

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-950U-L50-950D-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-L50-950U-L50-950D-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	8915
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	18406	17429	16709
55	18297	16678	15327
65	18329	16100	13694
75	18647	15736	11299
85	19602	16095	7890

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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	1334.163	1334.163	1334.163	1334.163	1334.163	1334.163	1334.163	1334.163	1334.163
0.5	1336.038	1338.265	1335.785	1340.867	1331.773	1338.692	1329.705	1329.635	1329.761
1.0	1339.676	1341.439	1340.689	1341.954	1330.952	1336.695	1325.889	1325.819	1326.035
1.5	1344.490	1345.700	1342.133	1344.861	1330.952	1332.968	1323.892	1321.183	1319.668
2.0	1348.573	1350.960	1345.395	1345.128	1329.954	1330.150	1320.255	1317.456	1315.942
2.5	1354.475	1354.579	1349.746	1346.305	1329.044	1328.332	1316.617	1314.728	1312.393
3.0	1358.380	1360.016	1353.186	1346.572	1328.135	1326.513	1313.889	1309.271	1307.757
3.5	1363.551	1364.812	1355.718	1349.657	1328.135	1322.786	1309.341	1305.544	1305.029
4.0	1370.362	1369.608	1360.068	1349.924	1326.227	1319.148	1307.523	1300.997	1298.663
4.5	1373.447	1373.583	1363.509	1349.371	1325.318	1318.239	1302.975	1296.450	1293.117
5.0	1375.158	1378.557	1366.486	1352.366	1323.499	1313.692	1297.519	1291.814	1287.749
5.5	1381.505	1382.621	1367.466	1352.722	1320.770	1309.145	1294.791	1287.267	1285.021
6.0	1385.766	1385.865	1370.086	1352.169	1318.862	1308.146	1291.153	1283.540	1279.475
6.5	1389.207	1392.016	1372.796	1351.705	1317.133	1304.597	1286.428	1277.085	1274.108
7.0	1392.648	1395.902	1374.596	1351.883	1316.134	1301.691	1281.880	1271.539	1267.653
7.5	1396.159	1399.146	1376.485	1351.508	1311.498	1297.144	1276.424	1266.992	1261.287
8.0	1402.915	1401.480	1378.820	1349.136	1308.770	1292.597	1271.877	1261.446	1254.921
8.5	1408.901	1404.903	1381.154	1350.491	1307.860	1289.868	1267.240	1255.990	1248.644
9.0	1417.082	1408.503	1383.222	1349.028	1303.313	1285.232	1261.695	1248.625	1242.278
9.5	1421.127	1411.639	1384.468	1349.474	1300.496	1279.776	1256.238	1243.080	1240.459
10.0	1425.637	1416.505	1385.626	1348.189	1297.767	1276.049	1251.691	1237.623	1230.455
10.5	1430.057	1419.374	1387.694	1346.816	1293.220	1271.591	1246.145	1231.168	1225.997
11.0	1432.748	1421.423	1388.941	1344.622	1291.312	1266.955	1239.690	1226.621	1219.631
11.5	1435.172	1424.648	1389.278	1342.428	1285.856	1261.498	1234.323	1219.256	1211.446
12.0	1436.686	1426.964	1390.525	1342.053	1282.218	1258.680	1228.777	1212.890	1204.260
12.5	1441.927	1431.099	1390.952	1339.859	1279.401	1251.316	1222.411	1206.524	1197.894
13.0	1444.885	1433.325	1391.557	1337.665	1275.763	1246.769	1215.956	1199.160	1188.978
13.5	1447.201	1436.283	1392.161	1336.381	1269.397	1241.312	1210.410	1191.795	1183.699
14.0	1451.603	1438.154	1392.855	1334.276	1266.580	1233.948	1202.226	1184.520	1175.782
14.5	1454.650	1440.113	1391.552	1331.084	1262.032	1229.401	1195.770	1177.244	1167.686
15.0	1454.702	1441.075	1391.979	1328.979	1255.577	1223.855	1189.404	1169.969	1159.590
15.5	1456.591	1442.125	1391.852	1324.877	1250.121	1218.309	1182.040	1161.784	1155.043
16.0	1457.393	1444.084	1390.816	1321.507	1245.484	1211.943	1176.494	1154.508	1144.041
16.5	1461.312	1446.044	1392.509	1320.311	1240.937	1205.577	1169.219	1148.142	1138.584
17.0	1465.606	1445.275	1392.382	1316.210	1236.390	1198.213	1162.764	1139.869	1133.216
17.5	1466.281	1448.233	1391.257	1311.109	1229.935	1193.576	1154.490	1134.323	1124.033
18.0	1468.864	1447.464	1390.132	1309.005	1223.569	1184.393	1146.305	1126.138	1117.667
18.5	1472.357	1448.604	1388.740	1305.081	1217.114	1178.937	1142.578	1121.591	1109.393
19.0	1471.480	1449.743	1388.435	1302.245	1211.657	1171.572	1135.303	1113.406	1101.208
19.5	1475.596	1449.884	1386.134	1298.588	1205.202	1166.026	1127.029	1105.221	1092.025
20.0	1477.626	1449.293	1385.829	1293.755	1199.746	1158.751	1123.391	1097.036	1083.840
20.5	1478.212	1450.432	1382.707	1289.832	1194.200	1151.386	1115.117	1088.762	1074.657
21.0	1478.709	1449.753	1381.493	1284.445	1186.015	1144.111	1106.932	1080.577	1066.472
21.5	1480.205	1450.160	1379.280	1281.698	1180.469	1140.384	1099.657	1071.483	1057.378
22.0	1482.145	1449.837	1377.157	1278.131	1173.194	1131.290	1091.383	1063.298	1048.194
22.5	1483.266	1449.514	1374.944	1273.476	1165.830	1124.746	1083.109	1055.113	1040.009
23.0	1482.478	1450.011	1372.821	1268.732	1159.374	1115.651	1074.924	1046.019	1030.826
23.5	1482.689	1449.045	1371.518	1262.169	1151.190	1112.014	1066.650	1036.925	1021.731
24.0	1483.721	1448.900	1368.485	1258.691	1145.733	1104.649	1058.376	1028.651	1011.728
24.5	1484.307	1448.576	1366.361	1253.394	1137.459	1096.464	1050.191	1019.645	1003.543
25.0	1483.074	1448.342	1362.419	1249.559	1134.731	1088.101	1041.917	1010.462	994.360
25.5	1480.932	1446.289	1360.295	1244.904	1128.276	1079.916	1033.732	1001.368	984.356
26.0	1481.518	1445.787	1357.262	1237.521	1121.910	1071.642	1024.549	993.183	976.082
26.5	1480.374	1443.467	1354.318	1231.867	1113.636	1063.458	1016.275	984.089	965.989

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CANDELA TABULATION - (Cont.)

