

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[OTHER] This test was performed using the calibrated photodetector

[MORE] method of absolute photometry.

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 8899            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 96              |
| Total Luminaire Watts           | 92.4            |
| 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     |
| Luminous Length (0-180)         | 4.00 ft         |
| Luminous Width (90-270)         | 0.33 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 11958            | 11659             | 11526             |
| 55                  | 10992            | 10726             | 10613             |
| 65                  | 10139            | 9894              | 9787              |
| 75                  | 8598             | 8593              | 8589              |
| 85                  | 6715             | 6985              | 7187              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_.IES****CANDELA TABULATION**

|             | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------------|------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>  | 1735.137   | 1735.137    | 1735.137    | 1735.137    | 1735.137    |
| <b>0.5</b>  | 1761.339   | 1736.593    | 1727.859    | 1731.498    | 1725.675    |
| <b>1.0</b>  | 1761.339   | 1735.865    | 1727.859    | 1731.498    | 1725.675    |
| <b>1.5</b>  | 1760.611   | 1735.137    | 1727.131    | 1731.498    | 1724.947    |
| <b>2.0</b>  | 1759.883   | 1734.409    | 1726.403    | 1730.770    | 1724.947    |
| <b>2.5</b>  | 1759.155   | 1733.681    | 1724.947    | 1730.042    | 1724.220    |
| <b>3.0</b>  | 1757.700   | 1732.226    | 1724.220    | 1729.314    | 1722.764    |
| <b>3.5</b>  | 1756.244   | 1730.770    | 1722.764    | 1727.859    | 1721.308    |
| <b>4.0</b>  | 1754.788   | 1729.314    | 1721.308    | 1726.403    | 1719.853    |
| <b>4.5</b>  | 1753.333   | 1727.131    | 1719.853    | 1724.947    | 1717.669    |
| <b>5.0</b>  | 1751.877   | 1725.675    | 1717.669    | 1722.764    | 1715.486    |
| <b>5.5</b>  | 1749.693   | 1723.492    | 1715.486    | 1720.580    | 1713.302    |
| <b>6.0</b>  | 1747.510   | 1720.580    | 1713.302    | 1718.397    | 1710.391    |
| <b>6.5</b>  | 1744.599   | 1718.397    | 1710.391    | 1715.486    | 1708.207    |
| <b>7.0</b>  | 1742.415   | 1715.486    | 1708.207    | 1712.574    | 1705.296    |
| <b>7.5</b>  | 1740.232   | 1712.574    | 1705.296    | 1709.663    | 1703.113    |
| <b>8.0</b>  | 1736.593   | 1709.663    | 1701.657    | 1706.752    | 1700.201    |
| <b>8.5</b>  | 1733.681   | 1706.024    | 1698.018    | 1703.113    | 1696.562    |
| <b>9.0</b>  | 1730.042   | 1703.113    | 1695.106    | 1699.473    | 1692.923    |
| <b>9.5</b>  | 1726.403   | 1699.473    | 1690.740    | 1695.106    | 1689.284    |
| <b>10.0</b> | 1722.764   | 1695.834    | 1687.100    | 1691.467    | 1684.917    |
| <b>10.5</b> | 1718.397   | 1691.467    | 1682.733    | 1687.100    | 1681.278    |
| <b>11.0</b> | 1714.758   | 1687.100    | 1678.366    | 1682.733    | 1676.183    |
| <b>11.5</b> | 1709.663   | 1682.733    | 1674.000    | 1678.366    | 1671.816    |
