

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-850U-L38-850D-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-L38-850U-L38-850D-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	8093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	22280	20985	20006
55	22148	20054	18270
65	22186	19327	16208
75	22572	18849	13181
85	23727	19217	8734

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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	1211.107	1211.107	1211.107	1211.107	1211.107	1211.107	1211.107	1211.107	1211.107
0.5	1212.810	1214.831	1212.580	1217.193	1208.937	1215.218	1207.061	1206.997	1207.112
1.0	1216.112	1217.712	1217.031	1218.180	1208.193	1213.405	1203.597	1203.533	1203.728
1.5	1220.482	1221.580	1218.342	1220.818	1208.193	1210.022	1201.784	1199.324	1197.950
2.0	1224.189	1226.355	1221.303	1221.061	1207.286	1207.465	1198.482	1195.941	1194.567
2.5	1229.546	1229.640	1225.253	1222.129	1206.461	1205.814	1195.179	1193.464	1191.345
3.0	1233.091	1234.576	1228.376	1222.372	1205.635	1204.163	1192.703	1188.511	1187.137
3.5	1237.785	1238.929	1230.674	1225.172	1205.635	1200.780	1188.575	1185.128	1184.660
4.0	1243.968	1243.283	1234.623	1225.414	1203.903	1197.477	1186.924	1181.000	1178.881
4.5	1246.768	1246.891	1237.747	1224.912	1203.078	1196.652	1182.796	1176.873	1173.847
5.0	1248.321	1251.406	1240.449	1227.631	1201.426	1192.524	1177.843	1172.664	1168.975
5.5	1254.083	1255.096	1241.338	1227.955	1198.950	1188.396	1175.366	1168.536	1166.498
6.0	1257.951	1258.041	1243.717	1227.453	1197.218	1187.490	1172.064	1165.153	1161.464
6.5	1261.075	1263.624	1246.177	1227.031	1195.648	1184.269	1167.775	1159.294	1156.591
7.0	1264.198	1267.152	1247.811	1227.193	1194.741	1181.630	1163.647	1154.259	1150.732
7.5	1267.385	1270.096	1249.526	1226.853	1190.533	1177.502	1158.694	1150.132	1144.953
8.0	1273.518	1272.216	1251.645	1224.699	1188.056	1173.375	1154.566	1145.097	1139.174
8.5	1278.952	1275.322	1253.764	1225.929	1187.230	1170.898	1150.357	1140.144	1133.476
9.0	1286.378	1278.590	1255.641	1224.602	1183.103	1166.689	1145.323	1133.459	1127.697
9.5	1290.050	1281.437	1256.773	1225.006	1180.545	1161.736	1140.370	1128.425	1126.046
10.0	1294.144	1285.855	1257.824	1223.840	1178.068	1158.353	1136.242	1123.471	1116.965
10.5	1298.157	1288.459	1259.701	1222.593	1173.941	1154.306	1131.208	1117.612	1112.918
11.0	1300.600	1290.319	1260.833	1220.602	1172.209	1150.098	1125.348	1113.484	1107.139
11.5	1302.800	1293.246	1261.139	1218.610	1167.255	1145.144	1120.476	1106.799	1099.709
12.0	1304.174	1295.349	1262.271	1218.270	1163.953	1142.587	1115.442	1101.020	1093.186
12.5	1308.932	1299.102	1262.658	1216.278	1161.396	1135.902	1109.663	1095.241	1087.407
13.0	1311.617	1301.123	1263.207	1214.287	1158.094	1131.774	1103.803	1088.556	1079.313
13.5	1313.719	1303.809	1263.756	1213.121	1152.315	1126.821	1098.769	1081.871	1074.521
14.0	1317.715	1305.507	1264.386	1211.210	1149.757	1120.135	1091.339	1075.266	1067.334
14.5	1320.481	1307.285	1263.203	1208.312	1145.629	1116.008	1085.479	1068.662	1059.985
15.0	1320.528	1308.158	1263.590	1206.401	1139.770	1110.973	1079.700	1062.057	1052.636
15.5	1322.243	1309.111	1263.476	1202.678	1134.816	1105.939	1073.015	1054.627	1048.508
16.0	1322.971	1310.890	1262.535	1199.618	1130.608	1100.160	1067.981	1048.023	1038.521
16.5	1326.529	1312.669	1264.072	1198.533	1126.480	1094.381	1061.377	1042.244	1033.567
17.0	1330.427	1311.971	1263.957	1194.810	1122.352	1087.696	1055.517	1034.733	1028.695
17.5	1331.039	1314.656	1262.935	1190.180	1116.493	1083.488	1048.006	1029.699	1020.359
18.0	1333.384	1313.958	1261.914	1188.269	1110.714	1075.151	1040.576	1022.269	1014.580
18.5	1336.555	1314.992	1260.650	1184.707	1104.854	1070.198	1037.193	1018.141	1007.069
19.0	1335.759	1316.027	1260.374	1182.133	1099.901	1063.513	1030.589	1010.712	999.639
19.5	1339.495	1316.154	1258.284	1178.814	1094.041	1058.479	1023.078	1003.282	991.303
20.0	1341.338	1315.618	1258.008	1174.426	1089.088	1051.874	1019.776	995.852	983.873
20.5	1341.870	1316.652	1255.174	1170.865	1084.054	1045.189	1012.265	988.341	975.536
21.0	1342.321	1316.035	1254.072	1165.975	1076.624	1038.585	1004.835	980.911	968.106
21.5	1343.679	1316.406	1252.063	1163.482	1071.590	1035.201	998.230	972.655	959.851
22.0	1345.441	1316.112	1250.136	1160.243	1064.985	1026.946	990.720	965.225	951.514
22.5	1346.458	1315.819	1248.127	1156.018	1058.300	1021.005	983.209	957.795	944.085
23.0	1345.743	1316.270	1246.199	1151.711	1052.440	1012.750	975.779	949.540	935.748
23.5	1345.934	1315.393	1245.016	1145.754	1045.010	1009.448	968.268	941.284	927.493
24.0	1346.871	1315.261	1242.263	1142.596	1040.057	1002.762	960.757	933.774	918.412
24.5	1347.403	1314.968	1240.336	1137.788	1032.546	995.332	953.327	925.599	910.982
25.0	1346.284	1314.755	1236.757	1134.307	1030.069	987.741	945.817	917.263	902.645
25.5	1344.339	1312.891	1234.829	1130.081	1024.210	980.311	938.387	909.007	893.564
26.0	1344.871	1312.436	1232.076	1123.379	1018.431	972.800	930.050	901.577	886.053
26.5	1343.833	1310.330	1229.404	1118.247	1010.920	965.370	922.539	893.322	876.892