27.0	1478.321	1442.056	1352.373	1227.213	1105.362	1055.094	1007.181	974.994	956.895
27.5	1478.265	1441.555	1346.879	1222.557	1097.997	1046.910	998.907	965.811	947.711
28.0	1478.851	1439.234	1343.293	1214.176	1089.812	1037.726	990.633	956.717	937.708
28.5	1476.442	1436.914	1340.527	1210.341	1082.537	1029.541	981.538	947.622	928.524
29.0	1474.477	1436.412	1337.762	1202.958	1073.443	1021.268	972.444	937.619	919.430
29.5	1474.065	1432.273	1334.264	1195.397	1065.169	1012.173	963.261	928.524	909.881
30.0	1473.367	1429.775	1330.589	1190.653	1056.895	1002.901	955.076	919.341	900.427
30.5	1471.046	1427.722	1326.914	1184.179	1048.710	994.716	945.893	910.156	891.330
31.0	1470.723	1426.311	1323.328	1177.527	1040.525	985.533	936.798	900.970	881.874
31.5	1468.759	1424.722	1317.834	1174.602	1032.251	976.438	927.704	891.967	872.509
32.0	1465.707	1422.401	1315.157	1167.040	1023.157	968.164	918.520	882.598	863.504
32.5	1466.293	1419.171	1310.484	1163.206	1014.883	958.981	909.335	873.504	853.958
33.0	1461.334	1417.849	1306.630	1156.732	1006.698	949.886	900.150	863.957	844.409
33.5	1462.187	1413.621	1301.868	1149.260	997.514	940.703	891.056	854.771	835.224
34.0	1460.954	1410.480	1296.196	1142.697	988.420	931.609	881.872	845.768	825.677
34.5	1458.081	1407.251	1290.523	1135.135	979.237	923.335	872.687	836.401	816.401
35.0	1454.673	1404.021	1286.759	1127.663	970.143	913.968	863.684	827.216	807.397
35.5	1452.530	1401.790	1282.817	1121.100	961.958	904.784	854.680	817.939	797.939
36.0	1449.104	1396.741	1277.323	1113.628	952.863	895.599	845.495	808.845	788.483
36.5	1447.140	1393.511	1273.469	1106.156	942.860	886.416	835.948	799.933	779.116
37.0	1443.999	1391.280	1266.799	1098.594	933.676	877.503	827.035	790.567	769.658
37.5	1441.214	1386.320	1261.037	1091.122	924.582	868.047	817.941	781.109	760.747
38.0	1440.071	1382.181	1257.362	1083.650	915.488	858.862	808.665	772.197	751.109
38.5	1434.380	1379.040	1249.871	1076.177	906.213	849.495	799.571	762.923	741.560
39.0	1431.595	1376.809	1245.020	1067.795	896.755	840.493	790.294	753.828	732.284
39.5	1427.634	1371.760	1245.713	1060.234	887.570	831.308	781.382	744.552	723.099
40.0	1426.580	1368.619	1240.130	1052.762	878.112	821.850	772.381	735.460	714.186
40.5	1421.067	1365.301	1234.547	1044.380	868.656	812.667	763.014	726.363	705.001
41.0	1416.928	1360.519	1228.786	1036.819	859.470	803.481	753.919	717.180	695.638
41.5	1412.324	1356.380	1223.203	1028.615	849.830	793.934	744.643	708.268	686.633
42.0	1411.181	1353.061	1216.532	1021.232	840.463	785.202	735.551	698.993	677.631
42.5	1407.398	1349.011	1210.860	1013.849	831.005	775.927	726.365	689.717	668.717
43.0	1402.705	1342.143	1205.010	1006.644	821.549	766.560	717.271	680.987	659.262
43.5	1400.474	1338.914	1199.427	998.440	811.636	757.193	707.904	671.621	650.439
44.0	1395.693	1334.774	1192.934	990.236	802.360	748.010	698.537	662.436	641.799
44.5	1391.910	1330.724	1186.174	981.944	792.720	738.915	689.353	653.435	632.798
45.0	1389.125	1327.494	1180.591	974.471	783.262	729.277	680.259	644.158	623.976
45.5	1383.167	1321.625	1174.010	966.271	773.806	719.999	670.801	635.246	614.702
46.0	1382.755	1317.575	1167.428	958.163	764.166	710.632	661.707	626.243	605.790
46.5	1377.242	1315.255	1161.756	949.961	754.615	701.358	652.340	617.059	597.241
47.0	1375.189	1313.844	1155.174	941.579	744.704	692.082	643.154	608.236	588.603
47.5	1372.137	1310.061	1148.504	933.648	734.882	682.624	633.971	599.143	579.418
48.0	1368.443	1304.745	1142.189	925.718	725.151	672.894	624.966	590.504	570.506
48.5	1362.485	1299.964	1135.341	917.696	715.602	663.436	615.600	581.502	561.684
49.0	1358.791	1294.915	1128.848	909.401	706.055	654.069	606.415	572.772	552.681
49.5	1355.186	1289.866	1122.177	901.109	696.415	644.884	597.412	563.952	544.132
50.0	1355.683	1285.905	1115.507	892.998	686.684	635.519	588.410	555.131	535.129
50.5	1349.172	1280.856	1109.014	884.618	677.044	625.879	579.134	546.762	526.400
51.0	1347.939	1275.986	1102.522	876.509	667.495	616.603	570.131	537.851	517.581
51.5	1343.425	1271.026	1094.941	868.125	657.946	607.054	560.946	529.030	509.032
52.0	1338.911	1265.068	1088.182	859.382	648.215	597.868	552.124	520.392	500.665
52.5	1335.039	1260.109	1081.689	851.182	638.666	588.594	543.122	511.753	491.935
53.0	1330.257	1254.971	1074.198	842.618	629.026	579.136	534.028	503.113	483.113
53.5	1325.476	1250.100	1067.437	834.148	619.659	569.587	524.934	494.565	474.294
54.0	1321.051	1244.963	1060.402	825.493	609.930	560.402	515.931	485.743	466.471
54.5	1316.269	1239.361	1053.093	816.747	600.563	551.307	507.020	477.287	457.835

