

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-830U-L50-830D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-00-L50-830U-L50-830D-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	9916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	20474	19388	18587
55	20353	18552	17049
65	20388	17909	15232
75	20743	17504	12568
85	21804	17904	8776

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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	1484.069	1484.069	1484.069	1484.069	1484.069	1484.069	1484.069	1484.069	1484.069
0.5	1486.155	1488.632	1485.873	1491.526	1481.410	1489.107	1479.110	1479.032	1479.173
1.0	1490.201	1492.162	1491.328	1492.736	1480.497	1486.885	1474.866	1474.787	1475.027
1.5	1495.557	1496.902	1492.934	1495.969	1480.497	1482.740	1472.644	1469.630	1467.946
2.0	1500.099	1502.753	1496.563	1496.266	1479.387	1479.606	1468.598	1465.485	1463.800
2.5	1506.664	1506.778	1501.402	1497.575	1478.375	1477.582	1464.551	1462.450	1459.853
3.0	1511.007	1512.827	1505.230	1497.872	1477.363	1475.559	1461.516	1456.380	1454.696
3.5	1516.759	1518.162	1508.046	1501.303	1477.363	1471.414	1456.458	1452.235	1451.661
4.0	1524.336	1523.496	1512.885	1501.601	1475.241	1467.367	1454.435	1447.177	1444.580
4.5	1527.767	1527.918	1516.712	1500.985	1474.229	1466.356	1449.377	1442.119	1438.411
5.0	1529.670	1533.451	1520.024	1504.317	1472.206	1461.297	1443.307	1436.961	1432.440
5.5	1536.731	1537.972	1521.113	1504.714	1469.171	1456.239	1440.273	1431.903	1429.406
6.0	1541.471	1541.581	1524.028	1504.098	1467.049	1455.129	1436.226	1427.758	1423.237
6.5	1545.298	1548.422	1527.042	1503.582	1465.125	1451.181	1430.970	1420.577	1417.266
7.0	1549.126	1552.745	1529.045	1503.780	1464.014	1447.948	1425.912	1414.409	1410.086
7.5	1553.031	1556.353	1531.146	1503.363	1458.857	1442.890	1419.842	1409.351	1403.004
8.0	1560.545	1558.950	1533.743	1500.725	1455.822	1437.832	1414.784	1403.182	1395.923
8.5	1567.205	1562.757	1536.340	1502.232	1454.811	1434.797	1409.627	1397.112	1388.941
9.0	1576.304	1566.762	1538.640	1500.605	1449.753	1429.640	1403.458	1388.920	1381.860
9.5	1580.804	1570.250	1540.027	1501.100	1446.619	1423.571	1397.389	1382.751	1379.836
10.0	1585.821	1575.663	1541.315	1499.671	1443.584	1419.425	1392.330	1376.682	1368.709
10.5	1590.738	1578.854	1543.614	1498.143	1438.526	1414.466	1386.162	1369.501	1363.750
11.0	1593.731	1581.133	1545.002	1495.703	1436.403	1409.309	1378.981	1364.443	1356.668
11.5	1596.427	1584.721	1545.377	1493.263	1430.334	1403.239	1373.011	1356.251	1347.564
12.0	1598.112	1587.297	1546.764	1492.846	1426.287	1400.105	1366.842	1349.170	1339.570
12.5	1603.941	1591.896	1547.239	1490.405	1423.153	1391.913	1359.761	1342.089	1332.489
13.0	1607.232	1594.373	1547.911	1487.965	1419.107	1386.855	1352.580	1333.897	1322.571
13.5	1609.808	1597.664	1548.584	1486.536	1412.026	1380.786	1346.411	1325.705	1316.699
14.0	1614.705	1599.744	1549.356	1484.195	1408.892	1372.594	1337.307	1317.612	1307.892
14.5	1618.094	1601.924	1547.906	1480.644	1403.834	1367.535	1330.127	1309.519	1298.887
15.0	1618.151	1602.993	1548.381	1478.303	1396.653	1361.367	1323.045	1301.426	1289.881
15.5	1620.253	1604.161	1548.240	1473.740	1390.584	1355.198	1314.853	1292.321	1284.823
16.0	1621.145	1606.341	1547.088	1469.991	1385.427	1348.117	1308.685	1284.228	1272.584
16.5	1625.504	1608.521	1548.970	1468.661	1380.368	1341.035	1300.592	1277.147	1266.515
17.0	1630.281	1607.666	1548.830	1464.098	1375.310	1332.843	1293.411	1267.944	1260.544
17.5	1631.032	1610.956	1547.578	1458.425	1368.130	1327.686	1284.208	1261.775	1250.329
18.0	1633.905	1610.101	1546.327	1456.084	1361.049	1317.471	1275.103	1252.670	1243.248
18.5	1637.790	1611.368	1544.778	1451.719	1353.868	1311.401	1270.958	1247.612	1234.044
19.0	1636.815	1612.635	1544.439	1448.564	1347.799	1303.209	1262.865	1238.508	1224.940
19.5	1641.393	1612.792	1541.879	1444.497	1340.618	1297.041	1253.661	1229.403	1214.724
20.0	1643.651	1612.135	1541.540	1439.121	1334.549	1288.948	1249.615	1220.299	1205.620
20.5	1644.303	1613.402	1538.067	1434.756	1328.380	1280.756	1240.411	1211.095	1195.405
21.0	1644.856	1612.646	1536.717	1428.765	1319.275	1272.663	1231.306	1201.991	1186.300
21.5	1646.520	1613.100	1534.256	1425.709	1313.107	1268.517	1223.214	1191.874	1176.184
22.0	1648.679	1612.740	1531.894	1421.741	1305.014	1258.401	1214.010	1182.770	1165.969
22.5	1649.925	1612.380	1529.432	1416.563	1296.822	1251.122	1204.806	1173.665	1156.864
23.0	1649.049	1612.933	1527.070	1411.286	1289.641	1241.005	1195.702	1163.549	1146.649
23.5	1649.284	1611.859	1525.621	1403.986	1280.537	1236.959	1186.498	1153.433	1136.533
24.0	1650.431	1611.698	1522.247	1400.117	1274.467	1228.767	1177.295	1144.229	1125.405
24.5	1651.083	1611.338	1519.885	1394.224	1265.263	1219.662	1168.190	1134.212	1116.301
25.0	1649.712	1611.077	1515.499	1389.959	1262.229	1210.360	1158.986	1123.997	1106.085
25.5	1647.329	1608.793	1513.137	1384.781	1255.048	1201.255	1149.882	1113.881	1094.958
26.0	1647.981	1608.236	1509.764	1376.568	1247.967	1192.052	1139.667	1104.776	1085.754
26.5	1646.708	1605.655	1506.489	1370.280	1238.763	1182.947	1130.463	1094.660	1074.527

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CANDELA TABULATION - (Cont.)