| <b>12.0</b> | 1705.296   | 1678.366    | 1669.633    | 1673.272    | 1666.721    |
| <b>12.5</b> | 1700.929   | 1673.272    | 1664.538    | 1668.177    | 1661.626    |
| <b>13.0</b> | 1695.834   | 1668.905    | 1659.443    | 1663.082    | 1656.532    |
| <b>13.5</b> | 1690.740   | 1663.082    | 1654.348    | 1657.260    | 1651.437    |
| <b>14.0</b> | 1685.645   | 1657.987    | 1648.526    | 1652.165    | 1646.342    |
| <b>14.5</b> | 1680.550   | 1652.893    | 1642.703    | 1646.342    | 1640.520    |
| <b>15.0</b> | 1675.455   | 1647.070    | 1636.880    | 1640.520    | 1634.697    |
| <b>15.5</b> | 1668.905   | 1641.975    | 1631.058    | 1633.969    | 1628.146    |
| <b>16.0</b> | 1661.626   | 1636.153    | 1624.507    | 1628.146    | 1622.324    |
| <b>16.5</b> | 1654.348   | 1629.602    | 1617.957    | 1621.596    | 1615.773    |
| <b>17.0</b> | 1647.798   | 1623.052    | 1611.406    | 1615.046    | 1609.223    |
| <b>17.5</b> | 1640.520   | 1615.773    | 1604.128    | 1607.767    | 1601.945    |
| <b>18.0</b> | 1633.241   | 1608.495    | 1596.850    | 1600.489    | 1594.667    |
| <b>18.5</b> | 1625.963   | 1601.217    | 1589.572    | 1592.483    | 1587.388    |
| <b>19.0</b> | 1618.685   | 1593.939    | 1583.021    | 1585.205    | 1578.654    |
| <b>19.5</b> | 1610.679   | 1586.660    | 1575.743    | 1576.471    | 1569.920    |
| <b>20.0</b> | 1603.400   | 1578.654    | 1569.193    | 1568.465    | 1561.187    |
| <b>20.5</b> | 1595.394   | 1571.376    | 1561.914    | 1559.731    | 1552.453    |
| <b>21.0</b> | 1587.388   | 1563.370    | 1553.908    | 1550.997    | 1542.991    |
| <b>21.5</b> | 1578.654   | 1555.364    | 1545.174    | 1542.263    | 1533.529    |
| <b>22.0</b> | 1570.648   | 1546.630    | 1535.713    | 1532.801    | 1524.795    |
| <b>22.5</b> | 1561.914   | 1537.896    | 1526.979    | 1523.340    | 1515.333    |
| <b>23.0</b> | 1553.180   | 1529.162    | 1518.245    | 1513.150    | 1505.872    |
| <b>23.5</b> | 1544.447   | 1520.428    | 1508.783    | 1503.688    | 1497.138    |
| <b>24.0</b> | 1534.985   | 1511.694    | 1500.049    | 1494.227    | 1487.676    |
| <b>24.5</b> | 1525.523   | 1502.233    | 1490.587    | 1484.765    | 1478.214    |
| <b>25.0</b> | 1516.789   | 1492.771    | 1481.126    | 1475.303    | 1468.753    |
| <b>25.5</b> | 1507.327   | 1483.309    | 1470.936    | 1465.841    | 1458.563    |
| <b>26.0</b> | 1497.138   | 1473.120    | 1461.474    | 1456.380    | 1449.101    |
| <b>26.5</b> | 1487.676   | 1463.658    | 1451.285    | 1446.918    | 1439.640    |

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|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1477.487 | 1453.468 | 1441.095 | 1437.456 | 1429.450 |
| 27.5 | 1467.297 | 1443.279 | 1431.634 | 1427.994 | 1419.988 |
| 28.0 | 1457.107 | 1432.361 | 1420.716 | 1417.805 | 1409.799 |
| 28.5 | 1446.190 | 1421.444 | 1410.527 | 1408.343 | 1399.609 |
| 29.0 | 1435.273 | 1411.254 | 1400.337 | 1398.154 | 1389.420 |
| 29.5 | 1425.083 | 1400.337 | 1390.147 | 1387.236 | 1379.958 |
| 30.0 | 1414.166 | 1389.420 | 1379.958 | 1377.047 | 1369.768 |
| 30.5 | 1403.248 | 1378.502 | 1369.040 | 1366.857 | 1359.579 |
