

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-827U-L38-827D-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-L38-827U-L38-827D-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	7405
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	20388	19203	18308
55	20268	18351	16719
65	20303	17686	14832
75	20656	17249	12062
85	21713	17586	7992

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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	1108.278	1108.278	1108.278	1108.278	1108.278	1108.278	1108.278	1108.278	1108.278
0.5	1109.835	1111.685	1109.625	1113.846	1106.292	1112.039	1104.574	1104.516	1104.621
1.0	1112.857	1114.321	1113.698	1114.750	1105.610	1110.380	1101.404	1101.346	1101.525
1.5	1116.856	1117.861	1114.898	1117.164	1105.610	1107.285	1099.746	1097.495	1096.237
2.0	1120.248	1122.230	1117.608	1117.386	1104.781	1104.944	1096.724	1094.399	1093.141
2.5	1125.151	1125.236	1121.222	1118.363	1104.025	1103.433	1093.702	1092.133	1090.193
3.0	1128.394	1129.754	1124.080	1118.585	1103.270	1101.922	1091.436	1087.600	1086.342
3.5	1132.690	1133.737	1126.183	1121.148	1103.270	1098.827	1087.658	1084.504	1084.076
4.0	1138.348	1137.721	1129.797	1121.370	1101.685	1095.805	1086.147	1080.727	1078.787
4.5	1140.910	1141.023	1132.655	1120.910	1100.929	1095.049	1082.370	1076.949	1074.181
5.0	1142.332	1145.155	1135.128	1123.398	1099.419	1091.272	1077.837	1073.098	1069.722
5.5	1147.604	1148.531	1135.942	1123.694	1097.152	1087.495	1075.571	1069.321	1067.456
6.0	1151.144	1151.226	1138.118	1123.235	1095.567	1086.665	1072.549	1066.225	1062.849
6.5	1154.002	1156.335	1140.369	1122.849	1094.130	1083.717	1068.624	1060.863	1058.390
7.0	1156.861	1159.563	1141.865	1122.997	1093.301	1081.303	1064.847	1056.256	1053.028
7.5	1159.777	1162.258	1143.434	1122.686	1089.450	1077.526	1060.314	1052.479	1047.740
8.0	1165.389	1164.197	1145.373	1120.716	1087.183	1073.749	1056.537	1047.872	1042.452
8.5	1170.362	1167.040	1147.312	1121.841	1086.428	1071.482	1052.685	1043.339	1037.237
9.0	1177.157	1170.031	1149.030	1120.626	1082.651	1067.631	1048.079	1037.222	1031.949
9.5	1180.518	1172.636	1150.066	1120.996	1080.310	1063.098	1043.546	1032.615	1030.438
10.0	1184.264	1176.678	1151.028	1119.929	1078.044	1060.002	1039.769	1028.082	1022.128
10.5	1187.936	1179.061	1152.745	1118.788	1074.267	1056.299	1035.162	1022.720	1018.425
11.0	1190.171	1180.763	1153.781	1116.966	1072.682	1052.448	1029.800	1018.943	1013.137
11.5	1192.185	1183.442	1154.061	1115.143	1068.149	1047.915	1025.341	1012.825	1006.338
12.0	1193.442	1185.366	1155.097	1114.832	1065.127	1045.575	1020.734	1007.537	1000.368
12.5	1197.796	1188.801	1155.451	1113.009	1062.787	1039.457	1015.446	1002.249	995.080
13.0	1200.253	1190.651	1155.954	1111.187	1059.765	1035.680	1010.084	996.131	987.673
13.5	1202.177	1193.108	1156.456	1110.120	1054.477	1031.147	1005.477	990.014	983.288
14.0	1205.834	1194.662	1157.033	1108.371	1052.136	1025.029	998.678	983.970	976.711
14.5	1208.365	1196.289	1155.950	1105.720	1048.359	1021.252	993.316	977.926	969.986
15.0	1208.408	1197.088	1156.304	1103.971	1042.997	1016.645	988.028	971.883	963.261
15.5	1209.977	1197.960	1156.199	1100.564	1038.464	1012.039	981.910	965.084	959.484
16.0	1210.643	1199.588	1155.339	1097.764	1034.613	1006.751	977.303	959.040	950.344
16.5	1213.899	1201.216	1156.745	1096.771	1030.836	1001.462	971.260	953.752	945.812
17.0	1217.466	1200.577	1156.640	1093.364	1027.058	995.345	965.897	946.879	941.353
17.5	1218.027	1203.034	1155.705	1089.127	1021.696	991.493	959.024	942.272	933.724
18.0	1220.172	1202.396	1154.771	1087.378	1016.408	983.865	952.225	935.473	928.436
18.5	1223.074	1203.342	1153.614	1084.119	1011.046	979.332	949.129	931.696	921.563
19.0	1222.345	1204.289	1153.361	1081.763	1006.513	973.214	943.086	924.896	914.764
19.5	1225.765	1204.405	1151.449	1078.726	1001.151	968.608	936.213	918.097	907.135
20.0	1227.451	1203.915	1151.196	1074.711	996.618	962.564	933.191	911.298	900.336
20.5	1227.938	1204.861	1148.602	1071.452	992.011	956.446	926.318	904.425	892.708
21.0	1228.350	1204.297	1147.594	1066.977	985.212	950.403	919.519	897.626	885.909
21.5	1229.593	1204.635	1145.756	1064.695	980.606	947.307	913.475	890.071	878.354
22.0	1231.205	1204.367	1143.992	1061.732	974.562	939.752	906.602	883.272	870.726
22.5	1232.136	1204.098	1142.154	1057.865	968.444	934.316	899.729	876.473	863.926
23.0	1231.482	1204.511	1140.390	1053.924	963.082	926.762	892.930	868.919	856.298
23.5	1231.657	1203.709	1139.307	1048.473	956.283	923.740	886.057	861.364	848.743
24.0	1232.514	1203.588	1136.788	1045.583	951.750	917.622	879.184	854.491	840.433
24.5	1233.001	1203.320	1135.024	1041.183	944.877	910.823	872.384	847.010	833.634
25.0	1231.977	1203.125	1131.749	1037.998	942.611	903.876	865.511	839.382	826.006
25.5	1230.197	1201.419	1129.985	1034.131	937.249	897.077	858.712	831.827	817.696
26.0	1230.684	1201.003	1127.466	1027.998	931.960	890.204	851.084	825.028	810.823
26.5	1229.734	1199.075	1125.020	1023.301	925.087	883.405	844.211	817.474	802.439

