

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-840U-L50-840D-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-L50-840U-L50-840D-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	10317
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	21302	20171	19338
55	21176	19302	17738
65	21212	18633	15848
75	21581	18211	13076
85	22685	18627	9131

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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	1544.032	1544.032	1544.032	1544.032	1544.032	1544.032	1544.032	1544.032	1544.032
0.5	1546.202	1548.779	1545.909	1551.790	1541.265	1549.272	1538.872	1538.791	1538.937
1.0	1550.412	1552.451	1551.584	1553.048	1540.315	1546.961	1534.456	1534.375	1534.624
1.5	1555.983	1557.383	1553.255	1556.412	1540.315	1542.648	1532.145	1529.009	1527.257
2.0	1560.709	1563.470	1557.031	1556.721	1539.160	1539.388	1527.935	1524.696	1522.944
2.5	1567.539	1567.659	1562.065	1558.083	1538.107	1537.283	1523.725	1521.539	1518.837
3.0	1572.058	1573.952	1566.047	1558.392	1537.055	1535.178	1520.568	1515.224	1513.471
3.5	1578.042	1579.502	1568.977	1561.962	1537.055	1530.865	1515.305	1510.911	1510.314
4.0	1585.925	1585.052	1574.012	1562.271	1534.847	1526.655	1513.200	1505.648	1502.947
4.5	1589.495	1589.652	1577.994	1561.631	1533.794	1525.602	1507.938	1500.386	1496.529
5.0	1591.475	1595.409	1581.439	1565.098	1531.689	1520.340	1501.623	1495.020	1490.317
5.5	1598.821	1600.112	1582.572	1565.510	1528.532	1515.077	1498.466	1489.758	1487.159
6.0	1603.752	1603.867	1585.605	1564.870	1526.324	1513.922	1494.255	1485.445	1480.741
6.5	1607.734	1610.985	1588.741	1564.333	1524.322	1509.815	1488.787	1477.974	1474.529
7.0	1611.716	1615.482	1590.824	1564.539	1523.166	1506.451	1483.524	1471.556	1467.059
7.5	1615.780	1619.236	1593.011	1564.105	1517.801	1501.189	1477.209	1466.294	1459.691
8.0	1623.598	1621.938	1595.713	1561.360	1514.643	1495.927	1471.947	1459.876	1452.324
8.5	1630.526	1625.899	1598.414	1562.928	1513.591	1492.769	1466.582	1453.561	1445.060
9.0	1639.993	1630.065	1600.807	1561.235	1508.329	1487.403	1460.164	1445.038	1437.692
9.5	1644.675	1633.695	1602.250	1561.751	1505.068	1481.089	1453.849	1438.620	1435.587
10.0	1649.894	1639.326	1603.590	1560.264	1501.910	1476.775	1448.586	1432.305	1424.010
10.5	1655.010	1642.646	1605.983	1558.675	1496.648	1471.616	1442.168	1424.835	1418.851
11.0	1658.124	1645.017	1607.426	1556.136	1494.440	1466.251	1434.698	1419.572	1411.483
11.5	1660.929	1648.750	1607.816	1553.597	1488.125	1459.936	1428.486	1411.049	1402.011
12.0	1662.682	1651.430	1609.260	1553.163	1483.915	1456.675	1422.068	1403.682	1393.694
12.5	1668.747	1656.215	1609.753	1550.624	1480.655	1448.152	1414.700	1396.314	1386.327
13.0	1672.171	1658.792	1610.453	1548.085	1476.445	1442.890	1407.230	1387.792	1376.008
13.5	1674.851	1662.216	1611.153	1546.598	1469.077	1436.575	1400.812	1379.268	1369.899
14.0	1679.945	1664.380	1611.956	1544.162	1465.817	1428.052	1391.340	1370.849	1360.736
14.5	1683.472	1666.648	1610.448	1540.468	1460.554	1422.790	1383.869	1362.429	1351.367
15.0	1683.531	1667.760	1610.942	1538.032	1453.084	1416.371	1376.502	1354.009	1341.997
15.5	1685.718	1668.976	1610.795	1533.285	1446.769	1409.953	1367.979	1344.536	1336.735
16.0	1686.646	1671.244	1609.597	1529.384	1441.403	1402.586	1361.561	1336.117	1324.002
16.5	1691.181	1673.511	1611.555	1528.001	1436.141	1395.219	1353.141	1328.749	1317.687
17.0	1696.151	1672.622	1611.409	1523.254	1430.878	1386.696	1345.670	1319.174	1311.475
17.5	1696.932	1676.045	1610.107	1517.351	1423.408	1381.330	1336.095	1312.756	1300.847
18.0	1699.921	1675.156	1608.805	1514.915	1416.041	1370.702	1326.622	1303.283	1293.480
18.5	1703.963	1676.474	1607.194	1510.374	1408.570	1364.387	1322.309	1298.021	1283.905
19.0	1702.949	1677.792	1606.841	1507.092	1402.255	1355.864	1313.889	1288.548	1274.432
19.5	1707.712	1677.955	1604.177	1502.861	1394.785	1349.446	1304.314	1279.076	1263.804
20.0	1710.062	1677.272	1603.825	1497.267	1388.470	1341.026	1300.104	1269.604	1254.332
20.5	1710.740	1678.590	1600.211	1492.726	1382.052	1332.503	1290.529	1260.028	1243.704
21.0	1711.315	1677.803	1598.806	1486.493	1372.579	1324.083	1281.056	1250.556	1234.231
21.5	1713.046	1678.276	1596.246	1483.314	1366.161	1319.770	1272.636	1240.031	1223.707
22.0	1715.292	1677.901	1593.788	1479.185	1357.741	1309.246	1263.061	1230.559	1213.079
22.5	1716.589	1677.527	1591.228	1473.798	1349.218	1301.672	1253.485	1221.086	1203.606
23.0	1715.677	1678.102	1588.770	1468.308	1341.748	1291.147	1244.013	1210.561	1192.978
23.5	1715.922	1676.985	1587.262	1460.713	1332.275	1286.937	1234.438	1200.036	1182.453
24.0	1717.115	1676.817	1583.752	1456.687	1325.961	1278.414	1224.862	1190.461	1170.876
24.5	1717.793	1676.443	1581.294	1450.557	1316.385	1268.942	1215.390	1180.039	1161.404
25.0	1716.367	1676.171	1576.732	1446.119	1313.228	1259.263	1205.814	1169.411	1150.776
25.5	1713.888	1673.795	1574.274	1440.732	1305.757	1249.791	1196.342	1158.886	1139.198
26.0	1714.566	1673.215	1570.764	1432.187	1298.390	1240.215	1185.714	1149.414	1129.623
26.5	1713.242	1670.529	1567.357	1425.644	1288.814	1230.743	1176.138	1138.889	1117.942

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CANDELA TABULATION - (Cont.)

