
64.5	1026.595	950.633	768.612	541.868	345.710	309.586	281.826	261.782	247.525
65.0	1021.308	945.274	761.802	533.992	337.537	301.876	274.347	254.843	240.354
65.5	1015.946	939.605	755.528	526.194	329.287	294.011	267.176	247.827	233.569
66.0	1010.734	933.781	749.179	518.628	321.266	286.149	259.697	240.964	226.938
66.5	1005.828	928.192	742.447	510.984	313.249	278.284	252.528	233.871	220.307
67.0	1000.307	922.599	736.173	503.339	305.229	270.574	245.510	227.086	213.908
67.5	994.943	917.006	729.438	495.464	297.209	263.018	238.340	220.224	207.200
68.0	989.654	911.187	722.860	487.667	288.806	255.539	231.094	213.439	200.337
68.5	984.056	905.363	716.358	479.945	280.710	247.674	223.846	206.653	193.552
69.0	979.156	899.619	709.546	472.380	272.768	240.195	216.675	199.868	187.307
69.5	973.635	894.028	703.197	464.889	264.827	232.485	209.889	193.238	180.830
70.0	968.422	888.203	696.388	457.399	256.808	225.006	202.874	186.607	174.352
70.5	963.054	882.305	689.807	449.832	248.868	217.374	195.935	179.822	167.646
71.0	957.842	876.481	683.151	442.038	240.848	209.972	188.995	173.422	161.169
71.5	952.550	870.657	676.189	434.550	233.292	202.570	182.212	167.022	154.769
72.0	946.806	864.454	669.686	427.291	225.425	195.168	175.425	160.623	148.908
72.5	941.360	858.782	663.029	419.880	217.023	187.843	168.717	154.455	142.354
73.0	935.692	852.807	656.527	412.698	209.465	180.673	162.163	147.978	136.186
73.5	930.170	846.678	649.951	405.285	201.679	173.734	155.532	141.655	129.863
74.0	924.725	840.778	643.142	397.875	194.044	166.717	148.979	135.640	123.851
74.5	918.825	834.577	636.562	390.542	186.642	159.778	142.579	129.549	118.222
75.0	913.228	828.677	629.680	383.436	179.163	152.839	136.257	123.536	112.131
75.5	907.479	822.548	623.104	376.028	171.837	146.054	129.933	117.368	106.347
76.0	901.655	816.650	616.834	368.772	164.512	139.423	123.535	111.585	100.718
76.5	895.823	810.445	610.105	361.896	157.187	132.869	117.212	105.571	95.169
77.0	889.922	804.626	603.529	354.564	150.092	126.315	111.351	99.943	90.001
77.5	884.020	798.500	596.955	347.767	142.845	119.838	105.261	94.237	84.604
78.0	878.273	792.604	590.608	340.819	136.060	113.362	99.324	88.763	79.361
78.5	872.062	786.481	584.338	334.253	129.197	107.039	93.464	83.364	74.118
79.0	866.239	780.202	577.917	327.307	122.565	100.948	87.682	77.967	68.798
79.5	860.337	774.307	571.648	320.590	115.857	94.934	82.051	72.569	63.940
80.0	854.286	768.335	565.307	313.953	109.224	89.073	76.577	67.481	59.006
80.5	848.232	762.291	558.962	307.696	102.825	83.213	71.180	62.392	54.225
81.0	842.562	756.474	553.080	301.441	96.655	77.507	65.937	57.457	49.291
81.5	836.738	750.195	546.970	295.188	90.641	72.031	60.769	52.600	44.510
82.0	830.839	744.379	541.088	288.935	84.704	66.634	55.605	47.819	40.040
82.5	825.550	739.102	535.286	282.911	78.767	61.468	50.823	43.423	35.796

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-830U-L38-830D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	819.808	733.439	529.330	277.271	73.061	56.225	46.043	38.951	31.403