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CANDELA TABULATION - (Cont.)

55.0	1311.666	1234.223	1046.149	808.277	591.014	541.851	498.017	468.557	449.102
55.5	1306.974	1228.265	1039.293	799.440	581.556	532.304	489.106	459.917	440.736
56.0	1302.370	1223.305	1032.168	790.879	571.916	523.117	480.283	451.641	431.916
56.5	1297.945	1217.347	1024.768	781.951	562.365	513.752	471.099	442.729	423.822
57.0	1293.253	1212.477	1017.462	773.115	552.727	504.565	462.549	434.546	415.817
57.5	1287.651	1206.608	1010.422	764.280	543.267	495.019	453.820	425.724	406.998
58.0	1282.691	1200.561	1003.206	755.171	533.447	485.741	444.817	417.449	398.540
58.5	1278.266	1194.691	995.812	746.336	523.807	476.556	436.177	408.991	389.991
59.0	1273.574	1189.001	988.140	737.227	513.985	467.282	427.538	400.442	381.897
59.5	1268.061	1182.864	981.009	728.120	504.072	457.914	418.989	392.166	373.621
60.0	1262.103	1176.906	973.340	719.285	494.341	448.458	410.440	383.800	365.255
60.5	1256.679	1171.037	966.215	710.450	484.702	439.182	401.712	375.524	356.888
61.0	1251.987	1165.075	958.817	701.796	475.152	429.815	392.981	367.157	348.612
61.5	1246.296	1159.117	951.418	692.870	465.421	420.721	384.251	358.790	340.245
62.0	1239.696	1152.795	943.657	683.761	455.871	411.355	375.884	350.425	332.242
62.5	1234.094	1146.561	936.345	674.836	446.049	402.170	367.153	341.968	323.785
63.0	1228.492	1140.599	929.042	665.910	436.591	392.712	358.425	333.692	315.691
63.5	1222.890	1134.004	921.644	656.983	426.951	383.345	349.874	325.505	307.324
64.0	1217.377	1127.591	913.882	648.057	417.311	374.432	341.235	317.047	299.505
64.5	1210.866	1121.270	906.576	639.131	407.764	365.156	332.413	308.772	291.955
65.0	1204.630	1114.948	898.543	629.842	398.124	356.062	323.591	300.587	283.497
65.5	1198.306	1108.262	891.143	620.644	388.393	346.786	315.134	292.311	275.494
66.0	1192.158	1101.393	883.654	611.720	378.933	337.511	306.312	284.217	267.673
66.5	1186.371	1094.800	875.714	602.704	369.477	328.235	297.856	275.850	259.852
67.0	1179.860	1088.203	868.314	593.687	360.017	319.141	289.579	267.847	252.303
67.5	1173.532	1081.607	860.370	584.398	350.557	310.228	281.121	259.753	244.391
68.0	1167.294	1074.743	852.612	575.202	340.646	301.407	272.574	251.750	236.297
68.5	1160.692	1067.873	844.943	566.094	331.097	292.131	264.026	243.747	228.294
69.0	1154.912	1061.099	836.908	557.170	321.730	283.309	255.568	235.744	220.928
69.5	1148.400	1054.504	829.419	548.336	312.363	274.215	247.563	227.923	213.289
70.0	1142.251	1047.633	821.388	539.501	302.904	265.394	239.289	220.102	205.648
70.5	1135.920	1040.676	813.626	530.576	293.539	256.392	231.104	212.099	197.738
71.0	1129.772	1033.807	805.775	521.383	284.079	247.661	222.919	204.551	190.098
71.5	1123.530	1026.937	797.563	512.550	275.167	238.931	214.918	197.002	182.550
72.0	1116.756	1019.621	789.893	503.988	265.889	230.201	206.913	189.454	175.637
72.5	1110.332	1012.931	782.041	495.247	255.978	221.561	199.001	182.179	167.906
73.0	1103.646	1005.884	774.372	486.776	247.064	213.103	191.271	174.540	160.631
73.5	1097.133	998.654	766.616	478.032	237.880	204.918	183.450	167.082	153.174
74.0	1090.711	991.696	758.585	469.292	228.875	196.643	175.720	159.987	146.082
74.5	1083.752	984.381	750.823	460.644	220.144	188.458	168.172	152.802	139.443
75.0	1077.150	977.423	742.706	452.262	211.323	180.273	160.714	145.711	132.258
75.5	1070.370	970.193	734.950	443.524	202.681	172.270	153.255	138.435	125.436
76.0	1063.500	963.237	727.554	434.966	194.042	164.449	145.709	131.614	118.797
76.5	1056.621	955.918	719.617	426.855	185.402	156.719	138.251	124.521	112.251
77.0	1049.661	949.054	711.861	418.208	177.034	148.988	131.338	117.882	106.156
77.5	1042.699	941.829	704.106	410.190	168.485	141.349	124.155	111.152	99.790
78.0	1035.920	934.874	696.621	401.996	160.482	133.710	117.153	104.695	93.606
78.5	1028.594	927.652	689.225	394.250	152.388	126.252	110.241	98.327	87.422
79.0	1021.727	920.246	681.652	386.058	144.565	119.068	103.420	91.961	81.147
79.5	1014.765	913.293	674.258	378.135	136.653	111.975	96.779	85.595	75.417
80.0	1007.628	906.250	666.778	370.306	128.830	105.061	90.323	79.593	69.597
80.5	1000.488	899.120	659.294	362.927	121.282	98.149	83.957	73.591	63.958
81.0	993.800	892.259	652.356	355.549	114.004	91.419	77.772	67.770	58.138
81.5	986.931	884.853	645.149	348.173	106.911	84.961	71.677	62.041	52.500
82.0	979.972	877.993	638.212	340.798	99.908	78.595	65.586	56.403	47.227
82.5	973.734	871.769	631.368	333.693	92.906	72.501	59.946	51.217	42.221