27.0	1710.866	1668.897	1565.106	1420.257	1279.239	1221.064	1165.614	1128.364	1107.418
27.5	1710.801	1668.316	1558.748	1414.870	1270.716	1211.592	1156.038	1117.736	1096.790
28.0	1711.479	1665.631	1554.598	1405.170	1261.244	1200.964	1146.463	1107.211	1085.212
28.5	1708.691	1662.945	1551.397	1400.732	1252.824	1191.492	1135.938	1096.687	1074.584
29.0	1706.418	1662.365	1548.196	1392.187	1242.299	1181.916	1125.413	1085.109	1064.059
29.5	1705.940	1657.575	1544.149	1383.437	1232.723	1171.391	1114.785	1074.584	1053.008
30.0	1705.132	1654.683	1539.896	1377.946	1223.148	1160.660	1105.313	1063.956	1042.067
30.5	1702.447	1652.307	1535.642	1370.454	1213.675	1151.188	1094.685	1053.326	1031.540
31.0	1702.073	1650.674	1531.492	1362.756	1204.203	1140.560	1084.160	1042.696	1020.596
31.5	1699.800	1648.835	1525.134	1359.370	1194.628	1130.035	1073.635	1032.276	1009.758
32.0	1696.268	1646.150	1522.036	1350.620	1184.103	1120.460	1063.007	1021.434	999.336
32.5	1696.946	1642.412	1516.627	1346.182	1174.527	1109.832	1052.377	1010.909	988.289
33.0	1691.206	1640.882	1512.168	1338.690	1165.055	1099.307	1041.747	999.860	977.238
33.5	1692.194	1635.988	1506.656	1330.042	1154.427	1088.679	1031.222	989.230	966.608
34.0	1690.767	1632.354	1500.091	1322.447	1143.902	1078.154	1020.594	978.810	955.559
34.5	1687.442	1628.616	1493.527	1313.696	1133.274	1068.579	1009.964	967.970	944.823
35.0	1683.497	1624.878	1489.171	1305.048	1122.749	1057.738	999.544	957.339	934.404
35.5	1681.018	1622.296	1484.608	1297.453	1113.277	1047.110	989.124	946.604	923.458
36.0	1677.053	1616.453	1478.250	1288.805	1102.752	1036.480	978.494	936.079	912.514
36.5	1674.780	1612.715	1473.791	1280.158	1091.175	1025.852	967.445	925.765	901.674
37.0	1671.145	1610.133	1466.071	1271.407	1080.547	1015.538	957.131	914.926	890.728
37.5	1667.922	1604.393	1459.403	1262.759	1070.022	1004.594	946.606	903.980	880.415
38.0	1666.599	1599.603	1455.150	1254.111	1059.497	993.964	935.871	893.666	869.261
38.5	1660.013	1595.968	1446.480	1245.464	1048.764	983.123	925.346	882.933	858.210
39.0	1656.790	1593.386	1440.865	1235.763	1037.818	972.706	914.611	872.408	847.475
39.5	1652.206	1587.543	1441.668	1227.013	1027.188	962.076	904.296	861.673	836.845
40.0	1650.985	1583.908	1435.207	1218.365	1016.242	951.130	893.879	851.150	826.530
40.5	1644.605	1580.067	1428.746	1208.665	1005.298	940.502	883.038	840.623	815.900
41.0	1639.815	1574.533	1422.078	1199.914	994.668	929.872	872.513	829.995	805.064
41.5	1634.488	1569.743	1415.617	1190.420	983.512	918.823	861.778	819.681	794.642
42.0	1633.164	1565.902	1407.897	1181.875	972.671	908.717	851.255	808.947	784.225
42.5	1628.786	1561.215	1401.332	1173.331	961.725	897.983	840.625	798.212	773.908
43.0	1623.355	1553.267	1394.562	1164.992	950.781	887.143	830.100	788.108	762.967
43.5	1620.773	1549.529	1388.101	1155.498	939.309	876.302	819.260	777.270	752.755
44.0	1615.240	1544.739	1380.587	1146.004	928.574	865.674	808.419	766.639	742.757
44.5	1610.862	1540.051	1372.764	1136.407	917.418	855.149	797.791	756.222	732.339
45.0	1607.639	1536.314	1366.302	1127.759	906.472	843.995	787.266	745.487	722.130
45.5	1600.744	1529.521	1358.685	1118.269	895.528	833.258	776.320	735.172	711.397
46.0	1600.266	1524.834	1351.068	1108.885	884.372	822.417	765.795	724.753	701.082
46.5	1593.887	1522.149	1344.504	1099.393	873.318	811.684	754.955	714.125	691.189
47.0	1591.511	1520.516	1336.887	1089.693	861.848	800.948	744.325	703.913	681.193
47.5	1587.979	1516.138	1329.167	1080.514	850.481	790.003	733.697	693.391	670.563
48.0	1583.704	1509.986	1321.860	1071.336	839.220	778.743	723.275	683.392	660.248
48.5	1576.809	1504.452	1313.933	1062.053	828.169	767.797	712.436	672.975	650.039
49.0	1572.534	1498.609	1306.419	1052.453	817.120	756.957	701.806	662.871	639.619
49.5	1568.362	1492.766	1298.699	1042.856	805.963	746.327	691.387	652.664	629.726
50.0	1568.937	1488.182	1290.979	1033.469	794.702	735.488	680.969	642.455	619.306
50.5	1561.401	1482.339	1283.466	1023.771	783.545	724.332	670.234	632.770	609.205
51.0	1559.975	1476.703	1275.952	1014.387	772.494	713.596	659.814	622.457	598.998
51.5	1554.750	1470.963	1267.179	1004.685	761.443	702.545	649.184	612.248	589.104
52.0	1549.526	1464.068	1259.356	994.566	750.182	691.915	638.975	602.252	579.422
52.5	1545.045	1458.328	1251.842	985.076	739.131	681.182	628.558	592.253	569.318
53.0	1539.511	1452.382	1243.173	975.165	727.974	670.236	618.033	582.255	559.109
53.5	1533.978	1446.745	1235.348	965.362	717.134	659.185	607.508	572.361	548.902
54.0	1528.856	1440.799	1227.207	955.346	705.874	648.555	597.088	562.152	539.848
54.5	1523.323	1434.316	1218.748	945.225	695.034	638.030	586.776	552.366	529.854