27.0	1644.425	1604.085	1504.325	1365.101	1229.560	1173.645	1120.347	1084.544	1064.411
27.5	1644.362	1603.527	1498.214	1359.924	1221.368	1164.540	1111.143	1074.329	1054.196
28.0	1645.014	1600.946	1494.225	1350.600	1212.263	1154.325	1101.940	1064.213	1043.068
28.5	1642.334	1598.365	1491.148	1346.335	1204.170	1145.220	1091.824	1054.097	1032.853
29.0	1640.149	1597.807	1488.072	1338.122	1194.054	1136.017	1081.707	1042.969	1022.737
29.5	1639.690	1593.203	1484.182	1329.711	1184.851	1125.900	1071.492	1032.853	1012.115
30.0	1638.914	1590.424	1480.094	1324.434	1175.647	1115.586	1062.388	1022.638	1001.598
30.5	1636.332	1588.140	1476.006	1317.233	1166.542	1106.482	1052.173	1012.420	991.480
31.0	1635.973	1586.570	1472.017	1309.833	1157.438	1096.266	1042.056	1002.203	980.961
31.5	1633.788	1584.803	1465.905	1306.579	1148.234	1086.150	1031.940	992.188	970.544
32.0	1630.393	1582.221	1462.928	1298.168	1138.118	1076.947	1021.725	981.766	960.527
32.5	1631.045	1578.629	1457.729	1293.903	1128.915	1066.732	1011.508	971.650	949.909
33.0	1625.528	1577.158	1453.443	1286.702	1119.810	1056.615	1001.290	961.030	939.287
33.5	1626.478	1572.455	1448.145	1278.390	1109.595	1046.400	991.174	950.813	929.070
34.0	1625.106	1568.961	1441.835	1271.090	1099.479	1036.284	980.959	940.798	918.450
34.5	1621.910	1565.369	1435.526	1262.679	1089.263	1027.080	970.742	930.378	908.131
35.0	1618.119	1561.776	1431.339	1254.367	1079.147	1016.661	960.727	920.161	898.116
35.5	1615.736	1559.294	1426.954	1247.066	1070.043	1006.446	950.712	909.843	887.596
36.0	1611.924	1553.678	1420.842	1238.755	1059.927	996.228	940.495	899.726	877.077
36.5	1609.740	1550.085	1416.556	1230.443	1048.799	986.013	929.875	889.813	866.657
37.0	1606.246	1547.603	1409.136	1222.032	1038.584	976.099	919.961	879.395	856.136
37.5	1603.149	1542.086	1402.727	1213.720	1028.467	965.581	909.845	868.874	846.225
38.0	1601.876	1537.482	1398.639	1205.408	1018.351	955.363	899.526	858.961	835.504
38.5	1595.546	1533.988	1390.306	1197.096	1008.035	944.944	889.410	848.644	824.882
39.0	1592.449	1531.506	1384.909	1187.773	997.514	934.931	879.092	838.528	814.563
39.5	1588.043	1525.890	1385.681	1179.362	987.297	924.713	869.178	828.210	804.346
40.0	1586.870	1522.397	1379.471	1171.050	976.776	914.193	859.165	818.096	794.432
40.5	1580.737	1518.705	1373.260	1161.726	966.257	903.977	848.745	807.977	784.215
41.0	1576.133	1513.386	1366.852	1153.315	956.040	893.760	838.629	797.762	773.799
41.5	1571.013	1508.782	1360.641	1144.190	945.317	883.140	828.311	787.848	763.782
42.0	1569.740	1505.090	1353.221	1135.977	934.897	873.427	818.197	777.532	753.769
42.5	1565.532	1500.585	1346.912	1127.764	924.377	863.110	807.979	767.213	743.854
43.0	1560.313	1492.946	1340.404	1119.750	913.858	852.691	797.863	757.502	733.337
43.5	1557.831	1489.353	1334.194	1110.624	902.831	842.271	787.444	747.084	723.522
44.0	1552.512	1484.749	1326.972	1101.499	892.513	832.056	777.024	736.867	713.912
44.5	1548.304	1480.244	1319.452	1092.274	881.790	821.940	766.809	726.854	703.899
45.0	1545.207	1476.651	1313.242	1083.963	871.269	811.219	756.693	716.536	694.086
45.5	1538.579	1470.122	1305.921	1074.841	860.750	800.898	746.172	706.622	683.770
46.0	1538.120	1465.617	1298.600	1065.821	850.027	790.478	736.056	696.607	673.856
46.5	1531.988	1463.036	1292.290	1056.698	839.403	780.162	725.636	686.392	664.347
47.0	1529.704	1461.467	1284.969	1047.375	828.379	769.844	715.419	676.577	654.739
47.5	1526.310	1457.259	1277.549	1038.553	817.453	759.323	705.204	666.463	644.521
48.0	1522.201	1451.345	1270.525	1029.731	806.629	748.501	695.187	656.853	634.607
48.5	1515.573	1446.027	1262.907	1020.808	796.007	737.980	684.769	646.840	624.795
49.0	1511.464	1440.411	1255.685	1011.581	785.387	727.560	674.552	637.128	614.780
49.5	1507.455	1434.795	1248.265	1002.357	774.664	717.343	664.537	627.318	605.271
50.0	1508.007	1430.389	1240.844	993.335	763.840	706.925	654.524	617.505	595.256
50.5	1500.764	1424.773	1233.622	984.013	753.117	696.202	644.205	608.196	585.546
51.0	1499.393	1419.355	1226.400	974.993	742.495	685.884	634.190	598.284	575.736
51.5	1494.372	1413.838	1217.969	965.668	731.873	675.262	623.973	588.472	566.226
52.0	1489.350	1407.211	1210.449	955.942	721.048	665.045	614.160	578.863	556.920
52.5	1485.043	1401.694	1203.227	946.821	710.427	654.728	604.148	569.253	547.208
53.0	1479.724	1395.979	1194.895	937.295	699.703	644.207	594.031	559.643	537.395
53.5	1474.406	1390.561	1187.373	927.872	689.284	633.586	583.915	550.134	527.585
54.0	1469.483	1384.846	1179.548	918.245	678.462	623.368	573.900	540.321	518.883
54.5	1464.165	1378.615	1171.418	908.517	668.042	613.252	563.989	530.915	509.277

