

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-930U-L50-930D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-00-L50-930U-L50-930D-DMA-DIM-UNV_
[LUMINAIRE] 4' wall mounted fixture with both up and down lighting
[MORE] compartments
[LAMP] (2) 56 LED boards - 112 Total LED
[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	8214
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	84
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)	3.67 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16959	16059	15395
55	16858	15367	14122
65	16887	14834	12617
75	17181	14498	10410
85	18060	14829	7269

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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	1229.229	1229.229	1229.229	1229.229	1229.229	1229.229	1229.229	1229.229	1229.229
0.5	1230.957	1233.008	1230.724	1235.405	1227.026	1233.401	1225.122	1225.057	1225.173
1.0	1234.308	1235.932	1235.241	1236.407	1226.271	1231.561	1221.606	1221.541	1221.740
1.5	1238.744	1239.858	1236.572	1239.085	1226.271	1228.128	1219.766	1217.270	1215.874
2.0	1242.506	1244.704	1239.578	1239.332	1225.351	1225.532	1216.414	1213.836	1212.441
2.5	1247.944	1248.039	1243.586	1240.416	1224.513	1223.856	1213.063	1211.322	1209.171
3.0	1251.541	1253.049	1246.756	1240.662	1223.675	1222.180	1210.549	1206.295	1204.900
3.5	1256.305	1257.467	1249.088	1243.504	1223.675	1218.747	1206.360	1202.861	1202.386
4.0	1262.581	1261.886	1253.097	1243.750	1221.917	1215.395	1204.684	1198.671	1196.521
4.5	1265.423	1265.549	1256.267	1243.240	1221.079	1214.557	1200.494	1194.482	1191.411
5.0	1266.999	1270.131	1259.009	1246.000	1219.403	1210.368	1195.467	1190.210	1186.466
5.5	1272.848	1273.876	1259.912	1246.329	1216.889	1206.178	1192.953	1186.021	1183.952
6.0	1276.774	1276.865	1262.326	1245.819	1215.132	1205.258	1189.601	1182.587	1178.842
6.5	1279.944	1282.531	1264.823	1245.391	1213.538	1201.989	1185.248	1176.640	1173.897
7.0	1283.114	1286.112	1266.482	1245.555	1212.618	1199.311	1181.058	1171.530	1167.950
7.5	1286.349	1289.101	1268.222	1245.210	1208.346	1195.121	1176.031	1167.341	1162.084
8.0	1292.573	1291.252	1270.373	1243.024	1205.833	1190.932	1171.841	1162.231	1156.219
8.5	1298.089	1294.405	1272.524	1244.273	1204.995	1188.418	1167.570	1157.204	1150.436
9.0	1305.626	1297.722	1274.429	1242.925	1200.805	1184.147	1162.460	1150.419	1144.571
9.5	1309.353	1300.611	1275.578	1243.335	1198.209	1179.119	1157.433	1145.309	1142.895
10.0	1313.508	1305.095	1276.645	1242.152	1195.696	1175.685	1153.243	1140.282	1133.678
10.5	1317.581	1307.738	1278.549	1240.887	1191.506	1171.578	1148.134	1134.334	1129.570
11.0	1320.060	1309.626	1279.698	1238.865	1189.748	1167.306	1142.187	1130.145	1123.705
11.5	1322.293	1312.597	1280.009	1236.844	1184.721	1162.279	1137.241	1123.360	1116.164
12.0	1323.688	1314.731	1281.158	1236.498	1181.369	1159.683	1132.132	1117.494	1109.543
12.5	1328.517	1318.540	1281.551	1234.477	1178.774	1152.898	1126.266	1111.629	1103.678
13.0	1331.243	1320.592	1282.109	1232.456	1175.422	1148.708	1120.319	1104.844	1095.463
13.5	1333.376	1323.317	1282.666	1231.272	1169.557	1143.681	1115.209	1098.058	1090.599
14.0	1337.432	1325.041	1283.305	1229.333	1166.961	1136.896	1107.668	1091.355	1083.304
14.5	1340.239	1326.846	1282.104	1226.392	1162.771	1132.706	1101.721	1084.652	1075.845
15.0	1340.287	1327.732	1282.497	1224.453	1156.824	1127.597	1095.856	1077.949	1068.386
15.5	1342.028	1328.699	1282.381	1220.673	1151.796	1122.487	1089.070	1070.408	1064.197
16.0	1342.766	1330.505	1281.426	1217.568	1147.525	1116.622	1083.961	1063.704	1054.060
16.5	1346.377	1332.310	1282.986	1216.467	1143.335	1110.757	1077.258	1057.839	1049.033
17.0	1350.334	1331.602	1282.869	1212.688	1139.146	1103.971	1071.310	1050.216	1044.087
17.5	1350.956	1334.327	1281.832	1207.988	1133.199	1099.700	1063.687	1045.106	1035.626
18.0	1353.335	1333.619	1280.796	1206.049	1127.333	1091.239	1056.146	1037.565	1029.761
18.5	1356.553	1334.668	1279.513	1202.434	1121.386	1086.211	1052.712	1033.376	1022.138
19.0	1355.746	1335.718	1279.233	1199.821	1116.358	1079.426	1046.009	1025.835	1014.596
19.5	1359.538	1335.848	1277.112	1196.452	1110.411	1074.316	1038.386	1018.293	1006.135
20.0	1361.408	1335.304	1276.831	1191.999	1105.384	1067.613	1035.034	1010.752	998.594
20.5	1361.948	1336.353	1273.955	1188.384	1100.274	1060.828	1027.411	1003.129	990.133
21.0	1362.406	1335.727	1272.836	1183.421	1092.733	1054.125	1019.870	995.588	982.592
21.5	1363.784	1336.103	1270.798	1180.891	1087.624	1050.691	1013.167	987.209	974.213
22.0	1365.572	1335.805	1268.841	1177.604	1080.920	1042.312	1005.544	979.668	965.752
22.5	1366.604	1335.507	1266.803	1173.315	1074.135	1036.283	997.920	972.127	958.211
23.0	1365.879	1335.965	1264.846	1168.944	1068.188	1027.903	990.379	963.748	949.750
23.5	1366.073	1335.075	1263.645	1162.897	1060.647	1024.552	982.756	955.369	941.371
24.0	1367.024	1334.941	1260.851	1159.693	1055.619	1017.767	975.133	947.746	932.154
24.5	1367.564	1334.643	1258.895	1154.812	1047.996	1010.226	967.592	939.449	924.613
25.0	1366.428	1334.428	1255.262	1151.279	1045.482	1002.520	959.969	930.987	916.152
25.5	1364.454	1332.536	1253.306	1146.990	1039.535	994.979	952.428	922.609	906.935
26.0	1364.994	1332.074	1250.511	1140.188	1033.669	987.356	943.966	915.067	899.311
26.5	1363.940	1329.936	1247.799	1134.979	1026.046	979.815	936.343	906.688	890.012