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CANDELA TABULATION - (Cont.)

83.0	966.961	865.089	624.343	327.041	86.176	66.317	54.307	45.942	37.039
83.5	960.550	858.318	617.500	320.480	79.719	60.313	48.942	40.759	32.037
84.0	954.317	851.913	611.021	313.925	73.444	54.584	43.667	35.757	27.125
84.5	947.903	845.328	604.452	307.367	67.260	49.036	38.301	30.755	22.579
85.0	941.852	838.652	597.975	301.174	61.257	43.671	33.208	26.117	18.485
85.5	935.890	832.517	591.222	294.980	55.346	38.305	28.296	21.660	14.847
86.0	929.934	826.650	584.745	289.060	49.617	33.121	23.567	17.659	12.210
86.5	924.419	821.317	578.900	283.139	44.069	28.117	19.019	14.565	10.389
87.0	919.350	817.593	573.137	277.671	38.794	23.207	15.018	12.110	9.207
87.5	915.706	814.762	568.808	272.023	33.520	18.476	12.197	10.562	8.477
88.0	913.941	813.449	565.723	266.465	28.154	13.838	10.196	9.470	8.110
88.5	912.613	812.488	563.794	261.616	22.788	10.018	9.103	8.652	7.657
89.0	911.825	812.247	563.301	258.286	17.330	8.199	8.466	8.377	7.564
89.5	911.666	812.096	562.895	257.183	12.688	7.561	8.194	8.104	7.473
90.0	911.770	812.033	562.942	257.247	10.852	7.379	8.101	8.102	7.563
90.5	911.069	812.245	562.995	257.764	12.892	7.377	8.099	8.101	7.470
91.0	911.450	812.910	563.675	260.185	17.343	7.464	8.008	8.190	7.470
91.5	911.651	814.119	565.173	264.426	22.688	8.889	8.097	8.099	7.379
92.0	912.759	816.054	568.578	269.489	27.854	11.470	8.364	8.008	7.557
92.5	913.957	819.345	573.252	274.551	32.840	15.657	9.075	8.275	7.735
93.0	916.426	823.460	578.832	280.422	37.826	20.556	10.856	8.631	8.358
93.5	919.622	828.659	584.775	285.662	42.992	25.454	13.885	9.609	9.784
94.0	924.361	834.584	590.893	291.619	48.425	30.442	17.982	11.569	12.545
94.5	930.098	840.601	596.649	297.486	53.948	35.251	22.703	14.688	16.375
95.0	936.106	847.064	603.398	303.350	59.648	40.506	27.511	18.427	20.648
95.5	942.115	853.618	609.874	309.485	65.527	45.852	32.499	22.970	25.549
96.0	948.394	859.719	616.257	315.796	71.584	51.194	37.845	27.871	30.359
96.5	954.491	866.000	622.822	322.377	77.817	56.806	43.100	32.768	35.525
97.0	960.677	872.374	629.387	329.046	84.230	62.417	48.533	37.934	40.780
97.5	967.043	878.920	636.041	335.714	90.912	68.385	54.056	43.369	45.947
98.0	973.224	885.468	642.699	342.826	97.502	74.442	59.578	48.624	51.200
98.5	979.767	892.195	649.711	350.030	104.540	80.677	65.366	54.145	56.902
99.0	986.218	899.012	656.723	357.140	111.844	87.357	71.335	59.756	62.603
99.5	992.672	905.647	663.823	364.611	119.146	93.948	77.480	65.637	68.573
100.0	999.122	912.463	671.102	372.167	126.628	100.896	83.626	71.516	74.271
100.5	1005.573	919.365	678.289	379.725	134.288	107.844	90.039	77.394	80.328
101.0	1012.383	926.090	685.658	387.550	142.128	114.791	96.721	83.451	86.296
101.5	1018.655	932.809	692.932	395.286	150.054	122.275	103.312	89.597	92.620
102.0	1025.461	939.806	700.563	403.201	158.159	129.219	110.171	95.921	99.124
102.5	1032.000	946.529	707.927	411.024	166.265	137.059	117.029	102.423	105.537
103.0	1038.722	953.429	715.379	418.938	174.728	146.322	124.066	108.925	112.128
103.5	1045.438	960.243	722.920	427.029	183.279	153.982	131.191	115.606	118.630
104.0	1052.162	967.053	730.552	435.299	191.652	160.483	138.317	122.377	125.578
104.5	1058.695	974.224	738.089	443.390	200.203	168.679	145.799	129.323	132.525
105.0	1065.594	980.947	745.541	451.480	209.110	176.517	153.194	136.361	139.562
105.5	1071.506	987.848	753.258	459.751	217.930	184.801	160.674	143.398	146.599
106.0	1078.310	994.749	760.708	468.108	226.835	194.064	168.336	150.524	153.815
106.5	1084.671	1001.380	768.159	476.557	236.011	203.684	176.085	157.740	160.939
107.0	1091.299	1008.192	775.698	484.737	245.007	210.721	183.745	165.131	168.690
107.5	1097.926	1015.091	783.148	493.185	254.182	218.292	191.762	172.435	175.905
108.0	1104.285	1021.812	790.869	501.810	263.358	226.843	199.600	180.275	183.476
108.5	1110.553	1028.532	798.497	510.437	272.710	235.573	207.527	187.755	190.960
109.0	1117.270	1034.986	806.038	518.973	281.974	244.211	215.722	195.595	198.620
109.5	1123.449	1042.159	813.576	527.420	291.237	252.942	223.829	203.166	206.191
110.0	1129.897	1048.431	820.939	536.225	300.679	261.760	231.845	211.005	214.120
110.5	1136.167	1055.155	828.031	544.850	310.120	270.578	240.129	218.843	221.869

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CANDELA TABULATION - (Cont.)