83.5	814.372	727.698	523.528	271.709	67.587	51.135	41.494	34.556	27.162
84.0	809.088	722.268	518.035	266.151	62.267	46.277	37.022	30.315	22.997
84.5	803.650	716.685	512.466	260.592	57.024	41.574	32.472	26.075	19.143
85.0	798.520	711.024	506.974	255.341	51.935	37.025	28.155	22.142	15.672
85.5	793.465	705.824	501.249	250.090	46.923	32.476	23.990	18.364	12.588
86.0	788.415	700.849	495.758	245.070	42.066	28.081	19.980	14.972	10.352
86.5	783.740	696.328	490.802	240.051	37.363	23.839	16.125	12.349	8.808
87.0	779.442	693.171	485.916	235.415	32.891	19.675	12.732	10.267	7.806
87.5	776.352	690.771	482.246	230.626	28.419	15.664	10.341	8.954	7.187
88.0	774.857	689.657	479.631	225.914	23.870	11.732	8.644	8.029	6.876
88.5	773.731	688.843	477.995	221.803	19.321	8.493	7.718	7.335	6.492
89.0	773.062	688.639	477.577	218.980	14.693	6.951	7.178	7.102	6.413
89.5	772.927	688.510	477.233	218.045	10.757	6.410	6.947	6.871	6.336
90.0	773.016	688.457	477.273	218.099	9.201	6.256	6.868	6.869	6.412
90.5	772.421	688.637	477.318	218.537	10.930	6.254	6.866	6.868	6.333
91.0	772.744	689.201	477.894	220.590	14.704	6.328	6.789	6.943	6.333
91.5	772.915	690.225	479.165	224.186	19.235	7.536	6.865	6.866	6.256
92.0	773.855	691.866	482.051	228.477	23.615	9.725	7.091	6.789	6.407
92.5	774.870	694.656	486.014	232.769	27.842	13.274	7.694	7.016	6.558
93.0	776.963	698.145	490.744	237.747	32.070	17.427	9.204	7.318	7.086
93.5	779.673	702.553	495.783	242.190	36.450	21.581	11.772	8.147	8.295
94.0	783.691	707.576	500.970	247.240	41.056	25.810	15.245	9.808	10.636
94.5	788.555	712.677	505.850	252.214	45.738	29.886	19.248	12.453	13.883
95.0	793.649	718.157	511.572	257.186	50.571	34.341	23.324	15.623	17.506
95.5	798.742	723.713	517.062	262.387	55.555	38.874	27.553	19.474	21.661
96.0	804.066	728.886	522.474	267.737	60.690	43.403	32.086	23.629	25.739
96.5	809.235	734.211	528.040	273.318	65.975	48.161	36.541	27.781	30.119
97.0	814.480	739.615	533.606	278.972	71.412	52.918	41.147	32.161	34.574
97.5	819.878	745.165	539.247	284.624	77.077	57.978	45.829	36.769	38.954
98.0	825.118	750.717	544.892	290.655	82.664	63.113	50.511	41.225	43.408
98.5	830.665	756.419	550.837	296.762	88.631	68.399	55.418	45.905	48.243
99.0	836.135	762.199	556.782	302.790	94.824	74.063	60.480	50.663	53.076
99.5	841.606	767.825	562.801	309.124	101.014	79.651	65.689	55.648	58.137
100.0	847.074	773.603	568.973	315.530	107.358	85.541	70.899	60.632	62.968
100.5	852.544	779.455	575.066	321.938	113.852	91.432	76.336	65.616	68.104
101.0	858.317	785.156	581.313	328.573	120.499	97.322	82.002	70.751	73.163
101.5	863.635	790.853	587.480	335.131	127.218	103.667	87.590	75.962	78.525
102.0	869.405	796.785	593.951	341.841	134.090	109.554	93.405	81.324	84.039
102.5	874.949	802.485	600.193	348.474	140.962	116.201	99.219	86.836	89.476
103.0	880.648	808.335	606.511	355.184	148.138	124.055	105.185	92.349	95.064