| 31.0 | 1391.603 | 1368.313 | 1358.123 | 1355.940 | 1349.389 |
| 31.5 | 1380.686 | 1357.395 | 1347.206 | 1345.022 | 1338.472 |
| 32.0 | 1369.040 | 1345.750 | 1336.288 | 1333.377 | 1327.554 |
| 32.5 | 1357.395 | 1334.833 | 1325.371 | 1322.460 | 1315.909 |
| 33.0 | 1345.750 | 1323.915 | 1314.454 | 1311.542 | 1304.264 |
| 33.5 | 1334.833 | 1312.270 | 1302.808 | 1299.897 | 1293.347 |
| 34.0 | 1322.460 | 1300.625 | 1291.891 | 1288.252 | 1281.701 |
| 34.5 | 1310.814 | 1288.980 | 1279.518 | 1276.607 | 1269.328 |
| 35.0 | 1299.169 | 1278.062 | 1267.873 | 1264.961 | 1256.955 |
| 35.5 | 1286.796 | 1265.689 | 1256.227 | 1253.316 | 1244.582 |
| 36.0 | 1274.423 | 1254.044 | 1244.582 | 1240.943 | 1232.937 |
| 36.5 | 1262.778 | 1242.399 | 1232.937 | 1229.298 | 1221.292 |
| 37.0 | 1250.405 | 1230.026 | 1220.564 | 1216.925 | 1208.919 |
| 37.5 | 1238.032 | 1217.653 | 1208.919 | 1204.552 | 1197.274 |
| 38.0 | 1224.931 | 1205.280 | 1196.546 | 1192.179 | 1184.901 |
| 38.5 | 1212.558 | 1192.907 | 1184.173 | 1180.534 | 1172.527 |
| 39.0 | 1200.913 | 1180.534 | 1171.800 | 1168.161 | 1160.882 |
| 39.5 | 1187.812 | 1168.161 | 1160.154 | 1155.787 | 1147.781 |
| 40.0 | 1175.439 | 1155.060 | 1147.781 | 1143.414 | 1136.136 |
| 40.5 | 1162.338 | 1142.687 | 1135.408 | 1131.041 | 1123.763 |
| 41.0 | 1149.965 | 1129.586 | 1123.035 | 1117.941 | 1110.662 |
| 41.5 | 1136.864 | 1117.213 | 1109.934 | 1105.568 | 1097.561 |
| 42.0 | 1124.491 | 1104.112 | 1097.561 | 1093.194 | 1085.188 |
| 42.5 | 1112.118 | 1091.739 | 1085.188 | 1080.094 | 1072.815 |
| 43.0 | 1099.017 | 1079.366 | 1072.815 | 1067.721 | 1059.714 |
| 43.5 | 1086.644 | 1066.265 | 1059.714 | 1055.348 | 1047.341 |
| 44.0 | 1073.543 | 1053.164 | 1046.614 | 1042.247 | 1034.968 |
| 44.5 | 1060.442 | 1040.063 | 1033.513 | 1029.146 | 1021.868 |
| 45.0 | 1047.341 | 1027.690 | 1021.140 | 1016.045 | 1009.494 |
| 45.5 | 1034.968 | 1014.589 | 1008.039 | 1003.672 | 997.121  |
| 46.0 | 1021.868 | 1001.488 | 994.938  | 990.571  | 984.748  |
| 46.5 | 1008.767 | 988.388  | 982.565  | 978.198  | 972.375  |
| 47.0 | 995.666  | 975.287  | 969.464  | 965.097  | 959.275  |
| 47.5 | 981.837  | 962.186  | 956.363  | 951.996  | 946.901  |
| 48.0 | 968.736  | 949.085  | 943.262  | 939.623  | 933.801  |
| 48.5 | 955.635  | 935.984  | 930.889  | 926.522  | 920.700  |
| 49.0 | 941.807  | 922.883  | 917.788  | 913.421  | 908.327  |
| 49.5 | 928.706  | 909.782  | 904.688  | 901.048  | 895.954  |
| 50.0 | 914.877  | 896.681  | 891.587  | 887.948  | 882.853  |
| 50.5 | 901.048  | 883.581  | 878.486  | 874.847  | 870.480  |
| 51.0 | 887.220  | 870.480  | 865.385  | 861.746  | 857.379  |
| 51.5 | 874.119  | 857.379  | 852.284  | 849.373  | 844.278  |
| 52.0 | 861.018  | 844.278  | 839.183  | 836.272  | 831.905  |
| 52.5 | 847.189  | 831.177  | 826.082  | 823.899  | 818.804  |
| 53.0 | 834.088  | 818.076  | 812.982  | 810.798  | 805.703  |
| 53.5 | 820.260  | 804.975  | 799.881  | 797.697  | 792.602  |
| 54.0 | 807.159  | 791.875  | 787.508  | 785.324  | 779.502  |
| 54.5 | 794.058  | 779.502  | 774.407  | 772.223  | 766.401  |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 780.957 | 767.128 | 762.034 | 759.850 | 754.028 |