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27.0	1341.969	1309.049	1227.638	1114.021	1003.409	957.778	914.284	885.066	868.636
27.5	1341.918	1308.594	1222.650	1109.796	996.724	950.349	906.773	876.730	860.300
28.0	1342.450	1306.487	1219.395	1102.187	989.294	942.012	899.262	868.474	851.219
28.5	1340.263	1304.381	1216.884	1098.706	982.690	934.582	891.007	860.219	842.882
29.0	1338.480	1303.926	1214.374	1092.004	974.434	927.071	882.751	851.138	834.627
29.5	1338.105	1300.168	1211.199	1085.140	966.923	918.816	874.415	842.882	825.959
30.0	1337.471	1297.900	1207.863	1080.833	959.413	910.399	866.985	834.546	817.376
30.5	1335.365	1296.036	1204.527	1074.957	951.983	902.969	858.649	826.208	809.119
31.0	1335.072	1294.756	1201.272	1068.918	944.553	894.632	850.393	817.870	800.535
31.5	1333.289	1293.313	1196.284	1066.263	937.042	886.377	842.138	809.697	792.034
32.0	1330.518	1291.207	1193.855	1059.399	928.786	878.866	833.801	801.192	783.859
32.5	1331.050	1288.275	1189.612	1055.918	921.276	870.530	825.463	792.937	775.194
33.0	1326.548	1287.075	1186.114	1050.041	913.846	862.274	817.125	784.270	766.526
33.5	1327.323	1283.237	1181.791	1043.258	905.509	853.938	808.870	775.932	758.188
34.0	1326.204	1280.385	1176.642	1037.301	897.254	845.682	800.533	767.759	749.521
34.5	1323.595	1277.454	1171.493	1030.437	888.917	838.172	792.195	759.256	741.101
35.0	1320.502	1274.522	1168.076	1023.654	880.662	829.668	784.022	750.918	732.928
35.5	1318.557	1272.496	1164.497	1017.696	873.232	821.332	775.849	742.497	724.342
36.0	1315.446	1267.913	1159.510	1010.913	864.976	812.994	767.511	734.242	715.758
36.5	1313.664	1264.981	1156.012	1004.130	855.895	804.658	758.845	726.151	707.255
37.0	1310.812	1262.956	1149.956	997.266	847.559	796.567	750.754	717.650	698.669
37.5	1308.285	1258.454	1144.726	990.483	839.304	787.983	742.499	709.064	690.580
38.0	1307.247	1254.696	1141.390	983.700	831.048	779.645	734.078	700.974	681.831
38.5	1302.081	1251.845	1134.590	976.917	822.629	771.142	725.823	692.555	673.163
39.0	1299.553	1249.820	1130.186	969.308	814.043	762.971	717.402	684.299	664.742
39.5	1295.957	1245.237	1130.816	962.444	805.705	754.633	709.312	675.879	656.404
40.0	1295.000	1242.386	1125.748	955.661	797.120	746.047	701.141	667.625	648.314
40.5	1289.996	1239.373	1120.679	948.052	788.536	737.711	692.637	659.368	639.976
41.0	1286.238	1235.032	1115.450	941.188	780.198	729.373	684.382	651.031	631.476
41.5	1282.059	1231.275	1110.381	933.741	771.447	720.706	675.961	642.941	623.301
42.0	1281.021	1228.262	1104.326	927.039	762.944	712.779	667.707	634.522	615.130
42.5	1277.587	1224.586	1099.177	920.337	754.358	704.360	659.369	626.101	607.038
43.0	1273.328	1218.351	1093.866	913.796	745.774	695.857	651.114	618.176	598.456
43.5	1271.302	1215.420	1088.798	906.349	736.775	687.354	642.611	609.675	590.446
44.0	1266.962	1211.662	1082.904	898.902	728.355	679.017	634.108	601.337	582.603
44.5	1263.528	1207.985	1076.768	891.375	719.604	670.762	625.771	593.165	574.432
45.0	1261.000	1205.054	1071.700	884.592	711.018	662.013	617.516	584.745	566.424
45.5	1255.591	1199.726	1065.726	877.148	702.434	653.591	608.930	576.654	558.005
46.0	1255.217	1196.049	1059.751	869.787	693.683	645.087	600.674	568.481	549.915
46.5	1250.213	1193.943	1054.602	862.342	685.013	636.668	592.171	560.145	542.155
47.0	1248.349	1192.662	1048.627	854.733	676.017	628.248	583.833	552.136	534.314
47.5	1245.579	1189.228	1042.572	847.534	667.101	619.662	575.497	543.882	525.976
48.0	1242.226	1184.402	1036.840	840.335	658.267	610.830	567.322	536.039	517.885
48.5	1236.817	1180.062	1030.623	833.053	649.599	602.245	558.821	527.868	509.878
49.0	1233.464	1175.479	1024.729	825.523	640.932	593.742	550.483	519.942	501.705
49.5	1230.191	1170.896	1018.674	817.995	632.182	585.404	542.310	511.936	493.944
50.0	1230.643	1167.300	1012.618	810.633	623.348	576.902	534.139	503.929	485.772
50.5	1224.732	1162.717	1006.725	803.026	614.597	568.151	525.718	496.332	477.848
51.0	1223.613	1158.296	1000.831	795.665	605.929	559.731	517.545	488.243	469.842
51.5	1219.515	1153.794	993.950	788.054	597.261	551.062	509.207	480.235	462.082
52.0	1215.417	1148.385	987.814	780.117	588.427	542.724	501.199	472.394	454.487
52.5	1211.902	1143.883	981.920	772.674	579.759	534.305	493.028	464.552	446.561
53.0	1207.562	1139.219	975.120	764.900	571.008	525.720	484.772	456.709	438.553
53.5	1203.221	1134.798	968.982	757.210	562.505	517.051	476.517	448.949	430.547
54.0	1199.204	1130.134	962.596	749.354	553.674	508.713	468.344	440.941	423.446
54.5	1194.864	1125.049	955.962	741.415	545.170	500.458	460.255	433.265	415.607