103.5	886.342	814.112	612.905	362.043	155.388	130.549	111.226	98.013	100.577
104.0	892.043	819.885	619.375	369.055	162.486	136.060	117.268	103.754	106.467
104.5	897.582	825.966	625.766	375.914	169.736	143.009	123.611	109.642	112.358
105.0	903.431	831.665	632.084	382.773	177.287	149.655	129.881	115.610	118.323
105.5	908.443	837.516	638.627	389.785	184.765	156.678	136.222	121.575	124.289
106.0	914.211	843.366	644.943	396.871	192.315	164.531	142.718	127.617	130.408
106.5	919.604	848.989	651.259	404.034	200.095	172.687	149.288	133.735	136.447
107.0	925.223	854.764	657.651	410.969	207.722	178.653	155.783	140.001	143.019
107.5	930.843	860.613	663.968	418.132	215.500	185.072	162.579	146.194	149.136
108.0	936.234	866.311	670.514	425.444	223.280	192.321	169.225	152.841	155.554
108.5	941.548	872.009	676.981	432.758	231.209	199.724	175.945	159.182	161.899
109.0	947.243	877.480	683.375	439.995	239.063	207.047	182.893	165.829	168.394
109.5	952.481	883.562	689.765	447.156	246.916	214.449	189.766	172.248	174.813
110.0	957.948	888.879	696.007	454.621	254.921	221.925	196.563	178.894	181.535
110.5	963.263	894.581	702.020	461.934	262.926	229.401	203.586	185.539	188.105

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L38-830U-L38-830D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	968.655	899.901	708.335	469.248	271.006	236.955	210.609	192.262	194.826
111.5	973.898	905.448	714.730	476.713	279.086	244.506	217.556	199.058	201.245
112.0	978.910	910.998	720.968	484.101	287.166	252.133	224.730	205.855	207.738
112.5	984.301	916.471	727.361	491.639	295.475	259.912	231.980	212.576	214.385
113.0	989.159	921.944	733.679	499.027	303.480	267.690	239.079	219.297	221.181
113.5	994.476	927.341	739.917	506.719	311.560	275.545	246.404	226.244	228.129
114.0	999.562	932.508	746.156	514.107	319.867	283.248	253.881	233.116	234.925
114.5	1004.574	937.828	752.397	521.570	327.871	291.177	262.791	240.216	241.722
115.0	1009.284	943.227	758.638	529.111	336.029	299.032	272.306	247.239	248.671
115.5	1014.072	948.548	764.802	536.574	344.260	307.037	279.102	254.111	255.392
116.0	1019.234	953.489	771.120	544.038	352.491	314.890	283.786	261.134	262.717
116.5	1023.871	958.812	777.054	551.503	360.571	322.744	290.280	268.157	269.589
117.0	1029.033	964.134	783.447	559.041	368.804	330.900	298.891	275.331	276.764
117.5	1033.593	968.998	789.458	566.429	377.187	338.680	308.557	282.203	283.559
118.0	1038.154	974.242	795.546	573.970	385.191	346.835	316.258	289.454	290.659
118.5	1042.483	979.111	801.938	581.356	393.498	354.842	321.547	296.325	297.682
119.0	1047.120	983.825	807.877	588.897	401.731	362.695	327.437	303.727	304.933
119.5	1051.758	989.295	813.964	596.285	409.962	370.474	334.687	310.825	311.728
120.0	1056.164	994.241	819.976	603.597	418.346	378.403	342.087	318.075	319.282
120.5	1060.648	999.033	825.989	610.758	426.502	386.485	349.564	325.250	326.229
121.0	1065.131	1003.747	832.079	618.222	434.431	394.338	356.964	332.576	333.329