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CANDELA TABULATION - (Cont.)

27.0	1362.049	1328.636	1246.007	1130.690	1018.423	972.110	927.964	898.309	881.633
27.5	1361.997	1328.174	1240.945	1126.401	1011.638	964.568	920.341	889.848	873.172
28.0	1362.537	1326.036	1237.641	1118.679	1004.097	956.107	912.718	881.469	863.955
28.5	1360.317	1323.898	1235.092	1115.146	997.394	948.566	904.339	873.090	855.494
29.0	1358.507	1323.436	1232.544	1108.343	989.014	940.943	895.960	863.873	847.115
29.5	1358.127	1319.622	1229.322	1101.377	981.391	932.564	887.499	855.494	838.317
30.0	1357.484	1317.321	1225.936	1097.006	973.768	924.021	879.958	847.033	829.606
30.5	1355.346	1315.429	1222.550	1091.041	966.227	916.480	871.496	838.570	821.226
31.0	1355.048	1314.129	1219.246	1084.912	958.686	908.019	863.117	830.107	812.513
31.5	1353.238	1312.665	1214.184	1082.217	951.063	899.640	854.738	821.812	803.885
32.0	1350.427	1310.527	1211.718	1075.251	942.684	892.016	846.277	813.180	795.588
32.5	1350.967	1307.551	1207.412	1071.718	935.061	883.555	837.814	804.801	786.793
33.0	1346.397	1306.333	1203.862	1065.753	927.519	875.176	829.352	796.005	777.995
33.5	1347.183	1302.437	1199.474	1058.868	919.058	866.715	820.973	787.542	769.532
34.0	1346.048	1299.544	1194.248	1052.822	910.679	858.336	812.512	779.247	760.736
34.5	1343.400	1296.568	1189.022	1045.855	902.218	850.713	804.049	770.616	752.189
35.0	1340.260	1293.592	1185.553	1038.970	893.839	842.083	795.754	762.154	743.894
35.5	1338.286	1291.536	1181.921	1032.924	886.298	833.622	787.458	753.607	735.180
36.0	1335.129	1286.885	1176.859	1026.039	877.919	825.159	778.995	745.228	726.468
36.5	1333.320	1283.909	1173.309	1019.155	868.702	816.698	770.199	737.017	717.837
37.0	1330.426	1281.853	1167.163	1012.188	860.241	808.486	761.988	728.388	709.123
37.5	1327.861	1277.284	1161.855	1005.303	851.862	799.774	753.609	719.674	700.913
38.0	1326.807	1273.470	1158.469	998.419	843.483	791.311	745.062	711.462	692.033
38.5	1321.563	1270.576	1151.567	991.534	834.938	782.681	736.683	702.917	683.235
39.0	1318.998	1268.521	1147.097	983.812	826.224	774.387	728.136	694.538	674.689
39.5	1315.348	1263.869	1147.736	976.845	817.761	765.924	719.925	685.992	666.226
40.0	1314.377	1260.975	1142.592	969.960	809.047	757.210	711.632	677.615	658.014
40.5	1309.298	1257.917	1137.448	962.238	800.334	748.749	703.001	669.234	649.552
41.0	1305.484	1253.512	1132.140	955.271	791.872	740.286	694.622	660.773	640.925
41.5	1301.243	1249.698	1126.996	947.713	782.990	731.490	686.076	652.561	632.628
42.0	1300.189	1246.640	1120.850	940.910	774.359	723.444	677.698	644.016	624.334
42.5	1296.704	1242.909	1115.624	934.108	765.645	714.899	669.235	635.470	616.121
43.0	1292.380	1236.581	1110.234	927.469	756.933	706.269	660.856	627.426	607.410
43.5	1290.324	1233.606	1105.090	919.911	747.800	697.639	652.226	618.797	599.281
44.0	1285.919	1229.792	1099.108	912.353	739.253	689.178	643.596	610.334	591.321
44.5	1282.434	1226.060	1092.880	904.712	730.371	680.798	635.135	602.041	583.027
45.0	1279.868	1223.085	1087.736	897.828	721.657	671.918	626.755	593.494	574.900
45.5	1274.379	1217.677	1081.672	890.273	712.945	663.370	618.041	585.283	566.355
46.0	1273.999	1213.946	1075.608	882.802	704.063	654.740	609.662	576.987	558.143
46.5	1268.919	1211.808	1070.382	875.245	695.263	646.195	601.032	568.527	550.267
47.0	1267.028	1210.508	1064.318	867.522	686.132	637.648	592.569	560.397	542.309
47.5	1264.216	1207.022	1058.172	860.215	677.082	628.934	584.108	552.020	533.846
48.0	1260.813	1202.124	1052.354	852.908	668.117	619.970	575.811	544.060	525.635
48.5	1255.323	1197.719	1046.044	845.518	659.319	611.256	567.182	535.766	517.507
49.0	1251.920	1193.068	1040.062	837.875	650.523	602.626	558.720	527.722	509.212
49.5	1248.599	1188.416	1033.916	830.235	641.641	594.163	550.424	519.596	501.335
50.0	1249.056	1184.766	1027.770	822.762	632.675	585.534	542.131	511.469	493.040
50.5	1243.057	1180.115	1021.788	815.041	623.793	576.652	533.584	503.758	484.998
51.0	1241.922	1175.627	1015.806	807.570	614.996	568.106	525.289	495.549	476.872
51.5	1237.762	1171.058	1008.822	799.846	606.198	559.308	516.826	487.421	468.996
52.0	1233.603	1165.568	1002.594	791.790	597.232	550.845	508.699	479.463	461.287
52.5	1230.036	1160.999	996.612	784.235	588.434	542.300	500.405	471.502	453.243
53.0	1225.630	1156.265	989.711	776.345	579.552	533.586	492.026	463.543	445.115
53.5	1221.225	1151.778	983.481	768.540	570.922	524.788	483.647	455.666	436.990
54.0	1217.148	1147.044	977.000	760.567	561.958	516.325	475.352	447.538	429.782
54.5	1212.742	1141.883	970.265	752.509	553.328	507.946	467.142	439.748	421.825