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55.0	1517.995	1428.370	1210.712	935.421	683.982	627.086	576.356	542.262	519.748
55.5	1512.565	1421.475	1202.777	925.195	673.037	616.037	566.044	532.264	510.065
56.0	1507.237	1415.735	1194.531	915.286	661.880	605.405	555.833	522.686	499.858
56.5	1502.116	1408.840	1185.967	904.955	650.827	594.567	545.205	512.372	490.491
57.0	1496.686	1403.203	1177.513	894.728	639.673	583.934	535.309	502.901	481.227
57.5	1490.203	1396.411	1169.365	884.504	628.725	572.887	525.208	492.692	471.020
58.0	1484.463	1389.413	1161.014	873.962	617.360	562.150	514.788	483.115	461.231
58.5	1479.342	1382.620	1152.456	863.737	606.204	551.520	504.789	473.326	451.338
59.0	1473.911	1376.034	1143.578	853.195	594.837	540.787	494.791	463.433	441.971
59.5	1467.531	1368.933	1135.325	842.655	583.365	529.946	484.897	453.855	432.393
60.0	1460.636	1362.037	1126.450	832.431	572.103	519.002	475.004	444.173	422.711
60.5	1454.359	1355.245	1118.204	822.207	560.947	508.267	464.902	434.595	413.028
61.0	1448.929	1348.346	1109.642	812.191	549.895	497.426	454.798	424.912	403.450
61.5	1442.342	1341.450	1101.080	801.861	538.634	486.901	444.695	415.229	393.767
62.0	1434.704	1334.134	1092.097	791.319	527.581	476.063	435.012	405.548	384.505
62.5	1428.221	1326.919	1083.636	780.989	516.214	465.433	424.908	395.760	374.717
63.0	1421.738	1320.019	1075.183	770.660	505.268	454.487	414.806	386.183	365.350
63.5	1415.255	1312.387	1066.621	760.328	494.111	443.646	404.910	376.708	355.667
64.0	1408.875	1304.965	1057.638	749.999	482.955	433.332	394.912	366.920	346.618
64.5	1401.340	1297.649	1049.184	739.669	471.906	422.597	384.703	357.342	337.880
65.0	1394.122	1290.333	1039.887	728.918	460.750	412.072	374.494	347.870	328.092
65.5	1386.803	1282.595	1031.323	718.273	449.488	401.336	364.705	338.292	318.830
66.0	1379.689	1274.645	1022.656	707.946	438.540	390.603	354.496	328.925	309.779
66.5	1372.991	1267.015	1013.467	697.511	427.596	379.868	344.710	319.242	300.727
67.0	1365.456	1259.381	1004.903	687.076	416.649	369.343	335.130	309.980	291.992
67.5	1358.133	1251.747	995.709	676.326	405.700	359.029	325.342	300.613	282.835
68.0	1350.913	1243.803	986.731	665.683	394.231	348.819	315.451	291.351	273.468
68.5	1343.272	1235.853	977.855	655.143	383.179	338.084	305.558	282.089	264.206
69.0	1336.583	1228.013	968.556	644.815	372.339	327.875	295.770	272.828	255.681
69.5	1329.048	1220.381	959.889	634.591	361.498	317.350	286.506	263.776	246.840
70.0	1321.931	1212.429	950.595	624.367	350.552	307.141	276.930	254.725	237.997
70.5	1314.604	1204.378	941.612	614.037	339.714	296.723	267.458	245.463	228.842
71.0	1307.489	1196.428	932.526	603.398	328.766	286.620	257.985	236.727	220.001
71.5	1300.265	1188.478	923.023	593.176	318.451	276.516	248.726	227.992	211.266
72.0	1292.425	1180.011	914.145	583.268	307.714	266.412	239.462	219.256	203.265
72.5	1284.990	1172.269	905.059	573.151	296.244	256.413	230.305	210.836	194.319
73.0	1277.253	1164.113	896.184	563.347	285.927	246.625	221.359	201.995	185.899
73.5	1269.715	1155.746	887.207	553.228	275.299	237.153	212.307	193.365	177.268
74.0	1262.283	1147.693	877.913	543.114	264.878	227.575	203.361	185.153	169.061
74.5	1254.230	1139.228	868.930	533.104	254.774	218.103	194.626	176.839	161.378
75.0	1246.589	1131.175	859.537	523.404	244.565	208.630	185.995	168.631	153.063
75.5	1238.742	1122.808	850.560	513.292	234.564	199.368	177.363	160.212	145.167
76.0	1230.792	1114.757	842.000	503.387	224.565	190.317	168.629	152.318	137.484
76.5	1222.832	1106.287	832.816	494.001	214.567	181.371	159.999	144.108	129.909
77.0	1214.776	1098.344	823.839	483.993	204.881	172.425	151.998	136.425	122.855
77.5	1206.719	1089.982	814.865	474.714	194.988	163.584	143.685	128.637	115.487
78.0	1198.874	1081.933	806.202	465.231	185.726	154.743	135.581	121.164	108.330
78.5	1190.396	1073.575	797.642	456.267	176.359	146.113	127.582	113.795	101.174
79.0	1182.448	1065.004	788.878	446.786	167.306	137.798	119.689	106.427	93.911
79.5	1174.391	1056.958	780.321	437.617	158.149	129.588	112.003	99.060	87.281
80.0	1166.131	1048.806	771.664	428.557	149.095	121.587	104.531	92.113	80.545
80.5	1157.868	1040.555	763.004	420.016	140.360	113.588	97.163	85.167	74.019
81.0	1150.128	1032.614	754.974	411.478	131.938	105.800	90.006	78.431	67.283
81.5	1142.178	1024.043	746.634	402.942	123.728	98.325	82.952	71.800	60.758
82.0	1134.125	1016.104	738.604	394.406	115.624	90.958	75.903	65.275	54.656
82.5	1126.906	1008.902	730.685	386.184	107.520	83.906	69.375	59.274	48.863