121.5	1069.691	1008.693	837.941	625.457	442.738	402.116	364.365	341.260	340.428
122.0	1073.420	1013.485	843.955	632.922	450.969	409.972	372.069	351.154	347.677
122.5	1078.057	1017.368	849.740	640.159	459.049	417.750	379.469	359.610	355.002
123.0	1082.618	1022.314	855.677	647.394	467.207	425.756	387.023	365.200	362.252
123.5	1087.178	1026.951	861.693	654.555	475.438	433.534	394.574	371.921	369.728
124.0	1090.983	1031.065	867.704	661.717	483.443	441.464	402.203	380.683	379.773
124.5	1095.544	1035.780	873.487	669.029	491.675	449.470	409.755	388.083	392.839
125.0	1099.503	1040.648	879.503	676.264	499.680	457.097	417.457	393.067	401.220
125.5	1103.232	1044.685	885.438	683.503	507.911	465.026	425.011	398.355	405.148
126.0	1107.715	1049.477	891.000	690.436	515.916	472.880	432.638	405.376	406.507
126.5	1111.443	1053.668	896.932	697.522	523.921	480.584	440.114	412.627	412.851
127.0	1115.403	1058.459	903.250	704.608	532.078	488.589	447.665	419.954	420.100
127.5	1119.285	1062.496	908.659	711.467	540.158	496.367	455.294	427.204	427.427
128.0	1123.013	1066.610	913.913	718.627	548.088	504.372	462.998	434.529	434.903
128.5	1126.896	1071.401	920.154	725.713	556.320	512.378	470.322	441.931	442.228
129.0	1130.778	1075.515	925.563	732.647	564.476	520.156	478.253	449.481	449.704
129.5	1130.730	1079.552	930.971	739.658	572.556	528.010	486.031	456.808	457.180
130.0	1134.690	1083.588	937.212	746.668	580.561	535.864	493.733	464.133	464.658
130.5	1137.062	1087.625	942.543	753.754	588.567	543.870	501.438	471.458	472.210
131.0	1140.790	1090.829	947.952	760.611	596.723	551.724	508.912	478.860	479.610
131.5	1141.729	1094.342	953.361	767.546	604.954	559.502	516.541	486.412	487.088
132.0	1147.646	1097.624	958.769	774.406	613.035	567.280	524.395	493.888	494.791
132.5	1151.605	1100.828	964.178	781.265	621.268	575.211	532.022	501.364	502.264
133.0	1153.299	1103.586	969.586	787.973	629.423	582.989	539.951	508.690	509.744
133.5	1157.027	1106.112	974.995	794.906	637.354	590.920	547.578	517.148	517.221
134.0	1162.420	1110.981	980.327	801.918	645.359	598.849	555.433	524.549	524.925
134.5	1164.037	1114.262	984.980	808.776	653.439	606.551	563.211	532.102	532.324
135.0	1167.842	1119.131	990.389	815.788	661.519	614.632	570.837	539.729	540.256
135.5	1172.557	1121.580	995.797	821.890	669.601	622.561	578.694	547.433	547.580
136.0	1174.097	1124.939	1000.975	828.902	677.606	630.492	586.321	554.757	555.284
136.5	1179.412	1128.297	1005.782	835.683	685.535	638.117	594.024	562.386	562.606
137.0	1179.519	1132.257	1010.358	842.618	693.617	646.122	601.802	569.863	570.615
137.5	1183.925	1136.371	1015.844	848.874	701.472	654.131	609.278	577.336	578.167
138.0	1185.542	1138.897	1018.756	855.578	709.397	661.829	616.900	584.811	585.253
138.5	1190.180	1143.766	1022.731	861.757	717.025	669.607	624.682	592.743	593.339

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CANDELA TABULATION - (Cont.)