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CANDELA TABULATION - (Cont.)

27.0	1228.028	1197.903	1123.404	1019.435	918.214	876.458	836.656	809.919	794.884
27.5	1227.982	1197.487	1118.840	1015.568	912.097	869.659	829.783	802.291	787.255
28.0	1228.468	1195.559	1115.862	1008.605	905.297	862.030	822.910	794.736	778.945
28.5	1226.467	1193.632	1113.564	1005.420	899.254	855.231	815.355	787.181	771.317
29.0	1224.835	1193.215	1111.267	999.287	891.699	848.358	807.801	778.871	763.762
29.5	1224.493	1189.777	1108.362	993.005	884.826	840.803	800.172	771.317	755.830
30.0	1223.913	1187.701	1105.309	989.065	877.953	833.101	793.373	763.688	747.976
30.5	1221.985	1185.996	1102.256	983.687	871.154	826.302	785.745	756.058	740.420
31.0	1221.716	1184.824	1099.277	978.161	864.355	818.673	778.190	748.428	732.565
31.5	1220.085	1183.503	1094.713	975.731	857.482	811.118	770.635	740.949	724.785
32.0	1217.550	1181.576	1092.490	969.450	849.927	804.245	763.007	733.166	717.305
32.5	1218.037	1178.893	1088.607	966.265	843.054	796.617	755.377	725.612	709.376
33.0	1213.917	1177.795	1085.406	960.887	836.255	789.062	747.747	717.681	701.443
33.5	1214.626	1174.283	1081.450	954.680	828.626	781.434	740.192	710.051	693.813
34.0	1213.602	1171.674	1076.738	949.228	821.072	773.879	732.564	702.572	685.883
34.5	1211.215	1168.991	1072.026	942.947	813.443	767.006	724.933	694.791	678.177
35.0	1208.384	1166.308	1068.899	936.740	805.889	759.225	717.454	687.161	670.698
35.5	1206.604	1164.454	1065.624	931.288	799.090	751.596	709.975	679.455	662.841
36.0	1203.758	1160.260	1061.061	925.081	791.535	743.966	702.345	671.900	654.986
36.5	1202.126	1157.577	1057.860	918.874	783.225	736.338	694.415	664.497	647.205
37.0	1199.517	1155.724	1052.318	912.592	775.597	728.934	687.011	656.717	639.348
37.5	1197.204	1151.604	1047.533	906.385	768.042	721.079	679.457	648.861	631.946
38.0	1196.254	1148.165	1044.480	900.178	760.487	713.449	671.751	641.457	623.940
38.5	1191.527	1145.556	1038.257	893.971	752.783	705.668	664.196	633.753	616.008
39.0	1189.214	1143.703	1034.227	887.008	744.927	698.190	656.491	626.198	608.302
39.5	1185.923	1139.509	1034.803	880.727	737.296	690.560	649.087	618.493	600.672
40.0	1185.047	1136.900	1030.165	874.520	729.440	682.703	641.610	610.940	593.268
40.5	1180.468	1134.143	1025.527	867.557	721.585	675.075	633.829	603.384	585.638
41.0	1177.029	1130.171	1020.742	861.276	713.954	667.445	626.274	595.755	577.860
41.5	1173.205	1126.733	1016.104	854.461	705.947	659.514	618.568	588.352	570.380
42.0	1172.255	1123.976	1010.562	848.328	698.165	652.260	611.015	580.648	562.902
42.5	1169.113	1120.611	1005.851	842.195	690.309	644.556	603.385	572.942	555.497
43.0	1165.215	1114.906	1000.991	836.210	682.453	636.775	595.831	565.689	547.643
43.5	1163.361	1112.224	996.353	829.395	674.219	628.994	588.049	557.910	540.314
44.0	1159.389	1108.785	990.960	822.581	666.513	621.365	580.268	550.280	533.137
44.5	1156.247	1105.421	985.345	815.692	658.505	613.810	572.640	542.802	525.660
45.0	1153.934	1102.738	980.707	809.485	650.649	605.804	565.085	535.097	518.332
45.5	1148.985	1097.862	975.239	802.673	642.794	598.097	557.228	527.693	510.628
46.0	1148.642	1094.498	969.772	795.937	634.786	590.316	549.674	520.214	503.224
46.5	1144.063	1092.570	965.060	789.124	626.852	582.612	541.893	512.586	496.123
47.0	1142.357	1091.398	959.593	782.161	618.619	574.906	534.263	505.256	488.948
47.5	1139.822	1088.256	954.052	775.573	610.460	567.049	526.634	497.703	481.317
48.0	1136.754	1083.840	948.806	768.985	602.377	558.967	519.153	490.526	473.914
48.5	1131.804	1079.868	943.117	762.322	594.444	551.111	511.374	483.049	466.586
49.0	1128.736	1075.674	937.724	755.432	586.514	543.330	503.744	475.796	459.107
49.5	1125.741	1071.480	932.183	748.543	578.506	535.699	496.265	468.470	452.006
50.0	1126.154	1068.190	926.641	741.805	570.422	527.920	488.787	461.142	444.527
50.5	1120.745	1063.996	921.248	734.844	562.415	519.912	481.082	454.190	437.276
51.0	1119.721	1059.950	915.855	728.108	554.482	512.206	473.603	446.788	429.950
51.5	1115.971	1055.830	909.558	721.144	546.550	504.274	465.972	439.461	422.848
52.0	1112.221	1050.881	903.943	713.881	538.467	496.644	458.644	432.285	415.898
52.5	1109.005	1046.761	898.550	707.069	530.534	488.940	451.167	425.108	408.646
53.0	1105.033	1042.493	892.327	699.956	522.527	481.083	443.612	417.932	401.318
53.5	1101.061	1038.447	886.710	692.919	514.745	473.151	436.058	410.830	393.991
54.0	1097.385	1034.179	880.867	685.730	506.663	465.521	428.579	403.502	387.493
54.5	1093.413	1029.526	874.795	678.465	498.882	457.966	421.177	396.478	380.319

