

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-850U-L50-850D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-00-L50-850U-L50-850D-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	10618
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	21922	20759	19901
55	21792	19864	18255
65	21830	19176	16309
75	22209	18742	13457
85	23346	19170	9397

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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	1589.003	1589.003	1589.003	1589.003	1589.003	1589.003	1589.003	1589.003	1589.003
0.5	1591.237	1593.889	1590.935	1596.987	1586.156	1594.397	1583.694	1583.610	1583.761
1.0	1595.569	1597.669	1596.775	1598.283	1585.179	1592.018	1579.149	1579.065	1579.322
1.5	1601.303	1602.744	1598.495	1601.744	1585.179	1587.580	1576.771	1573.543	1571.740
2.0	1606.166	1609.008	1602.381	1602.063	1583.990	1584.224	1572.438	1569.105	1567.301
2.5	1613.195	1613.318	1607.562	1603.464	1582.907	1582.058	1568.105	1565.855	1563.075
3.0	1617.846	1619.795	1611.660	1603.782	1581.823	1579.892	1564.856	1559.357	1557.553
3.5	1624.005	1625.507	1614.675	1607.456	1581.823	1575.453	1559.440	1554.918	1554.304
4.0	1632.117	1631.218	1619.857	1607.774	1579.551	1571.120	1557.274	1549.502	1546.722
4.5	1635.791	1635.953	1623.955	1607.116	1578.468	1570.037	1551.858	1544.086	1540.117
5.0	1637.829	1641.877	1627.500	1610.683	1576.302	1564.622	1545.360	1538.565	1533.724
5.5	1645.388	1646.717	1628.667	1611.108	1573.052	1559.206	1542.110	1533.149	1530.475
6.0	1650.464	1650.581	1631.788	1610.449	1570.780	1558.017	1537.777	1528.710	1523.870
6.5	1654.562	1657.906	1635.015	1609.896	1568.720	1553.790	1532.150	1521.022	1517.477
7.0	1658.660	1662.535	1637.159	1610.108	1567.531	1550.329	1526.734	1514.417	1509.789
7.5	1662.842	1666.399	1639.409	1609.661	1562.009	1544.913	1520.235	1509.002	1502.207
8.0	1670.887	1669.179	1642.190	1606.836	1558.759	1539.497	1514.819	1502.397	1494.625
8.5	1678.017	1673.255	1644.970	1608.450	1557.676	1536.248	1509.298	1495.898	1487.149
9.0	1687.760	1677.543	1647.432	1606.708	1552.260	1530.726	1502.693	1487.127	1479.567
9.5	1692.578	1681.278	1648.918	1607.238	1548.905	1524.227	1496.194	1480.522	1477.401
10.0	1697.949	1687.073	1650.297	1605.709	1545.656	1519.788	1490.778	1474.023	1465.486
10.5	1703.215	1690.491	1652.759	1604.073	1540.240	1514.479	1484.173	1466.335	1460.176
11.0	1706.419	1692.930	1654.244	1601.460	1537.967	1508.957	1476.485	1460.919	1452.594
11.5	1709.306	1696.772	1654.646	1598.847	1531.468	1502.458	1470.092	1452.148	1442.846
12.0	1711.109	1699.530	1656.131	1598.400	1527.136	1499.103	1463.487	1444.566	1434.287
12.5	1717.351	1704.455	1656.639	1595.787	1523.780	1490.331	1455.905	1436.984	1426.705
13.0	1720.875	1707.107	1657.360	1593.175	1519.448	1484.916	1448.217	1428.213	1416.086
13.5	1723.633	1710.630	1658.080	1591.645	1511.866	1478.417	1441.612	1419.441	1409.799
14.0	1728.876	1712.858	1658.906	1589.138	1508.510	1469.646	1431.864	1410.776	1400.369
14.5	1732.505	1715.191	1657.354	1585.336	1503.095	1464.230	1424.176	1402.111	1390.727
15.0	1732.566	1716.336	1657.862	1582.829	1495.407	1457.625	1416.594	1393.446	1381.085
15.5	1734.816	1717.587	1657.712	1577.944	1488.908	1451.020	1407.823	1383.698	1375.669
16.0	1735.771	1719.921	1656.478	1573.929	1483.386	1443.438	1401.218	1375.033	1362.565
16.5	1740.439	1722.254	1658.494	1572.506	1477.970	1435.856	1392.553	1367.450	1356.066
17.0	1745.553	1721.339	1658.343	1567.620	1472.554	1427.085	1384.865	1357.596	1349.674
17.5	1746.357	1724.862	1657.003	1561.546	1464.866	1421.563	1375.010	1350.991	1338.736
18.0	1749.434	1723.946	1655.663	1559.039	1457.284	1410.626	1365.262	1341.243	1331.154
18.5	1753.593	1725.303	1654.005	1554.366	1449.596	1404.127	1360.823	1335.827	1321.300
19.0	1752.549	1726.660	1653.642	1550.988	1443.098	1395.355	1352.158	1326.079	1311.552
19.5	1757.451	1726.828	1650.901	1546.633	1435.409	1388.751	1342.304	1316.331	1300.614
20.0	1759.869	1726.124	1650.538	1540.877	1428.911	1380.085	1337.971	1306.582	1290.866
20.5	1760.567	1727.481	1646.820	1536.204	1422.306	1371.314	1328.117	1296.728	1279.928
21.0	1761.159	1726.671	1645.374	1529.789	1412.557	1362.649	1318.369	1286.980	1270.180
21.5	1762.940	1727.157	1642.738	1526.517	1405.952	1358.210	1309.703	1276.148	1259.349
22.0	1765.252	1726.772	1640.209	1522.268	1397.287	1347.379	1299.849	1266.400	1248.411
22.5	1766.586	1726.387	1637.574	1516.724	1388.516	1339.585	1289.995	1256.652	1238.663
23.0	1765.649	1726.979	1635.045	1511.074	1380.828	1328.753	1280.246	1245.820	1227.725
23.5	1765.900	1725.829	1633.493	1503.258	1371.080	1324.421	1270.392	1234.989	1216.894
24.0	1767.128	1725.656	1629.881	1499.115	1364.581	1315.650	1260.538	1225.134	1204.979
24.5	1767.826	1725.271	1627.351	1492.806	1354.726	1305.901	1250.789	1214.409	1195.231
25.0	1766.358	1724.992	1622.656	1488.239	1351.477	1295.941	1240.935	1203.472	1184.293
25.5	1763.807	1722.546	1620.127	1482.695	1343.789	1286.193	1231.187	1192.640	1172.379
26.0	1764.505	1721.949	1616.515	1473.901	1336.207	1276.338	1220.249	1182.892	1162.524
26.5	1763.142	1719.186	1613.008	1467.168	1326.353	1266.590	1210.395	1172.061	1150.504

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CANDELA TABULATION - (Cont.)