111.0	1142.525	1061.431	835.479	553.476	319.651	279.487	248.413	226.772	229.797
111.5	1148.710	1067.973	843.022	562.281	329.182	288.394	256.607	234.789	237.368
112.0	1154.621	1074.520	850.379	570.995	338.712	297.391	265.069	242.805	245.026
112.5	1160.980	1080.975	857.920	579.888	348.512	306.565	273.620	250.732	252.866
113.0	1166.710	1087.430	865.373	588.601	357.953	315.739	281.993	258.660	260.883
113.5	1172.982	1093.797	872.730	597.674	367.484	325.005	290.632	266.854	269.077
114.0	1178.980	1099.890	880.089	606.388	377.282	334.090	299.452	274.960	277.094
114.5	1184.892	1106.166	887.450	615.191	386.723	343.442	309.961	283.334	285.110
115.0	1190.447	1112.534	894.811	624.085	396.345	352.707	321.184	291.618	293.306
115.5	1196.096	1118.809	902.081	632.888	406.054	362.149	329.200	299.723	301.234
116.0	1202.184	1124.638	909.533	641.691	415.762	371.413	334.724	308.007	309.874
116.5	1207.653	1130.917	916.533	650.496	425.293	380.676	342.385	316.291	317.979
117.0	1213.741	1137.194	924.074	659.388	435.004	390.296	352.541	324.752	326.443
117.5	1219.120	1142.931	931.164	668.102	444.891	399.472	363.942	332.858	334.457
118.0	1224.499	1149.116	938.345	676.996	454.332	409.091	373.025	341.411	342.832
118.5	1229.606	1154.858	945.884	685.708	464.130	418.535	379.264	349.514	351.115
119.0	1235.076	1160.419	952.889	694.602	473.841	427.798	386.211	358.245	359.668
119.5	1240.546	1166.871	960.068	703.316	483.549	436.973	394.762	366.618	367.683
120.0	1245.743	1172.705	967.160	711.941	493.438	446.325	403.491	375.168	376.592
120.5	1251.031	1178.357	974.252	720.388	503.058	455.858	412.309	383.632	384.786
121.0	1256.319	1183.918	981.435	729.191	512.410	465.121	421.038	392.272	393.161
121.5	1261.698	1189.751	988.349	737.725	522.208	474.295	429.767	402.515	401.534
122.0	1266.095	1195.403	995.443	746.530	531.917	483.560	438.854	414.185	410.084
122.5	1271.565	1199.982	1002.266	755.066	541.447	492.735	447.583	424.159	418.724
123.0	1276.945	1205.816	1009.269	763.600	551.069	502.178	456.492	430.753	427.275
123.5	1282.324	1211.286	1016.364	772.046	560.778	511.353	465.399	438.680	436.093
124.0	1286.812	1216.138	1023.455	780.493	570.219	520.705	474.397	449.014	447.941
124.5	1292.191	1221.699	1030.275	789.118	579.930	530.149	483.305	457.743	463.353
125.0	1296.861	1227.442	1037.371	797.652	589.371	539.145	492.390	463.622	473.238
125.5	1301.259	1232.203	1044.372	806.190	599.080	548.497	501.299	469.859	477.871
126.0	1306.547	1237.855	1050.932	814.367	608.522	557.760	510.295	478.140	479.474
126.5	1310.944	1242.798	1057.929	822.725	617.963	566.848	519.113	486.693	486.957
127.0	1315.614	1248.450	1065.381	831.083	627.585	576.289	528.020	495.335	495.507
127.5	1320.194	1253.211	1071.761	839.173	637.115	585.463	537.018	503.886	504.149
128.0	1324.591	1258.063	1077.958	847.618	646.468	594.905	546.105	512.525	512.967
128.5	1329.170	1263.715	1085.319	855.976	656.178	604.348	554.743	521.256	521.607
129.0	1333.750	1268.567	1091.699	864.156	665.798	613.523	564.098	530.162	530.425
129.5	1333.694	1273.329	1098.078	872.424	675.329	622.786	573.272	538.803	539.243
130.0	1338.364	1278.090	1105.439	880.693	684.770	632.050	582.357	547.443	548.063
130.5	1341.162	1282.851	1111.728	889.051	694.214	641.493	591.444	556.083	556.970
131.0	1345.559	1286.630	1118.107	897.139	703.833	650.756	600.261	564.814	565.699
131.5	1346.666	1290.774	1124.486	905.319	713.542	659.931	609.259	573.721	574.519
132.0	1353.645	1294.644	1130.866	913.409	723.073	669.105	618.522	582.539	583.604
132.5	1358.315	1298.424	1137.245	921.500	732.784	678.459	627.518	591.357	592.419
133.0	1360.313	1301.676	1143.625	929.412	742.403	687.634	636.871	599.999	601.242
133.5	1364.711	1304.656	1150.004	937.590	751.758	696.988	645.867	609.975	610.060
134.0	1371.071	1310.399	1156.293	945.860	761.199	706.341	655.132	618.704	619.147
134.5	1372.979	1314.269	1161.781	953.949	770.730	715.426	664.307	627.613	627.875
135.0	1377.467	1320.012	1168.161	962.220	780.260	724.956	673.301	636.609	637.231
135.5	1383.028	1322.901	1174.540	969.417	789.793	734.309	682.568	645.696	645.869
136.0	1384.844	1326.862	1180.647	977.688	799.234	743.663	691.564	654.334	654.956
136.5	1391.114	1330.824	1186.317	985.686	808.587	752.658	700.649	663.332	663.592
137.0	1391.239	1335.494	1191.715	993.865	818.119	762.099	709.824	672.152	673.039
137.5	1396.437	1340.346	1198.186	1001.245	827.385	771.546	718.642	680.966	681.946
138.0	1398.344	1343.326	1201.620	1009.152	836.731	780.626	727.632	689.783	690.304
138.5	1403.814	1349.069	1206.309	1016.441	845.729	789.800	736.810	699.139	699.842

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CANDELA TABULATION - (Cont.)