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CANDELA TABULATION - (Cont.)

55.0	1208.501	1137.149	963.868	744.704	544.530	499.234	458.847	431.704	413.780
55.5	1204.178	1131.660	957.551	736.563	535.816	490.437	450.637	423.744	406.071
56.0	1199.937	1127.090	950.986	728.675	526.934	481.973	442.508	416.119	397.945
56.5	1195.860	1121.601	944.168	720.449	518.134	473.344	434.047	407.908	390.488
57.0	1191.536	1117.113	937.437	712.308	509.254	464.880	426.169	400.368	383.112
57.5	1186.375	1111.706	930.951	704.168	500.538	456.085	418.126	392.240	374.986
58.0	1181.805	1106.134	924.302	695.775	491.490	447.537	409.831	384.615	367.194
58.5	1177.728	1100.727	917.489	687.636	482.609	439.074	401.871	376.823	359.318
59.0	1173.405	1095.484	910.422	679.243	473.559	430.529	393.911	368.947	351.860
59.5	1168.326	1089.830	903.851	670.852	464.426	421.899	386.035	361.322	344.236
60.0	1162.836	1084.341	896.785	662.712	455.461	413.186	378.159	353.613	336.527
60.5	1157.839	1078.933	890.220	654.572	446.579	404.640	370.116	345.988	328.818
61.0	1153.516	1073.440	883.404	646.598	437.781	396.009	362.072	338.279	321.193
61.5	1148.273	1067.951	876.588	638.375	428.815	387.630	354.029	330.571	313.485
62.0	1142.191	1062.126	869.436	629.982	420.016	379.002	346.320	322.864	306.111
62.5	1137.030	1056.382	862.700	621.759	410.966	370.539	338.276	315.071	298.318
63.0	1131.869	1050.889	855.971	613.535	402.252	361.825	330.234	307.446	290.861
63.5	1126.708	1044.813	849.155	605.310	393.370	353.194	322.356	299.904	283.152
64.0	1121.629	1038.904	842.003	597.086	384.489	344.983	314.396	292.111	275.948
64.5	1115.630	1033.080	835.273	588.863	375.692	336.436	306.268	284.486	268.992
65.0	1109.883	1027.255	827.871	580.304	366.811	328.057	298.140	276.945	261.199
65.5	1104.057	1021.095	821.053	571.829	357.845	319.510	290.348	269.320	253.826
66.0	1098.393	1014.766	814.153	563.607	349.129	310.966	282.220	261.863	246.620
66.5	1093.061	1008.692	806.838	555.300	340.417	302.419	274.430	254.154	239.414
67.0	1087.062	1002.614	800.020	546.993	331.701	294.040	266.803	246.780	232.459
67.5	1081.232	996.536	792.701	538.434	322.985	285.829	259.010	239.323	225.169
68.0	1075.484	990.212	785.553	529.961	313.853	277.701	251.136	231.950	217.712
68.5	1069.401	983.883	778.486	521.570	305.055	269.154	243.260	224.576	210.339
69.0	1064.076	977.641	771.084	513.348	296.425	261.027	235.467	217.203	203.552
69.5	1058.077	971.566	764.183	505.208	287.795	252.648	228.092	209.997	196.513
70.0	1052.411	965.235	756.784	497.069	279.080	244.520	220.469	202.791	189.473
70.5	1046.578	958.825	749.633	488.845	270.452	236.226	212.928	195.417	182.185
71.0	1040.914	952.496	742.399	480.375	261.736	228.183	205.386	188.463	175.147
71.5	1035.163	946.167	734.834	472.237	253.524	220.139	198.015	181.508	168.192
72.0	1028.921	939.426	727.766	464.349	244.976	212.095	190.639	174.553	161.822
72.5	1023.002	933.263	720.533	456.295	235.845	204.135	183.350	167.850	154.700
73.0	1016.842	926.769	713.467	448.490	227.631	196.342	176.227	160.812	147.997
73.5	1010.841	920.109	706.320	440.434	219.170	188.801	169.022	153.941	141.126
74.0	1004.924	913.697	698.921	432.382	210.874	181.176	161.899	147.404	134.592
74.5	998.513	906.958	691.769	424.413	202.830	173.635	154.945	140.784	128.476
75.0	992.430	900.547	684.291	416.691	194.702	166.094	148.074	134.250	121.856
75.5	986.183	893.886	677.145	408.640	186.740	158.720	141.201	127.547	115.570
76.0	979.854	887.476	670.330	400.755	178.780	151.514	134.249	121.263	109.454
76.5	973.516	880.734	663.018	393.282	170.820	144.392	127.378	114.727	103.422
77.0	967.104	874.410	655.872	385.315	163.110	137.270	121.008	108.610	97.807
77.5	960.689	867.752	648.727	377.928	155.233	130.232	114.390	102.410	91.941
78.0	954.443	861.345	641.831	370.378	147.860	123.193	107.938	96.461	86.244
78.5	947.694	854.691	635.016	363.242	140.402	116.323	101.570	90.594	80.546
79.0	941.366	847.867	628.039	355.694	133.195	109.703	95.286	84.728	74.764
79.5	934.952	841.461	621.226	348.394	125.905	103.168	89.168	78.863	69.486
80.0	928.376	834.972	614.335	341.181	118.697	96.798	83.219	73.333	64.123
80.5	921.798	828.403	607.440	334.382	111.743	90.430	77.353	67.803	58.928
81.0	915.636	822.081	601.048	327.585	105.038	84.229	71.656	62.440	53.565
81.5	909.307	815.258	594.407	320.789	98.502	78.278	66.040	57.161	48.370
82.0	902.896	808.937	588.015	313.993	92.050	72.413	60.428	51.967	43.512
82.5	897.148	803.203	581.710	307.447	85.598	66.799	55.231	47.189	38.900

