



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 4792073931.03  
 [TESTLAB] UL, LLC  
 [ISSUE DATE] 1/6/2026  
 [TEST DATE] 12/31/2025  
 [MANUFAC] H E Williams Inc  
 [LUMCAT] CMH-4-L50/835U/L50/835D-DMA-WHT-NL-DIM-UNV (UP & DOWN)  
 [LUMINAIRE] 4' wall mounted fixture with both up and down lighting compartments  
 [LAMP] (4) 56 LED boards - 224 Total LED  
 [BALLAST] Edoled OTI50/120-277/1A4 DIM-1 L G2 #57452  
 [OTHER] 24.7 C, 120.116 V, 0.710736 A, 84.0475 W, 0.9845 PF, 59.9994 H  
 [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                | 10016               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 119                 |
| Total Luminaire Watts           | 84.0475             |
| 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                 | 0.52 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45               | 9100          | 9439           | 16940          |
| 55               | 7986          | 8035           | 14872          |
| 65               | 7117          | 6796           | 12448          |
| 75               | 6373          | 5698           | 9094           |
| 85               | 5755          | 4846           | 4437           |

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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  | 1508.824   | 1508.824    | 1508.824    | 1508.824    | 1508.824    | 1508.824     | 1508.824     | 1508.824     | 1508.824     |
| 0.5  | 1512.897   | 1513.915    | 1509.842    | 1513.915    | 1503.734    | 1509.842     | 1502.716     | 1505.770     | 1505.770     |
| 1.0  | 1520.023   | 1519.005    | 1513.915    | 1515.951    | 1504.752    | 1507.806     | 1501.698     | 1500.679     | 1502.716     |
| 1.5  | 1524.096   | 1524.096    | 1517.987    | 1516.969    | 1502.716    | 1506.788     | 1496.607     | 1497.625     | 1497.625     |
| 2.0  | 1529.186   | 1530.204    | 1521.041    | 1519.005    | 1502.716    | 1503.734     | 1492.535     | 1492.535     | 1494.571     |
| 2.5  | 1533.259   | 1534.277    | 1524.096    | 1520.023    | 1502.716    | 1501.698     | 1490.498     | 1488.462     | 1490.498     |
| 3.0  | 1541.403   | 1539.367    | 1529.186    | 1523.078    | 1500.679    | 1498.643     | 1485.408     | 1484.390     | 1484.390     |
| 3.5  | 1547.512   | 1544.458    | 1533.259    | 1522.060    | 1499.661    | 1495.589     | 1481.336     | 1480.317     | 1480.317     |
| 4.0  | 1551.584   | 1549.548    | 1535.295    | 1525.114    | 1497.625    | 1493.553     | 1478.281     | 1475.227     | 1477.263     |
| 4.5  | 1558.711   | 1553.621    | 1539.367    | 1524.096    | 1496.607    | 1490.498     | 1474.209     | 1471.155     | 1471.155     |
| 5.0  | 1563.802   | 1559.729    | 1543.440    | 1525.114    | 1492.535    | 1484.390     | 1469.118     | 1465.046     | 1464.028     |
| 5.5  | 1567.874   | 1563.802    | 1545.476    | 1526.132    | 1492.535    | 1481.336     | 1466.064     | 1459.955     | 1459.955     |
| 6.0  | 1575.001   | 1568.892    | 1548.530    | 1526.132    | 1490.498    | 1478.281     | 1460.974     | 1454.865     | 1453.847     |
| 6.5  | 1578.055   | 1571.946    | 1549.548    | 1525.114    | 1488.462    | 1474.209     | 1455.883     | 1449.774     | 1447.738     |
| 7.0  | 1584.164   | 1576.019    | 1553.621    | 1525.114    | 1483.372    | 1469.118     | 1450.793     | 1443.666     | 1440.612     |
| 7.5  | 1590.272   | 1582.127    | 1556.675    | 1526.132    | 1481.336    | 1466.064     | 1445.702     | 1438.575     | 1436.539     |
| 8.0  | 1594.345   | 1586.200    | 1557.693    | 1527.150    | 1478.281    | 1460.974     | 1440.612     | 1432.467     | 1428.394     |
| 8.5  | 1599.435   | 1589.254    | 1558.711    | 1525.114    | 1475.227    | 1456.901     | 1434.503     | 1426.358     | 1419.231     |
| 9.0  | 1604.526   | 1592.308    | 1561.765    | 1525.114    | 1471.155    | 1451.811     | 1428.394     | 1419.231     | 1413.123     |
| 9.5  | 1608.598   | 1595.363    | 1564.820    | 1524.096    | 1468.100    | 1446.720     | 1423.304     | 1413.123     | 1408.032     |
| 10.0 | 1613.689   | 1598.417    | 1564.820    | 1522.060    | 1466.064    | 1442.648     | 1417.195     | 1405.996     | 1398.869     |
| 10.5 | 1617.761   | 1603.508    | 1565.838    | 1519.005    | 1460.974    | 1436.539     | 1412.105     | 1400.906     | 1391.743     |
| 11.0 | 1622.851   | 1604.526    | 1567.874    | 1517.987    | 1456.901    | 1432.467     | 1403.960     | 1391.743     | 1384.616     |
| 11.5 | 1626.924   | 1608.598    | 1566.856    | 1516.969    | 1452.829    | 1425.340     | 1397.851     | 1384.616     | 1376.471     |
| 12.0 | 1628.960   | 1610.634    | 1567.874    | 1514.933    | 1447.738    | 1420.250     | 1390.725     | 1377.489     | 1366.290     |
| 12.5 | 1633.032   | 1611.652    | 1567.874    | 1512.897    | 1442.648    | 1414.141     | 1384.616     | 1371.381     | 1361.200     |
| 13.0 | 1636.087   | 1616.743    | 1570.928    | 1510.860    | 1437.557    | 1409.050     | 1377.489     | 1362.218     | 1350.001     |
| 13.5 | 1640.159   | 1617.761    | 1569.910    | 1509.842    | 1432.467    | 1400.906     | 1372.399     | 1355.091     | 1344.910     |
| 14.0 | 1641.177   | 1618.779    | 1570.928    | 1505.770    | 1427.376    | 1394.797     | 1363.236     | 1347.964     | 1334.729     |
| 14.5 | 1646.268   | 1620.815    | 1569.910    | 1502.716    | 1423.304    | 1387.670     | 1356.109     | 1338.802     | 1325.566     |
| 15.0 | 1650.340   | 1621.833    | 1569.910    | 1500.679    | 1418.213    | 1382.580     | 1348.983     | 1328.621     | 1317.421     |
| 15.5 | 1652.376   | 1623.870    | 1568.892    | 1497.625    | 1411.087    | 1375.453     | 1341.856     | 1322.512     | 1307.240     |