27.0	1760.697	1717.505	1610.691	1461.624	1316.498	1256.630	1199.563	1161.229	1139.672
27.5	1760.630	1716.908	1604.148	1456.080	1307.727	1246.881	1189.709	1150.292	1128.735
28.0	1761.328	1714.144	1599.877	1446.097	1297.979	1235.944	1179.855	1139.460	1116.820
28.5	1758.458	1711.381	1596.583	1441.530	1289.314	1226.195	1169.023	1128.629	1105.883
29.0	1756.119	1710.783	1593.289	1432.736	1278.482	1216.341	1158.192	1116.714	1095.051
29.5	1755.628	1705.853	1589.124	1423.731	1268.628	1205.510	1147.254	1105.883	1083.678
30.0	1754.796	1702.878	1584.747	1418.081	1258.773	1194.466	1137.506	1094.945	1072.418
30.5	1752.033	1700.432	1580.370	1410.370	1249.025	1184.718	1126.569	1084.006	1061.584
31.0	1751.648	1698.752	1576.099	1402.448	1239.277	1173.780	1115.737	1073.066	1050.322
31.5	1749.308	1696.859	1569.555	1398.964	1229.422	1162.949	1104.906	1062.343	1039.168
32.0	1745.674	1694.096	1566.367	1389.958	1218.591	1153.094	1093.968	1051.184	1028.443
32.5	1746.372	1690.249	1560.801	1385.391	1208.737	1142.157	1083.028	1040.353	1017.074
33.0	1740.465	1688.675	1556.211	1377.681	1198.988	1131.325	1072.089	1028.982	1005.701
33.5	1741.481	1683.639	1550.539	1368.781	1188.051	1120.388	1061.257	1018.042	994.761
34.0	1740.013	1679.898	1543.783	1360.965	1177.219	1109.557	1050.320	1007.319	983.391
34.5	1736.590	1676.051	1537.028	1351.959	1166.282	1099.702	1039.380	996.163	972.342
35.0	1732.531	1672.205	1532.545	1343.059	1155.451	1088.546	1028.657	985.223	961.619
35.5	1729.980	1669.547	1527.849	1335.243	1145.702	1077.608	1017.934	974.175	950.355
36.0	1725.899	1663.534	1521.306	1326.343	1134.871	1066.669	1006.994	963.343	939.092
36.5	1723.560	1659.687	1516.716	1317.444	1122.956	1055.731	995.623	952.729	927.936
37.0	1719.819	1657.030	1508.772	1308.438	1112.019	1045.116	985.009	941.575	916.671
37.5	1716.503	1651.123	1501.910	1299.538	1101.187	1033.854	974.177	930.310	906.059
38.0	1715.140	1646.193	1497.533	1290.639	1090.356	1022.914	963.129	919.695	894.580
38.5	1708.362	1642.452	1488.611	1281.739	1079.310	1011.758	952.298	908.649	883.207
39.0	1705.046	1639.795	1482.832	1271.756	1068.045	1001.037	941.250	897.818	872.159
39.5	1700.329	1633.782	1483.659	1262.751	1057.106	990.097	930.635	886.770	861.219
40.0	1699.072	1630.041	1477.009	1253.851	1045.841	978.832	919.914	875.941	850.604
40.5	1692.507	1626.088	1470.360	1243.868	1034.579	967.895	908.758	865.107	839.664
41.0	1687.577	1620.393	1463.498	1234.863	1023.639	956.955	897.926	854.169	828.512
41.5	1682.094	1615.464	1456.848	1225.092	1012.158	945.585	886.878	843.555	817.787
42.0	1680.732	1611.511	1448.903	1216.299	1001.001	935.184	876.049	832.509	807.066
42.5	1676.226	1606.687	1442.148	1207.505	989.736	924.138	865.109	821.461	796.449
43.0	1670.638	1598.508	1435.180	1198.924	978.474	912.982	854.278	811.063	785.189
43.5	1667.980	1594.661	1428.531	1189.153	966.668	901.826	843.121	799.909	774.680
44.0	1662.285	1589.731	1420.798	1179.383	955.620	890.888	831.965	788.969	764.390
44.5	1657.780	1584.907	1412.747	1169.506	944.139	880.057	821.028	778.248	753.669
45.0	1654.464	1581.061	1406.098	1160.606	932.874	868.577	810.196	767.200	743.163
45.5	1647.368	1574.071	1398.259	1150.840	921.611	857.527	798.932	756.585	732.117
46.0	1646.876	1569.247	1390.420	1141.182	910.130	846.371	788.100	745.862	721.502
46.5	1640.311	1566.483	1383.664	1131.414	898.755	835.325	776.944	734.924	711.321
47.0	1637.865	1564.803	1375.826	1121.431	886.951	824.277	766.004	724.416	701.033
47.5	1634.231	1560.297	1367.881	1111.986	875.253	813.012	755.066	713.587	690.093
48.0	1629.831	1553.966	1360.360	1102.540	863.663	801.425	744.341	703.297	679.479
48.5	1622.735	1548.271	1352.203	1092.986	852.290	790.160	733.187	692.576	668.972
49.0	1618.335	1542.258	1344.471	1083.107	840.919	779.004	722.247	682.178	658.249
49.5	1614.042	1536.245	1336.526	1073.231	829.438	768.064	711.524	671.673	648.068
50.0	1614.634	1531.527	1328.581	1063.571	817.848	756.910	700.803	661.167	637.345
50.5	1606.879	1525.514	1320.848	1053.590	806.367	745.429	689.755	651.200	626.948
51.0	1605.411	1519.714	1313.116	1043.932	794.994	734.381	679.032	640.587	616.444
51.5	1600.034	1513.806	1304.088	1033.947	783.621	723.008	668.092	630.081	606.263
52.0	1594.658	1506.710	1296.037	1023.534	772.032	712.068	657.586	619.793	596.298
52.5	1590.046	1500.803	1288.304	1013.767	760.659	701.022	646.865	609.503	585.900
53.0	1584.351	1494.684	1279.382	1003.568	749.177	689.757	636.034	599.213	575.393
53.5	1578.657	1488.883	1271.329	993.479	738.021	678.384	625.202	589.032	564.889
54.0	1573.386	1482.764	1262.951	983.172	726.434	667.445	614.479	578.525	555.572
54.5	1567.691	1476.093	1254.246	972.755	715.277	656.613	603.866	568.454	545.286