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55.0	1459.044	1372.900	1163.694	899.094	657.420	602.733	553.973	521.203	499.563
55.5	1453.824	1366.272	1156.068	889.265	646.899	592.113	544.062	511.593	490.256
56.0	1448.704	1360.755	1148.142	879.741	636.176	581.894	534.247	502.387	480.446
56.5	1443.782	1354.128	1139.910	869.811	625.552	571.476	524.032	492.474	471.442
57.0	1438.562	1348.710	1131.784	859.981	614.831	561.257	514.521	483.371	462.538
57.5	1432.331	1342.181	1123.953	850.154	604.308	550.639	504.811	473.558	452.728
58.0	1426.814	1335.455	1115.926	840.021	593.385	540.319	494.796	464.353	443.320
58.5	1421.891	1328.927	1107.700	830.194	582.662	530.101	485.186	454.945	433.810
59.0	1416.672	1322.596	1099.167	820.061	571.736	519.785	475.575	445.436	424.807
59.5	1410.540	1315.770	1091.235	809.931	560.710	509.365	466.066	436.230	415.601
60.0	1403.912	1309.143	1082.704	800.104	549.885	498.847	456.557	426.923	406.295
60.5	1397.879	1302.614	1074.778	790.276	539.162	488.528	446.848	417.717	396.988
61.0	1392.659	1295.983	1066.549	780.649	528.540	478.109	437.136	408.411	387.782
61.5	1386.329	1289.355	1058.319	770.721	517.716	467.993	427.425	399.104	378.475
62.0	1378.987	1282.323	1049.685	760.588	507.092	457.575	418.118	389.799	369.573
62.5	1372.756	1275.388	1041.553	750.660	496.167	447.358	408.406	380.391	360.165
63.0	1366.525	1268.756	1033.429	740.731	485.646	436.837	398.697	371.185	351.162
63.5	1360.294	1261.420	1025.199	730.801	474.923	426.417	389.186	362.079	341.855
64.0	1354.161	1254.287	1016.565	720.872	464.200	416.503	379.575	352.671	333.157
64.5	1346.919	1247.255	1008.439	710.944	453.580	406.185	369.763	343.465	324.758
65.0	1339.981	1240.223	999.503	700.611	442.857	396.069	359.950	334.361	315.350
65.5	1332.947	1232.786	991.272	690.379	432.032	385.750	350.542	325.155	306.448
66.0	1326.109	1225.145	982.941	680.453	421.510	375.434	340.729	316.151	297.748
66.5	1319.671	1217.811	974.109	670.423	410.991	365.116	331.324	306.845	289.048
67.0	1312.428	1210.473	965.877	660.394	400.468	355.000	322.116	297.942	280.652
67.5	1305.390	1203.135	957.041	650.061	389.945	345.086	312.708	288.939	271.851
68.0	1298.450	1195.501	948.411	639.831	378.921	335.273	303.201	280.037	262.848
68.5	1291.107	1187.859	939.880	629.700	368.299	324.954	293.692	271.135	253.946
69.0	1284.677	1180.323	930.942	619.774	357.879	315.142	284.284	262.232	245.751
69.5	1277.434	1172.988	922.612	609.947	347.459	305.026	275.379	253.532	237.254
70.0	1270.594	1165.344	913.678	600.119	336.939	295.213	266.176	244.833	228.754
70.5	1263.551	1157.606	905.044	590.191	326.521	285.200	257.071	235.930	219.955
71.0	1256.713	1149.965	896.311	579.965	315.998	275.489	247.966	227.534	211.458
71.5	1249.770	1142.324	887.177	570.140	306.084	265.777	239.066	219.138	203.061
72.0	1242.234	1134.185	878.644	560.616	295.764	256.066	230.162	210.741	195.371
72.5	1235.088	1126.744	869.911	550.893	284.739	246.455	221.361	202.648	186.772
73.0	1227.651	1118.904	861.380	541.470	274.823	237.047	212.762	194.151	178.679
73.5	1220.406	1110.863	852.753	531.744	264.608	227.943	204.063	185.856	170.384
74.0	1213.262	1103.122	843.819	522.022	254.591	218.737	195.464	177.963	162.496
74.5	1205.522	1094.986	835.185	512.401	244.880	209.633	187.067	169.971	155.111
75.0	1198.178	1087.245	826.157	503.078	235.067	200.528	178.772	162.083	147.119
75.5	1190.636	1079.204	817.529	493.358	225.455	191.626	170.475	153.990	139.530
76.0	1182.995	1071.466	809.301	483.838	215.844	182.926	162.081	146.403	132.145
76.5	1175.343	1063.325	800.473	474.816	206.234	174.327	153.785	138.512	124.864
77.0	1167.601	1055.690	791.845	465.197	196.925	165.729	146.095	131.127	118.084
77.5	1159.856	1047.652	783.220	456.279	187.416	157.231	138.105	123.641	111.002
78.0	1152.316	1039.916	774.893	447.164	178.514	148.733	130.316	116.459	104.123
78.5	1144.167	1031.882	766.666	438.548	169.510	140.438	122.628	109.375	97.244
79.0	1136.528	1023.645	758.242	429.435	160.808	132.446	115.040	102.294	90.264
79.5	1128.783	1015.911	750.017	420.622	152.007	124.556	107.654	95.213	83.891
80.0	1120.845	1008.075	741.697	411.914	143.305	116.865	100.471	88.536	77.417
80.5	1112.902	1000.145	733.372	403.705	134.909	109.177	93.390	81.859	71.145
81.0	1105.463	992.512	725.655	395.498	126.814	101.691	86.511	75.385	64.670
81.5	1097.822	984.275	717.638	387.294	118.923	94.507	79.731	69.012	58.398
82.0	1090.082	976.644	709.921	379.089	111.134	87.425	72.955	62.740	52.533
82.5	1083.142	969.721	702.309	371.187	103.344	80.648	66.681	56.972	46.965

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CANDELA TABULATION - (Cont.)