| 16.0 | 1653.394   | 1624.888    | 1568.892    | 1493.553    | 1404.978    | 1369.345     | 1332.693     | 1313.349     | 1297.059     |
| 16.5 | 1654.413   | 1626.924    | 1566.856    | 1491.517    | 1397.851    | 1363.236     | 1326.584     | 1304.186     | 1286.878     |
| 17.0 | 1659.503   | 1627.942    | 1566.856    | 1486.426    | 1392.761    | 1356.109     | 1317.421     | 1294.005     | 1277.716     |
| 17.5 | 1659.503   | 1628.960    | 1565.838    | 1481.336    | 1387.670    | 1347.964     | 1308.259     | 1285.860     | 1271.607     |
| 18.0 | 1662.557   | 1629.978    | 1565.838    | 1478.281    | 1380.544    | 1340.838     | 1300.114     | 1278.734     | 1263.462     |
| 18.5 | 1664.594   | 1630.996    | 1563.802    | 1475.227    | 1374.435    | 1334.729     | 1291.969     | 1270.589     | 1256.335     |
| 19.0 | 1664.594   | 1629.978    | 1560.747    | 1470.136    | 1366.290    | 1324.548     | 1284.842     | 1262.444     | 1247.173     |
| 19.5 | 1666.630   | 1630.996    | 1559.729    | 1467.082    | 1360.182    | 1317.421     | 1275.679     | 1253.281     | 1236.992     |
| 20.0 | 1668.666   | 1629.978    | 1557.693    | 1461.992    | 1353.055    | 1310.295     | 1269.571     | 1245.136     | 1226.811     |
| 20.5 | 1670.702   | 1630.996    | 1556.675    | 1454.865    | 1345.928    | 1301.132     | 1261.426     | 1238.010     | 1216.630     |
| 21.0 | 1670.702   | 1629.978    | 1553.621    | 1450.793    | 1338.802    | 1294.005     | 1252.263     | 1228.847     | 1206.449     |
| 21.5 | 1669.684   | 1629.978    | 1550.566    | 1445.702    | 1330.657    | 1284.842     | 1247.173     | 1218.666     | 1196.268     |
| 22.0 | 1671.720   | 1628.960    | 1548.530    | 1440.612    | 1323.530    | 1277.716     | 1238.010     | 1209.503     | 1186.087     |
| 22.5 | 1671.720   | 1628.960    | 1547.512    | 1434.503    | 1315.385    | 1266.516     | 1228.847     | 1199.322     | 1175.906     |
| 23.0 | 1672.738   | 1627.942    | 1543.440    | 1429.412    | 1307.240    | 1261.426     | 1219.684     | 1189.141     | 1165.725     |
| 23.5 | 1670.702   | 1627.942    | 1540.385    | 1424.322    | 1299.096    | 1254.299     | 1210.521     | 1179.978     | 1155.544     |
| 24.0 | 1670.702   | 1624.888    | 1537.331    | 1417.195    | 1290.951    | 1247.173     | 1201.358     | 1169.797     | 1144.344     |
| 24.5 | 1669.684   | 1625.906    | 1533.259    | 1411.087    | 1281.788    | 1238.010     | 1191.177     | 1159.616     | 1134.163     |
| 25.0 | 1668.666   | 1623.870    | 1531.222    | 1405.996    | 1274.661    | 1229.865     | 1182.014     | 1149.435     | 1123.982     |
| 25.5 | 1670.702   | 1621.833    | 1528.168    | 1398.869    | 1267.535    | 1219.684     | 1171.833     | 1139.254     | 1112.783     |
| 26.0 | 1667.648   | 1619.797    | 1526.132    | 1392.761    | 1260.408    | 1210.521     | 1161.652     | 1129.073     | 1102.602     |
| 26.5 | 1666.630   | 1617.761    | 1519.005    | 1385.634    | 1254.299    | 1201.358     | 1152.489     | 1118.892     | 1091.403     |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.0 | 1666.630 | 1615.725 | 1515.951 | 1379.526 | 1246.154 | 1192.195 | 1142.308 | 1107.693 | 1081.222 |
| 27.5 | 1664.594 | 1612.670 | 1510.860 | 1372.399 | 1236.992 | 1183.032 | 1132.127 | 1097.512 | 1071.041 |
| 28.0 | 1659.503 | 1612.670 | 1507.806 | 1366.290 | 1227.829 | 1172.851 | 1121.946 | 1087.331 | 1059.842 |
| 28.5 | 1660.521 | 1609.616 | 1502.716 | 1358.145 | 1218.666 | 1163.688 | 1111.765 | 1076.132 | 1048.643 |
| 29.0 | 1657.467 | 1605.544 | 1499.661 | 1351.019 | 1208.485 | 1153.507 | 1101.584 | 1065.951 | 1038.462 |
| 29.5 | 1656.449 | 1604.526 | 1493.553 | 1343.892 | 1199.322 | 1144.344 | 1091.403 | 1054.752 | 1028.281 |
| 30.0 | 1655.431 | 1601.471 | 1490.498 | 1336.765 | 1190.159 | 1134.163 | 1081.222 | 1044.571 | 1017.286 |
| 30.5 | 1652.376 | 1598.417 | 1485.408 | 1329.639 | 1180.996 | 1125.001 | 1071.041 | 1033.372 | 1006.494 |
| 31.0 | 1649.322 | 1597.399 | 1480.317 | 1321.494 | 1170.815 | 1114.820 | 1059.842 | 1023.191 | 995.702  |
| 31.5 | 1647.286 | 1593.327 | 1475.227 | 1313.349 | 1161.652 | 1104.639 | 1049.661 | 1012.602 | 984.706  |
| 32.0 | 1646.268 | 1591.290 | 1470.136 | 1306.222 | 1151.471 | 1094.458 | 1039.480 | 1002.014 | 973.914  |
| 32.5 | 1643.213 | 1587.218 | 1464.028 | 1298.078 | 1141.290 | 1084.277 | 1029.299 | 991.324  | 963.530  |
| 33.0 | 1642.195 | 1584.164 | 1458.937 | 1289.933 | 1131.109 | 1074.096 | 1019.118 | 980.838  | 952.942  |
| 33.5 | 1640.159 | 1581.109 | 1455.883 | 1282.806 | 1120.928 | 1063.915 | 1008.326 | 970.046  | 941.743  |
| 34.0 | 1637.105 | 1577.037 | 1448.756 | 1273.643 | 1110.747 | 1053.734 | 997.840  | 959.559  | 930.849  |
| 34.5 | 1636.087 | 1573.983 | 1443.666 | 1268.553 | 1100.566 | 1043.553 | 987.659  | 948.971  | 919.650  |
| 35.0 | 1630.996 | 1569.910 | 1438.575 | 1258.372 | 1090.385 | 1032.353 | 976.867  | 938.179  | 909.469  |
| 35.5 | 1628.960 | 1564.820 | 1432.467 | 1256.335 | 1080.204 | 1023.191 | 966.177  | 927.591  | 898.473  |
| 36.0 | 1624.888 | 1560.747 | 1426.358 | 1248.191 | 1070.023 | 1012.399 | 955.996  | 916.901  | 887.681  |
| 36.5 | 1622.851 | 1558.711 | 1421.268 | 1240.046 | 1059.842 | 1001.810 | 945.204  | 906.313  | 877.195  |
| 37.0 | 1618.779 | 1553.621 | 1414.141 | 1231.901 | 1048.643 | 991.120  | 935.023  | 895.826  | 866.403  |
| 37.5 | 1614.707 | 1550.566 | 1408.032 | 1222.738 | 1038.462 | 980.838  | 924.333  | 885.034  | 855.815  |
| 38.0 | 1610.634 | 1545.476 | 1401.924 | 1213.575 | 1028.281 | 970.453  | 913.643  | 874.446  | 844.921  |
| 38.5 | 1608.598 | 1540.385 | 1395.815 | 1205.430 | 1017.286 | 959.865  | 903.258  | 863.858  | 834.537  |