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CANDELA TABULATION - (Cont.)

55.0	1089.589	1025.258	869.027	671.428	490.950	450.111	413.698	389.226	373.065
55.5	1085.691	1020.309	863.332	664.088	483.093	442.180	406.296	382.049	366.115
56.0	1081.867	1016.189	857.413	656.976	475.085	434.549	398.967	375.174	358.789
56.5	1078.191	1011.240	851.265	649.560	467.152	426.769	391.338	367.771	352.065
57.0	1074.294	1007.194	845.197	642.220	459.145	419.137	384.235	360.973	345.416
57.5	1069.640	1002.318	839.349	634.881	451.287	411.208	376.984	353.645	338.089
58.0	1065.520	997.295	833.354	627.314	443.130	403.501	369.505	346.771	331.064
58.5	1061.844	992.420	827.212	619.975	435.122	395.871	362.329	339.745	323.962
59.0	1057.946	987.692	820.839	612.408	426.963	388.167	355.152	332.644	317.239
59.5	1053.367	982.595	814.916	604.842	418.728	380.385	348.050	325.769	310.364
60.0	1048.418	977.646	808.545	597.504	410.645	372.530	340.949	318.819	303.414
60.5	1043.912	972.770	802.626	590.165	402.637	364.825	333.698	311.944	296.464
61.0	1040.014	967.818	796.480	582.976	394.705	357.043	326.446	304.994	289.589
61.5	1035.287	962.868	790.335	575.561	386.622	349.489	319.194	298.044	282.639
62.0	1029.804	957.617	783.887	567.994	378.688	341.709	312.243	291.095	275.991
62.5	1025.151	952.438	777.814	560.580	370.529	334.079	304.991	284.069	268.965
63.0	1020.497	947.485	771.747	553.165	362.672	326.222	297.740	277.195	262.241
63.5	1015.844	942.007	765.601	545.750	354.664	318.441	290.637	270.394	255.291
64.0	1011.265	936.680	759.153	538.335	346.656	311.038	283.460	263.368	248.796
64.5	1005.856	931.429	753.085	530.921	338.726	303.332	276.133	256.494	242.524
65.0	1000.675	926.177	746.412	523.204	330.718	295.777	268.805	249.695	235.498
65.5	995.422	920.623	740.265	515.563	322.634	288.072	261.779	242.820	228.850
66.0	990.315	914.917	734.044	508.151	314.776	280.368	254.451	236.096	222.353
66.5	985.508	909.440	727.448	500.661	306.921	272.662	247.427	229.146	215.856
67.0	980.099	903.961	721.301	493.171	299.063	265.108	240.551	222.498	209.586
67.5	974.843	898.481	714.702	485.454	291.204	257.704	233.525	215.775	203.014
68.0	969.661	892.779	708.257	477.815	282.971	250.376	226.425	209.127	196.290
68.5	964.176	887.073	701.886	470.249	275.039	242.670	219.324	202.479	189.642
69.0	959.375	881.445	695.212	462.837	267.258	235.343	212.298	195.831	183.523
69.5	953.966	875.967	688.991	455.498	259.477	227.788	205.648	189.334	177.177
70.0	948.858	870.259	682.319	448.159	251.620	220.460	198.775	182.837	170.830
70.5	943.599	864.480	675.872	440.745	243.840	212.983	191.976	176.189	164.259
71.0	938.492	858.774	669.350	433.108	235.982	205.730	185.177	169.919	157.913
71.5	933.307	853.068	662.529	425.771	228.579	198.478	178.531	163.648	151.643
72.0	927.679	846.990	656.157	418.659	220.871	191.225	171.881	157.378	145.900
72.5	922.343	841.433	649.635	411.397	212.638	184.049	165.309	151.334	139.478
73.0	916.789	835.579	643.264	404.360	205.233	177.023	158.887	144.988	133.435
73.5	911.378	829.573	636.821	397.097	197.605	170.224	152.390	138.794	127.240
74.0	906.044	823.793	630.150	389.837	190.124	163.349	145.969	132.900	121.349
74.5	900.263	817.717	623.702	382.652	182.872	156.550	139.699	126.932	115.834
75.0	894.779	811.936	616.960	375.690	175.544	149.751	133.504	121.041	109.866
75.5	889.146	805.931	610.516	368.431	168.366	143.103	127.308	114.997	104.199
76.0	883.440	800.152	604.372	361.322	161.189	136.606	121.039	109.331	98.684
76.5	877.726	794.073	597.780	354.585	154.012	130.185	114.844	103.438	93.246
77.0	871.944	788.371	591.337	347.402	147.060	123.763	109.101	97.924	88.183
77.5	866.161	782.369	584.895	340.741	139.959	117.417	103.135	92.333	82.895
78.0	860.530	776.591	578.677	333.934	133.311	111.072	97.318	86.969	77.758
78.5	854.444	770.592	572.533	327.500	126.587	104.877	91.576	81.680	72.620
79.0	848.739	764.440	566.242	320.695	120.089	98.909	85.910	76.392	67.408
79.5	842.956	758.665	560.100	314.113	113.516	93.016	80.394	71.103	62.648
80.0	837.028	752.814	553.886	307.610	107.018	87.273	75.030	66.117	57.814
80.5	831.096	746.891	547.670	301.480	100.748	81.532	69.742	61.131	53.130
81.0	825.541	741.191	541.907	295.352	94.702	75.941	64.605	56.296	48.295
81.5	819.835	735.039	535.920	289.225	88.810	70.576	59.542	51.537	43.611
82.0	814.054	729.341	530.157	283.098	82.993	65.288	54.482	46.853	39.231
82.5	808.872	724.171	524.472	277.196	77.176	60.226	49.796	42.546	35.073