83.0	1075.608	962.290	694.494	363.787	95.859	73.769	60.409	51.104	41.201
83.5	1068.477	954.759	686.882	356.489	88.676	67.090	54.441	45.338	35.637
84.0	1061.544	947.634	679.675	349.197	81.696	60.717	48.573	39.774	30.172
84.5	1054.409	940.308	672.368	341.903	74.817	54.546	42.605	34.210	25.116
85.0	1047.678	932.882	665.163	335.014	68.140	48.577	36.940	29.051	20.562
85.5	1041.046	926.058	657.652	328.124	61.565	42.609	31.475	24.094	16.515
86.0	1034.421	919.532	650.447	321.538	55.192	36.843	26.215	19.643	13.582
86.5	1028.286	913.600	643.945	314.952	49.021	31.277	21.156	16.202	11.556
87.0	1022.648	909.458	637.534	308.870	43.153	25.814	16.705	13.470	10.241
87.5	1018.594	906.308	632.720	302.588	37.286	20.552	13.567	11.748	9.430
88.0	1016.631	904.848	629.288	296.404	31.317	15.392	11.342	10.534	9.021
88.5	1015.154	903.779	627.141	291.012	25.349	11.143	10.126	9.624	8.518
89.0	1014.277	903.511	626.593	287.307	19.277	9.120	9.418	9.319	8.414
89.5	1014.100	903.342	626.142	286.080	14.114	8.410	9.114	9.015	8.313
90.0	1014.216	903.273	626.194	286.151	12.072	8.208	9.011	9.013	8.412
90.5	1013.436	903.509	626.253	286.726	14.340	8.206	9.009	9.011	8.309
91.0	1013.860	904.249	627.009	289.419	19.292	8.303	8.908	9.110	8.309
91.5	1014.084	905.593	628.676	294.137	25.237	9.888	9.007	9.009	8.208
92.0	1015.317	907.745	632.463	299.768	30.983	12.759	9.304	8.908	8.406
92.5	1016.649	911.406	637.662	305.399	36.530	17.416	10.095	9.205	8.604
93.0	1019.395	915.984	643.869	311.930	42.076	22.865	12.076	9.601	9.298
93.5	1022.951	921.767	650.480	317.759	47.823	28.315	15.445	10.689	10.883
94.0	1028.222	928.357	657.285	324.385	53.867	33.863	20.002	12.869	13.954
94.5	1034.604	935.051	663.688	330.911	60.010	39.211	25.254	16.338	18.215
95.0	1041.287	942.240	671.195	337.434	66.351	45.057	30.602	20.498	22.968
95.5	1047.970	949.530	678.399	344.258	72.890	51.004	36.150	25.551	28.420
96.0	1054.955	956.317	685.499	351.278	79.627	56.946	42.097	31.002	33.770
96.5	1061.737	963.303	692.802	358.599	86.561	63.188	47.943	36.450	39.517
97.0	1068.618	970.393	700.104	366.018	93.694	69.430	53.986	42.196	45.362
97.5	1075.700	977.675	707.506	373.434	101.127	76.069	60.129	48.242	51.109
98.0	1082.575	984.959	714.912	381.346	108.457	82.806	66.272	54.088	56.953
98.5	1089.853	992.441	722.712	389.359	116.287	89.742	72.710	60.228	63.296
99.0	1097.030	1000.024	730.513	397.269	124.411	97.172	79.351	66.471	69.637
99.5	1104.208	1007.405	738.410	405.579	132.533	104.504	86.185	73.012	76.277
100.0	1111.383	1014.987	746.507	413.984	140.856	112.233	93.022	79.551	82.616
100.5	1118.559	1022.665	754.501	422.391	149.377	119.961	100.155	86.090	89.354
101.0	1126.134	1030.145	762.698	431.096	158.098	127.689	107.588	92.828	95.992
101.5	1133.111	1037.619	770.789	439.701	166.914	136.014	114.920	99.664	103.026
102.0	1140.681	1045.402	779.279	448.504	175.930	143.738	122.549	106.699	110.261
102.5	1147.955	1052.880	787.469	457.207	184.946	152.459	130.178	113.931	117.395
103.0	1155.433	1060.556	795.758	466.010	194.361	162.763	138.006	121.164	124.727
103.5	1162.902	1068.135	804.146	475.010	203.872	171.284	145.932	128.595	131.960
104.0	1170.382	1075.710	812.636	484.209	213.186	178.514	153.858	136.127	139.688
104.5	1177.650	1083.688	821.020	493.209	222.697	187.632	162.181	143.853	147.416
105.0	1185.324	1091.166	829.310	502.208	232.605	196.351	170.407	151.683	155.243
105.5	1191.900	1098.842	837.894	511.408	242.416	205.565	178.727	159.510	163.071
106.0	1199.468	1106.518	846.181	520.705	252.322	215.869	187.250	167.436	171.098
106.5	1206.544	1113.895	854.469	530.103	262.529	226.570	195.870	175.464	179.022
107.0	1213.916	1121.472	862.855	539.202	272.536	234.397	204.391	183.685	187.644
107.5	1221.289	1129.146	871.142	548.600	282.741	242.819	213.308	191.810	195.670
108.0	1228.362	1136.622	879.731	558.193	292.949	252.330	222.027	200.531	204.091
108.5	1235.334	1144.098	888.216	567.790	303.352	262.042	230.845	208.851	212.416
109.0	1242.806	1151.276	896.605	577.284	313.656	271.651	239.960	217.572	220.937
109.5	1249.679	1159.256	904.989	586.680	323.961	281.363	248.978	225.994	229.359
110.0	1256.852	1166.232	913.179	596.475	334.463	291.172	257.896	234.713	238.179
110.5	1263.826	1173.712	921.068	606.069	344.965	300.980	267.110	243.432	246.799

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CANDELA TABULATION - (Cont.)