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CANDELA TABULATION - (Cont.)

55.0	1190.685	1120.385	949.658	733.726	536.502	491.874	452.082	425.340	407.680
55.5	1186.426	1114.977	943.435	725.704	527.916	483.207	443.994	417.497	400.085
56.0	1182.247	1110.474	936.966	717.932	519.166	474.867	435.984	409.984	392.078
56.5	1178.230	1105.066	930.249	709.828	510.496	466.366	427.648	401.894	384.731
57.0	1173.970	1100.645	923.617	701.807	501.746	458.026	419.886	394.466	377.464
57.5	1168.885	1095.317	917.227	693.787	493.159	449.361	411.962	386.458	369.458
58.0	1164.383	1089.827	910.676	685.518	484.245	440.939	403.789	378.945	361.781
58.5	1160.366	1084.500	903.963	677.498	475.494	432.601	395.947	371.268	354.021
59.0	1156.106	1079.334	897.000	669.229	466.578	424.182	388.104	363.508	346.673
59.5	1151.102	1073.763	890.527	660.962	457.579	415.679	380.344	355.995	339.161
60.0	1145.694	1068.355	883.565	652.942	448.746	407.095	372.584	348.400	331.566
60.5	1140.770	1063.027	877.097	644.922	439.995	398.674	364.660	340.888	323.971
61.0	1136.511	1057.615	870.381	637.066	431.327	390.171	356.735	333.292	316.458
61.5	1131.345	1052.207	863.665	628.964	422.494	381.916	348.809	325.697	308.863
62.0	1125.353	1046.468	856.619	620.695	413.824	373.414	341.214	318.104	301.598
62.5	1120.268	1040.808	849.982	612.592	404.908	365.076	333.289	310.426	293.921
63.0	1115.183	1035.396	843.352	604.490	396.322	356.490	325.365	302.914	286.573
63.5	1110.098	1029.410	836.636	596.386	387.571	347.987	317.604	295.482	278.978
64.0	1105.093	1023.589	829.590	588.284	378.820	339.897	309.761	287.805	271.880
64.5	1099.183	1017.850	822.959	580.182	370.154	331.476	301.753	280.292	265.026
65.0	1093.521	1012.111	815.667	571.749	361.403	323.221	293.745	272.862	257.349
65.5	1087.781	1006.042	808.949	563.399	352.570	314.800	286.068	265.350	250.084
66.0	1082.200	999.806	802.151	555.299	343.982	306.381	278.060	258.002	242.984
66.5	1076.947	993.822	794.943	547.114	335.398	297.961	270.384	250.407	235.884
67.0	1071.036	987.833	788.225	538.929	326.811	289.705	262.870	243.142	229.032
67.5	1065.292	981.845	781.014	530.496	318.223	281.615	255.192	235.795	221.850
68.0	1059.629	975.615	773.972	522.148	309.226	273.607	247.434	228.530	214.503
68.5	1053.636	969.379	767.010	513.881	300.558	265.186	239.673	221.265	207.238
69.0	1048.389	963.229	759.716	505.780	292.055	257.178	231.996	214.001	200.551
69.5	1042.478	957.242	752.918	497.760	283.552	248.923	224.729	206.901	193.616
70.0	1036.896	951.005	745.627	489.741	274.966	240.915	217.218	199.801	186.680
70.5	1031.149	944.690	738.581	481.638	266.465	232.744	209.789	192.536	179.499
71.0	1025.568	938.454	731.454	473.294	257.877	224.819	202.359	185.684	172.565
71.5	1019.902	932.218	724.001	465.276	249.787	216.893	195.095	178.832	165.713
72.0	1013.752	925.577	717.037	457.503	241.365	208.968	187.829	171.980	159.437
72.5	1007.921	919.504	709.910	449.568	232.368	201.125	180.647	165.376	152.420
73.0	1001.852	913.107	702.948	441.878	224.276	193.448	173.629	158.441	145.815
73.5	995.939	906.544	695.907	433.941	215.939	186.018	166.530	151.672	139.046
74.0	990.109	900.227	688.617	426.007	207.765	178.505	159.513	145.231	132.608
74.5	983.793	893.587	681.571	418.156	199.839	171.075	152.660	138.709	126.582
75.0	977.800	887.271	674.203	410.548	191.832	163.645	145.891	132.271	120.060
75.5	971.645	880.708	667.162	402.616	183.987	156.381	139.120	125.667	113.866
76.0	965.409	874.393	660.448	394.847	176.144	149.281	132.269	119.475	107.840
76.5	959.165	867.750	653.244	387.484	168.302	142.264	125.500	113.036	101.898
77.0	952.846	861.519	646.203	379.635	160.705	135.246	119.224	107.009	96.365
77.5	946.526	854.960	639.164	372.356	152.945	128.312	112.704	100.900	90.586
78.0	940.373	848.646	632.369	364.918	145.680	121.377	106.347	95.039	84.972
78.5	933.723	842.091	625.654	357.887	138.333	114.608	100.073	89.258	79.358
79.0	927.488	835.368	618.780	350.450	131.231	108.086	93.881	83.479	73.662
79.5	921.168	829.056	612.068	343.258	124.049	101.647	87.853	77.701	68.461
80.0	914.690	822.662	605.278	336.151	116.947	95.371	81.992	72.252	63.178
80.5	908.208	816.191	598.485	329.452	110.095	89.097	76.213	66.803	58.059
81.0	902.138	809.962	592.187	322.755	103.489	82.987	70.599	61.520	52.776
81.5	895.902	803.239	585.644	316.060	97.050	77.124	65.066	56.319	47.657
82.0	889.585	797.012	579.346	309.364	90.693	71.345	59.537	51.200	42.871
82.5	883.922	791.362	573.134	302.915	84.337	65.814	54.417	46.493	38.327