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CANDELA TABULATION - (Cont.)

83.0	803.246	718.622	518.636	271.670	71.585	55.089	45.113	38.164	30.768
83.5	797.920	712.997	512.952	266.220	66.222	50.102	40.655	33.858	26.613
84.0	792.743	707.677	507.569	260.774	61.009	45.342	36.274	29.703	22.532
84.5	787.414	702.206	502.113	255.327	55.872	40.734	31.816	25.548	18.756
85.0	782.388	696.660	496.732	250.182	50.886	36.277	27.586	21.695	15.355
85.5	777.435	691.565	491.123	245.038	45.976	31.820	23.505	17.993	12.334
86.0	772.488	686.691	485.742	240.119	41.216	27.514	19.577	14.669	10.143
86.5	767.907	682.261	480.887	235.201	36.608	23.357	15.799	12.099	8.630
87.0	763.696	679.168	476.100	230.659	32.226	19.277	12.475	10.059	7.648
87.5	760.669	676.816	472.504	225.967	27.845	15.348	10.132	8.774	7.042
88.0	759.203	675.725	469.941	221.350	23.387	11.495	8.470	7.867	6.737
88.5	758.100	674.927	468.338	217.323	18.930	8.322	7.562	7.187	6.361
89.0	757.445	674.727	467.929	214.556	14.396	6.811	7.033	6.959	6.284
89.5	757.313	674.601	467.592	213.640	10.540	6.281	6.806	6.732	6.208
90.0	757.399	674.549	467.631	213.693	9.015	6.129	6.729	6.731	6.282
90.5	756.817	674.725	467.675	214.122	10.709	6.128	6.728	6.729	6.205
91.0	757.133	675.277	468.240	216.133	14.407	6.200	6.652	6.803	6.205
91.5	757.300	676.282	469.484	219.657	18.846	7.384	6.726	6.728	6.129
92.0	758.221	677.888	472.313	223.862	23.138	9.528	6.948	6.652	6.277
92.5	759.216	680.622	476.195	228.067	27.280	13.006	7.538	6.874	6.425
93.0	761.267	684.041	480.830	232.944	31.422	17.075	9.018	7.170	6.943
93.5	763.922	688.360	485.767	237.297	35.713	21.145	11.534	7.982	8.127
94.0	767.858	693.281	490.849	242.245	40.227	25.288	14.937	9.610	10.421
94.5	772.624	698.280	495.631	247.119	44.814	29.282	18.859	12.201	13.602
95.0	777.615	703.649	501.237	251.990	49.549	33.648	22.853	15.307	17.152
95.5	782.606	709.093	506.616	257.086	54.433	38.089	26.996	19.081	21.224
96.0	787.822	714.161	511.919	262.328	59.464	42.527	31.437	23.152	25.219
96.5	792.887	719.378	517.372	267.796	64.642	47.188	35.803	27.220	29.510
97.0	798.026	724.673	522.826	273.336	69.969	51.849	40.316	31.511	33.876
97.5	803.314	730.111	528.354	278.874	75.520	56.807	44.904	36.026	38.167
98.0	808.449	735.551	533.884	284.783	80.994	61.838	49.491	40.392	42.531
98.5	813.884	741.138	539.709	290.767	86.841	67.017	54.299	44.978	47.268
99.0	819.243	746.801	545.534	296.673	92.908	72.567	59.258	49.639	52.004
99.5	824.604	752.313	551.432	302.879	98.974	78.042	64.362	54.524	56.963
100.0	829.962	757.975	557.479	309.156	105.189	83.813	69.467	59.407	61.696
100.5	835.321	763.709	563.449	315.434	111.552	89.585	74.794	64.291	66.728
101.0	840.978	769.295	569.570	321.935	118.065	95.356	80.345	69.322	71.685
101.5	846.188	774.876	575.612	328.361	124.648	101.573	85.820	74.427	76.938
102.0	851.841	780.688	581.952	334.935	131.382	107.341	91.518	79.681	82.341
102.5	857.273	786.273	588.068	341.434	138.115	113.854	97.215	85.082	87.669
103.0	862.857	792.005	594.259	348.008	145.145	121.549	103.060	90.483	93.144
103.5	868.436	797.665	600.523	354.729	152.248	127.912	108.979	96.033	98.545
104.0	874.022	803.322	606.863	361.599	159.204	133.312	114.899	101.658	104.317
104.5	879.449	809.280	613.124	368.320	166.307	140.120	121.114	107.427	110.088
105.0	885.180	814.864	619.314	375.041	173.706	146.631	127.257	113.274	115.933
105.5	890.090	820.596	625.725	381.911	181.032	153.512	133.470	119.119	121.778
106.0	895.742	826.329	631.914	388.854	188.430	161.208	139.835	125.039	127.773
106.5	901.026	831.838	638.103	395.872	196.052	169.199	146.272	131.033	133.691
107.0	906.532	837.496	644.365	402.666	203.525	175.044	152.636	137.173	140.130
107.5	912.038	843.227	650.554	409.685	211.147	181.333	159.295	143.240	146.123
108.0	917.320	848.810	656.968	416.849	218.769	188.436	165.806	149.753	152.412
108.5	922.527	854.393	663.305	424.016	226.538	195.689	172.391	155.967	158.629
109.0	928.106	859.753	669.569	431.106	234.233	202.864	179.198	162.479	164.992
109.5	933.239	865.712	675.830	438.123	241.928	210.117	185.933	168.769	171.281
110.0	938.595	870.922	681.947	445.437	249.771	217.442	192.592	175.280	177.868
110.5	943.804	876.508	687.838	452.602	257.614	224.767	199.473	181.791	184.305