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55.0	1562.209	1469.974	1245.976	962.667	703.904	645.351	593.143	558.056	534.886
55.5	1556.620	1462.877	1237.810	952.142	692.639	633.980	582.531	547.766	524.921
56.0	1551.138	1456.970	1229.323	941.945	681.158	623.038	572.022	537.910	514.417
56.5	1545.867	1449.874	1220.510	931.313	669.783	611.884	561.085	527.295	504.777
57.0	1540.278	1444.073	1211.809	920.788	658.304	600.942	550.901	517.549	495.243
57.5	1533.607	1437.083	1203.424	910.266	647.037	589.573	540.505	507.043	484.739
58.0	1527.700	1429.881	1194.830	899.417	635.341	578.523	529.782	497.186	474.665
58.5	1522.429	1422.891	1186.023	888.895	623.860	567.583	519.492	487.113	464.484
59.0	1516.841	1416.113	1176.886	878.046	612.162	556.538	509.202	476.931	454.844
59.5	1510.275	1408.805	1168.393	867.199	600.356	545.381	499.021	467.075	444.987
60.0	1503.179	1401.708	1159.259	856.677	588.766	534.119	488.839	457.110	435.022
60.5	1496.719	1394.718	1150.773	846.154	577.285	523.071	478.443	447.253	425.058
61.0	1491.130	1387.618	1141.961	835.847	565.912	511.914	468.045	437.288	415.201
61.5	1484.352	1380.522	1133.150	825.216	554.322	501.083	457.647	427.323	405.236
62.0	1476.491	1372.992	1123.905	814.367	542.947	489.929	447.682	417.361	395.704
62.5	1469.820	1365.567	1115.198	803.737	531.249	478.989	437.284	407.287	385.631
63.0	1463.148	1358.466	1106.499	793.106	519.984	467.724	426.888	397.431	375.991
63.5	1456.476	1350.612	1097.688	782.474	508.503	456.568	416.704	387.680	366.026
64.0	1449.910	1342.974	1088.443	771.843	497.022	445.953	406.414	377.607	356.714
64.5	1442.155	1335.445	1079.743	761.213	485.651	434.905	395.908	367.750	347.721
65.0	1434.727	1327.915	1070.175	750.149	474.170	424.074	385.401	358.002	337.648
65.5	1427.196	1319.953	1061.362	739.194	462.580	413.026	375.328	348.146	328.116
66.0	1419.874	1311.771	1052.442	728.566	451.313	401.980	364.821	338.505	318.801
66.5	1412.981	1303.919	1042.985	717.827	440.051	390.932	354.750	328.541	309.486
67.0	1405.226	1296.062	1034.172	707.088	428.784	380.100	344.892	319.009	300.496
67.5	1397.690	1288.206	1024.710	696.025	417.517	369.486	334.818	309.369	291.073
68.0	1390.260	1280.031	1015.470	685.071	405.713	358.979	324.639	299.837	281.433
68.5	1382.397	1271.849	1006.336	674.224	394.340	347.931	314.458	290.306	271.901
69.0	1375.513	1263.781	996.767	663.596	383.184	337.425	304.384	280.774	263.128
69.5	1367.758	1255.926	987.847	653.074	372.027	326.593	294.851	271.459	254.029
70.0	1360.434	1247.742	978.282	642.552	360.762	316.087	284.996	262.144	244.929
70.5	1352.893	1239.457	969.037	631.922	349.608	305.366	275.248	252.612	235.508
71.0	1345.572	1231.275	959.687	620.973	338.341	294.968	265.500	243.622	226.409
71.5	1338.137	1223.094	949.907	610.453	327.727	284.570	255.970	234.632	217.419
72.0	1330.068	1214.380	940.771	600.256	316.676	274.171	246.436	225.642	209.185
72.5	1322.417	1206.413	931.420	589.845	304.872	263.882	237.013	216.977	199.978
73.0	1314.455	1198.019	922.286	579.756	294.255	253.808	227.806	207.879	191.313
73.5	1306.697	1189.409	913.048	569.342	283.318	244.060	218.491	198.997	182.431
74.0	1299.049	1181.121	903.483	558.933	272.592	234.203	209.284	190.546	173.985
74.5	1290.761	1172.409	894.238	548.632	262.194	224.455	200.294	181.989	166.078
75.0	1282.898	1164.121	884.572	538.649	251.688	214.707	191.413	173.543	157.521
75.5	1274.822	1155.511	875.334	528.242	241.396	205.175	182.529	164.878	149.396
76.0	1266.641	1147.226	866.525	518.049	231.106	195.860	173.541	156.754	141.489
76.5	1258.448	1138.509	857.072	508.389	220.816	186.654	164.659	148.306	133.692
77.0	1250.158	1130.334	847.834	498.090	210.849	177.447	156.425	140.399	126.433
77.5	1241.866	1121.728	838.599	488.541	200.667	168.348	147.870	132.384	118.851
78.0	1233.793	1113.445	829.683	478.781	191.136	159.250	139.530	124.693	111.486
78.5	1225.068	1104.844	820.874	469.557	181.496	150.368	131.298	117.109	104.120
79.0	1216.888	1096.024	811.855	459.800	172.179	141.811	123.175	109.527	96.647
79.5	1208.596	1087.743	803.048	450.363	162.755	133.363	115.266	101.945	89.823
80.0	1200.096	1079.353	794.140	441.039	153.438	125.129	107.575	94.796	82.891
80.5	1191.592	1070.863	785.227	432.250	144.448	116.897	99.993	87.648	76.175
81.0	1183.627	1062.690	776.964	423.463	135.780	108.882	92.628	80.716	69.243
81.5	1175.446	1053.870	768.380	414.678	127.332	101.189	85.368	73.892	62.528
82.0	1167.158	1045.699	760.117	405.894	118.992	93.607	78.114	67.176	56.248
82.5	1159.728	1038.287	751.967	397.432	110.652	86.350	71.396	61.000	50.286

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CANDELA TABULATION - (Cont.)