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CANDELA TABULATION - (Cont.)

83.0	1119.067	1001.171	722.555	378.486	99.732	76.749	62.850	53.169	42.866
83.5	1111.648	993.335	714.635	370.892	92.259	69.801	56.640	47.170	37.077
84.0	1104.435	985.922	707.136	363.306	84.997	63.170	50.536	41.381	31.391
84.5	1097.011	978.301	699.535	355.717	77.840	56.750	44.326	35.593	26.131
85.0	1090.008	970.574	692.038	348.549	70.893	50.540	38.432	30.225	21.393
85.5	1083.109	963.475	684.224	341.382	64.052	44.331	32.747	25.068	17.183
86.0	1076.215	956.685	676.727	334.530	57.422	38.331	27.274	20.437	14.131
86.5	1069.833	950.513	669.963	327.678	51.001	32.541	22.011	16.856	12.024
87.0	1063.967	946.204	663.293	321.350	44.897	26.857	17.380	14.014	10.655
87.5	1059.749	942.927	658.284	314.813	38.793	21.382	14.115	12.223	9.811
88.0	1057.707	941.407	654.713	308.380	32.583	16.014	11.800	10.960	9.386
88.5	1056.170	940.295	652.480	302.770	26.373	11.594	10.535	10.013	8.862
89.0	1055.258	940.017	651.910	298.916	20.056	9.489	9.798	9.695	8.754
89.5	1055.074	939.841	651.440	297.639	14.684	8.750	9.482	9.379	8.649
90.0	1055.195	939.769	651.495	297.713	12.560	8.539	9.375	9.377	8.752
90.5	1054.383	940.014	651.556	298.311	14.920	8.537	9.373	9.375	8.645
91.0	1054.824	940.784	652.343	301.113	20.072	8.638	9.268	9.478	8.645
91.5	1055.057	942.183	654.077	306.022	26.257	10.287	9.371	9.373	8.539
92.0	1056.340	944.422	658.017	311.880	32.235	13.275	9.680	9.268	8.746
92.5	1057.726	948.230	663.426	317.738	38.006	18.120	10.502	9.577	8.952
93.0	1060.583	952.993	669.884	324.533	43.776	23.789	12.564	9.989	9.673
93.5	1064.282	959.010	676.762	330.598	49.755	29.459	16.069	11.121	11.323
94.0	1069.766	965.866	683.842	337.491	56.043	35.231	20.811	13.389	14.518
94.5	1076.406	972.831	690.504	344.282	62.434	40.795	26.274	16.999	18.951
95.0	1083.359	980.310	698.314	351.068	69.031	46.877	31.838	21.326	23.896
95.5	1090.312	987.895	705.809	358.168	75.835	53.065	37.611	26.583	29.568
96.0	1097.579	994.956	713.196	365.471	82.844	59.247	43.798	32.255	35.135
96.5	1104.636	1002.225	720.794	373.088	90.058	65.741	49.880	37.922	41.113
97.0	1111.795	1009.601	728.391	380.807	97.480	72.236	56.168	43.901	47.195
97.5	1119.163	1017.177	736.092	388.523	105.213	79.142	62.559	50.191	53.174
98.0	1126.316	1024.755	743.798	396.754	112.839	86.152	68.950	56.273	59.254
98.5	1133.887	1032.540	751.913	405.091	120.985	93.368	75.648	62.662	65.853
99.0	1141.354	1040.429	760.028	413.320	129.438	101.099	82.557	69.156	72.451
99.5	1148.823	1048.109	768.244	421.966	137.888	108.727	89.667	75.962	79.359
100.0	1156.287	1055.996	776.669	430.711	146.547	116.767	96.780	82.765	85.954
100.5	1163.754	1063.985	784.986	439.457	155.412	124.808	104.202	89.569	92.964
101.0	1171.634	1071.767	793.514	448.513	164.486	132.848	111.935	96.578	99.870
101.5	1178.893	1079.543	801.932	457.466	173.658	141.509	119.563	103.691	107.189
102.0	1186.769	1087.641	810.764	466.626	183.038	149.545	127.501	111.010	114.716
102.5	1194.337	1095.421	819.286	475.680	192.419	158.619	135.438	118.535	122.138
103.0	1202.117	1103.407	827.910	484.839	202.214	169.339	143.582	126.060	129.766
103.5	1209.888	1111.292	836.637	494.202	212.110	178.204	151.828	133.791	137.291
104.0	1217.671	1119.173	845.470	503.773	221.799	185.727	160.075	141.627	145.332
104.5	1225.232	1127.473	854.193	513.136	231.695	195.213	168.734	149.666	153.372
105.0	1233.216	1135.253	862.817	522.500	242.004	204.284	177.292	157.811	161.516
105.5	1240.057	1143.239	871.748	532.071	252.211	213.871	185.948	165.955	169.659
106.0	1247.932	1151.226	880.370	541.744	262.517	224.591	194.816	174.201	178.011
106.5	1255.293	1158.901	888.993	551.521	273.137	235.724	203.784	182.553	186.256
107.0	1262.964	1166.784	897.718	560.987	283.548	243.868	212.649	191.107	195.226
107.5	1270.634	1174.768	906.340	570.765	294.165	252.630	221.926	199.560	203.576
108.0	1277.993	1182.546	915.275	580.747	304.785	262.526	230.998	208.633	212.338
108.5	1285.247	1190.324	924.104	590.731	315.609	272.630	240.172	217.290	220.999
109.0	1293.021	1197.793	932.831	600.609	326.329	282.627	249.655	226.363	229.864
109.5	1300.171	1206.094	941.554	610.385	337.050	292.731	259.038	235.125	238.626
110.0	1307.633	1213.353	950.075	620.575	347.976	302.936	268.316	244.196	247.802
110.5	1314.889	1221.135	958.283	630.556	358.903	313.141	277.902	253.268	256.770