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111.0	949.086	881.721	694.025	459.768	265.531	232.168	206.354	188.378	190.890
111.5	954.223	887.156	700.291	467.082	273.448	239.567	213.161	195.037	197.179
112.0	959.134	892.594	706.403	474.321	281.365	247.040	220.190	201.696	203.541
112.5	964.416	897.956	712.667	481.707	289.506	254.661	227.294	208.281	210.054
113.0	969.176	903.319	718.857	488.946	297.349	262.282	234.249	214.866	216.713
113.5	974.386	908.607	724.969	496.482	305.266	269.978	241.426	221.673	223.520
114.0	979.369	913.669	731.082	503.721	313.405	277.525	248.752	228.407	230.179
114.5	984.279	918.882	737.197	511.033	321.248	285.294	257.482	235.363	236.838
115.0	988.894	924.172	743.312	518.422	329.240	292.991	266.805	242.244	243.647
115.5	993.586	929.385	749.351	525.734	337.305	300.834	273.464	248.977	250.232
116.0	998.643	934.226	755.541	533.047	345.370	308.529	278.053	255.859	257.409
116.5	1003.187	939.442	761.356	540.361	353.287	316.224	284.416	262.740	264.142
117.0	1008.244	944.657	767.620	547.748	361.354	324.215	292.852	269.769	271.173
117.5	1012.713	949.423	773.510	554.986	369.567	331.838	302.323	276.502	277.831
118.0	1017.181	954.560	779.475	562.375	377.410	339.829	309.869	283.607	284.787
118.5	1021.423	959.331	785.738	569.612	385.549	347.673	315.051	290.338	291.669
119.0	1025.966	963.950	791.556	577.000	393.615	355.368	320.822	297.591	298.773
119.5	1030.510	969.309	797.520	584.238	401.680	362.989	327.925	304.546	305.431
120.0	1034.828	974.155	803.411	591.403	409.895	370.758	335.177	311.649	312.831
120.5	1039.220	978.850	809.303	598.420	417.886	378.677	342.502	318.680	319.639
121.0	1043.613	983.470	815.269	605.732	425.655	386.372	349.753	325.857	326.595
121.5	1048.081	988.316	821.013	612.821	433.794	393.993	357.004	334.366	333.550
122.0	1051.734	993.011	826.905	620.136	441.859	401.689	364.552	344.060	340.653
122.5	1056.278	996.815	832.573	627.226	449.776	409.310	371.803	352.345	347.830
123.0	1060.747	1001.661	838.390	634.315	457.768	417.155	379.204	357.822	354.934
123.5	1065.215	1006.205	844.285	641.332	465.833	424.776	386.603	364.408	362.259
124.0	1068.943	1010.235	850.175	648.349	473.676	432.545	394.078	372.992	372.101
124.5	1073.412	1014.855	855.841	655.513	481.743	440.390	401.477	380.243	384.903
125.0	1077.291	1019.625	861.735	662.602	489.586	447.863	409.024	385.126	393.114
125.5	1080.944	1023.580	867.551	669.695	497.651	455.632	416.424	390.307	396.963
126.0	1085.337	1028.275	873.000	676.488	505.494	463.327	423.897	397.187	398.295
126.5	1088.990	1032.381	878.812	683.431	513.337	470.875	431.223	404.292	404.510
127.0	1092.869	1037.076	885.003	690.373	521.329	478.718	438.622	411.470	411.614
127.5	1096.673	1041.031	890.302	697.094	529.246	486.339	446.096	418.573	418.792
128.0	1100.326	1045.062	895.450	704.109	537.015	494.182	453.645	425.750	426.117
128.5	1104.130	1049.757	901.565	711.052	545.082	502.027	460.820	433.003	433.294
129.0	1107.934	1053.788	906.864	717.846	553.073	509.648	468.591	440.401	440.619
129.5	1107.887	1057.743	912.164	724.715	560.990	517.343	476.212	447.579	447.944
130.0	1111.767	1061.698	918.278	731.584	568.833	525.038	483.759	454.756	455.271
130.5	1114.091	1065.653	923.502	738.526	576.677	532.883	491.308	461.933	462.670
131.0	1117.744	1068.792	928.802	745.246	584.668	540.578	498.631	469.186	469.921
131.5	1118.664	1072.234	934.101	752.040	592.733	548.199	506.106	476.585	477.248
132.0	1124.461	1075.449	939.400	758.761	600.650	555.820	513.801	483.910	484.795
132.5	1128.340	1078.589	944.700	765.482	608.717	563.590	521.274	491.235	492.117
133.0	1130.000	1081.291	949.999	772.054	616.708	571.211	529.043	498.414	499.447
133.5	1133.653	1083.766	955.298	778.848	624.478	578.982	536.516	506.701	506.772
134.0	1138.937	1088.537	960.522	785.718	632.321	586.751	544.212	513.952	514.320
134.5	1140.521	1091.752	965.081	792.437	640.238	594.298	551.833	521.352	521.570
135.0	1144.250	1096.522	970.381	799.307	648.155	602.215	559.305	528.826	529.342
135.5	1148.869	1098.922	975.680	805.286	656.074	609.984	567.003	536.374	536.517
136.0	1150.378	1102.213	980.753	812.157	663.917	617.754	574.476	543.550	544.066
136.5	1155.586	1105.503	985.463	818.800	671.686	625.226	582.023	551.024	551.240
137.0	1155.690	1109.383	989.947	825.595	679.604	633.069	589.644	558.351	559.088
137.5	1160.008	1113.414	995.322	831.725	687.301	640.917	596.969	565.673	566.487
138.0	1161.592	1115.889	998.175	838.293	695.065	648.459	604.438	572.996	573.429
138.5	1166.136	1120.659	1002.070	844.348	702.540	656.080	612.062	580.768	581.353