83.0	1151.661	1030.331	743.600	389.509	102.636	78.985	64.680	54.718	44.114
83.5	1144.026	1022.267	735.450	381.695	94.946	71.834	58.290	48.544	38.157
84.0	1136.603	1014.638	727.732	373.888	87.472	65.010	52.008	42.587	32.306
84.5	1128.963	1006.795	719.909	366.078	80.107	58.403	45.617	36.629	26.892
85.0	1121.756	998.843	712.194	358.701	72.958	52.012	39.552	31.105	22.016
85.5	1114.655	991.537	704.153	351.325	65.918	45.622	33.700	25.798	17.683
86.0	1107.561	984.549	696.438	344.273	59.094	39.448	28.068	21.032	14.542
86.5	1100.994	978.198	689.477	337.222	52.487	33.488	22.652	17.347	12.374
87.0	1094.956	973.763	682.613	330.709	46.205	27.639	17.887	14.423	10.966
87.5	1090.616	970.391	677.457	323.983	39.922	22.005	14.527	12.579	10.097
88.0	1088.514	968.827	673.783	317.362	33.532	16.481	12.144	11.279	9.659
88.5	1086.932	967.682	671.485	311.588	27.141	11.931	10.842	10.305	9.120
89.0	1085.994	967.396	670.898	307.622	20.640	9.765	10.083	9.977	9.009
89.5	1085.804	967.215	670.414	306.308	15.112	9.005	9.758	9.652	8.901
90.0	1085.928	967.141	670.471	306.384	12.925	8.788	9.648	9.650	9.007
90.5	1085.093	967.393	670.533	307.000	15.354	8.786	9.646	9.648	8.896
91.0	1085.547	968.185	671.343	309.883	20.656	8.890	9.537	9.754	8.896
91.5	1085.786	969.625	673.128	314.935	27.021	10.587	9.643	9.646	8.788
92.0	1087.107	971.929	677.183	320.964	33.174	13.661	9.962	9.537	9.000
92.5	1088.533	975.849	682.749	326.993	39.113	18.647	10.808	9.856	9.213
93.0	1091.474	980.750	689.395	333.986	45.051	24.482	12.930	10.280	9.955
93.5	1095.280	986.942	696.473	340.227	51.204	30.317	16.537	11.445	11.652
94.0	1100.924	993.999	703.760	347.321	57.675	36.257	21.417	13.779	14.941
94.5	1107.757	1001.165	710.615	354.309	64.253	41.984	27.039	17.494	19.503
95.0	1114.913	1008.863	718.653	361.293	71.042	48.243	32.766	21.947	24.593
95.5	1122.069	1016.668	726.366	368.599	78.044	54.610	38.706	27.357	30.429
96.0	1129.547	1023.935	733.969	376.116	85.257	60.973	45.074	33.194	36.158
96.5	1136.809	1031.416	741.788	383.955	92.681	67.656	51.333	39.027	42.311
97.0	1144.177	1039.007	749.607	391.898	100.319	74.340	57.804	45.180	48.570
97.5	1151.760	1046.804	757.532	399.839	108.278	81.447	64.381	51.653	54.723
98.0	1159.121	1054.603	765.462	408.310	116.126	88.661	70.958	57.912	60.980
98.5	1166.913	1062.614	773.813	416.889	124.509	96.087	77.852	64.487	67.771
99.0	1174.597	1070.733	782.165	425.358	133.208	104.043	84.961	71.170	74.561
99.5	1182.284	1078.636	790.620	434.256	141.904	111.894	92.279	78.174	81.671
100.0	1189.965	1086.753	799.290	443.255	150.815	120.168	99.599	85.176	88.458
100.5	1197.649	1094.974	807.850	452.257	159.939	128.443	107.237	92.177	95.671
101.0	1205.760	1102.983	816.626	461.577	169.276	136.717	115.196	99.391	102.779
101.5	1213.229	1110.986	825.289	470.791	178.716	145.631	123.046	106.711	110.311
102.0	1221.335	1119.320	834.379	480.217	188.369	153.901	131.214	114.243	118.058
102.5	1229.123	1127.326	843.148	489.534	198.023	163.239	139.383	121.987	125.696
103.0	1237.130	1135.545	852.024	498.960	208.103	174.271	147.764	129.731	133.546
103.5	1245.128	1143.660	861.005	508.596	218.288	183.395	156.250	137.688	141.290
104.0	1253.137	1151.771	870.095	518.446	228.260	191.137	164.737	145.752	149.565
104.5	1260.918	1160.312	879.072	528.082	238.444	200.899	173.648	154.025	157.839
105.0	1269.134	1168.319	887.948	537.718	249.052	210.234	182.456	162.408	166.220
105.5	1276.175	1176.538	897.139	547.568	259.557	220.100	191.364	170.788	174.601
106.0	1284.279	1184.757	906.012	557.523	270.163	231.133	200.490	179.275	183.196
106.5	1291.855	1192.655	914.886	567.585	281.092	242.590	209.719	187.870	191.680
107.0	1299.749	1200.768	923.865	577.327	291.807	250.971	218.843	196.673	200.912
107.5	1307.643	1208.985	932.738	587.389	302.733	259.988	228.390	205.372	209.505
108.0	1315.216	1216.989	941.934	597.662	313.662	270.172	237.726	214.710	218.522
108.5	1322.681	1224.993	951.019	607.936	324.801	280.570	247.167	223.619	227.435
109.0	1330.681	1232.680	960.001	618.103	335.834	290.858	256.927	232.956	236.559
109.5	1338.040	1241.224	968.978	628.163	346.867	301.257	266.583	241.974	245.576
110.0	1345.720	1248.693	977.747	638.650	358.112	311.759	276.131	251.309	255.020
110.5	1353.187	1256.702	986.194	648.922	369.357	322.262	285.997	260.644	264.249