139.0	1192.783	1145.614	1028.140	868.615	724.879	677.159	632.309	600.219	601.044
139.5	1194.924	1148.818	1031.961	874.641	732.811	685.090	639.938	607.848	608.672
140.0	1197.296	1152.254	1036.692	880.743	740.590	692.641	647.338	615.324	616.225
140.5	1201.255	1155.690	1039.080	887.524	748.445	700.497	655.193	623.179	624.383
141.0	1203.550	1158.971	1042.978	893.549	756.451	708.125	662.972	631.184	632.388
141.5	1206.678	1160.141	1048.386	900.330	764.380	715.828	670.599	639.038	640.166
142.0	1208.449	1164.332	1052.208	906.432	771.932	723.531	678.224	646.891	648.019
142.5	1210.821	1167.613	1056.938	912.458	779.484	731.082	685.776	654.367	655.873
143.0	1214.549	1170.063	1060.759	918.637	787.035	738.785	693.327	661.919	663.651
143.5	1217.753	1171.911	1064.658	924.817	795.342	746.639	701.181	669.924	671.506
144.0	1216.350	1174.591	1069.311	930.996	802.971	754.341	708.731	677.776	679.359
144.5	1220.463	1178.027	1073.209	937.099	810.599	761.591	716.435	685.554	687.212
145.0	1224.269	1180.630	1076.352	942.601	818.151	769.143	723.987	693.106	695.370
145.5	1224.452	1183.234	1081.761	948.780	825.703	776.771	731.537	700.884	702.921
146.0	1226.747	1184.928	1084.827	954.282	832.576	784.323	738.938	708.435	710.699
146.5	1230.938	1188.363	1088.802	958.196	840.128	791.875	746.414	716.137	718.478
147.0	1232.632	1190.058	1092.624	963.620	847.679	799.426	754.192	723.762	726.330
147.5	1235.837	1193.570	1095.844	967.612	854.553	807.132	761.668	731.465	733.881
148.0	1235.866	1193.908	1099.742	972.281	862.105	814.606	769.220	739.167	741.810
148.5	1236.127	1195.756	1102.130	978.461	868.978	821.403	776.848	746.870	749.515
149.0	1238.422	1199.192	1106.028	983.885	876.607	828.276	784.323	754.420	757.367
149.5	1239.592	1198.020	1108.416	987.876	883.403	835.905	791.875	761.745	764.920
150.0	1240.300	1201.301	1112.315	994.133	890.200	843.457	799.426	769.297	773.227
150.5	1242.749	1203.149	1117.045	998.879	896.996	850.330	806.978	777.604	780.778
151.0	1242.855	1204.998	1118.000	1004.381	903.870	857.127	813.851	785.078	789.008
151.5	1245.382	1205.413	1122.653	1009.050	910.743	864.678	821.403	792.707	796.637
152.0	1245.565	1206.583	1124.363	1014.552	917.617	871.552	828.955	800.181	804.866
152.5	1244.917	1208.431	1127.583	1018.543	924.413	878.348	836.583	807.733	812.495
153.0	1245.100	1208.769	1130.804	1024.045	930.532	885.222	843.303	814.529	820.047