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CANDELA TABULATION - (Cont.)

83.0	877.774	785.298	566.757	296.876	78.227	60.201	49.298	41.705	33.623
83.5	871.954	779.152	560.545	290.921	72.366	54.750	44.427	36.999	29.082
84.0	866.296	773.337	554.664	284.970	66.670	49.549	39.639	32.459	24.623
84.5	860.473	767.359	548.701	279.017	61.056	44.513	34.769	27.918	20.497
85.0	854.981	761.299	542.821	273.395	55.607	39.643	30.145	23.708	16.780
85.5	849.569	755.730	536.691	267.773	50.241	34.772	25.686	19.663	13.478
86.0	844.162	750.404	530.811	262.398	45.040	30.066	21.393	16.030	11.084
86.5	839.156	745.563	525.506	257.024	40.004	25.524	17.265	13.222	9.431
87.0	834.554	742.183	520.274	252.060	35.216	21.066	13.633	10.993	8.358
87.5	831.246	739.613	516.345	246.933	30.428	16.772	11.072	9.588	7.696
88.0	829.645	738.421	513.544	241.887	25.557	12.561	9.256	8.597	7.362
88.5	828.439	737.549	511.793	237.486	20.687	9.094	8.263	7.854	6.951
89.0	827.723	737.330	511.345	234.463	15.732	7.443	7.685	7.605	6.867
89.5	827.579	737.193	510.977	233.462	11.518	6.863	7.438	7.357	6.784
90.0	827.674	737.136	511.020	233.520	9.852	6.698	7.353	7.355	6.865
90.5	827.037	737.328	511.067	233.989	11.703	6.696	7.352	7.353	6.781
91.0	827.383	737.932	511.685	236.187	15.744	6.776	7.269	7.434	6.781
91.5	827.565	739.029	513.045	240.037	20.595	8.069	7.350	7.352	6.698
92.0	828.572	740.785	516.135	244.632	25.285	10.412	7.593	7.269	6.860
92.5	829.659	743.773	520.378	249.228	29.811	14.213	8.238	7.512	7.022
93.0	831.900	747.509	525.443	254.557	34.337	18.660	9.855	7.835	7.588
93.5	834.801	752.228	530.839	259.314	39.027	23.107	12.604	8.723	8.881
94.0	839.103	757.606	536.392	264.721	43.959	27.635	16.323	10.502	11.388
94.5	844.311	763.069	541.617	270.048	48.972	31.999	20.609	13.333	14.865
95.0	849.765	768.936	547.743	275.371	54.147	36.770	24.973	16.728	18.744
95.5	855.219	774.885	553.622	280.939	59.483	41.623	29.501	20.851	23.193
96.0	860.919	780.423	559.417	286.668	64.982	46.472	34.354	25.300	27.559
96.5	866.454	786.125	565.376	292.643	70.640	51.566	39.125	29.745	32.249
97.0	872.070	791.911	571.336	298.697	76.461	56.660	44.057	34.435	37.019
97.5	877.849	797.853	577.376	304.749	82.527	62.078	49.070	39.369	41.709
98.0	883.459	803.798	583.420	311.206	88.509	67.576	54.083	44.139	46.477
98.5	889.399	809.903	589.785	317.745	94.898	73.236	59.337	49.151	51.654
99.0	895.255	816.092	596.151	324.200	101.528	79.300	64.756	54.245	56.829
99.5	901.113	822.115	602.595	330.982	108.157	85.283	70.333	59.583	62.248
100.0	906.968	828.302	609.204	337.841	114.949	91.590	75.912	64.919	67.421
100.5	912.825	834.568	615.727	344.702	121.902	97.897	81.734	70.256	72.919
101.0	919.007	840.672	622.416	351.805	129.019	104.203	87.800	75.754	78.336
101.5	924.700	846.772	629.019	358.827	136.214	110.997	93.783	81.333	84.077
102.0	930.878	853.123	635.947	366.012	143.572	117.300	100.009	87.074	89.981
102.5	936.814	859.226	642.631	373.113	150.929	124.417	106.235	92.976	95.803
103.0	942.916	865.490	649.396	380.298	158.612	132.826	112.623	98.879	101.786
103.5	949.012	871.675	656.241	387.642	166.375	139.780	119.091	104.943	107.689
104.0	955.116	877.857	663.170	395.150	173.975	145.681	125.559	111.090	113.995
104.5	961.047	884.367	670.012	402.494	181.737	153.121	132.351	117.395	120.302
105.0	967.310	890.470	676.776	409.838	189.823	160.236	139.064	123.784	126.690
105.5	972.676	896.734	683.782	417.346	197.829	167.756	145.854	130.172	133.077
106.0	978.853	902.998	690.545	424.933	205.913	176.165	152.810	136.640	139.628
106.5	984.627	909.018	697.308	432.602	214.243	184.897	159.844	143.191	146.095
107.0	990.643	915.202	704.152	440.027	222.409	191.285	166.798	149.900	153.131
107.5	996.660	921.464	710.915	447.697	230.737	198.158	174.075	156.531	159.681
108.0	1002.432	927.565	717.924	455.526	239.067	205.920	181.190	163.648	166.553
108.5	1008.122	933.666	724.848	463.357	247.557	213.845	188.386	170.438	173.347
109.0	1014.219	939.524	731.694	471.106	255.966	221.687	195.825	177.555	180.300
109.5	1019.828	946.036	738.536	478.773	264.375	229.612	203.184	184.428	187.173
110.0	1025.681	951.730	745.220	486.766	272.946	237.617	210.461	191.543	194.371
110.5	1031.373	957.834	751.658	494.596	281.517	245.622	217.981	198.658	201.405

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CANDELA TABULATION - (Cont.)