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CANDELA TABULATION - (Cont.)

83.0	890.908	797.049	575.238	301.319	79.398	61.101	50.036	42.329	34.126
83.5	885.001	790.810	568.933	295.274	73.449	55.569	45.092	37.553	29.518
84.0	879.259	784.909	562.963	289.234	67.667	50.291	40.232	32.944	24.991
84.5	873.348	778.841	556.911	283.192	61.970	45.179	35.289	28.336	20.803
85.0	867.774	772.690	550.943	277.486	56.439	40.236	30.596	24.063	17.031
85.5	862.281	767.038	544.722	271.780	50.993	35.292	26.070	19.957	13.680
86.0	856.793	761.633	538.754	266.325	45.714	30.516	21.713	16.270	11.250
86.5	851.712	756.719	533.369	260.870	40.603	25.906	17.523	13.419	9.572
87.0	847.041	753.288	528.059	255.832	35.743	21.381	13.837	11.157	8.483
87.5	843.684	750.680	524.071	250.628	30.883	17.023	11.238	9.731	7.811
88.0	842.058	749.470	521.228	245.507	25.940	12.749	9.394	8.726	7.472
88.5	840.835	748.585	519.450	241.040	20.996	9.230	8.387	7.971	7.055
89.0	840.108	748.363	518.996	237.972	15.967	7.554	7.800	7.718	6.969
89.5	839.962	748.223	518.622	236.955	11.690	6.966	7.549	7.467	6.886
90.0	840.058	748.165	518.666	237.014	9.999	6.798	7.463	7.465	6.968
90.5	839.412	748.361	518.714	237.490	11.878	6.797	7.462	7.463	6.882
91.0	839.763	748.974	519.341	239.721	15.979	6.877	7.378	7.546	6.882
91.5	839.948	750.087	520.721	243.629	20.903	8.190	7.460	7.462	6.798
92.0	840.969	751.870	523.858	248.293	25.663	10.568	7.706	7.378	6.963
92.5	842.073	754.902	528.165	252.957	30.257	14.425	8.361	7.624	7.127
93.0	844.347	758.693	533.305	258.366	34.851	18.939	10.002	7.952	7.701
93.5	847.292	763.484	538.781	263.194	39.611	23.453	12.793	8.854	9.014
94.0	851.658	768.942	544.418	268.682	44.617	28.048	16.568	10.659	11.558
94.5	856.944	774.486	549.721	274.088	49.705	32.478	20.917	13.533	15.087
95.0	862.480	780.441	555.939	279.491	54.957	37.320	25.347	16.978	19.024
95.5	868.016	786.479	561.906	285.143	60.373	42.245	29.943	21.163	23.540
96.0	873.801	792.101	567.787	290.958	65.954	47.168	34.868	25.679	27.971
96.5	879.419	797.888	573.836	297.022	71.697	52.338	39.710	30.191	32.731
97.0	885.118	803.760	579.884	303.166	77.605	57.508	44.716	34.950	37.573
97.5	890.984	809.792	586.015	309.309	83.762	63.006	49.804	39.958	42.333
98.0	896.678	815.825	592.149	315.862	89.833	68.587	54.892	44.800	47.173
98.5	902.707	822.022	598.610	322.499	96.318	74.331	60.225	49.886	52.427
99.0	908.651	828.303	605.071	329.051	103.047	80.486	65.725	55.056	57.679
99.5	914.597	834.417	611.612	335.934	109.775	86.559	71.386	60.474	63.179
100.0	920.539	840.696	618.319	342.896	116.669	92.960	77.048	65.891	68.430
100.5	926.483	847.056	624.940	349.859	123.726	99.361	82.957	71.307	74.010
101.0	932.758	853.251	631.730	357.069	130.950	105.763	89.114	76.888	79.508
101.5	938.536	859.442	638.431	364.197	138.252	112.658	95.186	82.550	85.335
102.0	944.807	865.889	645.463	371.488	145.720	119.055	101.505	88.377	91.328
102.5	950.831	872.082	652.247	378.696	153.188	126.279	107.825	94.368	97.236
103.0	957.025	878.441	659.113	385.988	160.986	134.814	114.308	100.358	103.309
103.5	963.212	884.718	666.061	393.442	168.864	141.871	120.873	106.513	109.300
104.0	969.408	890.992	673.092	401.062	176.578	147.860	127.438	112.752	115.701
104.5	975.427	897.600	680.037	408.516	184.457	155.412	134.332	119.151	122.102
105.0	981.783	903.794	686.903	415.971	192.663	162.634	141.145	125.636	128.585
105.5	987.230	910.152	694.013	423.591	200.789	170.266	148.037	132.119	135.069
106.0	993.499	916.510	700.878	431.291	208.994	178.801	155.096	138.685	141.718
106.5	999.359	922.620	707.742	439.075	217.449	187.664	162.236	145.334	148.281
107.0	1005.466	928.896	714.688	446.611	225.737	194.147	169.293	152.143	155.423
107.5	1011.573	935.252	721.552	454.396	234.190	201.123	176.679	158.873	162.070
108.0	1017.431	941.444	728.666	462.342	242.644	209.001	183.901	166.096	169.045
108.5	1023.206	947.636	735.694	470.290	251.261	217.045	191.205	172.988	175.941
109.0	1029.395	953.582	742.642	478.155	259.796	225.004	198.755	180.212	182.998
109.5	1035.088	960.192	749.587	485.937	268.331	233.048	206.225	187.187	189.974
110.0	1041.029	965.970	756.371	494.050	277.030	241.172	213.610	194.409	197.279
110.5	1046.805	972.166	762.905	501.996	285.729	249.297	221.243	201.631	204.419

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CANDELA TABULATION - (Cont.)