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111.0	1360.761	1264.176	995.065	659.197	380.708	332.873	295.862	270.088	273.691
111.5	1368.126	1271.968	1004.049	669.683	392.059	343.481	305.622	279.636	282.708
112.0	1375.167	1279.765	1012.812	680.062	403.410	354.196	315.700	289.183	291.829
112.5	1382.741	1287.454	1021.793	690.653	415.082	365.122	325.884	298.625	301.167
113.0	1389.565	1295.142	1030.668	701.031	426.327	376.049	335.856	308.067	310.714
113.5	1397.034	1302.724	1039.431	711.836	437.678	387.084	346.147	317.826	320.474
114.0	1404.179	1309.982	1048.196	722.215	449.347	397.905	356.651	327.480	330.022
114.5	1411.220	1317.456	1056.963	732.699	460.592	409.044	369.167	337.454	339.569
115.0	1417.836	1325.040	1065.730	743.292	472.051	420.079	382.534	347.320	349.331
115.5	1424.563	1332.514	1074.389	753.777	483.615	431.324	392.081	356.974	358.773
116.0	1431.814	1339.456	1083.264	764.261	495.178	442.356	398.661	366.840	369.063
116.5	1438.329	1346.934	1091.601	774.748	506.529	453.389	407.784	376.706	378.717
117.0	1445.580	1354.411	1100.582	785.338	518.094	464.846	419.880	386.784	388.797
117.5	1451.986	1361.244	1109.027	795.717	529.870	475.775	433.459	396.437	398.342
118.0	1458.393	1368.610	1117.579	806.310	541.115	487.233	444.277	406.624	408.317
118.5	1464.474	1375.449	1126.559	816.686	552.784	498.480	451.707	416.275	418.183
119.0	1470.989	1382.072	1134.901	827.279	564.349	509.512	459.982	426.674	428.369
119.5	1477.504	1389.756	1143.452	837.657	575.913	520.439	470.166	436.646	437.914
120.0	1483.694	1396.704	1151.899	847.930	587.690	531.578	480.563	446.830	448.525
120.5	1489.992	1403.436	1160.345	857.990	599.147	542.931	491.065	456.910	458.285
121.0	1496.290	1410.059	1168.900	868.475	610.286	553.964	501.461	467.200	468.259
121.5	1502.697	1417.007	1177.135	878.639	621.956	564.891	511.858	479.400	478.231
122.0	1507.934	1423.739	1185.583	889.125	633.519	575.926	522.680	493.299	488.415
122.5	1514.449	1429.193	1193.710	899.292	644.870	586.853	533.077	505.179	498.705
123.0	1520.855	1436.141	1202.050	909.456	656.329	598.100	543.687	513.031	508.889
123.5	1527.262	1442.656	1210.501	919.516	667.893	609.027	554.296	522.473	519.392
124.0	1532.608	1448.434	1218.946	929.576	679.138	620.166	565.013	534.781	533.503
124.5	1539.014	1455.057	1227.070	939.848	690.703	631.413	575.621	545.177	551.858
125.0	1544.576	1461.897	1235.521	950.013	701.948	642.127	586.442	552.179	563.631
125.5	1549.814	1467.568	1243.859	960.181	713.511	653.266	597.053	559.607	569.150
126.0	1556.112	1474.299	1251.671	969.921	724.756	664.299	607.767	569.471	571.059
126.5	1561.349	1480.187	1260.005	979.875	736.001	675.122	618.269	579.657	579.971
127.0	1566.911	1486.918	1268.881	989.829	747.461	686.367	628.878	589.949	590.155
127.5	1572.366	1492.589	1276.479	999.465	758.812	697.294	639.595	600.133	600.447
128.0	1577.603	1498.368	1283.860	1009.523	769.951	708.539	650.418	610.424	610.950
128.5	1583.057	1505.099	1292.627	1019.477	781.516	719.786	660.706	620.822	621.240
129.0	1588.511	1510.878	1300.225	1029.219	792.973	730.713	671.847	631.428	631.742
129.5	1588.444	1516.549	1307.823	1039.067	804.324	741.745	682.773	641.721	642.245
130.0	1594.006	1522.219	1316.590	1048.915	815.569	752.778	693.594	652.011	652.749
130.5	1597.339	1527.890	1324.080	1058.869	826.816	764.025	704.417	662.301	663.358
131.0	1602.576	1532.391	1331.678	1068.503	838.274	775.058	714.917	672.700	673.754
131.5	1603.895	1537.326	1339.276	1078.245	849.837	785.985	725.634	683.308	684.259
132.0	1612.206	1541.936	1346.874	1087.881	861.188	796.912	736.667	693.811	695.079
132.5	1617.769	1546.437	1354.472	1097.517	872.753	808.053	747.381	704.313	705.577
133.0	1620.148	1550.311	1362.070	1106.940	884.211	818.980	758.520	714.606	716.086
133.5	1625.386	1553.860	1369.668	1116.680	895.352	830.121	769.235	726.487	726.589
134.0	1632.961	1560.700	1377.158	1126.530	906.597	841.260	780.270	736.883	737.412
134.5	1635.233	1565.310	1383.695	1136.164	917.948	852.080	791.197	747.494	747.806
135.0	1640.579	1572.149	1391.293	1146.014	929.299	863.431	801.909	758.209	758.949
135.5	1647.202	1575.590	1398.891	1154.587	940.652	874.570	812.946	769.032	769.237
136.0	1649.365	1580.308	1406.164	1164.437	951.897	885.711	823.661	779.319	780.060
136.5	1656.832	1585.026	1412.917	1173.963	963.036	896.424	834.481	790.036	790.346
137.0	1656.982	1590.588	1419.346	1183.705	974.389	907.669	845.408	800.541	801.597
137.5	1663.172	1596.367	1427.052	1192.494	985.424	918.920	855.910	811.039	812.206
138.0	1665.443	1599.916	1431.143	1201.911	996.557	929.734	866.618	821.539	822.160
138.5	1671.958	1606.756	1436.727	1210.592	1007.273	940.661	877.549	832.682	833.520

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CANDELA TABULATION - (Cont.)