111.0	1037.145	963.530	758.419	502.427	290.168	253.709	225.500	205.856	208.602
111.5	1042.759	969.469	765.266	510.420	298.820	261.795	232.939	213.133	215.474
112.0	1048.126	975.412	771.945	518.330	307.471	269.961	240.621	220.410	222.426
112.5	1053.898	981.272	778.791	526.402	316.367	278.289	248.383	227.606	229.543
113.0	1059.099	987.132	785.555	534.312	324.938	286.617	255.983	234.802	236.820
113.5	1064.792	992.911	792.234	542.548	333.589	295.028	263.826	242.241	244.259
114.0	1070.238	998.443	798.915	550.458	342.483	303.275	271.833	249.599	251.536
114.5	1075.604	1004.139	805.597	558.449	351.054	311.765	281.372	257.201	258.813
115.0	1080.647	1009.920	812.279	566.523	359.788	320.176	291.560	264.721	266.253
115.5	1085.774	1015.617	818.878	574.514	368.602	328.746	298.837	272.078	273.450
116.0	1091.301	1020.907	825.643	582.505	377.415	337.155	303.851	279.598	281.293
116.5	1096.266	1026.607	831.997	590.498	386.066	345.564	310.805	287.118	288.651
117.0	1101.793	1032.305	838.842	598.570	394.881	354.297	320.024	294.799	296.334
117.5	1106.676	1037.513	845.278	606.480	403.856	362.627	330.374	302.157	303.609
118.0	1111.558	1043.127	851.797	614.554	412.427	371.359	338.619	309.921	311.211
118.5	1116.194	1048.341	858.641	622.462	421.321	379.932	344.283	317.277	318.731
119.0	1121.159	1053.389	865.000	630.536	430.136	388.341	350.589	325.202	326.494
119.5	1126.125	1059.245	871.517	638.446	438.949	396.669	358.352	332.803	333.770
120.0	1130.842	1064.541	877.955	646.276	447.926	405.159	366.275	340.565	341.857
120.5	1135.643	1069.671	884.393	653.943	456.659	413.812	374.280	348.248	349.296
121.0	1140.443	1074.720	890.913	661.934	465.148	422.221	382.204	356.091	356.898
121.5	1145.326	1080.015	897.189	669.681	474.042	430.549	390.128	365.389	364.498
122.0	1149.318	1085.146	903.629	677.674	482.856	438.960	398.377	375.983	372.260
122.5	1154.283	1089.303	909.822	685.423	491.507	447.288	406.301	385.037	380.103
123.0	1159.166	1094.598	916.179	693.169	500.241	455.860	414.388	391.022	387.866
123.5	1164.049	1099.564	922.621	700.837	509.055	464.188	422.474	398.219	395.870
124.0	1168.124	1103.968	929.057	708.505	517.625	472.678	430.642	407.599	406.626
124.5	1173.007	1109.016	935.249	716.334	526.440	481.251	438.727	415.523	420.616
125.0	1177.246	1114.230	941.690	724.081	535.011	489.417	446.974	420.860	429.589
125.5	1181.238	1118.552	948.045	731.831	543.824	497.907	455.062	426.521	433.795
126.0	1186.038	1123.682	954.000	739.255	552.395	506.316	463.228	434.039	435.250
126.5	1190.030	1128.169	960.352	746.842	560.966	514.565	471.233	441.803	442.042
127.0	1194.269	1133.300	967.116	754.428	569.700	523.135	479.318	449.648	449.804
127.5	1198.426	1137.622	972.907	761.773	578.351	531.464	487.487	457.410	457.649
128.0	1202.418	1142.027	978.533	769.439	586.841	540.034	495.736	465.253	465.654
128.5	1206.575	1147.157	985.215	777.026	595.656	548.607	503.577	473.179	473.497
129.0	1210.732	1151.562	991.006	784.451	604.389	556.935	512.068	481.262	481.502
129.5	1210.681	1155.884	996.797	791.957	613.040	565.344	520.397	489.107	489.506
130.0	1214.920	1160.206	1003.480	799.463	621.611	573.753	528.644	496.950	497.513
130.5	1217.460	1164.528	1009.188	807.050	630.183	582.325	536.893	504.793	505.598
131.0	1221.452	1167.959	1014.979	814.392	638.916	590.734	544.896	512.719	513.522
131.5	1222.457	1171.720	1020.770	821.817	647.729	599.062	553.064	520.804	521.529
132.0	1228.792	1175.233	1026.561	829.162	656.381	607.391	561.473	528.809	529.776
132.5	1233.032	1178.664	1032.352	836.506	665.196	615.882	569.639	536.814	537.777
133.0	1234.846	1181.617	1038.143	843.688	673.928	624.210	578.129	544.658	545.787
133.5	1238.837	1184.322	1043.934	851.112	682.420	632.702	586.296	553.714	553.792
134.0	1244.611	1189.535	1049.643	858.619	690.990	641.192	594.706	561.638	562.041
134.5	1246.343	1193.048	1054.625	865.962	699.642	649.439	603.035	569.725	569.963
135.0	1250.417	1198.262	1060.416	873.470	708.293	658.090	611.199	577.892	578.456
135.5	1255.465	1200.884	1066.207	880.004	716.947	666.580	619.612	586.141	586.297
136.0	1257.114	1204.480	1071.750	887.511	725.517	675.072	627.778	593.982	594.546
136.5	1262.805	1208.076	1076.898	894.771	734.007	683.237	636.025	602.150	602.386
137.0	1262.919	1212.315	1081.798	902.197	742.660	691.807	644.354	610.157	610.962
137.5	1267.637	1216.720	1087.672	908.896	751.071	700.383	652.358	618.158	619.047
138.0	1269.368	1219.425	1090.789	916.073	759.556	708.625	660.520	626.161	626.634
138.5	1274.334	1224.638	1095.046	922.690	767.724	716.953	668.851	634.654	635.293

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CANDELA TABULATION - (Cont.)