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CANDELA TABULATION - (Cont.)

139.0	1168.686	1122.470	1007.369	851.067	710.235	663.479	619.535	588.094	588.901
139.5	1170.784	1125.610	1011.113	856.971	718.007	671.250	627.010	595.568	596.376
140.0	1173.108	1128.976	1015.748	862.950	725.628	678.649	634.261	602.893	603.776
140.5	1176.988	1132.342	1018.088	869.594	733.325	686.345	641.957	610.590	611.769
141.0	1179.236	1135.557	1021.908	875.498	741.169	693.820	649.578	618.433	619.612
141.5	1182.300	1136.704	1027.207	882.141	748.938	701.367	657.051	626.128	627.233
142.0	1184.036	1140.810	1030.951	888.120	756.337	708.914	664.523	633.823	634.928
142.5	1186.360	1144.025	1035.586	894.024	763.736	716.313	671.922	641.148	642.623
143.0	1190.013	1146.425	1039.330	900.079	771.135	723.860	679.321	648.547	650.244
143.5	1193.152	1148.236	1043.149	906.134	779.274	731.555	687.016	656.390	657.941
144.0	1191.777	1150.862	1047.709	912.188	786.749	739.102	694.413	664.083	665.634
144.5	1195.808	1154.229	1051.528	918.168	794.224	746.205	701.962	671.704	673.329
145.0	1199.536	1156.779	1054.608	923.558	801.623	753.604	709.361	679.104	681.322
145.5	1199.716	1159.330	1059.907	929.613	809.022	761.079	716.759	686.725	688.721
146.0	1201.965	1160.990	1062.911	935.003	815.756	768.478	724.010	694.124	696.342
146.5	1206.071	1164.356	1066.806	938.838	823.155	775.877	731.335	701.669	703.963
147.0	1207.731	1166.016	1070.550	944.153	830.555	783.276	738.956	709.141	711.656
147.5	1210.870	1169.458	1073.706	948.064	837.289	790.826	746.281	716.688	719.055
148.0	1210.899	1169.789	1077.525	952.639	844.688	798.150	753.680	724.235	726.824
148.5	1211.155	1171.600	1079.865	958.694	851.423	804.809	761.154	731.782	734.373
149.0	1213.403	1174.966	1083.684	964.009	858.898	811.544	768.478	739.179	742.066
149.5	1214.550	1173.817	1086.024	967.919	865.557	819.018	775.877	746.356	749.467
150.0	1215.243	1177.032	1089.844	974.050	872.216	826.417	783.276	753.755	757.606
150.5	1217.643	1178.843	1094.479	978.700	878.875	833.152	790.675	761.894	765.005
151.0	1217.747	1180.654	1095.414	984.091	885.610	839.811	797.410	769.218	773.069
151.5	1220.222	1181.061	1099.973	988.665	892.344	847.210	804.809	776.692	780.543
152.0	1220.402	1182.207	1101.649	994.056	899.079	853.945	812.208	784.016	788.607
152.5	1219.767	1184.018	1104.804	997.967	905.738	860.604	819.683	791.415	796.081
153.0	1219.947	1184.349	1107.959	1003.357	911.733	867.339	826.266	798.074	803.480
153.5	1222.347	1186.236	1110.299	1008.007	915.508	873.998	833.741	806.213	810.879
154.0	1221.047	1187.382	1111.974	1013.398	922.907	881.473	840.400	813.537	819.094
154.5	1222.707	1187.789	1113.498	1017.309	928.087	887.392	847.799	820.936	826.568
155.0	1224.291	1188.860	1116.502	1021.219	932.602	894.202	854.534	827.595	833.892
155.5	1223.806	1188.602	1118.616	1025.945	937.856	900.786	861.933	834.994	841.367
156.0	1221.691	1189.749	1119.989	1029.780	944.516	907.596	868.667	842.393	848.690
156.5	1223.351	1190.971	1121.513	1034.506	949.771	911.295	875.327	849.717	855.349
157.0	1224.120	1190.562	1123.777	1038.493	955.765	918.030	881.986	856.376	862.824
157.5	1220.720	1191.044	1125.301	1041.588	960.945	923.949	889.460	863.775	870.223
158.0	1220.945	1189.307	1127.052	1045.498	966.200	929.869	896.120	871.174	877.622
158.5	1218.965	1189.789	1128.063	1048.745	972.119	934.384	902.039	877.833	884.281
159.0	1216.925	1190.271	1129.814	1052.655	977.374	940.303	906.478	884.492	891.680
159.5	1218.887	1190.677	1130.825	1056.641	981.813	946.962	915.433	891.891	898.339
160.0	1216.470	1190.269	1131.912	1059.812	987.808	952.217	919.132	898.550	905.738
160.5	1214.732	1189.784	1133.738	1062.318	992.323	958.212	925.867	905.210	912.473
161.0	1215.350	1189.889	1134.825	1065.565	996.022	963.391	931.046	910.389	919.797
161.5	1213.915	1187.185	1136.576	1068.735	1001.942	969.310	935.561	917.048	925.716
162.0	1212.932	1186.036	1134.778	1071.982	1005.641	974.565	942.220	923.707	928.524
162.5	1210.153	1184.223	1137.344	1073.008	1011.636	980.560	947.400	928.887	935.032
163.0	1209.366	1185.445	1137.027	1076.994	1015.411	986.479	954.874	934.066	940.725
163.5	1207.991	1183.043	1137.449	1078.685	1020.590	990.994	960.054	940.725	947.309
164.0	1208.398	1183.012	1138.535	1081.192	1024.290	995.434	965.233	946.644	953.152
164.5	1205.996	1180.686	1138.218	1082.882	1028.805	1000.613	971.968	953.379	961.140
165.0	1203.669	1180.579	1138.640	1085.389	1033.244	1006.532	977.887	958.558	967.059
165.5	1199.863	1176.773	1138.398	1087.820	1037.759	1010.307	982.326	963.738	972.239
166.0	1199.832	1175.337	1138.004	1090.326	1041.459	1014.747	987.581	970.397	979.487
166.5	1198.170	1173.826	1138.502	1092.832	1044.418	1020.002	993.425	976.316	986.146