139.0	1675.615	1609.352	1444.325	1220.226	1018.306	951.269	888.264	843.185	844.343
139.5	1678.623	1613.854	1449.693	1228.690	1029.449	962.410	898.981	853.902	855.059
140.0	1681.955	1618.680	1456.339	1237.263	1040.376	973.019	909.377	864.404	865.670
140.5	1687.517	1623.506	1459.694	1246.788	1051.411	984.054	920.412	875.439	877.130
141.0	1690.741	1628.116	1465.170	1255.253	1062.658	994.771	931.339	886.684	888.375
141.5	1695.134	1629.760	1472.768	1264.778	1073.797	1005.591	942.053	897.717	899.301
142.0	1697.622	1635.647	1478.136	1273.351	1084.406	1016.412	952.766	908.750	910.334
142.5	1700.955	1640.257	1484.781	1281.815	1095.014	1027.021	963.374	919.252	921.367
143.0	1706.192	1643.698	1490.149	1290.497	1105.623	1037.841	973.983	929.860	932.294
143.5	1710.694	1646.294	1495.625	1299.178	1117.292	1048.874	985.015	941.105	943.329
144.0	1708.722	1650.060	1502.162	1307.859	1128.009	1059.695	995.622	952.136	954.359
144.5	1714.501	1654.886	1507.639	1316.432	1138.726	1069.879	1006.445	963.063	965.392
145.0	1719.846	1658.543	1512.054	1324.160	1149.334	1080.487	1017.053	973.671	976.851
145.5	1720.104	1662.200	1519.652	1332.841	1159.943	1091.204	1027.659	984.598	987.460
146.0	1723.328	1664.580	1523.959	1340.570	1169.599	1101.813	1038.056	995.206	998.387
146.5	1729.215	1669.407	1529.544	1346.069	1180.207	1112.421	1048.558	1006.025	1009.313
147.0	1731.595	1671.786	1534.912	1353.689	1190.815	1123.030	1059.485	1016.737	1020.344
147.5	1736.097	1676.721	1539.436	1359.296	1200.471	1133.855	1069.987	1027.558	1030.952
148.0	1736.138	1677.196	1544.912	1365.855	1211.080	1144.355	1080.596	1038.378	1042.091
148.5	1736.504	1679.792	1548.266	1374.536	1220.736	1153.902	1091.312	1049.199	1052.914
149.0	1739.728	1684.619	1553.743	1382.156	1231.453	1163.558	1101.813	1059.805	1063.945
149.5	1741.372	1682.972	1557.097	1387.763	1241.000	1174.275	1112.421	1070.095	1074.555
150.0	1742.366	1687.581	1562.573	1396.553	1250.548	1184.884	1123.030	1080.704	1086.225
150.5	1745.807	1690.178	1569.219	1403.220	1260.095	1194.540	1133.638	1092.373	1096.833
151.0	1745.957	1692.774	1570.560	1410.949	1269.751	1204.087	1143.294	1102.873	1108.394
151.5	1749.505	1693.357	1577.097	1417.508	1279.407	1214.696	1153.902	1113.590	1119.111
152.0	1749.764	1695.001	1579.499	1425.237	1289.063	1224.352	1164.511	1124.090	1130.672
152.5	1748.852	1697.597	1584.023	1430.844	1298.611	1233.899	1175.228	1134.699	1141.389
153.0	1749.110	1698.072	1588.547	1438.572	1307.206	1243.555	1184.667	1144.246	1151.997
153.5	1752.551	1700.777	1591.901	1445.240	1312.619	1253.103	1195.384	1155.916	1162.606
154.0	1750.687	1702.420	1594.303	1452.969	1323.227	1263.820	1204.931	1166.416	1174.383
154.5	1753.067	1703.004	1596.489	1458.576	1330.653	1272.306	1215.540	1177.024	1185.100
155.0	1755.339	1704.539	1600.796	1464.183	1337.126	1282.071	1225.196	1186.572	1195.600
155.5	1754.644	1704.169	1603.826	1470.959	1344.661	1291.510	1235.804	1197.180	1206.317
156.0	1751.611	1705.813	1605.794	1476.457	1354.208	1301.274	1245.460	1207.789	1216.817
156.5	1753.991	1707.565	1607.980	1483.233	1361.743	1306.578	1255.008	1218.289	1226.365
157.0	1755.093	1706.979	1611.226	1488.948	1370.338	1316.234	1264.555	1227.837	1237.082
157.5	1750.219	1707.671	1613.411	1493.386	1377.764	1324.721	1275.272	1238.445	1247.690
158.0	1750.541	1705.179	1615.922	1498.993	1385.298	1333.208	1284.820	1249.054	1258.299
158.5	1747.703	1705.871	1617.371	1503.647	1393.784	1339.681	1293.307	1258.601	1267.846
159.0	1744.778	1706.562	1619.882	1509.254	1401.319	1348.168	1299.672	1268.149	1278.455
159.5	1747.591	1707.145	1621.331	1514.969	1407.684	1357.716	1312.510	1278.757	1288.002
160.0	1744.125	1706.559	1622.889	1519.515	1416.279	1365.250	1317.814	1288.305	1298.611
160.5	1741.634	1705.864	1625.508	1523.109	1422.752	1373.845	1327.470	1297.853	1308.267
161.0	1742.519	1706.014	1627.066	1527.763	1428.057	1381.271	1334.896	1305.279	1318.767
161.5	1740.461	1702.137	1629.576	1532.309	1436.543	1389.758	1341.370	1314.826	1327.254
162.0	1739.053	1700.490	1626.999	1536.964	1441.848	1397.292	1350.917	1324.374	1331.281
162.5	1735.068	1697.891	1630.678	1538.436	1450.443	1405.887	1358.343	1331.800	1340.611
163.0	1733.940	1699.643	1630.223	1544.151	1455.855	1414.374	1369.060	1339.226	1348.773
163.5	1731.968	1696.199	1630.828	1546.575	1463.281	1420.847	1376.486	1348.773	1358.213
164.0	1732.551	1696.154	1632.386	1550.169	1468.585	1427.212	1383.912	1357.260	1366.591
164.5	1729.108	1692.819	1631.930	1552.593	1475.059	1434.638	1393.568	1366.916	1378.044
165.0	1725.772	1692.666	1632.535	1556.187	1481.424	1443.125	1402.055	1374.342	1386.531
165.5	1720.315	1687.209	1632.188	1559.672	1487.897	1448.538	1408.420	1381.768	1393.957
166.0	1720.270	1685.151	1631.624	1563.265	1493.201	1454.903	1415.954	1391.316	1404.348
166.5	1717.888	1682.985	1632.338	1566.859	1497.445	1462.437	1424.332	1399.802	1413.896