111.0	1052.664	977.947	769.767	509.945	294.510	257.505	228.875	208.936	211.723
111.5	1058.362	983.976	776.717	518.057	303.291	265.712	236.425	216.322	218.698
112.0	1063.809	990.007	783.496	526.086	312.072	274.000	244.221	223.708	225.754
112.5	1069.667	995.955	790.444	534.278	321.101	282.453	252.099	231.012	232.978
113.0	1074.946	1001.902	797.309	542.307	329.800	290.906	259.813	238.316	240.364
113.5	1080.725	1007.768	804.088	550.666	338.581	299.442	267.774	245.866	247.914
114.0	1086.252	1013.382	810.869	558.694	347.608	307.813	275.900	253.334	255.300
114.5	1091.698	1019.164	817.651	566.805	356.307	316.430	285.582	261.050	262.686
115.0	1096.817	1025.031	824.433	574.999	365.172	324.966	295.922	268.682	270.237
115.5	1102.021	1030.813	831.131	583.110	374.117	333.665	303.308	276.150	277.541
116.0	1107.630	1036.183	837.997	591.221	383.062	342.200	308.398	283.782	285.502
116.5	1112.669	1041.968	844.446	599.333	391.843	350.735	315.455	291.414	292.970
117.0	1118.279	1047.752	851.394	607.526	400.790	359.598	324.813	299.210	300.767
117.5	1123.235	1053.038	857.926	615.555	409.899	368.053	335.317	306.678	308.152
118.0	1128.190	1058.736	864.543	623.749	418.598	376.916	343.686	314.558	315.868
118.5	1132.895	1064.027	871.489	631.776	427.625	385.616	349.434	322.024	323.500
119.0	1137.935	1069.150	877.943	639.971	436.572	394.151	355.835	330.068	331.380
119.5	1142.975	1075.094	884.557	647.999	445.517	402.604	363.714	337.783	338.764
120.0	1147.763	1080.469	891.091	655.946	454.628	411.221	371.756	345.661	346.972
120.5	1152.635	1085.677	897.625	663.728	463.491	420.004	379.880	353.459	354.522
121.0	1157.507	1090.800	904.244	671.839	472.108	428.538	387.923	361.419	362.238
121.5	1162.464	1096.175	910.614	679.702	481.135	436.991	395.965	370.857	369.952
122.0	1166.515	1101.383	917.149	687.814	490.081	445.528	404.338	381.609	377.830
122.5	1171.555	1105.602	923.436	695.678	498.862	453.980	412.380	390.799	385.791
123.0	1176.511	1110.977	929.888	703.541	507.726	462.681	420.588	396.873	393.669
123.5	1181.467	1116.016	936.426	711.324	516.672	471.134	428.795	404.177	401.794
124.0	1185.602	1120.487	942.958	719.106	525.371	479.751	437.085	413.698	412.710
124.5	1190.558	1125.611	949.243	727.053	534.317	488.451	445.292	421.741	426.909
125.0	1194.861	1130.902	955.780	734.915	543.016	496.740	453.663	427.157	436.017
125.5	1198.912	1135.288	962.231	742.782	551.962	505.357	461.871	432.903	440.286
126.0	1203.785	1140.496	968.274	750.316	560.660	513.892	470.159	440.534	441.763
126.5	1207.836	1145.050	974.721	758.016	569.359	522.264	478.284	448.414	448.656
127.0	1212.139	1150.257	981.587	765.717	578.224	530.963	486.490	456.376	456.535
127.5	1216.358	1154.644	987.465	773.171	587.005	539.416	494.781	464.254	464.497
128.0	1220.410	1159.115	993.175	780.952	595.622	548.115	503.153	472.214	472.621
128.5	1224.629	1164.322	999.957	788.652	604.569	556.816	511.112	480.259	480.582
129.0	1228.848	1168.792	1005.835	796.188	613.432	565.268	519.731	488.464	488.706
129.5	1228.796	1173.179	1011.712	803.807	622.213	573.803	528.183	496.426	496.831
130.0	1233.099	1177.566	1018.494	811.425	630.912	582.338	536.554	504.386	504.957
130.5	1235.677	1181.953	1024.288	819.125	639.613	591.038	544.926	512.346	513.163
131.0	1239.728	1185.435	1030.166	826.578	648.476	599.573	553.049	520.390	521.206
131.5	1240.749	1189.252	1036.044	834.114	657.421	608.026	561.339	528.597	529.332
132.0	1247.178	1192.818	1041.921	841.568	666.202	616.479	569.874	536.721	537.703
132.5	1251.481	1196.301	1047.799	849.022	675.149	625.097	578.163	544.846	545.824
133.0	1253.322	1199.297	1053.677	856.312	684.012	633.550	586.780	552.808	553.953
133.5	1257.374	1202.043	1059.554	863.847	692.630	642.169	595.068	561.999	562.078
134.0	1263.234	1207.334	1065.348	871.467	701.329	650.786	603.605	570.042	570.450
134.5	1264.992	1210.900	1070.405	878.919	710.111	659.156	612.058	578.250	578.491
135.0	1269.127	1216.191	1076.283	886.539	718.891	667.937	620.345	586.539	587.111
135.5	1274.250	1218.852	1082.161	893.171	727.674	676.554	628.883	594.911	595.070
136.0	1275.924	1222.502	1087.787	900.791	736.373	685.173	637.171	602.870	603.442
136.5	1281.700	1226.152	1093.012	908.160	744.990	693.460	645.542	611.160	611.399
137.0	1281.816	1230.455	1097.985	915.696	753.773	702.159	653.995	619.286	620.104
137.5	1286.605	1234.926	1103.946	922.495	762.309	710.863	662.119	627.407	628.310
138.0	1288.362	1237.671	1107.111	929.780	770.921	719.228	670.403	635.530	636.010
138.5	1293.401	1242.962	1111.431	936.496	779.211	727.681	678.859	644.150	644.798

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CANDELA TABULATION - (Cont.)