| 55.5 | 768.584 | 754.028 | 748.933 | 746.749 | 741.655 |
| 56.0 | 754.755 | 740.927 | 735.832 | 734.376 | 728.554 |
| 56.5 | 741.655 | 728.554 | 723.095 | 721.494 | 715.744 |
| 57.0 | 729.282 | 715.453 | 710.212 | 708.466 | 703.007 |
| 57.5 | 716.472 | 702.789 | 697.403 | 695.802 | 690.124 |
| 58.0 | 703.662 | 690.270 | 684.520 | 683.065 | 677.388 |
| 58.5 | 690.780 | 677.679 | 671.856 | 670.546 | 665.160 |
| 59.0 | 678.115 | 665.015 | 659.119 | 657.882 | 652.714 |
| 59.5 | 665.815 | 652.205 | 646.164 | 645.290 | 640.414 |
| 60.0 | 653.224 | 639.468 | 633.354 | 632.626 | 627.895 |
| 60.5 | 640.778 | 627.022 | 620.981 | 619.889 | 615.231 |
| 61.0 | 628.550 | 614.576 | 608.681 | 607.443 | 602.858 |
| 61.5 | 615.450 | 602.276 | 596.453 | 595.070 | 590.631 |
| 62.0 | 602.567 | 589.612 | 583.789 | 582.770 | 578.112 |
| 62.5 | 589.393 | 577.894 | 571.853 | 571.052 | 566.249 |
| 63.0 | 576.729 | 567.559 | 562.682 | 562.318 | 558.388 |
| 63.5 | 563.919 | 556.277 | 552.420 | 551.619 | 547.543 |
| 64.0 | 556.205 | 545.287 | 541.794 | 540.192 | 535.534 |
| 64.5 | 544.195 | 533.569 | 529.784 | 528.329 | 523.962 |
| 65.0 | 530.731 | 521.051 | 517.921 | 516.538 | 512.317 |
| 65.5 | 516.975 | 508.386 | 505.548 | 504.893 | 500.599 |
| 66.0 | 503.728 | 496.013 | 493.466 | 493.175 | 488.590 |
| 66.5 | 490.627 | 483.349 | 481.166 | 481.166 | 477.090 |
| 67.0 | 477.672 | 470.758 | 469.011 | 469.229 | 465.517 |
| 67.5 | 464.935 | 458.385 | 456.784 | 457.220 | 453.581 |
| 68.0 | 452.053 | 446.012 | 444.556 | 445.138 | 441.354 |
| 68.5 | 439.097 | 433.420 | 432.256 | 433.056 | 429.344 |
| 69.0 | 425.705 | 420.756 | 419.883 | 420.319 | 416.899 |
| 69.5 | 412.677 | 408.310 | 407.291 | 407.801 | 404.671 |
| 70.0 | 399.795 | 395.719 | 394.991 | 395.209 | 392.444 |
| 70.5 | 387.131 | 383.055 | 382.545 | 382.764 | 380.143 |
| 71.0 | 374.175 | 370.463 | 370.318 | 370.609 | 367.770 |
| 71.5 | 361.220 | 357.872 | 358.163 | 358.381 | 355.907 |
| 72.0 | 348.629 | 345.208 | 345.790 | 346.081 | 343.971 |
| 72.5 | 336.037 | 332.762 | 333.708 | 333.999 | 332.253 |
| 73.0 | 323.591 | 320.607 | 321.917 | 322.281 | 320.753 |
| 73.5 | 311.509 | 308.598 | 310.127 | 310.782 | 309.108 |
| 74.0 | 299.573 | 296.589 | 298.481 | 298.991 | 297.899 |
| 74.5 | 287.637 | 284.798 | 286.909 | 287.418 | 286.618 |
| 75.0 | 275.628 | 273.080 | 275.482 | 275.992 | 275.337 |
| 75.5 | 263.764 | 261.362 | 264.128 | 264.783 | 264.055 |
| 76.0 | 251.755 | 250.081 | 252.919 | 253.647 | 253.065 |
| 76.5 | 240.401 | 238.945 | 241.784 | 242.584 | 242.075 |
| 77.0 | 229.338 | 227.737 | 230.866 | 231.594 | 230.794 |
| 77.5 | 217.911 | 216.819 | 219.949 | 220.531 | 219.731 |
| 78.0 | 206.775 | 205.902 | 209.032 | 209.905 | 209.104 |
| 78.5 | 195.712 | 195.276 | 198.260 | 199.279 | 198.624 |
| 79.0 | 185.086 | 184.649 | 187.706 | 188.944 | 188.434 |
| 79.5 | 174.460 | 174.242 | 177.298 | 178.608 | 178.172 |
| 80.0 | 163.979 | 164.052 | 166.890 | 168.710 | 168.128 |
| 80.5 | 153.426 | 154.081 | 156.992 | 158.739 | 158.302 |
| 81.0 | 143.309 | 144.328 | 147.166 | 148.986 | 148.695 |
| 81.5 | 133.556 | 134.648 | 137.559 | 139.379 | 139.160 |
| 82.0 | 124.458 | 125.186 | 128.170 | 130.062 | 129.844 |