CANDELA TABULATION - (Cont.)

167.0	1715.288	1680.818	1630.930	1566.317	1502.857	1467.741	1432.928	1407.337	1422.383
167.5	1710.675	1676.747	1630.583	1568.958	1507.209	1474.106	1438.232	1416.993	1429.809
168.0	1703.313	1673.628	1630.236	1571.599	1512.513	1480.580	1446.827	1425.479	1438.404
168.5	1702.207	1671.137	1629.888	1574.348	1517.818	1486.945	1455.422	1434.074	1446.782
169.0	1695.798	1667.477	1627.419	1572.746	1523.230	1493.310	1460.618	1440.439	1454.100
169.5	1692.571	1663.514	1627.072	1576.339	1526.304	1497.553	1469.105	1449.987	1460.357
170.0	1689.343	1659.442	1625.664	1576.967	1529.487	1504.027	1475.578	1456.352	1468.843
170.5	1686.225	1657.601	1622.243	1578.656	1532.778	1509.331	1480.991	1463.887	1476.378
171.0	1679.707	1653.746	1623.064	1579.391	1534.899	1514.635	1486.403	1471.312	1482.851
171.5	1674.574	1649.891	1618.474	1580.127	1540.312	1517.926	1492.877	1478.955	1491.338
172.0	1671.781	1645.084	1618.343	1581.816	1544.664	1523.230	1499.242	1483.198	1497.486
172.5	1666.757	1640.385	1614.922	1581.491	1547.738	1528.534	1505.607	1491.685	1505.865
173.0	1659.719	1636.531	1611.717	1581.274	1549.968	1533.839	1511.972	1498.050	1510.000
173.5	1655.973	1631.723	1610.742	1583.179	1551.981	1535.960	1517.276	1503.354	1517.534
174.0	1652.010	1627.977	1606.476	1582.963	1553.042	1541.265	1521.519	1509.828	1524.852
174.5	1645.817	1621.156	1603.488	1582.746	1556.333	1546.569	1526.715	1516.193	1528.034
175.0	1639.624	1616.457	1600.500	1580.516	1559.516	1549.751	1530.959	1521.389	1534.291
175.5	1633.539	1611.975	1597.620	1582.638	1561.529	1551.765	1536.371	1526.801	1538.534
176.0	1631.914	1607.601	1594.849	1582.529	1563.759	1556.116	1541.567	1532.214	1547.130
176.5	1623.080	1601.322	1592.185	1581.577	1564.711	1558.238	1548.041	1537.627	1550.420
177.0	1618.490	1597.381	1587.617	1581.577	1564.928	1561.421	1549.101	1542.822	1555.725
177.5	1611.669	1591.427	1586.339	1579.455	1566.941	1562.482	1554.406	1547.066	1558.799
178.0	1605.282	1587.811	1584.109	1579.455	1568.002	1565.664	1557.480	1553.539	1567.394
178.5	1598.484	1581.229	1580.927	1578.394	1568.002	1568.847	1560.662	1557.674	1572.590
179.0	1593.915	1578.999	1576.684	1578.394	1569.063	1569.908	1566.075	1561.918	1574.712
179.5	1589.563	1574.864	1574.562	1576.273	1569.063	1572.029	1568.197	1565.208	1583.307
180.0	1573.068	1573.068	1573.068	1573.068	1573.068	1573.068	1573.068	1573.068	1573.068

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-850U-L50-850D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	584.04	N.A.	5.50
0-30	1240.65	N.A.	11.70
0-40	2035.11	N.A.	19.20
0-60	3686.06	N.A.	34.70
0-80	4936.72	N.A.	46.50
0-90	5329.58	N.A.	50.20
10-90	5178.71	N.A.	48.80
20-40	1451.08	N.A.	13.70
20-50	2293.46	N.A.	21.60
40-70	2353.87	N.A.	22.20
60-80	1250.66	N.A.	11.80
70-80	547.74	N.A.	5.20
80-90	392.86	N.A.	3.70
90-110	937.07	N.A.	8.80
90-120	1635.04	N.A.	15.40
90-130	2437.89	N.A.	23.00
90-150	4061.14	N.A.	38.20
90-180	5288.01	N.A.	49.80
110-180	4350.94	N.A.	41.00
0-180	10617.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.87
10-20	433.16
20-30	656.61
30-40	794.47
40-50	842.39
50-60	808.55
60-70	702.92
70-80	547.74
80-90	392.86
90-100	392.29
100-110	544.78
110-120	697.97
120-130	802.84
130-140	835.95
140-150	787.31
150-160	649.61
160-170	428.08
170-180	149.18

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-850U-L50-850D-DMA-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	32
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	26
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	27	32	27	23	26	22	19	16
7	56	43	35	29	51	40	33	28	34	28	24	29	24	21	23	20	17	14
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	21	18	15	13
9	48	36	28	23	44	33	26	22	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	18	15	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-850U-L50-850D-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