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111.0	1322.249	1228.398	966.903	640.540	369.933	323.452	287.489	262.444	265.945
111.5	1329.406	1235.969	975.632	650.730	380.963	333.760	296.972	271.722	274.707
112.0	1336.247	1243.545	984.147	660.815	391.993	344.171	306.765	280.999	283.570
112.5	1343.607	1251.016	992.874	671.106	403.334	354.789	316.661	290.173	292.643
113.0	1350.237	1258.487	1001.499	681.191	414.261	365.406	326.351	299.348	301.920
113.5	1357.496	1265.855	1010.013	691.690	425.291	376.129	336.350	308.831	311.404
114.0	1364.438	1272.907	1018.530	701.774	436.630	386.643	346.557	318.212	320.681
114.5	1371.280	1280.169	1027.049	711.962	447.556	397.467	358.719	327.904	329.959
115.0	1377.709	1287.539	1035.568	722.255	458.691	408.190	371.707	337.490	339.445
115.5	1384.245	1294.802	1043.982	732.443	469.927	419.116	380.985	346.871	348.619
116.0	1391.291	1301.547	1052.606	742.631	481.163	429.837	387.378	356.457	358.618
116.5	1397.621	1308.814	1060.706	752.821	492.193	440.558	396.243	366.044	367.998
117.0	1404.667	1316.078	1069.434	763.112	503.431	451.690	407.997	375.837	377.793
117.5	1410.892	1322.718	1077.639	773.197	514.873	462.310	421.191	385.217	387.069
118.0	1417.117	1329.875	1085.950	783.490	525.800	473.443	431.703	395.115	396.760
118.5	1423.027	1336.521	1094.675	793.572	537.139	484.372	438.923	404.494	406.347
119.0	1429.357	1342.957	1102.782	803.865	548.377	495.092	446.964	414.598	416.245
119.5	1435.688	1350.424	1111.090	813.950	559.613	505.710	456.860	424.288	425.521
120.0	1441.702	1357.175	1119.298	823.932	571.058	516.534	466.962	434.184	435.831
120.5	1447.822	1363.716	1127.505	833.707	582.190	527.566	477.167	443.979	445.314
121.0	1453.942	1370.152	1135.818	843.895	593.014	538.286	487.269	453.978	455.006
121.5	1460.168	1376.903	1143.820	853.771	604.353	548.904	497.371	465.832	464.696
122.0	1465.257	1383.444	1152.029	863.961	615.589	559.626	507.888	479.338	474.592
122.5	1471.587	1388.744	1159.926	873.840	626.619	570.244	517.990	490.881	484.591
123.0	1477.812	1395.495	1168.030	883.716	637.754	581.173	528.300	498.511	494.487
123.5	1484.037	1401.826	1176.242	893.492	648.990	591.790	538.608	507.686	504.692
124.0	1489.232	1407.441	1184.447	903.267	659.917	602.614	549.022	519.645	518.404
124.5	1495.457	1413.877	1192.341	913.249	671.155	613.543	559.330	529.747	536.240
125.0	1500.862	1420.523	1200.553	923.125	682.082	623.954	569.844	536.551	547.679
125.5	1505.951	1426.033	1208.656	933.006	693.317	634.778	580.155	543.769	553.042
126.0	1512.071	1432.574	1216.247	942.470	704.244	645.498	590.566	553.353	554.897
126.5	1517.160	1438.294	1224.345	952.143	715.171	656.015	600.771	563.251	563.556
127.0	1522.565	1444.835	1232.969	961.815	726.306	666.941	611.080	573.253	573.452
127.5	1527.865	1450.346	1240.352	971.178	737.336	677.559	621.493	583.149	583.453
128.0	1532.954	1455.961	1247.524	980.952	748.159	688.486	632.010	593.148	593.659
128.5	1538.253	1462.502	1256.043	990.624	759.398	699.414	642.006	603.252	603.658
129.0	1543.553	1468.117	1263.426	1000.090	770.530	710.032	652.832	613.558	613.863
129.5	1543.488	1473.627	1270.809	1009.659	781.560	720.753	663.450	623.559	624.068
130.0	1548.893	1479.138	1279.328	1019.229	792.487	731.473	673.964	633.558	634.275
130.5	1552.131	1484.648	1286.606	1028.901	803.416	742.402	684.481	643.557	644.583
131.0	1557.220	1489.022	1293.989	1038.262	814.549	753.123	694.684	653.661	654.686
131.5	1558.502	1493.817	1301.372	1047.728	825.785	763.740	705.097	663.969	664.893
132.0	1566.578	1498.296	1308.755	1057.092	836.815	774.358	715.818	674.174	675.407
132.5	1571.983	1502.670	1316.138	1066.455	848.053	785.183	726.229	684.380	685.608
133.0	1574.295	1506.434	1323.521	1075.612	859.186	795.801	737.053	694.381	695.820
133.5	1579.384	1509.883	1330.904	1085.076	870.011	806.627	747.464	705.926	706.025
134.0	1586.746	1516.529	1338.181	1094.647	880.938	817.450	758.187	716.028	716.541
134.5	1588.953	1521.008	1344.533	1104.008	891.968	827.965	768.804	726.338	726.641
135.0	1594.147	1527.655	1351.916	1113.580	902.998	838.995	779.213	736.750	737.469
135.5	1600.583	1530.998	1359.299	1121.910	914.030	849.818	789.938	747.266	747.466
136.0	1602.685	1535.582	1366.367	1131.482	924.957	860.644	800.350	757.263	757.983
136.5	1609.941	1540.167	1372.929	1140.737	935.780	871.053	810.864	767.677	767.977
137.0	1610.086	1545.572	1379.176	1150.204	946.812	881.980	821.481	777.884	778.910
137.5	1616.101	1551.187	1386.664	1158.744	957.535	892.913	831.687	788.085	789.219
138.0	1618.308	1554.636	1390.639	1167.895	968.352	903.421	842.091	798.288	798.891
138.5	1624.639	1561.282	1396.065	1176.330	978.765	914.038	852.713	809.116	809.930