111.0	1270.899	1180.693	929.353	615.665	355.567	310.890	276.324	252.252	255.617
111.5	1277.778	1187.970	937.744	625.459	366.168	320.798	285.440	261.169	264.038
112.0	1284.354	1195.252	945.928	635.152	376.770	330.805	294.852	270.086	272.557
112.5	1291.428	1202.433	954.316	645.043	387.671	341.010	304.364	278.904	281.278
113.0	1297.801	1209.614	962.605	654.736	398.173	351.216	313.677	287.723	290.195
113.5	1304.777	1216.695	970.789	664.828	408.774	361.522	323.288	296.838	299.311
114.0	1311.450	1223.474	978.976	674.521	419.673	371.628	333.099	305.854	308.228
114.5	1318.026	1230.454	987.164	684.313	430.175	382.031	344.788	315.170	317.145
115.0	1324.206	1237.538	995.352	694.207	440.878	392.338	357.272	324.384	326.262
115.5	1330.488	1244.518	1003.439	703.999	451.678	402.840	366.189	333.400	335.080
116.0	1337.260	1251.001	1011.728	713.791	462.477	413.144	372.334	342.614	344.691
116.5	1343.345	1257.986	1019.514	723.585	473.079	423.448	380.855	351.829	353.707
117.0	1350.117	1264.968	1027.902	733.476	483.880	434.149	392.152	361.241	363.122
117.5	1356.100	1271.350	1035.789	743.170	494.878	444.356	404.834	370.257	372.037
118.0	1362.084	1278.230	1043.777	753.063	505.381	455.057	414.938	379.771	381.352
118.5	1367.764	1284.618	1052.163	762.754	516.279	465.561	421.878	388.785	390.567
119.0	1373.848	1290.803	1059.955	772.647	527.081	475.865	429.606	398.497	400.080
119.5	1379.933	1297.980	1067.941	782.340	537.881	486.071	439.118	407.811	408.995
120.0	1385.714	1304.469	1075.830	791.934	548.881	496.474	448.827	417.322	418.905
120.5	1391.596	1310.756	1083.719	801.330	559.581	507.077	458.636	426.737	428.021
121.0	1397.478	1316.942	1091.709	811.122	569.984	517.382	468.346	436.348	437.336
121.5	1403.462	1323.431	1099.399	820.615	580.883	527.587	478.056	447.742	446.650
122.0	1408.353	1329.718	1107.290	830.409	591.683	537.893	488.164	460.723	456.161
122.5	1414.438	1334.812	1114.880	839.904	602.284	548.098	497.873	471.818	465.772
123.0	1420.421	1341.301	1122.670	849.397	612.987	558.603	507.784	479.152	475.284
123.5	1426.405	1347.386	1130.563	858.793	623.787	568.808	517.691	487.970	485.092
124.0	1431.398	1352.783	1138.449	868.189	634.289	579.211	527.701	499.465	498.272
124.5	1437.381	1358.969	1146.037	877.783	645.091	589.716	537.608	509.175	515.415
125.0	1442.576	1365.357	1153.930	887.276	655.593	599.723	547.715	515.714	526.410
125.5	1447.467	1370.653	1161.717	896.773	666.393	610.126	557.625	522.652	531.565
126.0	1453.350	1376.940	1169.014	905.870	676.895	620.430	567.631	531.864	533.348
126.5	1458.241	1382.438	1176.797	915.166	687.397	630.538	577.440	541.378	541.671
127.0	1463.436	1388.725	1185.087	924.463	698.100	641.041	587.348	550.990	551.182
127.5	1468.530	1394.022	1192.183	933.463	708.701	651.246	597.357	560.502	560.795
128.0	1473.422	1399.419	1199.077	942.856	719.105	661.748	607.466	570.113	570.604
128.5	1478.515	1405.706	1207.265	952.153	729.907	672.253	617.074	579.824	580.215
129.0	1483.609	1411.103	1214.361	961.252	740.607	682.458	627.480	589.730	590.023
129.5	1488.547	1416.399	1221.457	970.449	751.208	692.762	637.685	599.343	599.832
130.0	1488.742	1421.695	1229.646	979.647	761.711	703.066	647.791	608.954	609.643
130.5	1491.854	1426.991	1236.641	988.944	772.215	713.571	657.899	618.564	619.551
131.0	1496.745	1431.196	1243.737	997.941	782.916	723.875	667.706	628.276	629.261
131.5	1497.977	1435.804	1250.833	1007.040	793.716	734.080	677.715	638.184	639.072
132.0	1505.740	1440.110	1257.929	1016.040	804.317	744.285	688.019	647.993	649.178
132.5	1510.935	1444.314	1265.026	1025.039	815.119	754.691	698.026	657.802	658.982
133.0	1513.158	1447.932	1272.122	1033.841	825.819	764.896	708.429	667.415	668.798
133.5	1518.049	1451.246	1279.218	1042.937	836.225	775.301	718.436	678.511	678.606
134.0	1525.124	1457.635	1286.213	1052.137	846.727	785.705	728.742	688.221	688.715
134.5	1527.246	1461.940	1292.319	1061.134	857.328	795.811	738.948	698.131	698.422
135.0	1532.238	1468.328	1299.415	1070.334	867.930	806.412	748.953	708.138	708.830
135.5	1538.424	1471.542	1306.511	1078.341	878.534	816.816	759.261	718.246	718.438
136.0	1540.445	1475.948	1313.304	1087.541	889.036	827.221	769.268	727.855	728.546
136.5	1547.419	1480.354	1319.611	1096.437	899.439	837.226	779.374	737.864	738.153
137.0	1547.559	1485.549	1325.616	1105.535	910.043	847.728	789.579	747.675	748.662
137.5	1553.340	1490.947	1332.813	1113.744	920.349	858.237	799.388	757.480	758.569
138.0	1555.461	1494.261	1336.633	1122.540	930.746	868.337	809.389	767.286	767.866
138.5	1561.546	1500.649	1341.849	1130.647	940.755	878.542	819.598	777.694	778.476

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CANDELA TABULATION - (Cont.)