| 82.5 | 115.360 | 116.015 | 118.927 | 120.819 | 120.674 |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 106.263 | 107.282 | 109.829 | 111.794 | 111.940 |
| 83.5  | 97.310  | 98.548  | 101.022 | 102.915 | 103.351 |
| 84.0  | 88.940  | 89.959  | 92.288  | 94.108  | 94.763  |
| 84.5  | 80.425  | 81.516  | 83.700  | 85.520  | 86.175  |
| 85.0  | 72.491  | 73.365  | 75.403  | 77.004  | 77.586  |
| 85.5  | 64.777  | 65.213  | 66.960  | 68.634  | 69.216  |
| 86.0  | 57.207  | 57.353  | 58.881  | 60.410  | 61.137  |
| 86.5  | 49.711  | 49.711  | 51.093  | 52.476  | 53.131  |
| 87.0  | 42.141  | 42.141  | 43.160  | 44.907  | 45.416  |
| 87.5  | 34.645  | 34.717  | 35.663  | 37.410  | 38.065  |
| 88.0  | 27.512  | 27.439  | 28.385  | 30.278  | 31.005  |
| 88.5  | 20.670  | 20.234  | 21.471  | 23.145  | 24.164  |
| 89.0  | 13.392  | 13.174  | 14.848  | 16.449  | 17.541  |
| 89.5  | 6.187   | 7.351   | 8.879   | 10.117  | 10.481  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 4.578   | 2.413   | 2.227   | 2.165   | 2.351   |
| 91.0  | 10.084  | 5.320   | 4.331   | 4.269   | 4.207   |
| 91.5  | 16.209  | 10.826  | 6.434   | 6.372   | 6.310   |
| 92.0  | 22.395  | 18.003  | 9.280   | 8.290   | 8.290   |
| 92.5  | 28.829  | 25.427  | 14.353  | 10.393  | 10.208  |
| 93.0  | 35.511  | 32.541  | 20.292  | 13.796  | 12.435  |
| 93.5  | 42.254  | 39.346  | 26.664  | 18.621  | 16.209  |
| 94.0  | 48.874  | 46.028  | 33.717  | 24.375  | 21.343  |
| 94.5  | 55.679  | 52.709  | 41.078  | 30.314  | 26.911  |
| 95.0  | 62.360  | 59.576  | 48.317  | 36.377  | 32.417  |
| 95.5  | 69.042  | 66.010  | 55.369  | 42.625  | 38.233  |
| 96.0  | 75.414  | 72.568  | 62.298  | 49.121  | 44.172  |
| 96.5  | 81.848  | 79.126  | 69.227  | 55.741  | 50.296  |
| 97.0  | 88.096  | 85.560  | 76.094  | 62.360  | 56.792  |
| 97.5  | 94.530  | 92.055  | 83.023  | 69.103  | 63.288  |
| 98.0  | 100.902 | 98.428  | 89.766  | 75.785  | 69.846  |
| 98.5  | 107.274 | 104.862 | 96.262  | 82.590  | 76.404  |
| 99.0  | 113.770 | 111.481 | 102.882 | 89.086  | 83.023  |
| 99.5  | 120.328 | 118.039 | 109.563 | 95.582  | 89.519  |
| 100.0 | 126.762 | 124.658 | 116.245 | 102.263 | 95.891  |
| 100.5 | 133.443 | 131.278 | 122.926 | 109.192 | 102.325 |
| 101.0 | 140.310 | 137.898 | 129.731 | 116.183 | 109.316 |
| 101.5 | 147.301 | 144.641 | 136.660 | 123.174 | 116.554 |
| 102.0 | 154.106 | 151.632 | 143.589 | 130.164 | 123.730 |
| 102.5 | 161.221 | 158.561 | 150.765 | 137.155 | 130.845 |
| 103.0 | 168.521 | 165.737 | 157.880 | 144.084 | 138.083 |
| 103.5 | 175.821 | 173.037 | 165.428 | 151.508 | 145.259 |
| 104.0 | 183.307 | 180.399 | 173.099 | 159.179 | 152.745 |
| 104.5 | 191.040 | 188.070 | 180.770 | 167.036 | 160.231 |
| 105.0 | 198.958 | 195.927 | 188.380 | 174.769 | 167.840 |
| 105.5 | 207.063 | 203.908 | 196.236 | 182.564 | 175.388 |
| 106.0 | 215.291 | 211.950 | 204.217 | 190.483 | 182.935 |
| 106.5 | 223.581 | 220.240 | 212.569 | 198.464 | 190.545 |
| 107.0 | 232.428 | 228.901 | 221.477 | 206.939 | 198.835 |
| 107.5 | 241.584 | 237.810 | 230.510 | 215.910 | 207.805 |
| 108.0 | 250.678 | 246.966 | 239.728 | 225.622 | 217.023 |