139.0	1406.884	1351.249	1212.688	1024.529	854.993	798.707	745.807	707.957	708.929
139.5	1409.410	1355.028	1217.195	1031.636	864.349	808.062	754.805	716.955	717.927
140.0	1412.207	1359.081	1222.775	1038.834	873.523	816.969	763.534	725.773	726.836
140.5	1416.878	1363.133	1225.592	1046.832	882.789	826.234	772.799	735.038	736.458
141.0	1419.585	1367.003	1230.190	1053.939	892.232	835.232	781.973	744.480	745.899
141.5	1423.273	1368.383	1236.569	1061.937	901.585	844.317	790.969	753.743	755.074
142.0	1425.362	1373.327	1241.076	1069.134	910.492	853.403	799.964	763.007	764.337
142.5	1428.160	1377.197	1246.656	1076.241	919.399	862.310	808.871	771.825	773.601
143.0	1432.557	1380.086	1251.163	1083.530	928.306	871.395	817.778	780.732	782.775
143.5	1436.337	1382.266	1255.761	1090.819	938.104	880.658	827.041	790.173	792.040
144.0	1434.681	1385.427	1261.250	1098.108	947.102	889.744	835.947	799.435	801.302
144.5	1439.533	1389.480	1265.848	1105.306	956.100	898.294	845.034	808.609	810.565
145.0	1444.022	1392.551	1269.555	1111.795	965.007	907.202	853.941	817.516	820.187
145.5	1444.238	1395.621	1275.934	1119.084	973.914	916.200	862.846	826.691	829.094
146.0	1446.945	1397.619	1279.551	1125.573	982.021	925.107	871.575	835.598	838.268
146.5	1451.888	1401.672	1284.240	1130.190	990.928	934.014	880.393	844.681	847.442
147.0	1453.887	1403.670	1288.747	1136.588	999.836	942.921	889.567	853.676	856.704
147.5	1457.666	1407.813	1292.545	1141.295	1007.943	952.010	898.385	862.761	865.611
148.0	1457.701	1408.211	1297.143	1146.803	1016.850	960.826	907.293	871.846	874.963
148.5	1458.008	1410.391	1299.959	1154.092	1024.957	968.843	916.291	880.931	884.051
149.0	1460.715	1414.444	1304.557	1160.490	1033.956	976.950	925.107	889.837	893.312
149.5	1462.095	1413.061	1307.374	1165.197	1041.972	985.948	934.014	898.476	902.221
150.0	1462.930	1416.931	1311.972	1172.577	1049.988	994.855	942.921	907.384	912.019
150.5	1465.819	1419.111	1317.552	1178.176	1058.005	1002.962	951.828	917.181	920.926
151.0	1465.945	1421.291	1318.678	1184.665	1066.112	1010.979	959.936	925.997	930.633
151.5	1468.924	1421.781	1324.167	1190.172	1074.219	1019.886	968.843	934.996	939.631
152.0	1469.141	1423.161	1326.183	1196.661	1082.327	1027.993	977.750	943.812	949.338
152.5	1468.376	1425.341	1329.982	1201.369	1090.343	1036.010	986.748	952.719	958.336
153.0	1468.593	1425.740	1333.780	1207.858	1097.560	1044.117	994.673	960.735	967.243
153.5	1471.482	1428.011	1336.597	1213.456	1102.104	1052.133	1003.671	970.533	976.150
154.0	1469.917	1429.391	1338.613	1219.946	1111.011	1061.131	1011.688	979.349	986.039
154.5	1471.915	1429.880	1340.448	1224.653	1117.246	1068.257	1020.595	988.256	995.037
155.0	1473.822	1431.170	1344.064	1229.361	1122.682	1076.456	1028.702	996.273	1003.853
155.5	1473.239	1430.859	1346.608	1235.050	1129.007	1084.381	1037.609	1005.180	1012.851
156.0	1470.693	1432.239	1348.261	1239.667	1137.024	1092.579	1045.717	1014.087	1021.667
156.5	1472.691	1433.711	1350.096	1245.356	1143.350	1097.033	1053.733	1022.903	1029.684
157.0	1473.616	1433.218	1352.822	1250.155	1150.566	1105.140	1061.749	1030.920	1038.682
157.5	1469.524	1433.799	1354.657	1253.881	1156.801	1112.266	1070.747	1039.827	1047.589
158.0	1469.794	1431.707	1356.765	1258.589	1163.127	1119.391	1078.764	1048.734	1056.496
158.5	1467.411	1432.288	1357.982	1262.496	1170.253	1124.827	1085.890	1056.750	1064.513
159.0	1464.955	1432.868	1360.089	1267.204	1176.579	1131.952	1091.234	1064.767	1073.420
159.5	1467.317	1433.358	1361.306	1272.003	1181.923	1139.969	1102.013	1073.674	1081.436
160.0	1464.407	1432.866	1362.614	1275.820	1189.140	1146.295	1106.467	1081.690	1090.343
160.5	1462.315	1432.282	1364.813	1278.837	1194.575	1153.511	1114.574	1089.707	1098.450
161.0	1463.059	1432.408	1366.121	1282.745	1199.029	1159.746	1120.809	1095.941	1107.267
161.5	1461.331	1429.153	1368.229	1286.562	1206.154	1166.872	1126.244	1103.958	1114.392
162.0	1460.149	1427.770	1366.065	1290.470	1210.608	1173.198	1134.261	1111.974	1117.773
162.5	1456.802	1425.587	1369.154	1291.705	1217.824	1180.415	1140.496	1118.209	1125.608
163.0	1455.855	1427.059	1368.772	1296.504	1222.369	1187.540	1149.494	1124.444	1132.461
163.5	1454.200	1424.167	1369.280	1298.540	1228.604	1192.976	1155.729	1132.461	1140.386
164.0	1454.689	1424.130	1370.588	1301.557	1233.057	1198.320	1161.964	1139.586	1147.421
164.5	1451.798	1421.329	1370.206	1303.592	1238.493	1204.555	1170.071	1147.694	1157.037
165.0	1448.997	1421.201	1370.714	1306.609	1243.837	1211.680	1177.197	1153.929	1164.162
165.5	1444.415	1416.619	1370.422	1309.536	1249.272	1216.225	1182.541	1160.164	1170.398
166.0	1444.378	1414.891	1369.949	1312.553	1253.726	1221.569	1188.867	1168.180	1179.123
166.5	1442.377	1413.072	1370.548	1315.570	1257.289	1227.895	1195.902	1175.306	1187.139