139.0	1296.231	1244.971	1117.308	943.948	787.746	735.888	687.148	652.275	653.171
139.5	1298.557	1248.453	1121.461	950.496	796.366	744.506	695.438	660.565	661.461
140.0	1301.135	1252.187	1126.602	957.128	804.819	752.713	703.480	668.690	669.669
140.5	1305.438	1255.920	1129.197	964.497	813.356	761.249	712.017	677.226	678.534
141.0	1307.932	1259.486	1133.433	971.045	822.057	769.540	720.470	685.925	687.233
141.5	1311.330	1260.758	1139.311	978.413	830.673	777.910	728.758	694.460	695.686
142.0	1313.255	1265.312	1143.463	985.045	838.880	786.281	737.045	702.995	704.221
142.5	1315.833	1268.878	1148.604	991.593	847.087	794.488	745.252	711.119	712.755
143.0	1319.884	1271.540	1152.757	998.309	855.293	802.858	753.458	719.326	721.208
143.5	1323.367	1273.548	1156.993	1005.024	864.320	811.393	761.993	728.025	729.745
144.0	1321.841	1276.461	1162.050	1011.740	872.611	819.764	770.198	736.558	738.278
144.5	1326.312	1280.195	1166.287	1018.372	880.901	827.642	778.570	745.011	746.813
145.0	1330.447	1283.024	1169.702	1024.350	889.107	835.849	786.777	753.217	755.678
145.5	1330.647	1285.853	1175.580	1031.066	897.314	844.139	794.982	761.670	763.884
146.0	1333.141	1287.694	1178.912	1037.045	904.784	852.346	803.024	769.877	772.337
146.5	1337.695	1291.428	1183.232	1041.298	912.990	860.552	811.149	778.246	780.790
147.0	1339.536	1293.269	1187.385	1047.193	921.197	868.759	819.601	786.533	789.323
147.5	1343.018	1297.086	1190.884	1051.531	928.667	877.133	827.726	794.903	797.529
148.0	1343.050	1297.453	1195.120	1056.605	936.873	885.256	835.933	803.274	806.146
148.5	1343.334	1299.462	1197.716	1063.320	944.343	892.641	844.223	811.644	814.519
149.0	1345.828	1303.196	1201.952	1069.215	952.633	900.111	852.346	819.849	823.052
149.5	1347.099	1301.921	1204.547	1073.553	960.019	908.402	860.552	827.810	831.260
150.0	1347.868	1305.487	1208.783	1080.352	967.405	916.608	868.759	836.016	840.287
150.5	1350.530	1307.496	1213.924	1085.510	974.791	924.078	876.965	845.043	848.494
151.0	1350.646	1309.505	1214.962	1091.489	982.260	931.464	884.435	853.166	857.437
151.5	1353.391	1309.956	1220.019	1096.563	989.730	939.670	892.641	861.457	865.727
152.0	1353.591	1311.227	1221.877	1102.542	997.200	947.140	900.848	869.579	874.671
152.5	1352.886	1313.236	1225.376	1106.879	1004.586	954.526	909.138	877.786	882.961
153.0	1353.085	1313.603	1228.876	1112.858	1011.235	961.995	916.441	885.172	891.168
153.5	1355.747	1315.695	1231.471	1118.016	1015.422	969.381	924.731	894.199	899.374
154.0	1354.305	1316.967	1233.329	1123.995	1023.628	977.672	932.117	902.322	908.485
154.5	1356.146	1317.418	1235.020	1128.332	1029.373	984.237	940.323	910.528	916.776
155.0	1357.903	1318.606	1238.352	1132.670	1034.381	991.790	947.793	917.914	924.898
155.5	1357.366	1318.320	1240.695	1137.911	1040.209	999.093	956.000	926.121	933.189
156.0	1355.020	1319.591	1242.218	1142.165	1047.595	1006.646	963.469	934.327	941.312
156.5	1356.861	1320.947	1243.909	1147.407	1053.423	1010.749	970.855	942.450	948.697
157.0	1357.714	1320.494	1246.420	1151.828	1060.072	1018.219	978.241	949.836	956.988
157.5	1353.943	1321.028	1248.111	1155.261	1065.817	1024.784	986.531	958.043	965.194
158.0	1354.192	1319.101	1250.053	1159.598	1071.645	1031.350	993.917	966.249	973.401
158.5	1351.996	1319.636	1251.174	1163.199	1078.211	1036.357	1000.482	973.635	980.787
159.0	1349.734	1320.171	1253.116	1167.536	1084.039	1042.922	1005.406	981.021	988.993
159.5	1351.910	1320.622	1254.237	1171.957	1088.963	1050.308	1015.338	989.227	996.379
160.0	1349.229	1320.168	1255.443	1175.474	1095.612	1056.137	1019.441	996.613	1004.586
160.5	1347.302	1319.631	1257.468	1178.254	1100.620	1062.786	1026.911	1003.999	1012.056
161.0	1347.987	1319.747	1258.673	1181.855	1104.723	1068.530	1032.656	1009.744	1020.178
161.5	1346.395	1316.748	1260.615	1185.371	1111.288	1075.096	1037.663	1017.130	1026.744
162.0	1345.305	1315.474	1258.622	1188.972	1115.391	1080.924	1045.049	1024.516	1029.859
162.5	1342.222	1313.463	1261.468	1190.111	1122.041	1087.573	1050.794	1030.260	1037.077
163.0	1341.350	1314.818	1261.116	1194.532	1126.228	1094.138	1059.084	1036.005	1043.391
163.5	1339.825	1312.154	1261.584	1196.407	1131.972	1099.146	1064.829	1043.391	1050.693
164.0	1340.276	1312.120	1262.789	1199.187	1136.075	1104.070	1070.573	1049.956	1057.174
164.5	1337.611	1309.539	1262.437	1201.063	1141.083	1109.814	1078.043	1057.426	1066.034
165.0	1335.031	1309.421	1262.905	1203.842	1146.007	1116.380	1084.608	1063.170	1072.599
165.5	1330.810	1305.199	1262.636	1206.539	1151.015	1120.567	1089.532	1068.915	1078.344
166.0	1330.775	1303.607	1262.200	1209.318	1155.118	1125.491	1095.361	1076.301	1086.383
166.5	1328.932	1301.932	1262.752	1212.098	1158.401	1131.319	1101.842	1082.866	1093.769