139.0	1277.121	1226.617	1100.837	930.032	776.133	725.039	677.018	642.659	643.542
139.5	1279.413	1230.048	1104.928	936.484	784.626	733.531	685.186	650.827	651.710
140.0	1281.953	1233.726	1109.993	943.018	792.954	741.616	693.110	658.832	659.797
140.5	1286.193	1237.405	1112.550	950.278	801.365	750.027	701.520	667.242	668.531
141.0	1288.650	1240.918	1116.724	956.729	809.938	758.195	709.848	675.813	677.102
141.5	1291.998	1242.171	1122.515	963.989	818.427	766.442	718.015	684.222	685.430
142.0	1293.895	1246.659	1126.606	970.523	826.513	774.690	726.179	692.631	693.839
142.5	1296.435	1250.172	1131.671	976.975	834.598	782.775	734.265	700.636	702.248
143.0	1300.426	1252.794	1135.763	983.591	842.684	791.022	742.351	708.721	710.576
143.5	1303.857	1254.773	1139.936	990.208	851.578	799.431	750.760	717.292	718.987
144.0	1302.354	1257.643	1144.919	996.825	859.746	807.679	758.843	725.699	727.394
144.5	1306.759	1261.322	1149.093	1003.359	867.914	815.441	767.092	734.028	735.803
145.0	1310.833	1264.109	1152.458	1009.249	876.000	823.526	775.178	742.113	744.537
145.5	1311.030	1266.897	1158.249	1015.866	884.086	831.694	783.262	750.441	752.623
146.0	1313.487	1268.711	1161.532	1021.756	891.445	839.780	791.186	758.527	760.951
146.5	1317.974	1272.389	1165.788	1025.947	899.531	847.866	799.191	766.772	769.279
147.0	1319.788	1274.203	1169.880	1031.755	907.616	855.951	807.519	774.937	777.686
147.5	1323.219	1277.964	1173.328	1036.029	914.976	864.202	815.523	783.184	785.772
148.0	1323.251	1278.326	1177.502	1041.028	923.061	872.205	823.609	791.432	794.262
148.5	1323.530	1280.305	1180.058	1047.645	930.421	879.482	831.777	799.679	802.511
149.0	1325.987	1283.983	1184.232	1053.453	938.589	886.841	839.780	807.763	810.918
149.5	1327.240	1282.728	1186.789	1057.726	945.866	895.010	847.866	815.606	819.005
150.0	1327.998	1286.242	1190.963	1064.425	953.143	903.095	855.951	823.691	827.899
150.5	1330.620	1288.220	1196.028	1069.507	960.420	910.455	864.037	832.586	835.985
151.0	1330.734	1290.199	1197.050	1075.398	967.780	917.732	871.396	840.589	844.797
151.5	1333.439	1290.644	1202.033	1080.397	975.139	925.817	879.482	848.757	852.965
152.0	1333.636	1291.897	1203.864	1086.288	982.499	933.177	887.567	856.760	861.776
152.5	1332.941	1293.876	1207.312	1090.561	989.776	940.454	895.736	864.845	869.944
153.0	1333.138	1294.237	1210.759	1096.452	996.327	947.813	902.930	872.122	878.030
153.5	1335.760	1296.299	1213.316	1101.534	1000.452	955.091	911.098	881.016	886.115
154.0	1334.340	1297.552	1215.147	1107.425	1008.538	963.259	918.375	889.019	895.092
154.5	1336.154	1297.996	1216.813	1111.698	1014.198	969.727	926.461	897.105	903.260
155.0	1337.885	1299.166	1220.095	1115.971	1019.132	977.169	933.820	904.382	911.263
155.5	1337.356	1298.885	1222.405	1121.136	1024.874	984.364	941.906	912.468	919.431
156.0	1335.044	1300.138	1223.905	1125.327	1032.151	991.806	949.265	920.553	927.434
156.5	1336.858	1301.473	1225.571	1130.491	1037.894	995.849	956.543	928.556	934.711
157.0	1337.698	1301.026	1228.045	1134.848	1044.445	1003.208	963.820	935.833	942.880
157.5	1333.983	1301.553	1229.711	1138.230	1050.104	1009.677	971.988	943.919	950.965
158.0	1334.228	1299.655	1231.624	1142.503	1055.847	1016.145	979.265	952.004	959.051
158.5	1332.065	1300.181	1232.729	1146.051	1062.315	1021.079	985.733	959.281	966.328
159.0	1329.836	1300.708	1234.642	1150.324	1068.058	1027.547	990.584	966.558	974.413
159.5	1331.980	1301.153	1235.747	1154.680	1072.909	1034.824	1000.370	974.644	981.690
160.0	1329.338	1300.706	1236.934	1158.145	1079.460	1040.567	1004.413	981.921	989.776
160.5	1327.439	1300.177	1238.930	1160.884	1084.394	1047.118	1011.772	989.198	997.135
161.0	1328.114	1300.291	1240.118	1164.431	1088.437	1052.778	1017.432	994.858	1005.139
161.5	1326.546	1297.336	1242.031	1167.896	1094.905	1059.246	1022.366	1002.135	1011.607
162.0	1325.473	1296.080	1240.067	1171.444	1098.948	1064.989	1029.643	1009.412	1014.676
162.5	1322.435	1294.099	1242.871	1172.566	1105.499	1071.540	1035.303	1015.072	1021.788
163.0	1321.575	1295.435	1242.524	1176.922	1109.624	1078.008	1043.471	1020.732	1028.009
163.5	1320.073	1292.810	1242.985	1178.769	1115.284	1082.942	1049.131	1028.009	1035.203
164.0	1320.517	1292.776	1244.173	1181.508	1119.327	1087.793	1054.791	1034.477	1041.589
164.5	1317.892	1290.234	1243.825	1183.356	1124.261	1093.453	1062.150	1041.837	1050.318
165.0	1315.350	1290.117	1244.287	1186.095	1129.112	1099.922	1068.619	1047.497	1056.787
165.5	1311.191	1285.958	1244.022	1188.751	1134.046	1104.047	1073.470	1053.157	1062.447
166.0	1311.157	1284.389	1243.592	1191.490	1138.089	1108.898	1079.213	1060.434	1070.367
166.5	1309.340	1282.738	1244.136	1194.229	1141.323	1114.641	1085.598	1066.902	1077.644