| 108.5 | 260.267 | 256.308 | 248.946 | 235.335 | 226.550 |
| 109.0 | 270.103 | 265.835 | 258.411 | 245.172 | 236.201 |
| 109.5 | 280.187 | 275.733 | 268.371 | 254.946 | 245.976 |
| 110.0 | 290.952 | 285.879 | 278.579 | 264.969 | 256.184 |
| 110.5 | 301.964 | 296.272 | 289.034 | 275.733 | 266.763 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 313.100  | 307.161  | 299.861  | 286.931  | 277.404  |
| 111.5 | 324.483  | 318.358  | 310.873  | 298.314  | 288.354  |
| 112.0 | 336.299  | 329.865  | 321.823  | 309.697  | 298.809  |
| 112.5 | 348.177  | 341.681  | 332.897  | 321.019  | 309.883  |
| 113.0 | 360.612  | 353.869  | 344.589  | 332.711  | 321.452  |
| 113.5 | 373.418  | 366.613  | 356.962  | 345.332  | 333.886  |
| 114.0 | 386.410  | 379.605  | 370.078  | 358.756  | 347.682  |
| 114.5 | 399.835  | 393.030  | 383.441  | 372.738  | 362.344  |
| 115.0 | 413.445  | 406.826  | 397.298  | 386.843  | 377.192  |
| 115.5 | 427.674  | 420.745  | 411.527  | 400.886  | 391.854  |
| 116.0 | 442.027  | 435.222  | 426.251  | 415.672  | 406.764  |
| 116.5 | 457.184  | 450.069  | 441.470  | 430.829  | 422.663  |
| 117.0 | 472.959  | 465.226  | 456.813  | 447.162  | 439.057  |
| 117.5 | 484.590  | 477.043  | 470.856  | 462.195  | 455.699  |
| 118.0 | 499.438  | 490.838  | 485.271  | 477.723  | 470.485  |
| 118.5 | 516.698  | 507.295  | 499.995  | 492.138  | 483.786  |
| 119.0 | 533.587  | 523.503  | 516.698  | 508.470  | 498.572  |
| 119.5 | 550.662  | 540.764  | 534.392  | 525.050  | 515.152  |
| 120.0 | 568.294  | 558.643  | 552.147  | 543.176  | 532.659  |
| 120.5 | 585.802  | 576.769  | 570.459  | 562.417  | 551.343  |
| 121.0 | 604.176  | 595.267  | 588.895  | 581.595  | 571.201  |
| 121.5 | 622.364  | 613.579  | 607.269  | 601.020  | 590.627  |
| 122.0 | 641.542  | 632.262  | 626.694  | 620.508  | 610.115  |
| 122.5 | 660.102  | 650.822  | 645.873  | 639.686  | 628.550  |
| 123.0 | 679.280  | 670.619  | 665.670  | 660.720  | 648.966  |
| 123.5 | 699.077  | 690.416  | 686.704  | 681.755  | 670.000  |
| 124.0 | 718.874  | 710.831  | 707.119  | 702.789  | 691.653  |
| 124.5 | 738.670  | 730.628  | 727.535  | 723.204  | 712.687  |
| 125.0 | 758.467  | 750.425  | 747.332  | 743.620  | 733.103  |
| 125.5 | 778.883  | 770.840  | 767.747  | 764.035  | 752.899  |
| 126.0 | 798.680  | 790.637  | 788.781  | 784.451  | 772.696  |
| 126.5 | 818.477  | 810.434  | 809.815  | 806.104  | 793.731  |
| 127.0 | 838.892  | 830.850  | 830.850  | 827.756  | 816.002  |
| 127.5 | 859.308  | 850.646  | 850.646  | 848.791  | 838.273  |
| 128.0 | 879.104  | 870.443  | 871.062  | 869.825  | 859.308  |
| 128.5 | 898.901  | 889.622  | 890.859  | 890.859  | 879.723  |
| 129.0 | 918.698  | 908.800  | 910.656  | 911.274  | 900.757  |
| 129.5 | 938.495  | 928.597  | 931.071  | 932.309  | 922.410  |
| 130.0 | 958.292  | 948.394  | 951.487  | 953.343  | 945.300  |
| 130.5 | 978.089  | 967.572  | 972.521  | 973.758  | 966.953  |
| 131.0 | 997.886  | 986.750  | 992.318  | 993.555  | 986.750  |
| 131.5 | 1016.445 | 1005.309 | 1012.115 | 1012.115 | 1005.928 |
| 132.0 | 1035.623 | 1023.869 | 1031.293 | 1031.912 | 1024.488 |
| 132.5 | 1054.183 | 1043.047 | 1050.471 | 1051.090 | 1043.047 |