| 39.0 | 1604.526 | 1538.349 | 1388.688 | 1197.286 | 1006.595 | 949.175  | 892.568  | 853.473  | 824.254  |
| 39.5 | 1602.489 | 1532.241 | 1382.580 | 1188.123 | 996.007  | 938.485  | 882.387  | 842.681  | 813.666  |
| 40.0 | 1596.381 | 1528.168 | 1376.471 | 1178.960 | 985.623  | 928.202  | 871.697  | 832.297  | 803.586  |
| 40.5 | 1594.345 | 1525.114 | 1370.363 | 1169.797 | 974.831  | 918.021  | 861.313  | 821.709  | 792.896  |
| 41.0 | 1589.254 | 1520.023 | 1364.254 | 1160.634 | 963.937  | 907.331  | 850.724  | 811.222  | 782.613  |
| 41.5 | 1584.164 | 1514.933 | 1357.127 | 1151.471 | 953.043  | 896.641  | 840.340  | 800.837  | 772.331  |
| 42.0 | 1580.091 | 1509.842 | 1351.019 | 1142.308 | 942.252  | 885.849  | 829.955  | 790.351  | 761.844  |
| 42.5 | 1578.055 | 1504.752 | 1344.910 | 1133.145 | 931.562  | 875.261  | 819.571  | 779.966  | 751.358  |
| 43.0 | 1571.946 | 1500.679 | 1336.765 | 1123.982 | 920.668  | 865.181  | 808.880  | 769.785  | 741.279  |
| 43.5 | 1567.874 | 1495.589 | 1329.639 | 1114.820 | 909.571  | 854.899  | 798.496  | 759.095  | 730.283  |
| 44.0 | 1563.802 | 1488.462 | 1324.548 | 1105.657 | 898.779  | 843.598  | 788.111  | 748.914  | 720.204  |
| 44.5 | 1559.729 | 1485.408 | 1316.403 | 1096.494 | 887.681  | 832.704  | 777.828  | 738.632  | 710.125  |
| 45.0 | 1555.657 | 1479.299 | 1309.277 | 1087.331 | 876.991  | 822.014  | 767.444  | 728.247  | 700.147  |
| 45.5 | 1550.566 | 1474.209 | 1304.186 | 1077.150 | 866.301  | 811.528  | 757.263  | 717.761  | 689.356  |
| 46.0 | 1548.530 | 1469.118 | 1296.041 | 1067.987 | 855.306  | 800.837  | 746.980  | 707.580  | 679.378  |
| 46.5 | 1539.367 | 1464.028 | 1288.915 | 1058.824 | 844.209  | 789.944  | 736.595  | 697.093  | 668.994  |
| 47.0 | 1536.313 | 1457.919 | 1280.770 | 1049.661 | 833.213  | 778.948  | 726.109  | 687.014  | 658.711  |
| 47.5 | 1532.241 | 1453.847 | 1273.643 | 1040.498 | 822.319  | 767.851  | 715.826  | 676.731  | 648.733  |
| 48.0 | 1530.204 | 1447.738 | 1269.571 | 1031.335 | 811.833  | 757.568  | 705.034  | 666.550  | 638.654  |
| 48.5 | 1524.096 | 1442.648 | 1261.426 | 1021.154 | 800.634  | 746.980  | 694.955  | 656.471  | 628.575  |
| 49.0 | 1520.023 | 1436.539 | 1257.354 | 1012.093 | 789.537  | 735.985  | 684.570  | 646.188  | 618.598  |
| 49.5 | 1513.915 | 1431.449 | 1247.173 | 1002.727 | 778.643  | 725.091  | 674.186  | 636.414  | 608.620  |
| 50.0 | 1507.806 | 1425.340 | 1243.100 | 992.953  | 767.749  | 714.299  | 663.801  | 625.928  | 598.643  |
| 50.5 | 1504.752 | 1419.231 | 1234.955 | 983.077  | 756.754  | 703.711  | 653.417  | 615.951  | 588.665  |
| 51.0 | 1499.661 | 1415.159 | 1227.829 | 973.609  | 745.860  | 693.428  | 643.337  | 605.973  | 579.095  |
| 51.5 | 1494.571 | 1407.014 | 1219.684 | 964.039  | 734.966  | 682.432  | 633.055  | 596.098  | 569.322  |
| 52.0 | 1486.426 | 1401.924 | 1212.557 | 954.367  | 723.869  | 671.742  | 622.772  | 586.426  | 559.446  |
| 52.5 | 1485.408 | 1396.833 | 1204.412 | 944.695  | 712.874  | 660.849  | 612.591  | 576.245  | 549.774  |
| 53.0 | 1479.299 | 1389.707 | 1197.286 | 934.616  | 701.776  | 650.260  | 602.003  | 566.369  | 539.898  |
| 53.5 | 1473.191 | 1384.616 | 1189.141 | 924.842  | 690.679  | 639.774  | 591.822  | 556.697  | 529.921  |
| 54.0 | 1467.082 | 1379.526 | 1180.996 | 915.068  | 679.582  | 628.982  | 581.742  | 546.720  | 520.758  |
| 54.5 | 1463.010 | 1373.417 | 1172.851 | 905.498  | 668.586  | 618.190  | 571.460  | 537.150  | 510.679  |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |         |         |         |         |         |         |
|------|----------|----------|----------|---------|---------|---------|---------|---------|---------|
| 55.0 | 1455.883 | 1367.308 | 1164.706 | 895.419 | 657.794 | 607.602 | 561.177 | 527.172 | 500.905 |
| 55.5 | 1451.811 | 1361.200 | 1156.562 | 885.645 | 646.595 | 597.116 | 550.996 | 517.398 | 491.437 |
| 56.0 | 1445.702 | 1355.091 | 1149.435 | 875.566 | 635.600 | 586.527 | 540.917 | 507.726 | 481.460 |
| 56.5 | 1441.630 | 1347.964 | 1140.272 | 865.792 | 624.706 | 575.837 | 530.634 | 497.851 | 472.195 |
| 57.0 | 1433.485 | 1339.820 | 1133.145 | 856.120 | 613.711 | 565.147 | 520.656 | 488.383 | 462.625 |
| 57.5 | 1430.431 | 1335.747 | 1125.001 | 846.347 | 603.122 | 554.763 | 510.577 | 478.507 | 452.749 |
| 58.0 | 1424.322 | 1327.602 | 1115.838 | 836.369 | 592.127 | 544.073 | 500.396 | 468.733 | 443.688 |
| 58.5 | 1421.268 | 1321.494 | 1107.693 | 826.392 | 581.131 | 533.892 | 490.419 | 459.265 | 434.118 |
| 59.0 | 1413.123 | 1315.385 | 1099.548 | 816.720 | 570.238 | 523.405 | 480.441 | 449.593 | 424.650 |
| 59.5 | 1407.014 | 1308.259 | 1091.403 | 806.946 | 559.039 | 512.715 | 470.464 | 440.125 | 415.588 |
| 60.0 | 1400.906 | 1302.150 | 1083.258 | 797.172 | 548.247 | 502.432 | 460.487 | 430.453 | 405.916 |
| 60.5 | 1394.797 | 1295.023 | 1075.114 | 786.890 | 537.455 | 491.844 | 450.611 | 420.781 | 396.652 |
| 61.0 | 1386.652 | 1287.897 | 1066.969 | 776.709 | 526.561 | 481.969 | 440.837 | 411.414 | 387.489 |
| 61.5 | 1381.562 | 1282.806 | 1057.806 | 766.426 | 515.668 | 471.380 | 430.860 | 401.742 | 378.428 |
| 62.0 | 1376.471 | 1274.661 | 1049.661 | 756.550 | 504.672 | 460.792 | 420.883 | 392.478 | 369.061 |
| 62.5 | 1371.381 | 1268.553 | 1041.516 | 746.471 | 493.982 | 450.509 | 411.007 | 383.111 | 359.491 |
| 63.0 | 1363.236 | 1266.516 | 1032.353 | 736.494 | 483.190 | 440.125 | 401.030 | 373.643 | 350.634 |
| 63.5 | 1356.109 | 1260.408 | 1023.191 | 726.211 | 472.297 | 430.045 | 391.256 | 364.378 | 341.573 |
| 64.0 | 1352.037 | 1253.281 | 1014.944 | 716.030 | 461.403 | 419.864 | 381.482 | 354.910 | 332.511 |
| 64.5 | 1343.892 | 1246.154 | 1006.494 | 706.154 | 450.611 | 408.971 | 371.301 | 345.645 | 323.450 |