CANDELA TABULATION - (Cont.)

167.0	1307.359	1281.087	1243.063	1193.816	1145.449	1118.684	1092.149	1072.645	1084.112
167.5	1303.843	1277.984	1242.798	1195.829	1148.765	1123.535	1096.192	1080.004	1089.772
168.0	1298.232	1275.607	1242.534	1197.842	1152.808	1128.469	1102.743	1086.473	1096.323
168.5	1297.389	1273.708	1242.269	1199.938	1156.851	1133.320	1109.294	1093.024	1102.709
169.0	1292.504	1270.918	1240.387	1198.716	1160.976	1138.172	1113.254	1097.875	1108.287
169.5	1290.044	1267.898	1240.123	1201.455	1163.319	1141.406	1119.723	1105.152	1113.055
170.0	1287.585	1264.795	1239.049	1201.934	1165.745	1146.340	1124.657	1110.003	1119.524
170.5	1285.208	1263.391	1236.442	1203.220	1168.253	1150.383	1128.782	1115.746	1125.266
171.0	1280.240	1260.453	1237.068	1203.781	1169.870	1154.425	1132.908	1121.406	1130.200
171.5	1276.328	1257.515	1233.569	1204.342	1173.996	1156.934	1137.841	1127.231	1136.669
172.0	1274.199	1253.851	1233.470	1205.629	1177.313	1160.976	1142.693	1130.465	1141.355
172.5	1270.369	1250.270	1230.862	1205.381	1179.656	1165.019	1147.544	1136.933	1147.741
173.0	1265.006	1247.332	1228.419	1205.216	1181.355	1169.062	1152.395	1141.785	1150.892
173.5	1262.150	1243.668	1227.676	1206.668	1182.890	1170.679	1156.438	1145.827	1156.635
174.0	1259.130	1240.812	1224.425	1206.503	1183.699	1174.722	1159.672	1150.761	1162.212
174.5	1254.410	1235.614	1222.147	1206.338	1186.207	1178.765	1163.633	1155.613	1164.638
175.0	1249.689	1232.032	1219.870	1204.638	1188.632	1181.190	1166.867	1159.573	1169.407
175.5	1245.052	1228.616	1217.675	1206.256	1190.167	1182.725	1170.992	1163.698	1172.641
176.0	1243.813	1225.282	1215.562	1206.173	1191.867	1186.042	1174.952	1167.824	1179.192
176.5	1237.080	1220.496	1213.533	1205.447	1192.593	1187.659	1179.886	1171.949	1181.700
177.0	1233.581	1217.493	1210.051	1205.447	1192.758	1190.084	1180.695	1175.909	1185.743
177.5	1228.383	1212.955	1209.077	1203.830	1194.292	1190.893	1184.738	1179.143	1188.086
178.0	1223.514	1210.199	1207.377	1203.830	1195.101	1193.319	1187.081	1184.077	1194.637
178.5	1218.333	1205.182	1204.952	1203.021	1195.101	1195.744	1189.507	1187.229	1198.597
179.0	1214.851	1203.483	1201.717	1203.021	1195.909	1196.553	1193.632	1190.463	1200.214
179.5	1211.534	1200.331	1200.100	1201.404	1195.909	1198.170	1195.249	1192.971	1206.765
180.0	1198.962	1198.962	1198.962	1198.962	1198.962	1198.962	1198.962	1198.962	1198.962

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L38-850U-L38-850D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	445.14	N.A.	5.50
0-30	945.60	N.A.	11.70
0-40	1551.12	N.A.	19.20
0-60	2809.44	N.A.	34.70
0-80	3762.67	N.A.	46.50
0-90	4062.1	N.A.	50.20
10-90	3947.11	N.A.	48.80
20-40	1105.98	N.A.	13.70
20-50	1748.03	N.A.	21.60
40-70	1794.07	N.A.	22.20
60-80	953.23	N.A.	11.80
70-80	417.48	N.A.	5.20
80-90	299.43	N.A.	3.70
90-110	714.22	N.A.	8.80
90-120	1246.2	N.A.	15.40
90-130	1858.11	N.A.	23.00
90-150	3095.32	N.A.	38.20
90-180	4030.41	N.A.	49.80
110-180	3316.2	N.A.	41.00
0-180	8092.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.99
10-20	330.15
20-30	500.45
30-40	605.53
40-50	642.05
50-60	616.26
60-70	535.76
70-80	417.48
80-90	299.43
90-100	298.99
100-110	415.22
110-120	531.98
120-130	611.91
130-140	637.14
140-150	600.07
150-160	495.12
160-170	326.27
170-180	113.70