CANDELA TABULATION - (Cont.)

167.0	1326.921	1300.256	1261.663	1211.679	1162.588	1135.422	1108.491	1088.694	1100.334
167.5	1323.352	1297.106	1261.394	1213.722	1165.954	1140.346	1112.594	1096.164	1106.079
168.0	1317.657	1294.694	1261.126	1215.765	1170.057	1145.354	1119.243	1102.729	1112.727
168.5	1316.802	1292.766	1260.857	1217.892	1174.161	1150.278	1125.892	1109.378	1119.209
169.0	1311.843	1289.935	1258.947	1216.652	1178.348	1155.202	1129.912	1114.302	1124.870
169.5	1309.347	1286.869	1258.678	1219.432	1180.726	1158.485	1136.477	1121.688	1129.710
170.0	1306.851	1283.719	1257.589	1219.918	1183.188	1163.492	1141.485	1126.612	1136.275
170.5	1304.438	1282.295	1254.942	1221.224	1185.734	1167.596	1145.672	1132.440	1142.103
171.0	1299.396	1279.313	1255.578	1221.793	1187.375	1171.699	1149.859	1138.185	1147.111
171.5	1295.426	1276.331	1252.027	1222.363	1191.562	1174.245	1154.867	1144.097	1153.677
172.0	1293.264	1272.612	1251.926	1223.669	1194.929	1178.348	1159.791	1147.380	1158.433
172.5	1289.378	1268.977	1249.279	1223.417	1197.307	1182.451	1164.715	1153.945	1164.914
173.0	1283.934	1265.995	1246.800	1223.250	1199.032	1186.554	1169.639	1158.869	1168.113
173.5	1281.036	1262.276	1246.046	1224.724	1200.589	1188.196	1173.742	1162.972	1173.941
174.0	1277.970	1259.378	1242.746	1224.556	1201.410	1192.299	1177.024	1167.980	1179.602
174.5	1273.179	1254.102	1240.434	1224.388	1203.956	1196.402	1181.044	1172.904	1182.064
175.0	1268.388	1250.467	1238.123	1222.663	1206.418	1198.864	1184.327	1176.923	1186.904
175.5	1263.681	1246.999	1235.895	1224.305	1207.975	1200.422	1188.514	1181.111	1190.187
176.0	1262.424	1243.616	1233.751	1224.221	1209.700	1203.788	1192.533	1185.298	1196.836
176.5	1255.591	1238.758	1231.690	1223.484	1210.437	1205.429	1197.541	1189.485	1199.382
177.0	1252.039	1235.710	1228.157	1223.484	1210.605	1207.891	1198.361	1193.504	1203.485
177.5	1246.763	1231.104	1227.168	1221.843	1212.162	1208.712	1202.465	1196.787	1205.863
178.0	1241.822	1228.307	1225.443	1221.843	1212.983	1211.174	1204.843	1201.794	1212.512
178.5	1236.563	1223.215	1222.981	1221.022	1212.983	1213.636	1207.305	1204.993	1216.532
179.0	1233.029	1221.490	1219.699	1221.022	1213.804	1214.457	1211.492	1208.276	1218.173
179.5	1229.662	1218.291	1218.057	1219.381	1213.804	1216.098	1213.133	1210.822	1224.822
180.0	1216.901	1216.901	1216.901	1216.901	1216.901	1216.901	1216.901	1216.901	1216.901

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-930U-L50-930D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	451.80	N.A.	5.50
0-30	959.75	N.A.	11.70
0-40	1574.33	N.A.	19.20
0-60	2851.48	N.A.	34.70
0-80	3818.97	N.A.	46.50
0-90	4122.88	N.A.	50.20
10-90	4006.17	N.A.	48.80
20-40	1122.53	N.A.	13.70
20-50	1774.19	N.A.	21.60
40-70	1820.91	N.A.	22.20
60-80	967.50	N.A.	11.80
70-80	423.72	N.A.	5.20
80-90	303.91	N.A.	3.70
90-110	724.90	N.A.	8.80
90-120	1264.84	N.A.	15.40
90-130	1885.91	N.A.	23.00
90-150	3141.64	N.A.	38.20
90-180	4090.72	N.A.	49.80
110-180	3365.82	N.A.	41.00
0-180	8213.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.71
10-20	335.09
20-30	507.94
30-40	614.59
40-50	651.66
50-60	625.49
60-70	543.77
70-80	423.72
80-90	303.91
90-100	303.47
100-110	421.43
110-120	539.94
120-130	621.07
130-140	646.68
140-150	609.05
150-160	502.53
160-170	331.15
170-180	115.41