| 65.0 | 1338.802 | 1239.028 | 997.534  | 696.177 | 440.023 | 398.892 | 361.527 | 336.278 | 313.880 |
| 65.5 | 1331.675 | 1231.901 | 988.982  | 686.199 | 429.536 | 388.507 | 351.855 | 326.810 | 305.328 |
| 66.0 | 1322.512 | 1223.756 | 980.227  | 675.917 | 418.541 | 378.326 | 342.285 | 317.851 | 296.471 |
| 66.5 | 1318.440 | 1216.630 | 971.064  | 665.837 | 408.054 | 368.145 | 332.715 | 308.688 | 287.613 |
| 67.0 | 1310.295 | 1209.503 | 962.308  | 655.555 | 397.059 | 357.760 | 323.145 | 299.423 | 278.654 |
| 67.5 | 1302.150 | 1201.358 | 953.451  | 646.086 | 386.369 | 347.376 | 313.473 | 290.159 | 269.389 |
| 68.0 | 1298.078 | 1194.231 | 944.491  | 635.905 | 375.781 | 337.500 | 304.005 | 280.792 | 261.041 |
| 68.5 | 1287.897 | 1186.087 | 935.634  | 625.622 | 365.294 | 327.319 | 294.638 | 272.036 | 252.591 |
| 69.0 | 1281.788 | 1178.960 | 926.675  | 615.238 | 354.706 | 317.444 | 285.068 | 263.077 | 243.631 |
| 69.5 | 1273.643 | 1170.815 | 917.919  | 605.362 | 344.016 | 307.364 | 275.905 | 254.423 | 235.487 |
| 70.0 | 1267.535 | 1162.670 | 909.163  | 595.487 | 333.326 | 297.285 | 266.437 | 245.668 | 226.629 |
| 70.5 | 1264.480 | 1155.544 | 900.408  | 585.611 | 322.534 | 287.206 | 256.867 | 236.708 | 218.484 |
| 71.0 | 1259.390 | 1147.399 | 891.448  | 575.532 | 312.149 | 277.229 | 247.806 | 228.054 | 210.238 |
| 71.5 | 1252.263 | 1140.272 | 882.387  | 565.147 | 301.968 | 267.658 | 238.541 | 219.401 | 201.686 |
| 72.0 | 1244.118 | 1132.127 | 873.530  | 555.272 | 291.482 | 257.783 | 229.785 | 211.052 | 193.643 |
| 72.5 | 1236.992 | 1123.982 | 865.080  | 545.498 | 281.097 | 248.009 | 220.826 | 202.398 | 185.192 |
| 73.0 | 1229.865 | 1116.856 | 856.018  | 535.622 | 271.731 | 238.439 | 211.663 | 193.643 | 177.149 |
| 73.5 | 1221.720 | 1108.711 | 847.263  | 525.747 | 261.448 | 228.767 | 203.009 | 185.701 | 169.310 |
| 74.0 | 1214.593 | 1100.566 | 838.609  | 515.769 | 251.267 | 219.502 | 194.152 | 177.658 | 161.165 |
| 74.5 | 1206.449 | 1093.439 | 829.955  | 506.199 | 241.086 | 209.932 | 185.803 | 169.514 | 153.937 |
| 75.0 | 1199.322 | 1085.295 | 821.403  | 496.833 | 230.905 | 200.566 | 177.353 | 161.776 | 145.996 |
| 75.5 | 1192.195 | 1078.168 | 812.749  | 487.364 | 221.335 | 191.403 | 168.903 | 153.835 | 138.563 |
| 76.0 | 1184.050 | 1070.023 | 804.197  | 477.998 | 211.459 | 182.647 | 160.860 | 146.199 | 131.029 |
| 76.5 | 1176.924 | 1062.896 | 795.645  | 468.835 | 201.991 | 173.586 | 152.715 | 138.767 | 123.699 |
| 77.0 | 1168.779 | 1054.752 | 786.890  | 459.570 | 192.625 | 164.729 | 144.774 | 131.233 | 116.776 |
| 77.5 | 1160.634 | 1046.607 | 778.337  | 450.713 | 183.258 | 155.973 | 136.833 | 123.903 | 109.548 |
| 78.0 | 1153.507 | 1039.480 | 769.989  | 441.957 | 174.299 | 147.625 | 129.197 | 116.674 | 102.523 |
| 78.5 | 1145.363 | 1031.335 | 761.742  | 433.202 | 165.136 | 139.378 | 121.459 | 109.548 | 96.007  |
| 79.0 | 1138.236 | 1024.209 | 753.598  | 424.446 | 156.380 | 131.335 | 114.231 | 102.624 | 89.186  |
| 79.5 | 1130.091 | 1016.471 | 745.453  | 416.097 | 147.625 | 123.496 | 107.002 | 95.600  | 82.670  |
| 80.0 | 1121.946 | 1008.835 | 738.021  | 407.749 | 139.276 | 115.656 | 99.876  | 88.982  | 76.052  |
| 80.5 | 1114.820 | 1001.403 | 730.385  | 399.808 | 130.928 | 108.224 | 92.851  | 82.364  | 69.638  |
| 81.0 | 1107.693 | 993.971  | 723.055  | 391.765 | 122.986 | 100.996 | 85.928  | 75.848  | 63.835  |
| 81.5 | 1100.566 | 986.437  | 715.623  | 383.824 | 114.943 | 93.971  | 79.208  | 69.536  | 57.624  |
| 82.0 | 1092.421 | 978.801  | 707.783  | 376.086 | 107.206 | 87.048  | 72.591  | 63.326  | 51.923  |
| 82.5 | 1085.295 | 971.369  | 700.555  | 368.450 | 99.774  | 80.328  | 66.177  | 57.319  | 46.222  |

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |         |         |         |         |         |         |         |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|
| 83.0  | 1078.168 | 964.446  | 693.122 | 361.120 | 92.443  | 73.710  | 59.864  | 51.516  | 40.622  |
| 83.5  | 1071.041 | 957.319  | 685.996 | 353.892 | 85.317  | 67.296  | 53.654  | 45.611  | 35.430  |
| 84.0  | 1064.933 | 950.295  | 678.767 | 346.867 | 78.394  | 61.188  | 47.851  | 40.113  | 30.238  |
| 84.5  | 1057.806 | 943.473  | 671.844 | 339.842 | 71.572  | 55.079  | 42.048  | 34.717  | 25.554  |
| 85.0  | 1050.679 | 936.754  | 664.616 | 333.122 | 65.057  | 49.072  | 36.550  | 29.627  | 21.380  |
| 85.5  | 1044.571 | 929.933  | 658.202 | 326.810 | 58.744  | 43.269  | 31.052  | 24.842  | 18.020  |
| 86.0  | 1037.444 | 923.009  | 651.686 | 320.396 | 52.534  | 37.670  | 25.860  | 20.769  | 15.577  |
| 86.5  | 1030.317 | 916.392  | 645.272 | 313.982 | 46.629  | 32.070  | 21.176  | 17.613  | 13.846  |
| 87.0  | 1024.209 | 910.283  | 638.858 | 307.975 | 40.622  | 26.776  | 17.410  | 15.272  | 12.726  |
| 87.5  | 1017.795 | 904.887  | 632.444 | 301.765 | 34.717  | 21.380  | 14.762  | 13.643  | 12.014  |
| 88.0  | 1012.704 | 901.120  | 626.946 | 295.860 | 28.812  | 16.799  | 13.133  | 12.624  | 11.505  |
| 88.5  | 1009.548 | 898.677  | 622.772 | 289.955 | 22.907  | 13.846  | 12.217  | 11.912  | 11.097  |
| 89.0  | 1007.715 | 897.659  | 620.532 | 284.355 | 16.799  | 12.523  | 11.810  | 11.505  | 11.097  |
| 89.5  | 1006.799 | 897.455  | 620.023 | 280.588 | 12.930  | 12.115  | 11.606  | 11.403  | 10.995  |
| 90.0  | 1006.799 | 897.862  | 620.532 | 280.079 | 12.115  | 12.115  | 11.505  | 11.301  | 10.894  |
| 90.5  | 1003.541 | 898.677  | 623.484 | 286.595 | 15.781  | 11.606  | 11.606  | 11.403  | 10.486  |
| 91.0  | 1005.577 | 901.629  | 627.150 | 291.686 | 19.344  | 11.708  | 11.708  | 11.505  | 10.588  |
| 91.5  | 1008.632 | 905.498  | 632.342 | 297.285 | 24.943  | 11.810  | 11.912  | 11.606  | 10.588  |