153.5	1247.550	1210.694	1133.192	1028.791	934.385	892.019	850.931	822.836	827.598
154.0	1246.223	1211.864	1134.901	1034.293	941.936	899.647	857.728	830.311	835.982
154.5	1247.917	1212.279	1136.457	1038.284	947.222	905.689	865.279	837.862	843.611
155.0	1249.534	1213.372	1139.523	1042.275	951.830	912.639	872.153	844.659	851.086
155.5	1249.040	1213.109	1141.680	1047.099	957.194	919.359	879.705	852.210	858.714
156.0	1246.881	1214.280	1143.081	1051.013	963.990	926.309	886.578	859.762	866.189
156.5	1248.575	1215.527	1144.637	1055.836	969.353	930.085	893.375	867.236	872.985
157.0	1249.359	1215.110	1146.948	1059.905	975.472	936.959	900.171	874.033	880.614
157.5	1245.890	1215.602	1148.503	1063.064	980.758	943.000	907.800	881.585	888.166
158.0	1246.119	1213.828	1150.290	1067.055	986.121	949.041	914.596	889.136	895.717
158.5	1244.098	1214.320	1151.322	1070.368	992.162	953.649	920.638	895.933	902.514
159.0	1242.016	1214.813	1153.109	1074.359	997.526	959.691	925.169	902.729	910.065
159.5	1244.019	1215.228	1154.141	1078.428	1002.057	966.487	934.308	910.281	916.862
160.0	1241.552	1214.810	1155.250	1081.664	1008.175	971.850	938.083	917.077	924.413
160.5	1239.778	1214.316	1157.114	1084.222	1012.783	977.969	944.957	923.874	931.287
161.0	1240.409	1214.423	1158.223	1087.535	1016.559	983.255	950.243	929.160	938.761
161.5	1238.944	1211.663	1160.010	1090.771	1022.600	989.296	954.851	935.956	944.803
162.0	1237.941	1210.490	1158.176	1094.084	1026.376	994.659	961.648	942.753	947.669
162.5	1235.104	1208.640	1160.795	1095.132	1032.494	1000.778	966.934	948.039	954.311
163.0	1234.302	1209.887	1160.470	1099.200	1036.347	1006.819	974.562	953.325	960.121
163.5	1232.898	1207.436	1160.901	1100.926	1041.634	1011.427	979.849	960.121	966.841
164.0	1233.313	1207.404	1162.010	1103.484	1045.409	1015.958	985.135	966.163	972.805
164.5	1230.861	1205.030	1161.686	1105.210	1050.017	1021.244	992.008	973.036	980.958
165.0	1228.487	1204.921	1162.117	1107.768	1054.548	1027.285	998.050	978.322	986.999
165.5	1224.603	1201.036	1161.870	1110.249	1059.156	1031.138	1002.581	983.609	992.285
166.0	1224.571	1199.571	1161.468	1112.807	1062.932	1035.669	1007.944	990.405	999.682
166.5	1222.874	1198.029	1161.976	1115.365	1065.953	1041.033	1013.908	996.446	1006.479

CANDELA TABULATION - (Cont.)