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-850U-L38-850D-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-L38-850U-L38-850D-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	22.0	22.9	23.0	23.9	25.2	UGR Viewed Endwise			
	3H	25.1	25.9	26.1	26.9	28.2	16.1	17.0	17.0	18.0
	4H	26.7	27.5	27.7	28.5	29.7	17.4	18.3	18.4	19.2
	6H	28.4	29.1	29.3	30.1	31.4	17.9	18.6	18.8	19.6
	8H	29.2	29.9	30.2	31.0	32.3	18.1	18.8	19.1	19.8
	12H	30.2	30.9	31.2	31.9	33.2	18.2	18.8	19.1	19.9

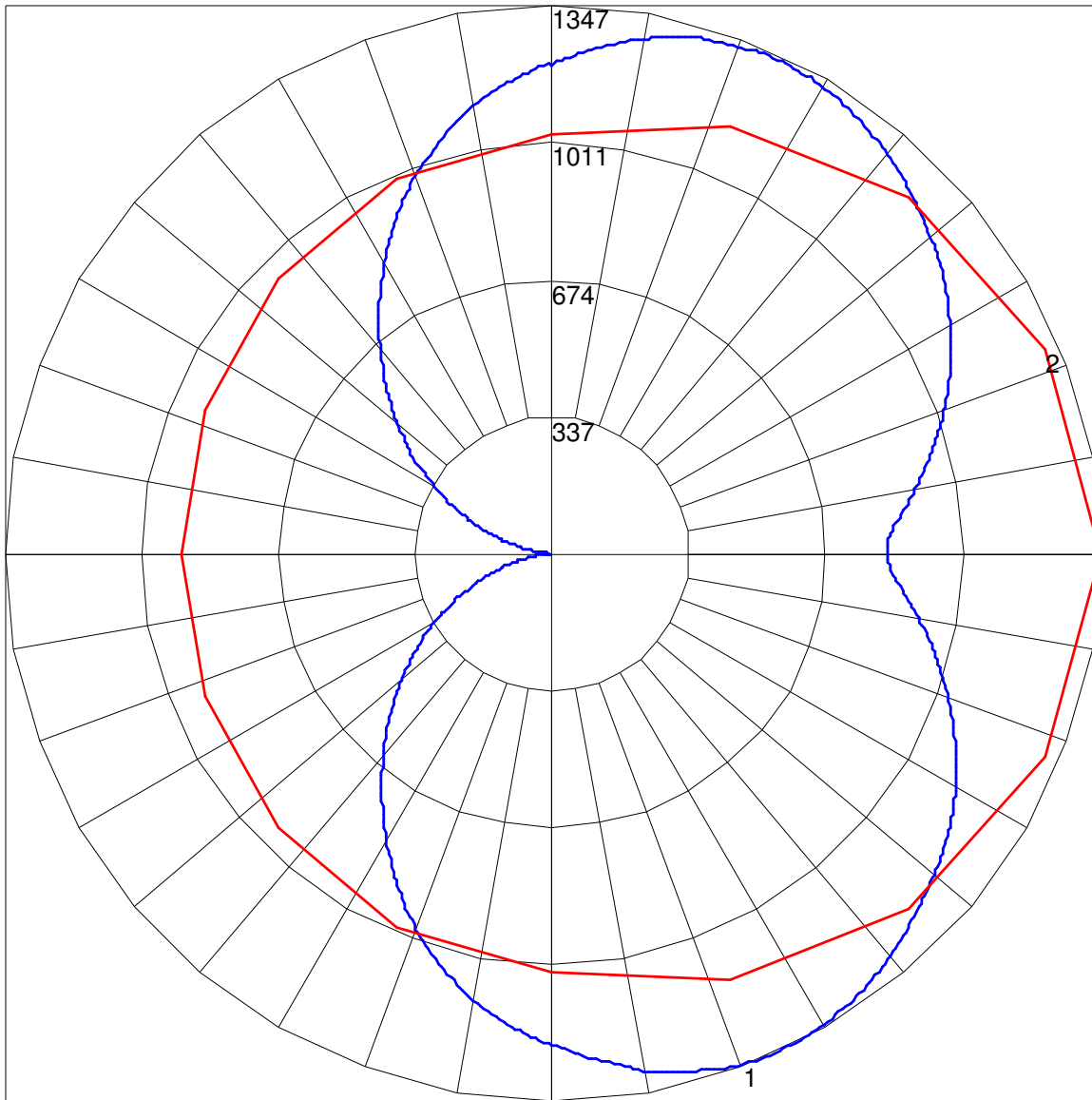
4H	2H	22.3	23.1	23.3	24.1	25.4	18.2	18.8	19.2	19.8
	3H	25.6	26.3	26.6	27.3	28.6	17.3	18.1	18.3	19.1
	4H	27.4	28.0	28.4	29.0	30.3	19.0	19.6	19.9	20.6
	6H	29.3	29.8	30.3	30.8	32.1	19.5	20.1	20.5	21.1
	8H	30.2	30.7	31.3	31.8	33.1	19.9	20.4	20.9	21.5
	12H	31.3	31.8	32.4	32.8	34.2	20.0	20.5	21.0	21.5

8H	4H	27.5	28.0	28.5	29.0	30.4	20.0	20.5	21.0	21.5
	6H	29.6	30.0	30.6	31.0	32.4	20.6	21.1	21.6	22.2
	8H	30.7	31.1	31.7	32.1	33.5	21.3	21.7	22.3	22.7
	12H	32.0	32.3	33.0	33.4	34.8	21.5	21.9	22.5	22.9

12H	4H	27.5	27.9	28.5	29.0	30.3	21.6	21.9	22.6	23.0
	6H	29.6	29.9	30.6	31.0	32.4	21.0	21.4	22.0	22.5
	8H	30.8	31.1	31.8	32.1	33.5	21.8	22.2	22.8	23.2

Maximum UGR = 34.8

POLAR GRAPH



Maximum Candela = 1347.403 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.)