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139.0	1628.192	1563.805	1403.448	1185.691	989.486	924.347	863.125	819.321	820.446
139.5	1631.114	1568.179	1408.664	1193.916	1000.314	935.173	873.538	829.734	830.860
140.0	1634.352	1572.868	1415.122	1202.246	1010.932	945.481	883.640	839.940	841.170
140.5	1639.757	1577.558	1418.381	1211.502	1021.654	956.203	894.363	850.662	852.305
141.0	1642.890	1582.037	1423.703	1219.727	1032.583	966.617	904.980	861.589	863.232
141.5	1647.159	1583.635	1431.086	1228.983	1043.407	977.131	915.391	872.310	873.849
142.0	1649.576	1589.355	1436.302	1237.313	1053.715	987.646	925.801	883.030	884.570
142.5	1652.814	1593.835	1442.759	1245.538	1064.023	997.954	936.109	893.235	895.290
143.0	1657.904	1597.178	1447.975	1253.973	1074.332	1008.468	946.417	903.544	905.908
143.5	1662.278	1599.701	1453.296	1262.409	1085.671	1019.189	957.138	914.470	916.631
144.0	1660.361	1603.360	1459.648	1270.844	1096.084	1029.703	967.444	925.189	927.349
144.5	1665.977	1608.050	1464.970	1279.174	1106.497	1039.599	977.960	935.806	938.070
145.0	1671.171	1611.603	1469.260	1286.684	1116.806	1049.908	988.269	946.114	949.205
145.5	1671.422	1615.157	1476.643	1295.119	1127.114	1060.321	998.575	956.732	959.513
146.0	1674.555	1617.469	1480.828	1302.629	1136.497	1070.629	1008.677	967.040	970.130
146.5	1680.275	1622.159	1486.255	1307.972	1146.805	1080.937	1018.882	977.552	980.748
147.0	1682.588	1624.472	1491.471	1315.377	1157.113	1091.246	1029.499	987.962	991.466
147.5	1686.962	1629.267	1495.867	1320.825	1166.496	1101.764	1039.705	998.476	1001.774
148.0	1687.002	1629.728	1501.188	1327.199	1176.804	1111.967	1050.013	1008.990	1012.598
148.5	1687.358	1632.251	1504.447	1335.634	1186.187	1121.245	1060.426	1019.505	1023.115
149.0	1690.491	1636.941	1509.769	1343.039	1196.600	1130.627	1070.629	1029.811	1033.833
149.5	1692.088	1635.340	1513.028	1348.487	1205.878	1141.041	1080.937	1039.810	1044.143
150.0	1693.054	1639.820	1518.350	1357.028	1215.155	1151.349	1091.246	1050.118	1055.483
150.5	1696.397	1642.342	1524.807	1363.507	1224.432	1160.732	1101.554	1061.457	1065.791
151.0	1696.543	1644.865	1526.110	1371.016	1233.815	1170.009	1110.937	1071.660	1077.025
151.5	1699.991	1645.432	1532.463	1377.390	1243.198	1180.318	1121.245	1082.073	1087.438
152.0	1700.242	1647.029	1534.796	1384.900	1252.580	1189.700	1131.553	1092.276	1098.672
152.5	1699.357	1649.552	1539.192	1390.348	1261.858	1198.977	1141.966	1102.585	1109.085
153.0	1699.607	1650.013	1543.588	1397.858	1270.210	1208.360	1151.139	1111.862	1119.394
153.5	1702.950	1652.641	1546.848	1404.337	1275.469	1217.638	1161.552	1123.201	1129.702
154.0	1701.140	1654.239	1549.182	1411.847	1285.777	1228.051	1170.830	1133.404	1141.146
154.5	1703.452	1654.805	1551.305	1417.295	1292.993	1236.298	1181.138	1143.712	1151.560
155.0	1705.659	1656.297	1555.490	1422.744	1299.283	1245.786	1190.521	1152.990	1161.763
155.5	1704.984	1655.938	1558.434	1429.328	1306.604	1254.958	1200.829	1163.298	1172.176
156.0	1702.037	1657.536	1560.347	1434.671	1315.882	1264.446	1210.211	1173.606	1182.379
156.5	1704.350	1659.238	1562.471	1441.255	1323.203	1269.600	1219.489	1183.809	1191.657
157.0	1705.421	1658.669	1565.625	1446.808	1331.554	1278.982	1228.766	1193.087	1202.070
157.5	1700.685	1659.340	1567.749	1451.120	1338.770	1287.229	1239.180	1203.395	1212.378
158.0	1700.997	1656.920	1570.188	1456.569	1346.091	1295.476	1248.457	1213.703	1222.687
158.5	1698.239	1657.591	1571.597	1461.091	1354.338	1301.766	1256.704	1222.981	1231.964
159.0	1695.398	1658.263	1574.036	1466.540	1361.659	1310.012	1262.889	1232.258	1242.272
159.5	1698.131	1658.830	1575.445	1472.093	1367.844	1319.290	1275.364	1242.566	1251.550
160.0	1694.763	1658.260	1576.958	1476.510	1376.196	1326.611	1280.518	1251.844	1261.858
160.5	1692.342	1657.585	1579.503	1480.002	1382.486	1334.963	1289.900	1261.121	1271.240
161.0	1693.203	1657.731	1581.017	1484.525	1387.640	1342.178	1297.116	1268.337	1281.443
161.5	1691.203	1653.964	1583.456	1488.942	1395.887	1350.425	1303.406	1277.614	1289.690
162.0	1689.835	1652.363	1580.952	1493.465	1401.041	1357.746	1312.684	1286.892	1293.603
162.5	1685.962	1649.837	1584.527	1494.895	1409.392	1366.098	1319.900	1294.107	1302.670
163.0	1684.867	1651.540	1584.084	1500.448	1414.652	1374.344	1330.313	1301.323	1310.601
163.5	1682.950	1648.193	1584.672	1502.804	1421.868	1380.635	1337.529	1310.601	1319.773
164.0	1683.517	1648.150	1586.186	1506.296	1427.022	1386.820	1344.745	1318.847	1327.914
164.5	1680.171	1644.909	1585.744	1508.652	1433.312	1394.035	1354.127	1328.230	1339.043
165.0	1676.929	1644.760	1586.332	1512.143	1439.497	1402.282	1362.374	1335.446	1347.289
165.5	1671.627	1639.458	1585.994	1515.530	1445.787	1407.541	1368.559	1342.661	1354.505
166.0	1671.583	1637.458	1585.446	1519.022	1450.941	1413.726	1375.880	1351.939	1364.603
166.5	1669.268	1635.353	1586.140	1522.514	1455.064	1421.047	1384.021	1360.185	1373.880