139.0	1564.961	1503.074	1348.946	1139.645	951.059	888.450	829.605	787.503	788.584
139.5	1567.770	1507.278	1353.959	1147.550	961.467	898.855	839.614	797.512	798.593
140.0	1570.882	1511.786	1360.166	1155.557	971.672	908.763	849.324	807.321	808.503
140.5	1576.077	1516.294	1363.299	1164.453	981.978	919.069	859.630	817.627	819.206
141.0	1579.089	1520.599	1368.413	1172.359	992.483	929.078	869.835	828.129	829.708
141.5	1583.191	1522.134	1375.509	1181.255	1002.886	939.184	879.842	838.433	839.913
142.0	1585.515	1527.633	1380.523	1189.262	1012.794	949.291	889.847	848.738	850.218
142.5	1588.628	1531.938	1386.729	1197.167	1022.702	959.198	899.755	858.547	860.522
143.0	1593.519	1535.152	1391.743	1205.275	1032.610	969.305	909.663	868.455	870.727
143.5	1597.723	1537.577	1396.858	1213.383	1043.509	979.609	919.967	878.957	881.033
144.0	1595.881	1541.093	1402.963	1221.491	1053.518	989.715	929.873	889.259	891.336
144.5	1601.279	1545.601	1408.078	1229.497	1063.527	999.226	939.981	899.464	901.640
145.0	1606.271	1549.017	1412.201	1236.716	1073.435	1009.134	949.889	909.372	912.342
145.5	1606.512	1552.432	1419.298	1244.823	1083.343	1019.144	959.795	919.577	922.250
146.0	1609.524	1554.655	1423.320	1252.042	1092.361	1029.051	969.505	929.485	932.456
146.5	1615.022	1559.163	1428.536	1257.177	1102.269	1038.959	979.314	939.589	942.661
147.0	1617.245	1561.385	1433.550	1264.294	1112.177	1048.867	989.519	949.594	952.963
147.5	1621.449	1565.994	1437.775	1269.531	1121.195	1058.977	999.328	959.700	962.871
148.0	1621.487	1566.438	1442.889	1275.657	1131.103	1068.784	1009.236	969.806	973.274
148.5	1621.830	1568.862	1446.022	1283.765	1140.121	1077.701	1019.245	979.912	983.382
149.0	1624.841	1573.370	1451.137	1290.882	1150.130	1086.720	1029.051	989.818	993.684
149.5	1626.376	1571.832	1454.270	1296.119	1159.047	1096.729	1038.959	999.429	1003.594
150.0	1627.304	1576.137	1459.385	1304.328	1167.965	1106.637	1048.867	1009.337	1014.493
150.5	1630.518	1578.562	1465.591	1310.555	1176.882	1115.655	1058.775	1020.235	1024.401
151.0	1630.658	1580.987	1466.844	1317.773	1185.900	1124.572	1067.793	1030.042	1035.198
151.5	1633.972	1581.532	1472.949	1323.899	1194.918	1134.480	1077.701	1040.051	1045.207
152.0	1634.213	1583.067	1475.193	1331.118	1203.937	1143.498	1087.609	1049.858	1056.005
152.5	1633.362	1585.492	1479.418	1336.354	1212.854	1152.415	1097.618	1059.766	1066.014
153.0	1633.603	1585.935	1483.643	1343.572	1220.881	1161.434	1106.434	1068.683	1075.922
153.5	1636.816	1588.461	1486.776	1349.800	1225.936	1170.351	1116.443	1079.582	1085.830
154.0	1635.076	1589.996	1489.019	1357.018	1235.844	1180.360	1125.360	1089.389	1096.830
154.5	1637.299	1590.541	1491.060	1362.255	1242.780	1188.286	1135.268	1099.296	1106.839
155.0	1639.420	1591.975	1495.083	1367.491	1248.825	1197.406	1144.287	1108.214	1116.646
155.5	1638.771	1591.630	1497.913	1373.820	1255.862	1206.222	1154.195	1118.121	1126.655
156.0	1635.939	1593.165	1499.751	1378.955	1264.779	1215.341	1163.213	1128.029	1136.461
156.5	1638.161	1594.802	1501.793	1385.284	1271.816	1220.295	1172.130	1137.836	1145.379
157.0	1639.191	1594.254	1504.824	1390.622	1279.844	1229.313	1181.047	1146.753	1155.388
157.5	1634.639	1594.900	1506.866	1394.766	1286.779	1237.239	1191.056	1156.661	1165.296
158.0	1634.939	1592.573	1509.210	1400.003	1293.816	1245.166	1199.973	1166.569	1175.204
158.5	1632.288	1593.219	1510.564	1404.350	1301.742	1251.212	1207.900	1175.486	1184.121
159.0	1629.557	1593.865	1512.908	1409.587	1308.779	1259.138	1213.844	1184.403	1194.028
159.5	1632.184	1594.409	1514.262	1414.924	1314.724	1268.055	1225.835	1194.311	1202.946
160.0	1628.947	1593.862	1515.717	1419.170	1322.751	1275.092	1230.789	1203.228	1212.854
160.5	1626.620	1593.213	1518.163	1422.526	1328.797	1283.119	1239.807	1212.145	1221.872
161.0	1627.447	1593.353	1519.618	1426.873	1333.751	1290.055	1246.743	1219.081	1231.679
161.5	1625.525	1589.732	1521.962	1431.119	1341.677	1297.981	1252.789	1227.998	1239.605
162.0	1624.210	1588.194	1519.555	1435.466	1346.631	1305.018	1261.706	1236.915	1243.366
162.5	1620.488	1585.766	1522.992	1436.841	1354.659	1313.045	1268.641	1243.851	1252.081
163.0	1619.435	1587.402	1522.566	1442.179	1359.714	1320.972	1278.650	1250.786	1259.703
163.5	1617.593	1584.186	1523.132	1444.443	1366.649	1327.018	1285.586	1259.703	1268.519
164.0	1618.138	1584.144	1524.587	1447.799	1371.603	1332.963	1292.522	1267.630	1276.345
164.5	1614.921	1581.029	1524.161	1450.063	1377.649	1339.898	1301.540	1276.648	1287.041
165.0	1611.806	1580.886	1524.727	1453.419	1383.594	1347.824	1309.466	1283.584	1294.967
165.5	1606.709	1575.790	1524.402	1456.675	1389.640	1352.880	1315.411	1290.519	1301.903
166.0	1606.668	1573.867	1523.876	1460.031	1394.594	1358.824	1322.448	1299.436	1311.608
166.5	1604.442	1571.844	1524.542	1463.387	1398.557	1365.861	1330.273	1307.363	1320.525