| 92.0  | 1012.297 | 910.792  | 638.145 | 303.190 | 30.950  | 13.032  | 11.912  | 11.708  | 10.690  |
| 92.5  | 1017.286 | 916.799  | 644.356 | 309.095 | 36.957  | 15.882  | 12.115  | 11.708  | 10.792  |
| 93.0  | 1023.191 | 923.519  | 650.464 | 315.102 | 42.760  | 20.464  | 12.726  | 11.810  | 10.894  |
| 93.5  | 1030.317 | 930.136  | 657.184 | 321.312 | 48.767  | 26.165  | 14.253  | 12.115  | 11.199  |
| 94.0  | 1037.444 | 936.754  | 663.699 | 327.523 | 54.774  | 31.867  | 17.206  | 12.930  | 11.912  |
| 94.5  | 1043.553 | 943.779  | 670.622 | 333.937 | 60.781  | 37.568  | 21.176  | 14.457  | 13.337  |
| 95.0  | 1050.679 | 950.702  | 677.546 | 340.656 | 67.093  | 43.473  | 26.165  | 17.206  | 16.290  |
| 95.5  | 1057.806 | 957.829  | 684.570 | 347.274 | 73.507  | 49.378  | 31.765  | 21.075  | 20.667  |
| 96.0  | 1064.933 | 965.159  | 691.494 | 354.095 | 80.124  | 55.486  | 37.262  | 25.758  | 25.758  |
| 96.5  | 1072.059 | 972.693  | 699.027 | 361.018 | 87.048  | 61.697  | 43.167  | 30.950  | 31.052  |
| 97.0  | 1079.186 | 980.227  | 706.460 | 368.349 | 94.276  | 68.009  | 49.072  | 36.550  | 36.448  |
| 97.5  | 1086.313 | 987.659  | 713.892 | 375.781 | 101.505 | 74.423  | 55.079  | 42.251  | 42.048  |
| 98.0  | 1094.458 | 995.295  | 721.731 | 383.518 | 109.039 | 81.143  | 61.188  | 48.054  | 47.953  |
| 98.5  | 1101.584 | 1003.134 | 729.163 | 391.256 | 116.674 | 88.066  | 67.500  | 53.959  | 53.959  |
| 99.0  | 1108.711 | 1010.566 | 736.799 | 398.993 | 124.615 | 95.091  | 74.118  | 60.068  | 59.966  |
| 99.5  | 1115.838 | 1018.100 | 744.435 | 407.240 | 132.760 | 102.421 | 80.735  | 66.278  | 66.177  |
| 100.0 | 1122.964 | 1026.245 | 752.172 | 415.385 | 141.210 | 109.751 | 87.658  | 72.692  | 72.489  |
| 100.5 | 1131.109 | 1033.372 | 760.012 | 423.631 | 149.966 | 117.489 | 94.683  | 79.310  | 79.005  |
| 101.0 | 1138.236 | 1041.516 | 768.055 | 432.082 | 158.722 | 125.430 | 101.810 | 86.029  | 85.520  |
| 101.5 | 1145.363 | 1049.661 | 775.894 | 440.736 | 167.579 | 133.371 | 109.039 | 92.851  | 92.138  |
| 102.0 | 1153.507 | 1056.788 | 784.141 | 449.288 | 176.437 | 141.720 | 116.471 | 99.672  | 99.163  |
| 102.5 | 1160.634 | 1064.933 | 792.591 | 457.941 | 185.803 | 150.373 | 124.106 | 106.697 | 106.188 |
| 103.0 | 1168.779 | 1072.059 | 801.143 | 467.104 | 195.475 | 159.027 | 131.946 | 114.027 | 113.213 |
| 103.5 | 1175.906 | 1080.204 | 809.695 | 476.165 | 205.045 | 167.783 | 139.887 | 121.358 | 120.441 |
| 104.0 | 1184.050 | 1088.349 | 818.349 | 485.532 | 214.717 | 178.473 | 147.930 | 128.891 | 127.670 |
| 104.5 | 1191.177 | 1095.476 | 827.104 | 494.695 | 224.389 | 188.959 | 156.177 | 136.731 | 135.305 |
| 105.0 | 1199.322 | 1103.620 | 835.656 | 504.265 | 234.163 | 195.577 | 164.220 | 144.061 | 142.839 |
| 105.5 | 1206.449 | 1111.765 | 844.412 | 513.530 | 244.344 | 204.231 | 172.772 | 151.799 | 150.475 |
| 106.0 | 1213.575 | 1118.892 | 853.168 | 523.100 | 254.423 | 214.514 | 181.120 | 159.638 | 158.518 |
| 106.5 | 1221.720 | 1127.037 | 861.923 | 532.568 | 264.502 | 226.934 | 189.876 | 167.579 | 166.561 |
| 107.0 | 1229.865 | 1134.163 | 870.781 | 542.036 | 274.989 | 234.977 | 198.530 | 175.826 | 174.604 |
| 107.5 | 1236.992 | 1142.308 | 879.333 | 551.708 | 285.068 | 242.206 | 206.878 | 184.072 | 182.749 |
| 108.0 | 1244.118 | 1149.435 | 887.783 | 561.482 | 295.147 | 251.878 | 215.837 | 192.319 | 190.792 |
| 108.5 | 1252.263 | 1157.580 | 896.335 | 571.358 | 305.837 | 261.652 | 224.593 | 200.769 | 199.446 |
| 109.0 | 1259.390 | 1164.706 | 904.887 | 580.928 | 316.527 | 271.629 | 233.756 | 209.321 | 207.998 |
| 109.5 | 1260.408 | 1172.851 | 913.847 | 590.905 | 326.810 | 281.708 | 243.020 | 217.975 | 216.448 |
| 110.0 | 1268.553 | 1179.978 | 922.500 | 600.679 | 337.195 | 291.380 | 252.285 | 226.833 | 225.102 |
| 110.5 | 1274.661 | 1188.123 | 931.256 | 610.453 | 347.681 | 301.459 | 261.448 | 235.792 | 234.061 |

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |         |         |         |         |         |
|-------|----------|----------|----------|----------|---------|---------|---------|---------|---------|
| 111.0 | 1281.788 | 1195.249 | 940.012  | 619.921  | 358.269 | 311.539 | 270.611 | 244.446 | 242.410 |
| 111.5 | 1287.897 | 1203.394 | 948.564  | 629.695  | 368.858 | 321.618 | 280.079 | 253.609 | 251.471 |
| 112.0 | 1296.041 | 1210.521 | 957.319  | 639.570  | 379.649 | 331.901 | 289.751 | 262.263 | 260.430 |
| 112.5 | 1303.168 | 1217.648 | 966.177  | 649.344  | 390.645 | 342.285 | 299.423 | 271.425 | 269.287 |
| 113.0 | 1311.313 | 1225.792 | 974.933  | 659.423  | 401.437 | 352.466 | 309.095 | 280.588 | 278.145 |
| 113.5 | 1318.440 | 1232.919 | 983.790  | 669.401  | 412.331 | 362.749 | 318.665 | 290.057 | 287.002 |
| 114.0 | 1324.548 | 1241.064 | 992.138  | 679.073  | 423.224 | 373.032 | 328.134 | 299.016 | 296.471 |
| 114.5 | 1332.693 | 1245.136 | 1000.792 | 689.152  | 433.914 | 383.620 | 338.009 | 308.281 | 305.430 |
| 115.0 | 1337.783 | 1252.263 | 1009.548 | 699.231  | 444.604 | 394.412 | 348.496 | 317.444 | 314.593 |
| 115.5 | 1345.928 | 1259.390 | 1018.100 | 709.310  | 455.600 | 404.898 | 361.731 | 327.014 | 323.552 |
| 116.0 | 1351.019 | 1266.516 | 1027.263 | 719.186  | 466.493 | 415.690 | 375.272 | 336.686 | 332.715 |
| 116.5 | 1359.164 | 1274.661 | 1035.408 | 728.960  | 477.387 | 426.278 | 385.045 | 346.256 | 342.082 |
| 117.0 | 1366.290 | 1278.734 | 1043.553 | 738.937  | 488.281 | 436.765 | 391.459 | 355.724 | 351.652 |
| 117.5 | 1371.381 | 1283.824 | 1052.715 | 748.711  | 499.174 | 447.353 | 401.233 | 365.192 | 361.120 |
| 118.0 | 1378.507 | 1290.951 | 1060.860 | 758.586  | 510.068 | 458.145 | 415.181 | 374.661 | 370.487 |