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-840U-L50-840D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1666.742	1633.248	1584.772	1521.987	1460.324	1426.201	1392.373	1367.506	1382.127
167.5	1662.260	1629.292	1584.434	1524.554	1464.552	1432.386	1397.527	1376.889	1389.342
168.0	1655.106	1626.261	1584.097	1527.120	1469.706	1438.677	1405.879	1385.136	1397.694
168.5	1654.032	1623.841	1583.759	1529.791	1474.861	1444.861	1414.231	1393.487	1405.836
169.0	1647.803	1620.284	1581.360	1528.234	1480.120	1451.046	1419.280	1399.672	1412.946
169.5	1644.668	1616.433	1581.023	1531.726	1483.107	1455.170	1427.526	1408.950	1419.026
170.0	1641.532	1612.477	1579.655	1532.336	1486.200	1461.460	1433.816	1415.135	1427.272
170.5	1638.501	1610.688	1576.330	1533.976	1489.397	1466.614	1439.076	1422.456	1434.593
171.0	1632.168	1606.942	1577.129	1534.692	1491.459	1471.768	1444.335	1429.671	1440.884
171.5	1627.181	1603.196	1572.668	1535.407	1496.718	1474.966	1450.625	1437.098	1449.130
172.0	1624.466	1598.525	1572.541	1537.047	1500.947	1480.120	1456.810	1441.221	1455.105
172.5	1619.584	1593.959	1569.216	1536.732	1503.934	1485.274	1462.995	1449.468	1463.246
173.0	1612.746	1590.214	1566.102	1536.521	1506.101	1490.428	1469.180	1455.652	1467.264
173.5	1609.106	1585.542	1565.155	1538.372	1508.057	1492.490	1474.334	1460.807	1474.585
174.0	1605.255	1581.902	1561.010	1538.162	1509.088	1497.644	1478.458	1467.097	1481.696
174.5	1599.237	1575.274	1558.107	1537.951	1512.286	1502.798	1483.506	1473.282	1484.788
175.0	1593.219	1570.708	1555.203	1535.784	1515.378	1505.890	1487.630	1478.331	1490.868
175.5	1587.307	1566.353	1552.404	1537.846	1517.335	1507.847	1492.889	1483.590	1494.991
176.0	1585.728	1562.103	1549.711	1537.741	1519.502	1512.075	1497.938	1488.849	1503.343
176.5	1577.144	1556.002	1547.123	1536.815	1520.427	1514.137	1504.228	1494.109	1506.541
177.0	1572.684	1552.172	1542.684	1536.815	1520.638	1517.229	1505.259	1499.158	1511.695
177.5	1566.056	1546.387	1541.443	1534.754	1522.594	1518.260	1510.413	1503.281	1514.682
178.0	1559.849	1542.873	1539.276	1534.754	1523.625	1521.353	1513.400	1509.571	1523.034
178.5	1553.243	1536.478	1536.184	1533.723	1523.625	1524.445	1516.493	1513.589	1528.083
179.0	1548.804	1534.311	1532.060	1533.723	1524.656	1525.476	1521.752	1517.712	1530.144
179.5	1544.576	1530.293	1529.999	1531.661	1524.656	1527.538	1523.814	1520.910	1538.496
180.0	1528.547	1528.547	1528.547	1528.547	1528.547	1528.547	1528.547	1528.547	1528.547

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-840U-L50-840D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	567.51	N.A.	5.50
0-30	1205.54	N.A.	11.70
0-40	1977.52	N.A.	19.20
0-60	3581.73	N.A.	34.70
0-80	4797.00	N.A.	46.50
0-90	5178.74	N.A.	50.20
10-90	5032.14	N.A.	48.80
20-40	1410.01	N.A.	13.70
20-50	2228.55	N.A.	21.60
40-70	2287.25	N.A.	22.20
60-80	1215.27	N.A.	11.80
70-80	532.24	N.A.	5.20
80-90	381.74	N.A.	3.70
90-110	910.55	N.A.	8.80
90-120	1588.77	N.A.	15.40
90-130	2368.89	N.A.	23.00
90-150	3946.2	N.A.	38.20
90-180	5138.35	N.A.	49.80
110-180	4227.8	N.A.	41.00
0-180	10317.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.60
10-20	420.91
20-30	638.03
30-40	771.98
40-50	818.55
50-60	785.67
60-70	683.03
70-80	532.24
80-90	381.74
90-100	381.19
100-110	529.36
110-120	678.22
120-130	780.12
130-140	812.29
140-150	765.02
150-160	631.22
160-170	415.96
170-180	144.96

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-840U-L50-840D-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-L50-840U-L50-840D-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