167.0	1221.024	1196.487	1160.974	1114.979	1069.806	1044.808	1020.026	1001.810	1012.520
167.5	1217.740	1193.589	1160.727	1116.859	1072.904	1049.339	1023.802	1008.683	1017.806
168.0	1212.500	1191.369	1160.480	1118.739	1076.679	1053.947	1029.921	1014.724	1023.925
168.5	1211.713	1189.595	1160.232	1120.696	1080.455	1058.478	1036.039	1020.843	1029.889
169.0	1207.150	1186.990	1158.475	1119.556	1084.308	1063.009	1039.738	1025.374	1035.098
169.5	1204.853	1184.169	1158.228	1122.114	1086.496	1066.030	1045.779	1032.170	1039.552
170.0	1202.555	1181.270	1157.225	1122.561	1088.762	1070.638	1050.387	1036.701	1045.593
170.5	1200.335	1179.960	1154.790	1123.762	1091.105	1074.414	1054.240	1042.064	1050.956
171.0	1195.696	1177.216	1155.375	1124.286	1092.615	1078.190	1058.093	1047.351	1055.564
171.5	1192.042	1174.472	1152.107	1124.810	1096.468	1080.532	1062.701	1052.791	1061.606
172.0	1190.053	1171.050	1152.014	1126.012	1099.566	1084.308	1067.232	1055.812	1065.982
172.5	1186.477	1167.705	1149.579	1125.781	1101.754	1088.084	1071.763	1061.853	1071.947
173.0	1181.468	1164.961	1147.297	1125.627	1103.341	1091.860	1076.294	1066.384	1074.890
173.5	1178.801	1161.539	1146.603	1126.983	1104.775	1093.370	1080.070	1070.160	1080.253
174.0	1175.980	1158.872	1143.567	1126.828	1105.530	1097.146	1083.090	1074.768	1085.462
174.5	1171.571	1154.017	1141.440	1126.674	1107.872	1100.922	1086.789	1079.299	1087.728
175.0	1167.163	1150.672	1139.312	1125.087	1110.138	1103.187	1089.810	1082.997	1092.182
175.5	1162.831	1147.481	1137.262	1126.597	1111.571	1104.620	1093.663	1086.850	1095.202
176.0	1161.675	1144.367	1135.289	1126.520	1113.158	1107.718	1097.361	1090.703	1101.321
176.5	1155.386	1139.898	1133.394	1125.842	1113.837	1109.228	1101.969	1094.556	1103.663
177.0	1152.118	1137.092	1130.142	1125.842	1113.991	1111.494	1102.725	1098.255	1107.439
177.5	1147.263	1132.854	1129.232	1124.332	1115.424	1112.249	1106.500	1101.275	1109.628
178.0	1142.716	1130.280	1127.645	1124.332	1116.179	1114.515	1108.689	1105.884	1115.746
178.5	1137.877	1125.595	1125.379	1123.577	1116.179	1116.780	1110.954	1108.827	1119.445
179.0	1134.625	1124.007	1122.359	1123.577	1116.934	1117.535	1114.807	1111.848	1120.955
179.5	1131.527	1121.064	1120.848	1122.066	1116.934	1119.046	1116.317	1114.190	1127.073
180.0	1119.785	1119.785	1119.785	1119.785	1119.785	1119.785	1119.785	1119.785	1119.785