| 118.5 | 1385.634 | 1299.096 | 1069.005 | 768.666  | 520.962 | 468.631 | 426.482 | 384.231 | 380.057 |
| 119.0 | 1392.761 | 1304.186 | 1078.168 | 778.541  | 532.161 | 479.423 | 431.674 | 393.903 | 389.321 |
| 119.5 | 1398.869 | 1311.313 | 1086.313 | 788.417  | 543.360 | 490.113 | 438.292 | 403.473 | 398.892 |
| 120.0 | 1404.978 | 1319.458 | 1094.458 | 798.496  | 554.152 | 500.702 | 448.269 | 413.043 | 408.462 |
| 120.5 | 1411.087 | 1325.566 | 1102.602 | 808.270  | 565.249 | 511.392 | 458.349 | 422.715 | 418.337 |
| 121.0 | 1417.195 | 1331.675 | 1110.747 | 817.840  | 576.143 | 522.082 | 468.326 | 432.387 | 427.806 |
| 121.5 | 1422.286 | 1337.783 | 1118.892 | 827.715  | 587.240 | 532.772 | 478.609 | 441.957 | 437.783 |
| 122.0 | 1430.431 | 1345.928 | 1127.037 | 837.489  | 598.439 | 543.360 | 488.790 | 452.851 | 447.251 |
| 122.5 | 1435.521 | 1352.037 | 1135.182 | 847.365  | 609.435 | 554.152 | 499.073 | 466.697 | 456.923 |
| 123.0 | 1440.612 | 1359.164 | 1143.326 | 857.138  | 620.430 | 564.842 | 509.254 | 480.849 | 466.901 |
| 123.5 | 1447.738 | 1364.254 | 1151.471 | 866.607  | 631.527 | 575.430 | 519.333 | 492.251 | 476.573 |
| 124.0 | 1453.847 | 1370.363 | 1158.598 | 876.482  | 642.421 | 586.120 | 529.717 | 501.211 | 486.448 |
| 124.5 | 1460.974 | 1378.507 | 1166.743 | 886.663  | 653.518 | 596.810 | 540.000 | 510.883 | 497.851 |
| 125.0 | 1464.028 | 1382.580 | 1174.887 | 896.030  | 664.616 | 607.602 | 550.487 | 520.758 | 514.751 |
| 125.5 | 1469.118 | 1389.707 | 1183.032 | 905.702  | 675.815 | 618.394 | 560.973 | 527.478 | 534.197 |
| 126.0 | 1476.245 | 1394.797 | 1191.177 | 915.374  | 686.708 | 629.288 | 571.154 | 532.365 | 547.636 |
| 126.5 | 1482.354 | 1401.924 | 1198.304 | 924.944  | 697.399 | 639.978 | 581.437 | 540.713 | 547.738 |
| 127.0 | 1486.426 | 1408.032 | 1206.449 | 934.819  | 708.496 | 650.668 | 591.720 | 550.385 | 547.738 |
| 127.5 | 1494.571 | 1414.141 | 1214.593 | 944.390  | 719.389 | 661.460 | 602.206 | 560.362 | 555.170 |
| 128.0 | 1499.661 | 1419.231 | 1221.720 | 954.062  | 730.283 | 672.251 | 612.489 | 570.238 | 564.740 |
| 128.5 | 1503.734 | 1425.340 | 1229.865 | 963.530  | 741.380 | 683.043 | 623.179 | 580.419 | 574.514 |
| 129.0 | 1509.842 | 1431.449 | 1236.992 | 973.202  | 752.172 | 693.733 | 633.462 | 590.498 | 584.898 |
| 129.5 | 1513.915 | 1437.557 | 1245.136 | 982.976  | 763.371 | 704.525 | 643.745 | 600.475 | 595.487 |
| 130.0 | 1519.005 | 1443.666 | 1251.245 | 992.648  | 774.163 | 715.215 | 654.129 | 610.555 | 605.362 |
| 130.5 | 1526.132 | 1449.774 | 1260.408 | 1001.810 | 785.261 | 725.905 | 664.412 | 620.532 | 615.951 |
| 131.0 | 1529.186 | 1453.847 | 1264.480 | 1011.482 | 796.052 | 736.901 | 675.102 | 630.713 | 625.724 |
| 131.5 | 1534.277 | 1458.937 | 1270.589 | 1021.154 | 807.252 | 747.794 | 685.487 | 640.792 | 635.702 |
| 132.0 | 1539.367 | 1465.046 | 1278.734 | 1030.317 | 818.145 | 758.586 | 695.973 | 651.279 | 646.290 |
| 132.5 | 1543.440 | 1470.136 | 1284.842 | 1039.480 | 829.039 | 768.971 | 706.154 | 661.154 | 656.471 |
| 133.0 | 1550.566 | 1477.263 | 1289.933 | 1048.643 | 840.238 | 780.068 | 716.946 | 671.233 | 666.957 |
| 133.5 | 1555.657 | 1482.354 | 1297.059 | 1057.806 | 851.132 | 790.555 | 727.229 | 681.414 | 677.240 |
| 134.0 | 1557.693 | 1487.444 | 1304.186 | 1066.969 | 862.229 | 801.448 | 738.123 | 691.697 | 687.421 |
| 134.5 | 1562.784 | 1490.498 | 1311.313 | 1077.150 | 873.123 | 812.240 | 748.813 | 702.082 | 697.602 |
| 135.0 | 1567.874 | 1496.607 | 1318.440 | 1086.313 | 883.813 | 823.032 | 759.503 | 712.466 | 707.885 |
| 135.5 | 1571.946 | 1501.698 | 1325.566 | 1095.476 | 895.012 | 833.620 | 770.294 | 722.851 | 718.880 |
| 136.0 | 1575.001 | 1505.770 | 1331.675 | 1104.639 | 905.905 | 844.209 | 780.883 | 733.032 | 729.061 |
| 136.5 | 1584.164 | 1510.860 | 1338.802 | 1113.801 | 916.392 | 855.102 | 791.471 | 743.213 | 739.548 |
| 137.0 | 1586.200 | 1517.987 | 1344.910 | 1122.964 | 927.184 | 866.199 | 802.263 | 753.598 | 750.136 |
| 137.5 | 1589.254 | 1521.041 | 1352.037 | 1132.127 | 937.670 | 876.381 | 812.342 | 763.982 | 759.401 |
| 138.0 | 1593.327 | 1527.150 | 1358.145 | 1141.290 | 948.666 | 886.969 | 823.337 | 774.367 | 769.785 |
| 138.5 | 1597.399 | 1531.222 | 1365.272 | 1150.453 | 959.661 | 897.862 | 834.028 | 785.057 | 780.781 |

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 139.0 | 1601.471 | 1536.313 | 1372.399 | 1159.616 | 970.351  | 908.654  | 844.718  | 795.645  | 791.267  |
| 139.5 | 1607.580 | 1542.422 | 1378.507 | 1167.761 | 981.143  | 919.141  | 855.204  | 806.030  | 802.161  |
| 140.0 | 1610.634 | 1545.476 | 1385.634 | 1176.924 | 991.528  | 929.729  | 865.487  | 816.720  | 812.138  |
| 140.5 | 1614.707 | 1549.548 | 1391.743 | 1186.087 | 1002.218 | 940.419  | 876.075  | 827.104  | 822.523  |
| 141.0 | 1617.761 | 1554.639 | 1399.888 | 1194.231 | 1012.806 | 950.905  | 886.663  | 837.591  | 833.213  |
| 141.5 | 1619.797 | 1558.711 | 1403.960 | 1203.394 | 1023.191 | 962.003  | 897.353  | 848.485  | 844.005  |
| 142.0 | 1624.888 | 1563.802 | 1411.087 | 1211.539 | 1034.390 | 972.387  | 907.942  | 858.971  | 854.593  |
| 142.5 | 1628.960 | 1566.856 | 1415.159 | 1220.702 | 1044.571 | 982.772  | 918.123  | 869.763  | 865.080  |
| 143.0 | 1630.996 | 1570.928 | 1421.268 | 1228.847 | 1054.752 | 993.055  | 928.507  | 879.944  | 875.668  |
| 143.5 | 1636.087 | 1575.001 | 1426.358 | 1236.992 | 1064.933 | 1003.338 | 939.095  | 890.939  | 886.154  |
| 144.0 | 1641.177 | 1579.073 | 1433.485 | 1244.118 | 1075.114 | 1013.519 | 949.786  | 901.935  | 897.048  |
| 144.5 | 1643.213 | 1582.127 | 1438.575 | 1251.245 | 1086.313 | 1024.209 | 960.476  | 912.625  | 907.738  |
| 145.0 | 1643.213 | 1586.200 | 1442.648 | 1259.390 | 1096.494 | 1034.390 | 970.758  | 923.722  | 918.428  |