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	1440.195	1411.253	1369.366	1315.115	1261.833	1232.349	1203.118	1181.632	1194.265
167.5	1436.322	1407.835	1369.074	1317.333	1265.487	1237.693	1207.572	1189.739	1200.500
168.0	1430.140	1405.216	1368.783	1319.550	1269.940	1243.128	1214.789	1196.865	1207.716
168.5	1429.212	1403.124	1368.491	1321.859	1274.394	1248.473	1222.005	1204.081	1214.751
169.0	1423.830	1400.051	1366.418	1320.513	1278.938	1253.817	1226.368	1209.426	1220.895
169.5	1421.121	1396.724	1366.127	1323.530	1281.520	1257.380	1233.494	1217.442	1226.149
170.0	1418.411	1393.305	1364.944	1324.057	1284.192	1262.815	1238.929	1222.786	1233.274
170.5	1415.792	1391.759	1362.072	1325.475	1286.955	1267.268	1243.473	1229.112	1239.600
171.0	1410.320	1388.523	1362.762	1326.093	1288.736	1271.722	1248.018	1235.347	1245.035
171.5	1406.011	1385.286	1358.907	1326.711	1293.281	1274.485	1253.453	1241.764	1252.161
172.0	1403.665	1381.250	1358.798	1328.128	1296.935	1278.938	1258.797	1245.327	1257.323
172.5	1399.447	1377.305	1355.925	1327.855	1299.516	1283.392	1264.141	1252.453	1264.358
173.0	1393.538	1374.068	1353.234	1327.674	1301.388	1287.846	1269.486	1257.797	1267.830
173.5	1390.392	1370.032	1352.416	1329.273	1303.079	1289.627	1273.939	1262.250	1274.156
174.0	1387.065	1366.886	1348.834	1329.091	1303.969	1294.081	1277.502	1267.686	1280.300
174.5	1381.865	1361.159	1346.325	1328.909	1306.733	1298.534	1281.865	1273.030	1282.972
175.0	1376.665	1357.214	1343.816	1327.037	1309.405	1301.206	1285.428	1277.392	1288.226
175.5	1371.556	1353.451	1341.398	1328.818	1311.095	1302.897	1289.972	1281.937	1291.788
176.0	1370.192	1349.778	1339.071	1328.727	1312.967	1306.551	1294.335	1286.482	1299.005
176.5	1362.775	1344.506	1336.835	1327.928	1313.767	1308.332	1299.770	1291.026	1301.768
177.0	1358.921	1341.197	1332.999	1327.928	1313.949	1311.004	1300.661	1295.389	1306.222
177.5	1353.194	1336.198	1331.927	1326.146	1315.640	1311.895	1305.114	1298.951	1308.803
178.0	1347.831	1333.162	1330.054	1326.146	1316.530	1314.567	1307.695	1304.387	1316.019
178.5	1342.123	1327.636	1327.382	1325.255	1316.530	1317.239	1310.368	1307.859	1320.382
179.0	1338.287	1325.764	1323.819	1325.255	1317.421	1318.130	1314.912	1311.421	1322.164
179.5	1334.633	1322.292	1322.038	1323.474	1317.421	1319.911	1316.694	1314.185	1329.380
180.0	1320.783	1320.783	1320.783	1320.783	1320.783	1320.783	1320.783	1320.783	1320.783

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-950U-L50-950D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	490.37	N.A.	5.50
0-30	1041.68	N.A.	11.70
0-40	1708.73	N.A.	19.20
0-60	3094.9	N.A.	34.70
0-80	4144.98	N.A.	46.50
0-90	4474.84	N.A.	50.20
10-90	4348.16	N.A.	48.80
20-40	1218.36	N.A.	13.70
20-50	1925.64	N.A.	21.60
40-70	1976.36	N.A.	22.20
60-80	1050.09	N.A.	11.80
70-80	459.89	N.A.	5.20
80-90	329.85	N.A.	3.70
90-110	786.78	N.A.	8.80
90-120	1372.82	N.A.	15.40
90-130	2046.9	N.A.	23.00
90-150	3409.82	N.A.	38.20
90-180	4439.93	N.A.	49.80
110-180	3653.15	N.A.	41.00
0-180	8914.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.68
10-20	363.69
20-30	551.30
30-40	667.05
40-50	707.29
50-60	678.88
60-70	590.19
70-80	459.89
80-90	329.86
90-100	329.37
100-110	457.41
110-120	586.03
120-130	674.09
130-140	701.88
140-150	661.04
150-160	545.42
160-170	359.42
170-180	125.26

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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-L50-950U-L50-950D-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