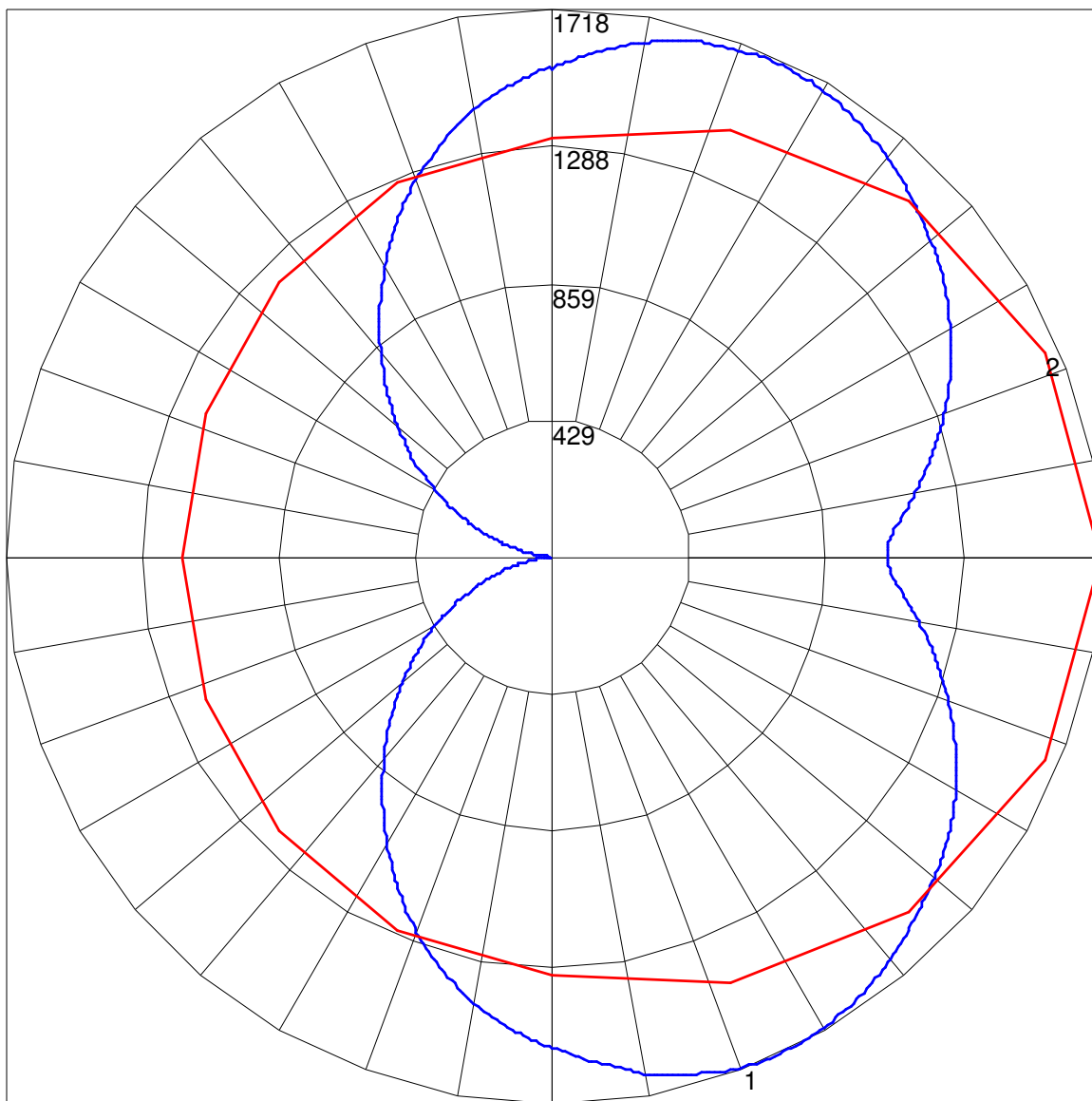
X=2H	Y=2H	21.9	22.8	22.8	23.8	25.0	15.9	16.8	16.8	17.8	19.0
	3H	25.0	25.8	25.9	26.8	28.1	17.2	18.1	18.2	19.0	20.3
	4H	26.6	27.3	27.5	28.3	29.6	17.7	18.5	18.6	19.4	20.7
	6H	28.3	29.0	29.2	30.0	31.3	17.9	18.6	18.9	19.6	20.9
	8H	29.2	29.9	30.1	30.9	32.2	18.0	18.7	18.9	19.7	21.0
	12H	30.2	30.8	31.2	31.8	33.2	18.0	18.6	19.0	19.6	21.0

UGR Viewed Endwise

4H	2H	22.2	22.9	23.1	23.9	25.2	17.1	17.9	18.1	18.9	20.2
	3H	25.5	26.1	26.5	27.1	28.5	18.8	19.4	19.8	20.4	21.8
	4H	27.2	27.9	28.2	28.9	30.2	19.3	20.0	20.3	21.0	22.3
	6H	29.1	29.7	30.2	30.7	32.0	19.7	20.3	20.7	21.3	22.6
	8H	30.2	30.6	31.2	31.7	33.0	19.8	20.3	20.8	21.3	22.7
	12H	31.3	31.7	32.3	32.8	34.1	19.9	20.3	20.9	21.4	22.7
8H	4H	27.4	27.9	28.4	28.9	30.2	20.5	21.0	21.5	22.0	23.3
	6H	29.4	29.9	30.5	30.9	32.3	21.1	21.5	22.1	22.6	23.9
	8H	30.6	31.0	31.6	32.0	33.4	21.3	21.7	22.3	22.7	24.1
	12H	31.9	32.2	32.9	33.3	34.7	21.4	21.8	22.5	22.8	24.2
12H	4H	27.3	27.8	28.4	28.8	30.2	20.8	21.3	21.8	22.3	23.6
	6H	29.5	29.8	30.5	30.9	32.3	21.6	22.0	22.7	23.0	24.4
	8H	30.7	31.0	31.7	32.0	33.4	21.9	22.3	23.0	23.3	24.7

Maximum UGR = 34.7

POLAR GRAPH



Maximum Candela = 1717.793 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.)