| 145.5 | 1650.340 | 1589.254 | 1449.774 | 1267.535 | 1106.675 | 1043.553 | 981.143  | 934.310  | 929.322  |
| 146.0 | 1650.340 | 1592.308 | 1454.865 | 1275.679 | 1115.838 | 1053.734 | 991.528  | 944.797  | 940.012  |
| 146.5 | 1654.413 | 1593.327 | 1459.955 | 1282.806 | 1126.019 | 1063.915 | 1002.014 | 955.487  | 950.193  |
| 147.0 | 1658.485 | 1598.417 | 1464.028 | 1287.897 | 1136.200 | 1074.096 | 1012.399 | 966.075  | 960.883  |
| 147.5 | 1659.503 | 1601.471 | 1470.136 | 1296.041 | 1146.381 | 1084.277 | 1023.191 | 977.172  | 971.471  |
| 148.0 | 1663.575 | 1604.526 | 1475.227 | 1304.186 | 1155.544 | 1094.458 | 1033.372 | 988.168  | 982.467  |
| 148.5 | 1665.612 | 1606.562 | 1480.317 | 1310.295 | 1165.725 | 1103.620 | 1043.553 | 999.163  | 993.564  |
| 149.0 | 1667.648 | 1610.634 | 1483.372 | 1319.458 | 1175.906 | 1113.801 | 1053.734 | 1009.955 | 1003.948 |
| 149.5 | 1667.648 | 1612.670 | 1489.480 | 1326.584 | 1185.068 | 1123.982 | 1063.915 | 1020.136 | 1014.435 |
| 150.0 | 1671.720 | 1614.707 | 1493.553 | 1333.711 | 1195.249 | 1133.145 | 1074.096 | 1031.335 | 1025.227 |
| 150.5 | 1673.756 | 1617.761 | 1495.589 | 1342.874 | 1203.394 | 1143.326 | 1084.277 | 1041.516 | 1036.426 |
| 151.0 | 1672.738 | 1617.761 | 1501.698 | 1347.964 | 1213.575 | 1152.489 | 1094.458 | 1052.715 | 1046.607 |
| 151.5 | 1676.811 | 1621.833 | 1505.770 | 1355.091 | 1222.738 | 1162.670 | 1103.620 | 1063.915 | 1057.806 |
| 152.0 | 1676.811 | 1621.833 | 1508.824 | 1362.218 | 1231.901 | 1171.833 | 1113.801 | 1074.096 | 1069.005 |
| 152.5 | 1677.829 | 1624.888 | 1512.897 | 1369.345 | 1240.046 | 1180.996 | 1123.982 | 1084.277 | 1079.186 |
| 153.0 | 1679.865 | 1624.888 | 1515.951 | 1375.453 | 1249.209 | 1190.159 | 1134.163 | 1095.476 | 1090.385 |
| 153.5 | 1679.865 | 1625.906 | 1519.005 | 1382.580 | 1255.317 | 1200.340 | 1143.326 | 1105.657 | 1100.566 |
| 154.0 | 1682.919 | 1628.960 | 1523.078 | 1389.707 | 1263.462 | 1209.503 | 1153.507 | 1115.838 | 1111.765 |
| 154.5 | 1680.883 | 1630.996 | 1526.132 | 1393.779 | 1268.553 | 1218.666 | 1162.670 | 1127.037 | 1122.964 |
| 155.0 | 1682.919 | 1632.014 | 1531.222 | 1398.869 | 1276.697 | 1227.829 | 1171.833 | 1137.218 | 1133.145 |
| 155.5 | 1682.919 | 1632.014 | 1533.259 | 1405.996 | 1285.860 | 1236.992 | 1182.014 | 1148.417 | 1144.344 |
| 156.0 | 1682.919 | 1632.014 | 1536.313 | 1412.105 | 1294.005 | 1245.136 | 1191.177 | 1157.580 | 1154.525 |
| 156.5 | 1683.937 | 1632.014 | 1538.349 | 1417.195 | 1301.132 | 1254.299 | 1200.340 | 1167.761 | 1164.706 |
| 157.0 | 1680.883 | 1634.051 | 1540.385 | 1422.286 | 1309.277 | 1260.408 | 1209.503 | 1177.942 | 1175.906 |
| 157.5 | 1682.919 | 1635.069 | 1544.458 | 1429.412 | 1317.421 | 1268.553 | 1218.666 | 1189.141 | 1186.087 |
| 158.0 | 1681.901 | 1636.087 | 1548.530 | 1432.467 | 1324.548 | 1276.697 | 1227.829 | 1199.322 | 1197.286 |
| 158.5 | 1680.883 | 1636.087 | 1550.566 | 1439.593 | 1333.711 | 1280.770 | 1236.992 | 1209.503 | 1207.467 |
| 159.0 | 1682.919 | 1635.069 | 1551.584 | 1443.666 | 1338.802 | 1289.933 | 1245.136 | 1218.666 | 1217.648 |
| 159.5 | 1681.901 | 1634.051 | 1554.639 | 1449.774 | 1346.946 | 1299.096 | 1251.245 | 1228.847 | 1227.829 |
| 160.0 | 1681.901 | 1635.069 | 1555.657 | 1454.865 | 1354.073 | 1307.240 | 1260.408 | 1238.010 | 1239.028 |
| 160.5 | 1680.883 | 1634.051 | 1556.675 | 1456.901 | 1363.236 | 1315.385 | 1267.535 | 1245.136 | 1249.209 |
| 161.0 | 1680.883 | 1635.069 | 1557.693 | 1464.028 | 1367.308 | 1322.512 | 1276.697 | 1254.299 | 1259.390 |
| 161.5 | 1678.847 | 1632.014 | 1560.747 | 1468.100 | 1373.417 | 1330.657 | 1282.806 | 1263.462 | 1269.571 |
| 162.0 | 1677.829 | 1629.978 | 1562.784 | 1472.173 | 1380.544 | 1336.765 | 1290.951 | 1272.625 | 1273.643 |
| 162.5 | 1674.775 | 1630.996 | 1561.765 | 1473.191 | 1386.652 | 1345.928 | 1300.114 | 1279.752 | 1284.842 |
| 163.0 | 1674.775 | 1628.960 | 1562.784 | 1478.281 | 1393.779 | 1353.055 | 1309.277 | 1288.915 | 1292.987 |
| 163.5 | 1670.702 | 1628.960 | 1563.802 | 1481.336 | 1398.869 | 1360.182 | 1316.403 | 1298.078 | 1302.150 |
| 164.0 | 1669.684 | 1626.924 | 1563.802 | 1485.408 | 1405.996 | 1367.308 | 1322.512 | 1307.240 | 1311.313 |
| 164.5 | 1666.630 | 1623.870 | 1564.820 | 1488.462 | 1412.105 | 1373.417 | 1332.693 | 1315.385 | 1320.476 |
| 165.0 | 1666.630 | 1621.833 | 1564.820 | 1492.535 | 1415.159 | 1380.544 | 1338.802 | 1323.530 | 1329.639 |
| 165.5 | 1663.575 | 1619.797 | 1564.820 | 1493.553 | 1422.286 | 1388.688 | 1347.964 | 1330.657 | 1338.802 |
| 166.0 | 1661.539 | 1618.779 | 1562.784 | 1496.607 | 1428.394 | 1393.779 | 1355.091 | 1338.802 | 1350.001 |
| 166.5 | 1658.485 | 1616.743 | 1562.784 | 1499.661 | 1431.449 | 1400.906 | 1362.218 | 1345.928 | 1360.182 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 167.0 | 1657.467 | 1613.689 | 1562.784 | 1500.679 | 1438.575 | 1408.032 | 1369.345 | 1359.164 | 1367.308 |
| 167.5 | 1653.394 | 1610.634 | 1562.784 | 1502.716 | 1441.630 | 1412.105 | 1376.471 | 1364.254 | 1375.453 |
| 168.0 | 1648.304 | 1607.580 | 1563.802 | 1506.788 | 1446.720 | 1418.213 | 1383.598 | 1372.399 | 1383.598 |
| 168.5 | 1646.268 | 1606.562 | 1559.729 | 1506.788 | 1451.811 | 1424.322 | 1391.743 | 1380.544 | 1391.743 |
| 169.0 | 1641.177 | 1602.489 | 1558.711 | 1508.824 | 1454.865 | 1429.412 | 1396.833 | 1387.670 | 1399.888 |
| 169.5 | 1638.123 | 1598.417 | 1556.675 | 1509.842 | 1457.919 | 1434.503 | 1404.978 | 1393.779 | 1409.050 |
| 170.0 | 1634.051 | 1595.363 | 1555.657 | 1510.860 | 1461.992 | 1440.612 | 1410.069 | 1401.924 | 1415.159 |
| 170.5 | 1627.942 | 1591.290 | 1555.657 | 1511.879 | 1467.082 | 1446.720 | 1417.195 | 1408.032 | 1424.322 |
| 171.0 | 1623.870 | 1589.254 | 1553.621 | 1513.915 | 1469.118 | 1450.793 | 1422.286 | 1416.177 | 1429.412 |