| 133.0 | 1072.743 | 1062.225 | 1069.031 | 1070.268 | 1060.988 |
| 133.5 | 1091.302 | 1080.785 | 1088.209 | 1089.446 | 1080.166 |
| 134.0 | 1109.862 | 1098.726 | 1106.150 | 1108.006 | 1098.726 |
| 134.5 | 1126.565 | 1116.667 | 1123.472 | 1124.709 | 1116.667 |
| 135.0 | 1143.269 | 1133.989 | 1140.176 | 1141.413 | 1132.752 |
| 135.5 | 1159.354 | 1151.930 | 1156.879 | 1157.498 | 1148.837 |
| 136.0 | 1175.439 | 1168.634 | 1172.346 | 1174.201 | 1165.540 |
| 136.5 | 1192.142 | 1184.719 | 1187.812 | 1190.905 | 1182.863 |
| 137.0 | 1207.609 | 1200.804 | 1203.897 | 1206.371 | 1198.948 |
| 137.5 | 1223.075 | 1215.651 | 1218.744 | 1220.600 | 1213.177 |
| 138.0 | 1237.923 | 1230.499 | 1232.973 | 1234.211 | 1226.787 |
| 138.5 | 1252.770 | 1244.728 | 1247.202 | 1247.821 | 1239.779 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1266.999 | 1258.957 | 1261.431 | 1261.431 | 1252.770 |
| 139.5 | 1281.228 | 1273.186 | 1275.042 | 1274.423 | 1265.143 |
| 140.0 | 1294.839 | 1286.178 | 1288.652 | 1288.033 | 1278.754 |
| 140.5 | 1307.830 | 1298.551 | 1301.025 | 1300.406 | 1290.508 |
| 141.0 | 1320.822 | 1311.542 | 1313.398 | 1312.161 | 1302.262 |
| 141.5 | 1332.576 | 1323.297 | 1325.771 | 1323.915 | 1312.780 |
| 142.0 | 1344.949 | 1335.670 | 1337.526 | 1335.051 | 1323.915 |
| 142.5 | 1356.704 | 1347.424 | 1349.280 | 1346.805 | 1334.432 |
| 143.0 | 1368.458 | 1358.560 | 1360.416 | 1357.941 | 1345.568 |
| 143.5 | 1379.594 | 1370.314 | 1371.551 | 1369.077 | 1356.085 |
| 144.0 | 1390.111 | 1381.450 | 1382.069 | 1378.975 | 1365.984 |
| 144.5 | 1400.628 | 1391.967 | 1392.586 | 1388.874 | 1375.882 |
| 145.0 | 1410.527 | 1402.484 | 1402.484 | 1398.154 | 1385.162 |
| 145.5 | 1421.044 | 1413.001 | 1412.383 | 1408.671 | 1395.060 |
| 146.0 | 1430.942 | 1422.900 | 1422.281 | 1417.950 | 1404.959 |
| 146.5 | 1440.841 | 1432.798 | 1431.561 | 1427.849 | 1414.857 |
| 147.0 | 1450.120 | 1442.696 | 1440.222 | 1437.747 | 1424.756 |
| 147.5 | 1459.400 | 1451.976 | 1449.502 | 1447.027 | 1434.035 |
| 148.0 | 1468.680 | 1461.256 | 1457.544 | 1455.688 | 1443.934 |
| 148.5 | 1477.960 | 1470.536 | 1465.587 | 1464.349 | 1453.832 |
| 149.0 | 1486.621 | 1479.816 | 1473.629 | 1473.010 | 1463.731 |
| 149.5 | 1495.282 | 1488.477 | 1481.053 | 1481.672 | 1473.010 |
| 150.0 | 1503.943 | 1497.138 | 1489.095 | 1489.714 | 1481.672 |
| 150.5 | 1512.604 | 1505.799 | 1496.519 | 1497.138 | 1490.333 |
| 151.0 | 1520.647 | 1513.841 | 1503.943 | 1504.562 | 1498.375 |
| 151.5 | 1529.308 | 1521.884 | 1511.985 | 1511.985 | 1505.799 |
| 152.0 | 1537.350 | 1529.926 | 1519.409 | 1518.791 | 1513.223 |
| 152.5 | 1545.393 | 1537.350 | 1526.833 | 1526.214 | 1520.028 |
| 153.0 | 1553.435 | 1544.774 | 1534.257 | 1533.638 | 1526.214 |
| 153.5 | 1560.859 | 1552.198 | 1541.681 | 1541.062 | 1531.782 |
| 154.0 | 1568.283 | 1559.622 | 1549.723 | 1548.486 | 1537.969 |
| 154.5 | 1576.325 | 1566.427 | 1557.147 | 1555.291 | 1544.155 |
| 155.0 | 1583.749 | 1573.232 | 1564.571 | 1562.715 | 1550.961 |
| 155.5 | 1590.554 | 1579.419 | 1571.995 | 1570.139 | 1557.766 |
| 156.0 | 1597.359 | 1586.224 | 1580.037 | 1576.944 | 1564.571 |
| 156.5 | 1604.165 | 1593.029 | 1587.461 | 1584.368 | 1571.376 |