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

Room Size UGR Viewed Crosswise

X=2H	Y=2H	22.0	22.9	22.9	23.9	25.1	16.0	16.9	16.9	17.9	19.1
	3H	25.1	25.9	26.0	26.9	28.2	17.3	18.2	18.3	19.1	20.4
	4H	26.7	27.4	27.6	28.4	29.7	17.8	18.6	18.7	19.5	20.8
	6H	28.4	29.1	29.3	30.1	31.4	18.0	18.7	19.0	19.7	21.0
	8H	29.3	30.0	30.2	31.0	32.3	18.1	18.8	19.0	19.8	21.1
	12H	30.3	30.9	31.3	31.9	33.3	18.1	18.7	19.1	19.7	21.1

UGR Viewed Endwise

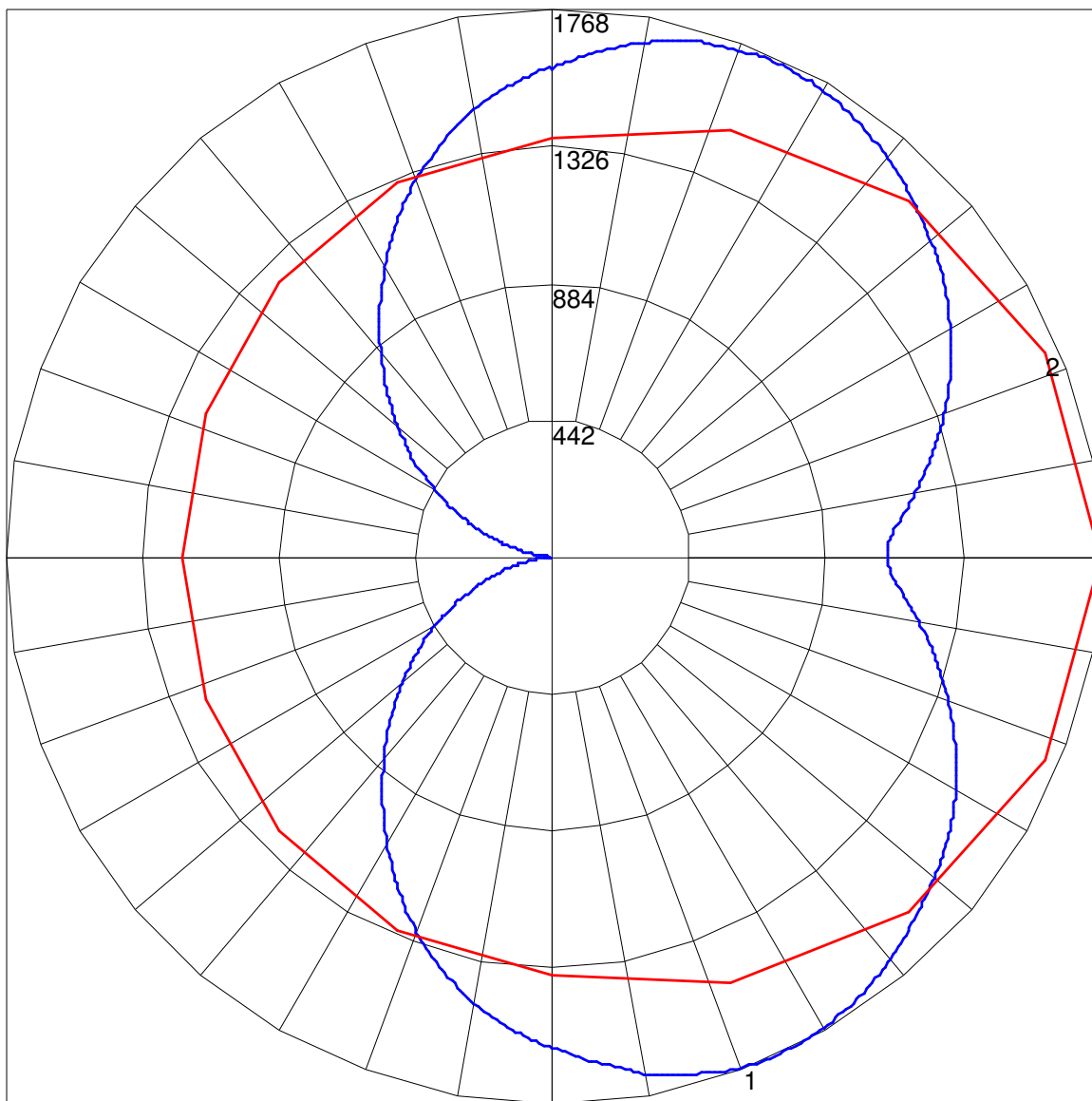
4H	2H	22.3	23.0	23.2	24.0	25.3	17.2	18.0	18.2	19.0	20.3
	3H	25.6	26.2	26.6	27.2	28.6	18.9	19.5	19.9	20.5	21.9
	4H	27.3	28.0	28.3	29.0	30.3	19.4	20.1	20.4	21.1	22.4
	6H	29.2	29.8	30.3	30.8	32.1	19.8	20.4	20.8	21.4	22.7
	8H	30.3	30.7	31.3	31.8	33.1	19.9	20.4	20.9	21.4	22.8
	12H	31.4	31.8	32.4	32.9	34.2	20.0	20.4	21.0	21.5	22.8

8H	4H	27.5	28.0	28.5	29.0	30.3	20.6	21.1	21.6	22.1	23.4
	6H	29.5	30.0	30.6	31.0	32.4	21.2	21.6	22.2	22.7	24.0
	8H	30.7	31.1	31.7	32.1	33.5	21.4	21.8	22.4	22.8	24.2
	12H	32.0	32.3	33.0	33.4	34.8	21.5	21.9	22.6	22.9	24.3

12H	4H	27.4	27.9	28.5	28.9	30.3	20.9	21.4	21.9	22.4	23.7
	6H	29.6	29.9	30.6	31.0	32.4	21.7	22.1	22.8	23.1	24.5
	8H	30.8	31.1	31.8	32.1	33.5	22.0	22.4	23.1	23.4	24.8

Maximum UGR = 34.8

POLAR GRAPH



Maximum Candela = 1767.826 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.)