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-830U-L50-830D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1602.014	1569.821	1523.227	1462.881	1403.612	1370.815	1338.300	1314.399	1328.452
167.5	1597.706	1566.018	1522.903	1465.348	1407.677	1376.760	1343.254	1323.418	1335.387
168.0	1590.830	1563.106	1522.578	1467.814	1412.630	1382.805	1351.282	1331.344	1343.415
168.5	1589.797	1560.779	1522.254	1470.382	1417.584	1388.750	1359.309	1339.371	1351.240
169.0	1583.811	1557.360	1519.948	1468.885	1422.639	1394.695	1364.162	1345.316	1358.074
169.5	1580.797	1553.659	1519.624	1472.242	1425.511	1398.658	1372.088	1354.233	1363.918
170.0	1577.783	1549.856	1518.309	1472.828	1428.483	1404.704	1378.134	1360.178	1371.844
170.5	1574.870	1548.137	1515.113	1474.405	1431.557	1409.658	1383.189	1367.215	1378.881
171.0	1568.783	1544.536	1515.881	1475.092	1433.538	1414.612	1388.245	1374.150	1384.927
171.5	1563.989	1540.936	1511.593	1475.779	1438.593	1417.686	1394.290	1381.288	1392.853
172.0	1561.380	1536.447	1511.472	1477.356	1442.658	1422.639	1400.235	1385.251	1398.596
172.5	1556.688	1532.058	1508.276	1477.053	1445.529	1427.593	1406.180	1393.178	1406.421
173.0	1550.115	1528.458	1505.283	1476.850	1447.612	1432.547	1412.125	1399.122	1410.283
173.5	1546.616	1523.968	1504.372	1478.630	1449.492	1434.529	1417.079	1404.076	1417.320
174.0	1542.915	1520.469	1500.388	1478.427	1450.483	1439.483	1421.042	1410.122	1424.154
174.5	1537.131	1514.099	1497.598	1478.225	1453.556	1444.437	1425.895	1416.067	1427.126
175.0	1531.347	1509.710	1494.807	1476.142	1456.529	1447.409	1429.858	1420.920	1432.970
175.5	1525.664	1505.524	1492.117	1478.124	1458.409	1449.290	1434.913	1425.975	1436.933
176.0	1524.147	1501.439	1489.528	1478.023	1460.492	1453.354	1439.766	1431.030	1444.961
176.5	1515.896	1495.574	1487.041	1477.133	1461.381	1455.336	1445.812	1436.085	1448.034
177.0	1511.608	1491.894	1482.774	1477.133	1461.584	1458.308	1446.802	1440.938	1452.988
177.5	1505.238	1486.333	1481.581	1475.151	1463.464	1459.299	1451.756	1444.901	1455.859
178.0	1499.273	1482.956	1479.498	1475.151	1464.455	1462.271	1454.628	1450.947	1463.887
178.5	1492.923	1476.809	1476.526	1474.161	1464.455	1465.244	1457.600	1454.809	1468.740
179.0	1488.657	1474.726	1472.563	1474.161	1465.446	1466.234	1462.655	1458.772	1470.721
179.5	1484.592	1470.864	1470.581	1472.179	1465.446	1468.216	1464.637	1461.846	1478.749
180.0	1469.186	1469.186	1469.186	1469.186	1469.186	1469.186	1469.186	1469.186	1469.186

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-830U-L50-830D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	545.47	N.A.	5.50
0-30	1158.72	N.A.	11.70
0-40	1900.72	N.A.	19.20
0-60	3442.64	N.A.	34.70
0-80	4610.71	N.A.	46.50
0-90	4977.63	N.A.	50.20
10-90	4836.72	N.A.	48.80
20-40	1355.25	N.A.	13.70
20-50	2142.01	N.A.	21.60
40-70	2198.42	N.A.	22.20
60-80	1168.07	N.A.	11.80
70-80	511.57	N.A.	5.20
80-90	366.92	N.A.	3.70
90-110	875.19	N.A.	8.80
90-120	1527.07	N.A.	15.40
90-130	2276.89	N.A.	23.00
90-150	3792.95	N.A.	38.20
90-180	4938.8	N.A.	49.80
110-180	4063.61	N.A.	41.00
0-180	9916.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.91
10-20	404.56
20-30	613.25
30-40	742.00
40-50	786.76
50-60	755.16
60-70	656.50
70-80	511.57
80-90	366.92
90-100	366.38
100-110	508.80
110-120	651.88
120-130	749.83
130-140	780.74
140-150	735.31
150-160	606.71
160-170	399.81
170-180	139.33

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-830U-L50-830D-DMA-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	32
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	26
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	27	32	27	23	26	22	19	16
7	56	43	35	29	51	40	33	28	34	28	24	29	24	21	23	20	17	14
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	21	18	15	13
9	48	36	28	23	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-4-00-L50-830U-L50-830D-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