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L38-830U-L38-830D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	415.75	N.A.	5.50
0-30	883.15	N.A.	11.70
0-40	1448.69	N.A.	19.20
0-60	2623.91	N.A.	34.70
0-80	3514.19	N.A.	46.50
0-90	3793.85	N.A.	50.20
10-90	3686.45	N.A.	48.80
20-40	1032.95	N.A.	13.70
20-50	1632.6	N.A.	21.60
40-70	1675.59	N.A.	22.20
60-80	890.28	N.A.	11.80
70-80	389.91	N.A.	5.20
80-90	279.66	N.A.	3.70
90-110	667.05	N.A.	8.80
90-120	1163.9	N.A.	15.40
90-130	1735.4	N.A.	23.00
90-150	2890.91	N.A.	38.20
90-180	3764.26	N.A.	49.80
110-180	3097.21	N.A.	41.00
0-180	7558.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.40
10-20	308.35
20-30	467.41
30-40	565.54
40-50	599.65
50-60	575.57
60-70	500.38
70-80	389.91
80-90	279.66
90-100	279.25
100-110	387.80
110-120	496.85
120-130	571.50
130-140	595.07
140-150	560.44
150-160	462.42
160-170	304.73
170-180	106.20

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-830U-L38-830D-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	44	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-L38-830U-L38-830D-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

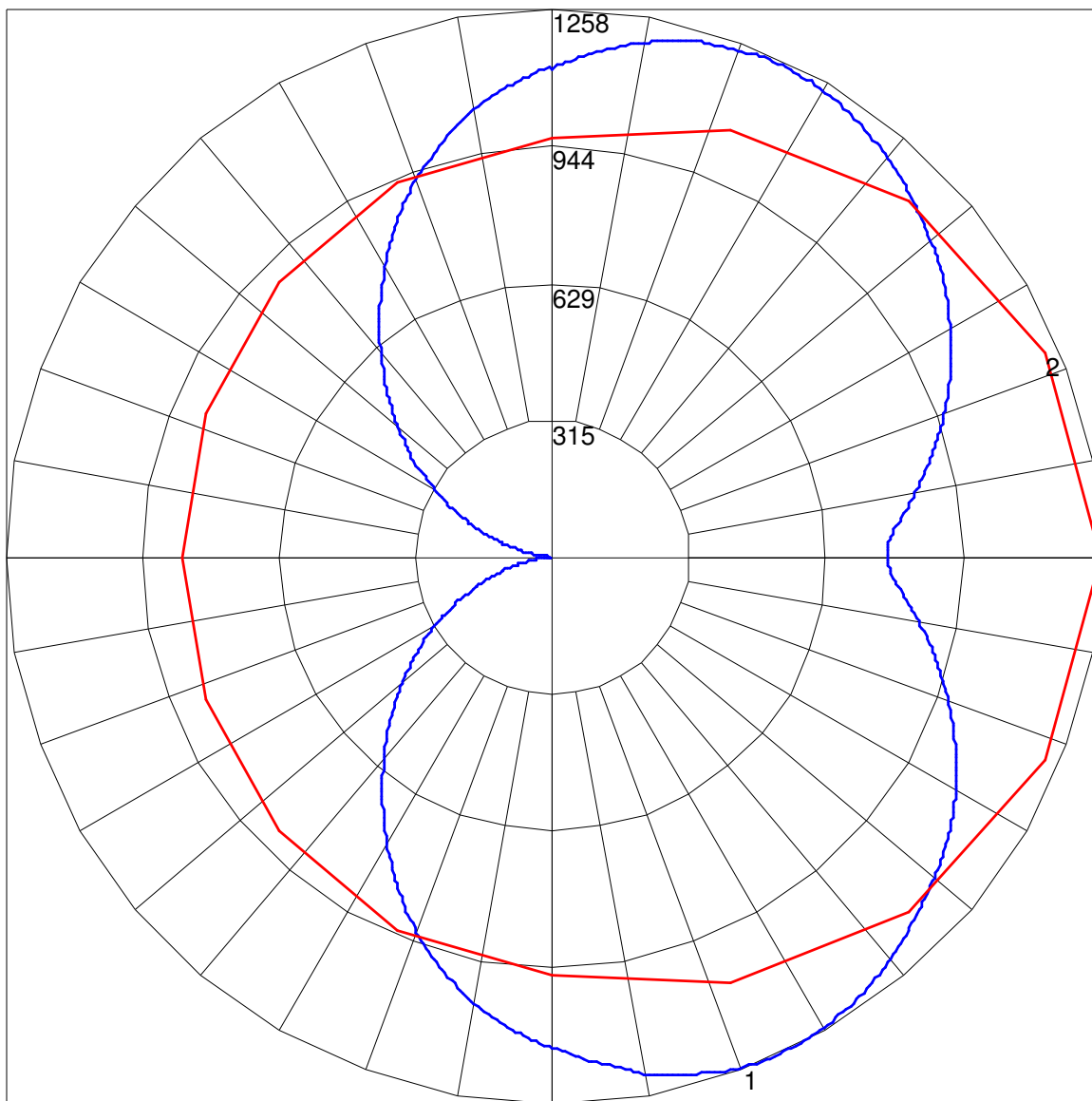
X=2H	Y=2H	21.7	22.6	22.7	23.6	24.9	15.8	16.7	16.7	17.7	18.9
	3H	24.8	25.6	25.8	26.6	27.9	17.1	18.0	18.1	18.9	20.2
	4H	26.4	27.2	27.4	28.2	29.4	17.6	18.3	18.5	19.3	20.6
	6H	28.1	28.8	29.0	29.8	31.1	17.8	18.5	18.8	19.5	20.8
	8H	28.9	29.6	29.9	30.7	32.0	17.9	18.5	18.8	19.6	20.9
	12H	29.9	30.6	30.9	31.6	32.9	17.9	18.5	18.9	19.5	20.9

UGR Viewed Endwise

4H	2H	22.0	22.8	23.0	23.8	25.1	17.0	17.8	18.0	18.8	20.1
	3H	25.3	26.0	26.3	27.0	28.3	18.7	19.3	19.6	20.3	21.6
	4H	27.1	27.7	28.1	28.7	30.0	19.2	19.8	20.2	20.8	22.2
	6H	29.0	29.5	30.0	30.5	31.8	19.6	20.1	20.6	21.2	22.5
	8H	29.9	30.4	31.0	31.5	32.8	19.7	20.2	20.7	21.2	22.6
	12H	31.0	31.5	32.1	32.5	33.9	19.7	20.2	20.8	21.2	22.6
8H	4H	27.2	27.7	28.2	28.7	30.1	20.3	20.8	21.3	21.9	23.2
	6H	29.3	29.7	30.3	30.7	32.1	21.0	21.4	22.0	22.4	23.8
	8H	30.4	30.8	31.4	31.8	33.2	21.2	21.6	22.2	22.6	24.0
	12H	31.7	32.0	32.7	33.1	34.5	21.3	21.6	22.3	22.7	24.1
12H	4H	27.2	27.6	28.2	28.7	30.0	20.7	21.1	21.7	22.2	23.5
	6H	29.3	29.6	30.3	30.7	32.1	21.5	21.9	22.5	22.9	24.3
	8H	30.5	30.8	31.5	31.8	33.2	21.8	22.1	22.8	23.2	24.6

Maximum UGR = 34.5

POLAR GRAPH



Maximum Candela = 1258.423 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.)