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CANDELA TABULATION - (Cont.)

167.0	1196.357	1172.315	1137.520	1092.455	1048.194	1023.701	999.420	981.571	992.065
167.5	1193.139	1169.476	1137.278	1094.297	1051.229	1028.141	1003.119	988.306	997.245
168.0	1188.005	1167.301	1137.036	1096.139	1054.928	1032.656	1009.114	994.225	1003.239
168.5	1187.234	1165.563	1136.793	1098.056	1058.628	1037.095	1015.109	1000.220	1009.083
169.0	1182.763	1163.010	1135.071	1096.938	1062.403	1041.534	1018.733	1004.659	1014.187
169.5	1180.512	1160.246	1134.829	1099.445	1064.547	1044.494	1024.652	1011.318	1018.551
170.0	1178.261	1157.406	1133.847	1099.883	1066.767	1049.009	1029.167	1015.758	1024.470
170.5	1176.086	1156.122	1131.461	1101.060	1069.062	1052.709	1032.942	1021.013	1029.725
171.0	1171.540	1153.434	1132.034	1101.573	1070.542	1056.408	1036.717	1026.192	1034.240
171.5	1167.961	1150.745	1128.832	1102.087	1074.317	1058.703	1041.232	1031.522	1040.159
172.0	1166.012	1147.392	1128.741	1103.264	1077.352	1062.403	1045.672	1034.482	1044.447
172.5	1162.508	1144.115	1126.355	1103.038	1079.496	1066.102	1050.111	1040.401	1050.291
173.0	1157.600	1141.426	1124.119	1102.887	1081.052	1069.802	1054.551	1044.841	1053.175
173.5	1154.987	1138.073	1123.440	1104.215	1082.456	1071.282	1058.250	1048.540	1058.430
174.0	1152.223	1135.460	1120.464	1104.064	1083.196	1074.981	1061.210	1053.055	1063.534
174.5	1147.903	1130.703	1118.380	1103.913	1085.491	1078.681	1064.834	1057.495	1065.754
175.0	1143.584	1127.426	1116.296	1102.358	1087.711	1080.901	1067.793	1061.119	1070.117
175.5	1139.340	1124.299	1114.287	1103.838	1089.115	1082.305	1071.568	1064.894	1073.077
176.0	1138.207	1121.249	1112.354	1103.762	1090.670	1085.340	1075.192	1068.669	1079.072
176.5	1132.045	1116.869	1110.497	1103.098	1091.335	1086.820	1079.707	1072.444	1081.367
177.0	1128.843	1114.121	1107.311	1103.098	1091.486	1089.040	1080.447	1076.068	1085.067
177.5	1124.086	1109.968	1106.420	1101.618	1092.890	1089.779	1084.147	1079.027	1087.211
178.0	1119.631	1107.446	1104.864	1101.618	1093.630	1091.999	1086.291	1083.542	1093.206
178.5	1114.890	1102.856	1102.644	1100.878	1093.630	1094.219	1088.511	1086.427	1096.830
179.0	1111.703	1101.300	1099.685	1100.878	1094.370	1094.959	1092.286	1089.386	1098.309
179.5	1108.668	1098.416	1098.205	1099.398	1094.370	1096.439	1093.766	1091.681	1104.304
180.0	1097.163	1097.163	1097.163	1097.163	1097.163	1097.163	1097.163	1097.163	1097.163