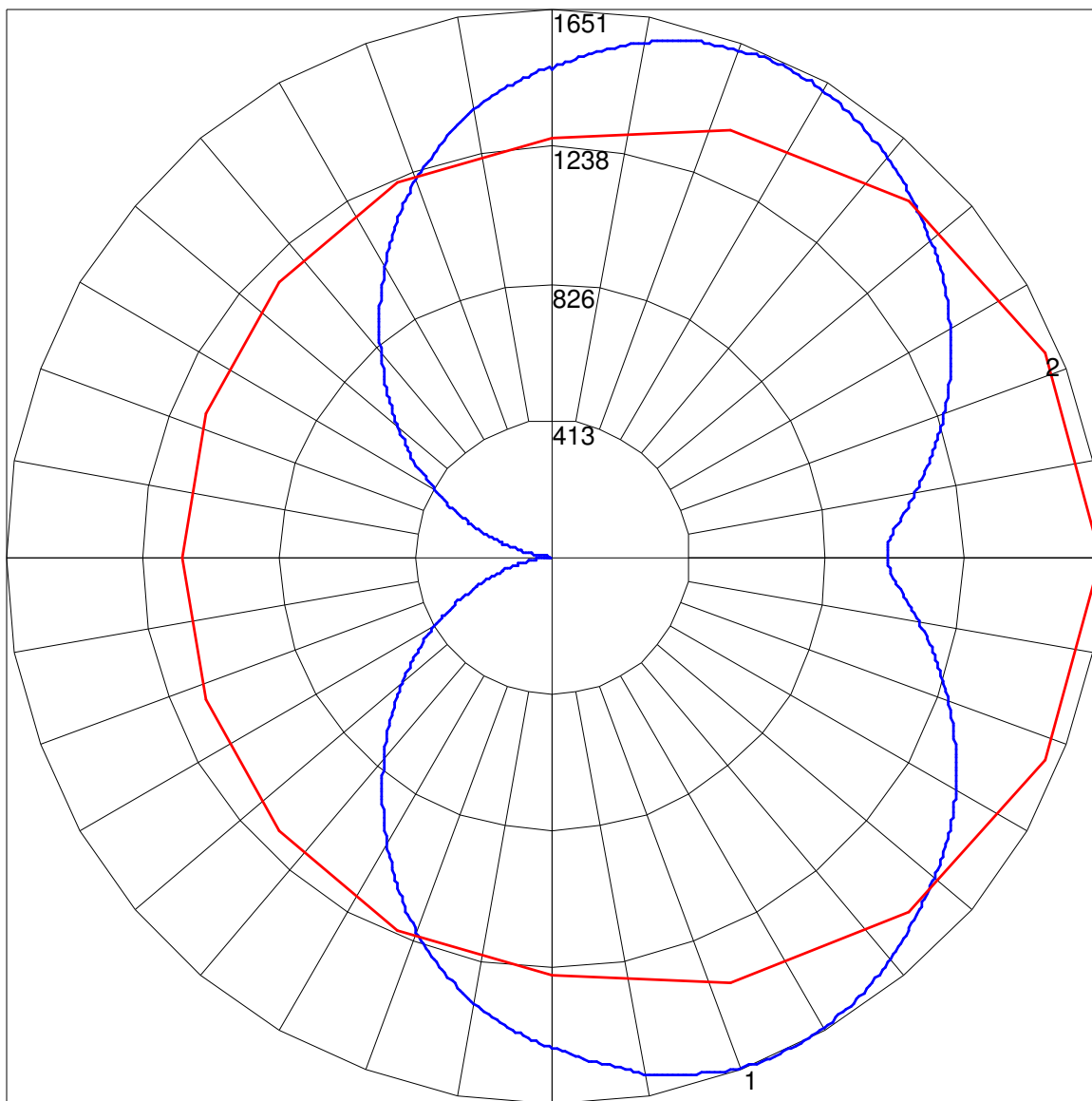
X=2H	Y=2H	21.8	22.7	22.7	23.7	24.9	15.8	16.7	16.7	17.7	18.9
	3H	24.9	25.7	25.8	26.7	28.0	17.1	18.0	18.1	18.9	20.2
	4H	26.5	27.2	27.4	28.2	29.5	17.6	18.4	18.5	19.3	20.6
	6H	28.2	28.9	29.1	29.9	31.2	17.8	18.5	18.8	19.5	20.8
	8H	29.1	29.8	30.0	30.8	32.1	17.9	18.6	18.8	19.6	20.9
	12H	30.1	30.7	31.1	31.7	33.1	17.9	18.5	18.9	19.5	20.9

UGR Viewed Endwise

4H	2H	22.1	22.8	23.0	23.8	25.1	17.0	17.8	18.0	18.8	20.1
	3H	25.4	26.0	26.4	27.0	28.4	18.7	19.3	19.7	20.3	21.7
	4H	27.1	27.8	28.1	28.8	30.1	19.2	19.9	20.2	20.9	22.2
	6H	29.0	29.6	30.1	30.6	31.9	19.6	20.2	20.6	21.2	22.5
	8H	30.1	30.5	31.1	31.6	32.9	19.7	20.2	20.7	21.2	22.6
	12H	31.2	31.6	32.2	32.7	34.0	19.8	20.2	20.8	21.3	22.6
8H	4H	27.3	27.8	28.3	28.8	30.1	20.4	20.9	21.4	21.9	23.2
	6H	29.3	29.8	30.4	30.8	32.2	21.0	21.4	22.0	22.5	23.8
	8H	30.5	30.9	31.5	31.9	33.3	21.2	21.6	22.2	22.6	24.0
	12H	31.8	32.1	32.8	33.2	34.6	21.3	21.7	22.4	22.7	24.1
12H	4H	27.2	27.7	28.3	28.7	30.1	20.7	21.2	21.7	22.2	23.5
	6H	29.4	29.7	30.4	30.8	32.2	21.5	21.9	22.6	22.9	24.3
	8H	30.6	30.9	31.6	31.9	33.3	21.8	22.2	22.9	23.2	24.6

Maximum UGR = 34.6

POLAR GRAPH



Maximum Candela = 1651.083 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.)