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-930U-L50-930D-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-4-00-L50-930U-L50-930D-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	21.1	22.0	22.0	23.0	24.2	15.1	16.0	16.0	17.0	18.2
	3H	24.2	25.0	25.1	26.0	27.3	16.4	17.3	17.4	18.2	19.5
	4H	25.8	26.5	26.7	27.5	28.8	16.9	17.7	17.8	18.6	19.9
	6H	27.5	28.2	28.4	29.2	30.5	17.1	17.8	18.1	18.8	20.1
	8H	28.4	29.1	29.3	30.1	31.4	17.2	17.9	18.1	18.9	20.2
	12H	29.4	30.0	30.4	31.0	32.4	17.2	17.8	18.2	18.8	20.2

UGR Viewed Endwise

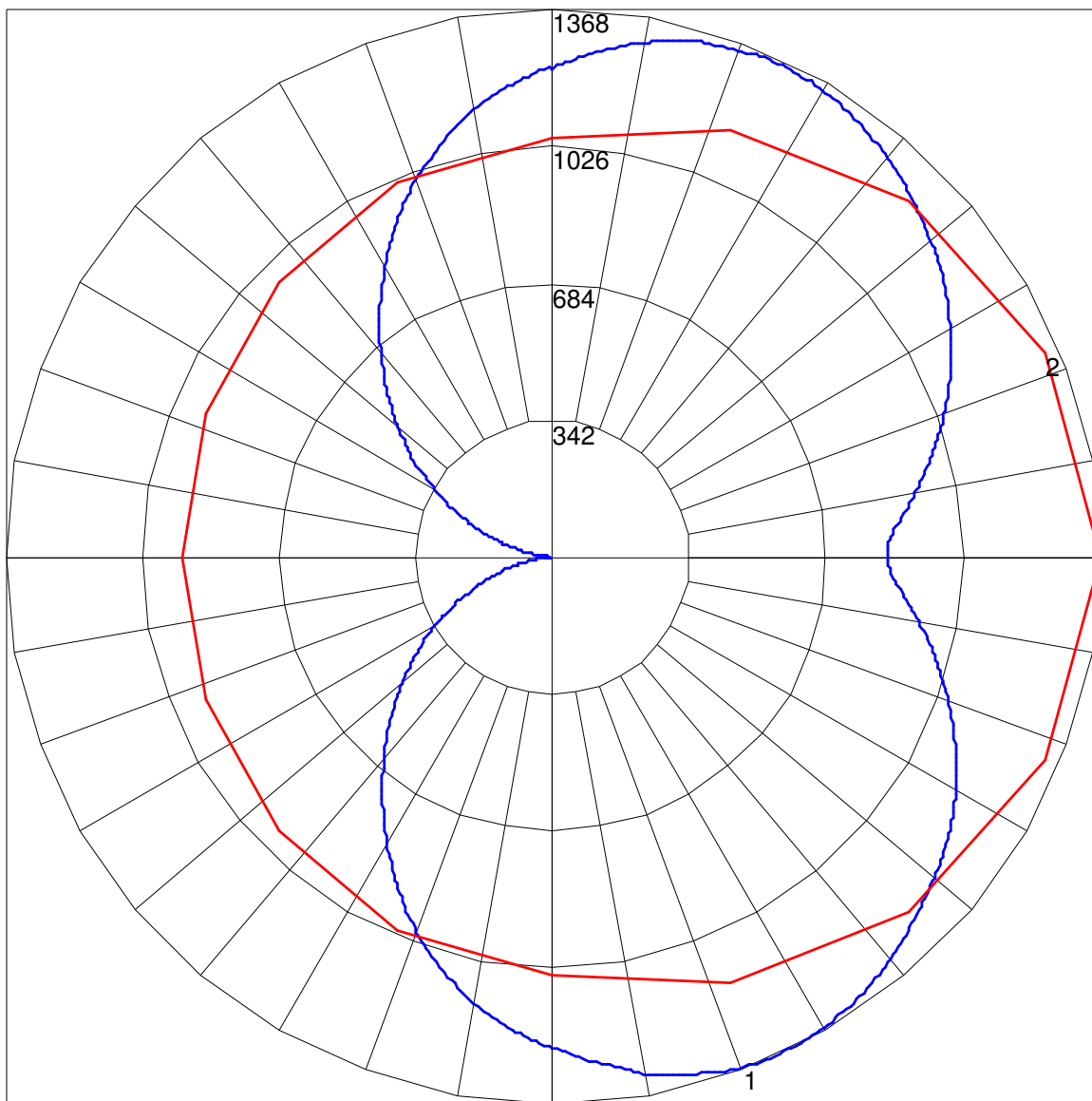
4H	2H	21.4	22.1	22.3	23.1	24.4	16.3	17.1	17.3	18.1	19.4
	3H	24.7	25.3	25.7	26.3	27.7	18.0	18.6	19.0	19.6	21.0
	4H	26.4	27.1	27.4	28.1	29.4	18.5	19.2	19.5	20.2	21.5
	6H	28.3	28.9	29.4	29.9	31.2	18.9	19.5	19.9	20.5	21.8
	8H	29.4	29.8	30.4	30.9	32.2	19.0	19.5	20.0	20.5	21.9
	12H	30.5	30.9	31.5	32.0	33.3	19.1	19.5	20.1	20.6	21.9

8H	4H	26.6	27.1	27.6	28.1	29.4	19.7	20.2	20.7	21.2	22.5
	6H	28.6	29.1	29.7	30.1	31.5	20.3	20.7	21.3	21.8	23.1
	8H	29.8	30.2	30.8	31.2	32.6	20.5	20.9	21.5	21.9	23.3
	12H	31.1	31.4	32.1	32.5	33.9	20.6	21.0	21.7	22.0	23.4

12H	4H	26.5	27.0	27.6	28.0	29.4	20.0	20.5	21.0	21.5	22.8
	6H	28.7	29.0	29.7	30.1	31.5	20.8	21.2	21.9	22.2	23.6
	8H	29.9	30.2	30.9	31.2	32.6	21.1	21.5	22.2	22.5	23.9

Maximum UGR = 33.9

POLAR GRAPH



Maximum Candela = 1367.564 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.)