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L38-827U-L38-827D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	407.35	N.A.	5.50
0-30	865.31	N.A.	11.70
0-40	1419.43	N.A.	19.20
0-60	2570.9	N.A.	34.70
0-80	3443.2	N.A.	46.50
0-90	3717.21	N.A.	50.20
10-90	3611.98	N.A.	48.80
20-40	1012.08	N.A.	13.70
20-50	1599.61	N.A.	21.60
40-70	1641.74	N.A.	22.20
60-80	872.30	N.A.	11.80
70-80	382.03	N.A.	5.20
80-90	274.01	N.A.	3.70
90-110	653.57	N.A.	8.80
90-120	1140.39	N.A.	15.40
90-130	1700.35	N.A.	23.00
90-150	2832.51	N.A.	38.20
90-180	3688.21	N.A.	49.80
110-180	3034.64	N.A.	41.00
0-180	7405.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.23
10-20	302.12
20-30	457.96
30-40	554.11
40-50	587.54
50-60	563.94
60-70	490.27
70-80	382.03
80-90	274.01
90-100	273.61
100-110	379.97
110-120	486.81
120-130	559.96
130-140	583.05
140-150	549.12
150-160	453.08
160-170	298.57
170-180	104.05

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-827U-L38-827D-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-L38-827U-L38-827D-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

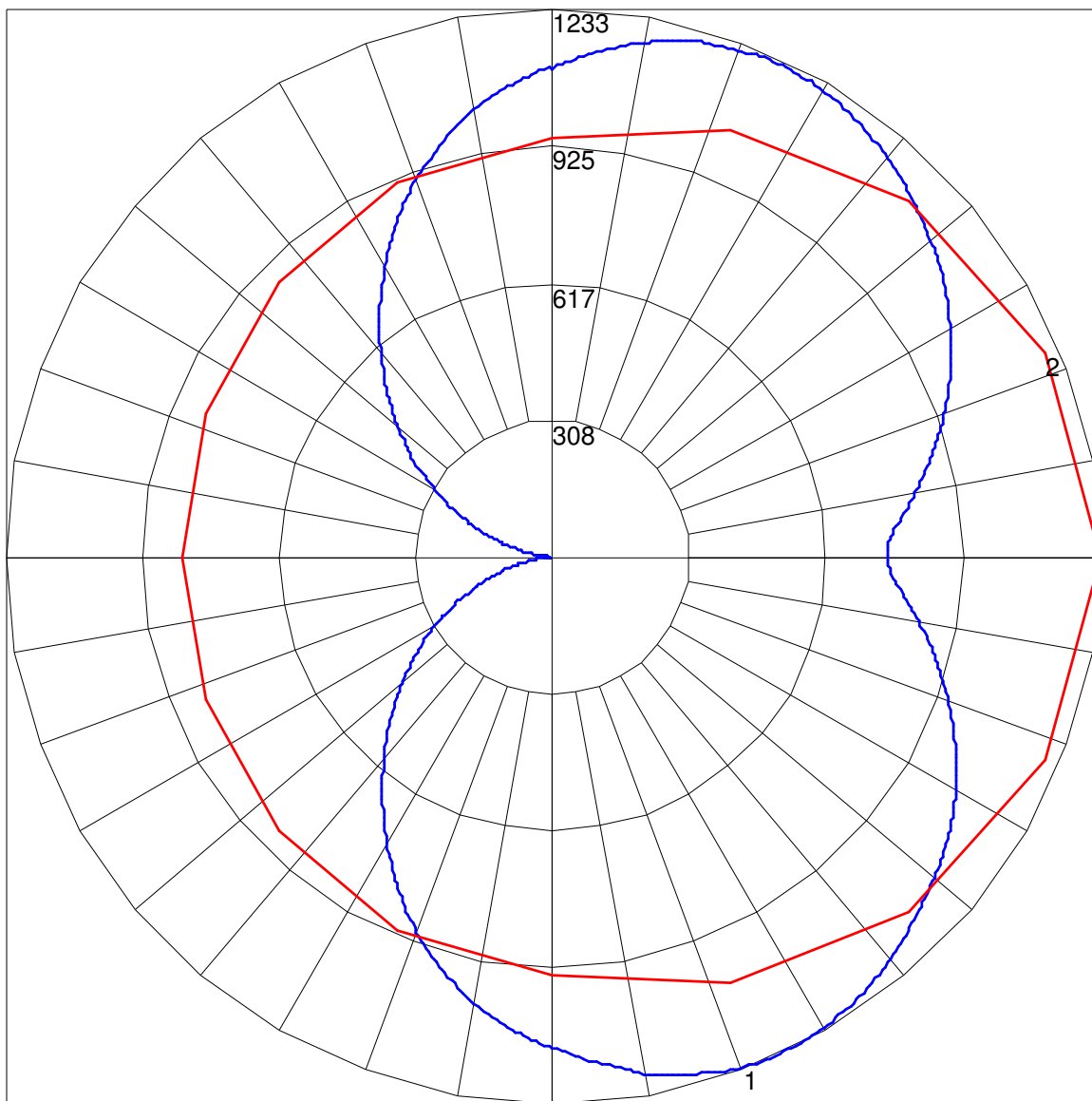
X=2H	Y=2H	21.7	22.6	22.7	23.6	24.9	15.8	16.7	16.7	17.7	18.9
	3H	24.8	25.6	25.8	26.6	27.9	17.1	18.0	18.1	18.9	20.2
	4H	26.4	27.2	27.4	28.2	29.4	17.6	18.3	18.5	19.3	20.6
	6H	28.1	28.8	29.0	29.8	31.1	17.8	18.5	18.8	19.5	20.8
	8H	29.0	29.6	29.9	30.7	32.0	17.9	18.5	18.8	19.6	20.9
	12H	29.9	30.6	30.9	31.6	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	19.8	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	22.9	23.2	24.6

Maximum UGR = 34.5

POLAR GRAPH



Maximum Candela = 1233.001 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.)