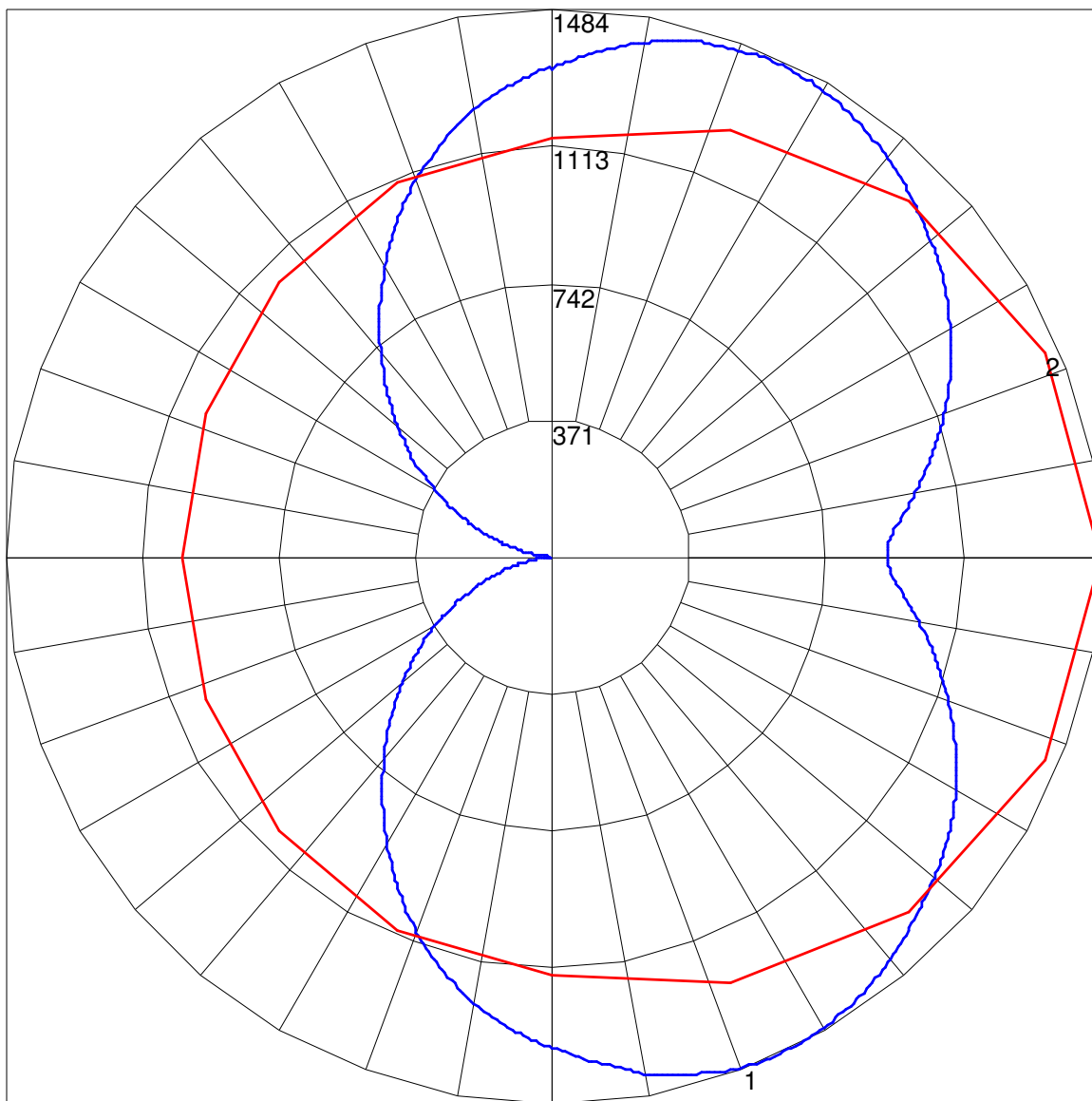
X=2H	Y=2H	21.4	22.3	22.3	23.3	24.5	15.4	16.3	16.3	17.3	18.5
	3H	24.5	25.3	25.4	26.3	27.6	16.7	17.6	17.7	18.5	19.8
	4H	26.1	26.8	27.0	27.8	29.1	17.2	18.0	18.1	18.9	20.2
	6H	27.8	28.5	28.7	29.5	30.8	17.4	18.1	18.4	19.1	20.4
	8H	28.7	29.4	29.6	30.4	31.7	17.5	18.2	18.4	19.2	20.5
	12H	29.7	30.3	30.7	31.3	32.7	17.5	18.1	18.5	19.1	20.5

UGR Viewed Endwise

4H	2H	21.7	22.4	22.6	23.4	24.7	16.6	17.4	17.6	18.4	19.7
	3H	25.0	25.6	26.0	26.6	28.0	18.3	18.9	19.3	19.9	21.3
	4H	26.7	27.4	27.7	28.4	29.7	18.8	19.5	19.8	20.5	21.8
	6H	28.6	29.2	29.7	30.2	31.5	19.2	19.8	20.2	20.8	22.1
	8H	29.7	30.1	30.7	31.2	32.5	19.3	19.8	20.3	20.8	22.2
	12H	30.8	31.2	31.8	32.3	33.6	19.4	19.8	20.4	20.9	22.2
8H	4H	26.9	27.4	27.9	28.4	29.7	20.0	20.5	21.0	21.5	22.8
	6H	28.9	29.4	30.0	30.4	31.8	20.6	21.0	21.6	22.1	23.4
	8H	30.1	30.5	31.1	31.5	32.9	20.8	21.2	21.8	22.2	23.6
	12H	31.4	31.7	32.4	32.8	34.2	20.9	21.3	22.0	22.3	23.7
12H	4H	26.8	27.3	27.9	28.3	29.7	20.3	20.8	21.3	21.8	23.1
	6H	29.0	29.3	30.0	30.4	31.8	21.1	21.5	22.2	22.5	23.9
	8H	30.2	30.5	31.2	31.5	32.9	21.4	21.8	22.5	22.8	24.2

Maximum UGR = 34.2

POLAR GRAPH



Maximum Candela = 1484.307 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.)