| 171.5 | 1617.761 | 1584.164 | 1552.603 | 1514.933 | 1472.173 | 1457.919 | 1428.394 | 1422.286 | 1437.557 |
| 172.0 | 1615.725 | 1579.073 | 1548.530 | 1515.951 | 1476.245 | 1460.974 | 1434.503 | 1430.431 | 1442.648 |
| 172.5 | 1610.634 | 1577.037 | 1546.494 | 1519.005 | 1479.299 | 1466.064 | 1440.612 | 1435.521 | 1449.774 |
| 173.0 | 1607.580 | 1570.928 | 1544.458 | 1516.969 | 1482.354 | 1469.118 | 1445.702 | 1442.648 | 1455.883 |
| 173.5 | 1600.453 | 1566.856 | 1540.385 | 1516.969 | 1484.390 | 1474.209 | 1452.829 | 1448.756 | 1463.010 |
| 174.0 | 1594.345 | 1562.784 | 1537.331 | 1519.005 | 1487.444 | 1478.281 | 1455.883 | 1454.865 | 1466.064 |
| 174.5 | 1590.272 | 1556.675 | 1536.313 | 1517.987 | 1488.462 | 1481.336 | 1461.992 | 1459.955 | 1473.191 |
| 175.0 | 1583.146 | 1552.603 | 1533.259 | 1521.041 | 1491.517 | 1485.408 | 1466.064 | 1466.064 | 1478.281 |
| 175.5 | 1577.037 | 1547.512 | 1528.168 | 1519.005 | 1492.535 | 1488.462 | 1470.136 | 1470.136 | 1483.372 |
| 176.0 | 1569.910 | 1541.403 | 1525.114 | 1520.023 | 1494.571 | 1491.517 | 1476.245 | 1475.227 | 1489.480 |
| 176.5 | 1565.838 | 1537.331 | 1525.114 | 1517.987 | 1495.589 | 1495.589 | 1480.317 | 1480.317 | 1495.589 |
| 177.0 | 1556.675 | 1533.259 | 1521.041 | 1516.969 | 1497.625 | 1497.625 | 1484.390 | 1483.372 | 1497.625 |
| 177.5 | 1550.566 | 1528.168 | 1519.005 | 1517.987 | 1497.625 | 1500.679 | 1486.426 | 1489.480 | 1501.698 |
| 178.0 | 1546.494 | 1525.114 | 1514.933 | 1515.951 | 1499.661 | 1503.734 | 1491.517 | 1494.571 | 1506.788 |
| 178.5 | 1542.422 | 1521.041 | 1511.879 | 1513.915 | 1500.679 | 1504.752 | 1495.589 | 1498.643 | 1510.860 |
| 179.0 | 1536.313 | 1515.951 | 1509.842 | 1512.897 | 1501.698 | 1508.824 | 1497.625 | 1501.698 | 1516.969 |
| 179.5 | 1531.222 | 1512.897 | 1506.788 | 1512.897 | 1500.679 | 1508.824 | 1500.679 | 1504.752 | 1521.041 |
| 180.0 | 1509.842 | 1509.842 | 1509.842 | 1509.842 | 1509.842 | 1509.842 | 1509.842 | 1509.842 | 1509.842 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 554.34  | N.A.  | 5.50   |
| 0-30    | 1175.91 | N.A.  | 11.70  |
| 0-40    | 1925.35 | N.A.  | 19.20  |
| 0-60    | 3473.26 | N.A.  | 34.70  |
| 0-80    | 4638.25 | N.A.  | 46.30  |
| 0-90    | 5004.64 | N.A.  | 50.00  |
| 10-90   | 4861.31 | N.A.  | 48.50  |
| 20-40   | 1371.02 | N.A.  | 13.70  |
| 20-50   | 2162.59 | N.A.  | 21.60  |
| 40-70   | 2203.47 | N.A.  | 22.00  |
| 60-80   | 1164.99 | N.A.  | 11.60  |
| 70-80   | 509.42  | N.A.  | 5.10   |
| 80-90   | 366.39  | N.A.  | 3.70   |
| 90-110  | 877.77  | N.A.  | 8.80   |
| 90-120  | 1533.62 | N.A.  | 15.30  |
| 90-130  | 2291.94 | N.A.  | 22.90  |
| 90-150  | 3836.11 | N.A.  | 38.30  |
| 90-180  | 5011.06 | N.A.  | 50.00  |
| 110-180 | 4133.29 | N.A.  | 41.30  |
| 0-180   | 10015.7 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 143.33 |
| 10-20   | 411.01 |
| 20-30   | 621.58 |
| 30-40   | 749.44 |
| 40-50   | 791.57 |
| 50-60   | 756.34 |
| 60-70   | 655.57 |
| 70-80   | 509.42 |
| 80-90   | 366.39 |
| 90-100  | 367.76 |
| 100-110 | 510.00 |
| 110-120 | 655.85 |
| 120-130 | 758.32 |
| 130-140 | 793.40 |
| 140-150 | 750.78 |
| 150-160 | 621.32 |
| 160-170 | 410.47 |
| 170-180 | 143.16 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.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 | 56 | 55 | 47 | 46 | 44 | 39 |
| 2  | 87  | 79  | 72  | 67  | 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  | 21  | 42 | 31 | 24 | 19 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 12 | 10 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.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 | 19.5 | 20.4 | 20.4 | 21.4 | 22.6 | 12.4 | 13.3 | 13.3 | 14.3 | 15.5 |
|      | 3H   | 22.5 | 23.4 | 23.5 | 24.3 | 25.6 | 13.6 | 14.4 | 14.5 | 15.4 | 16.7 |
|      | 4H   | 24.1 | 24.9 | 25.0 | 25.8 | 27.1 | 13.9 | 14.7 | 14.9 | 15.7 | 17.0 |
|      | 6H   | 25.7 | 26.4 | 26.7 | 27.4 | 28.7 | 14.1 | 14.8 | 15.1 | 15.8 | 17.1 |
|      | 8H   | 26.5 | 27.2 | 27.5 | 28.2 | 29.6 | 14.1 | 14.8 | 15.1 | 15.8 | 17.1 |
|      | 12H  | 27.5 | 28.1 | 28.4 | 29.1 | 30.4 | 14.1 | 14.8 | 15.1 | 15.8 | 17.1 |

### UGR Viewed Endwise

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 19.6 | 20.4 | 20.6 | 21.4 | 22.7 | 13.6 | 14.4 | 14.6 | 15.4 | 16.7 |
|    | 3H  | 22.8 | 23.5 | 23.8 | 24.5 | 25.8 | 15.1 | 15.7 | 16.1 | 16.7 | 18.1 |
|    | 4H  | 24.5 | 25.1 | 25.5 | 26.1 | 27.5 | 15.5 | 16.2 | 16.5 | 17.2 | 18.5 |
|    | 6H  | 26.3 | 26.8 | 27.3 | 27.9 | 29.2 | 15.8 | 16.4 | 16.8 | 17.4 | 18.7 |
|    | 8H  | 27.3 | 27.8 | 28.3 | 28.8 | 30.1 | 15.9 | 16.4 | 16.9 | 17.4 | 18.8 |
|    | 12H | 28.3 | 28.7 | 29.3 | 29.8 | 31.1 | 15.9 | 16.4 | 16.9 | 17.4 | 18.8 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 24.6 | 25.1 | 25.6 | 26.1 | 27.4 | 16.6 | 17.1 | 17.6 | 18.1 | 19.5 |
|    | 6H  | 26.5 | 26.9 | 27.5 | 28.0 | 29.3 | 17.1 | 17.5 | 18.1 | 18.6 | 19.9 |
|    | 8H  | 27.5 | 27.9 | 28.6 | 29.0 | 30.3 | 17.3 | 17.7 | 18.3 | 18.7 | 20.1 |
|    | 12H | 28.7 | 29.0 | 29.7 | 30.1 | 31.5 | 17.4 | 17.7 | 18.4 | 18.7 | 20.1 |

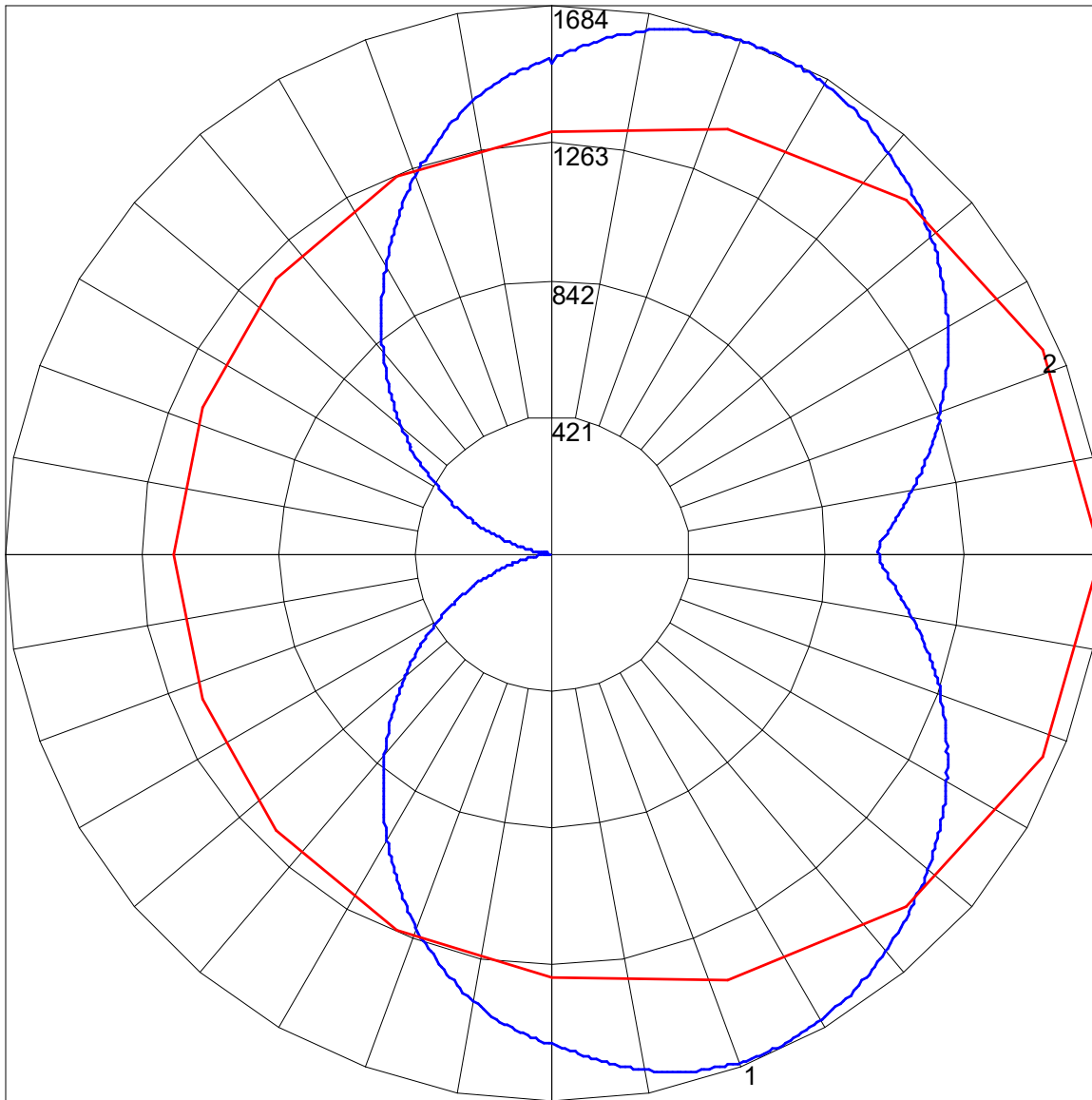
|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 24.5 | 25.0 | 25.5 | 26.0 | 27.4 | 16.9 | 17.4 | 18.0 | 18.4 | 19.8 |
|     | 6H | 26.5 | 26.8 | 27.5 | 27.9 | 29.3 | 17.6 | 18.0 | 18.6 | 19.0 | 20.4 |
|     | 8H | 27.6 | 27.9 | 28.6 | 28.9 | 30.3 | 17.9 | 18.2 | 18.9 | 19.2 | 20.6 |

Maximum UGR = 31.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-L50-835D-DMA-WHT-DIM-UNV BOTH ON\_.IES

## POLAR GRAPH



Maximum Candela = 1683.937 Located At Horizontal Angle = 0, Vertical Angle = 156.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (156.5) (Through Max. Cd.)