| 157.0 | 1610.970 | 1599.834 | 1594.885 | 1591.792 | 1578.181 |
| 157.5 | 1617.156 | 1606.021 | 1601.690 | 1598.597 | 1584.986 |
| 158.0 | 1623.343 | 1612.207 | 1608.495 | 1605.402 | 1591.792 |
| 158.5 | 1630.148 | 1619.012 | 1615.300 | 1612.207 | 1599.215 |
| 159.0 | 1635.716 | 1625.199 | 1621.487 | 1619.012 | 1606.021 |
| 159.5 | 1641.902 | 1631.385 | 1627.673 | 1625.817 | 1612.826 |
| 160.0 | 1647.470 | 1636.953 | 1633.860 | 1632.004 | 1619.631 |
| 160.5 | 1653.038 | 1642.521 | 1639.428 | 1638.190 | 1626.436 |
| 161.0 | 1658.606 | 1648.089 | 1644.996 | 1644.377 | 1633.241 |
| 161.5 | 1664.174 | 1654.275 | 1649.945 | 1650.564 | 1640.046 |
| 162.0 | 1670.360 | 1659.843 | 1654.894 | 1656.750 | 1646.233 |
| 162.5 | 1675.928 | 1665.411 | 1659.843 | 1662.318 | 1651.801 |
| 163.0 | 1681.496 | 1670.979 | 1664.793 | 1667.886 | 1657.369 |
| 163.5 | 1687.064 | 1675.928 | 1669.742 | 1673.454 | 1662.318 |
| 164.0 | 1692.632 | 1680.877 | 1674.072 | 1678.403 | 1667.267 |
| 164.5 | 1696.962 | 1685.827 | 1678.403 | 1683.352 | 1672.216 |
| 165.0 | 1701.912 | 1690.776 | 1682.733 | 1688.301 | 1676.547 |
| 165.5 | 1706.861 | 1695.106 | 1687.064 | 1692.632 | 1680.877 |
| 166.0 | 1711.810 | 1699.437 | 1691.395 | 1696.962 | 1684.589 |
| 166.5 | 1716.759 | 1703.768 | 1695.725 | 1700.674 | 1688.920 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1721.090 | 1707.480 | 1699.437 | 1704.386 | 1692.632 |
| 167.5 | 1725.420 | 1711.191 | 1703.768 | 1708.098 | 1696.962 |
| 168.0 | 1729.751 | 1714.903 | 1707.480 | 1711.810 | 1700.674 |
| 168.5 | 1734.082 | 1718.615 | 1711.191 | 1715.522 | 1705.005 |
| 169.0 | 1737.793 | 1721.709 | 1714.903 | 1718.615 | 1708.717 |
| 169.5 | 1740.887 | 1724.802 | 1717.997 | 1721.709 | 1712.429 |
| 170.0 | 1743.980 | 1727.895 | 1721.090 | 1724.802 | 1716.759 |
| 170.5 | 1747.073 | 1730.988 | 1723.564 | 1727.895 | 1719.853 |
| 171.0 | 1750.167 | 1733.463 | 1726.039 | 1730.988 | 1722.946 |
| 171.5 | 1752.641 | 1735.938 | 1728.514 | 1734.082 | 1726.039 |
| 172.0 | 1755.116 | 1738.412 | 1730.370 | 1736.556 | 1728.514 |
| 172.5 | 1757.590 | 1740.887 | 1732.226 | 1738.412 | 1730.370 |
| 173.0 | 1760.065 | 1743.361 | 1734.082 | 1740.887 | 1731.607 |
| 173.5 | 1761.921 | 1745.217 | 1735.938 | 1742.124 | 1732.844 |
| 174.0 | 1763.777 | 1747.073 | 1737.793 | 1743.361 | 1733.463 |
| 174.5 | 1765.014 | 1748.311 | 1739.031 | 1744.599 | 1734.082 |
| 175.0 | 1766.251 | 1750.167 | 1740.268 | 1745.217 | 1734.082 |
| 175.5 | 1767.489 | 1751.404 | 1742.124 | 1745.836 | 1734.700 |
| 176.0 | 1768.726 | 1752.641 | 1743.361 | 1745.836 | 1734.700 |
| 176.5 | 1769.345 | 1753.878 | 1743.980 | 1746.455 | 1734.700 |
| 177.0 | 1769.963 | 1755.116 | 1745.217 | 1746.455 | 1734.082 |
| 177.5 | 1771.201 | 1756.353 | 1746.455 | 1746.455 | 1734.082 |
| 178.0 | 1771.819 | 1756.353 | 1747.073 | 1746.455 | 1734.700 |
| 178.5 | 1771.819 | 1756.972 | 1747.692 | 1746.455 | 1734.700 |
| 179.0 | 1772.438 | 1757.590 | 1747.692 | 1746.455 | 1734.700 |
| 179.5 | 1773.057 | 1757.590 | 1748.311 | 1746.455 | 1734.700 |
| 180.0 | 1751.404 | 1751.404 | 1751.404 | 1751.404 | 1751.404 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 627.09  | N.A.  | 7.00   |
| 0-30    | 1311.03 | N.A.  | 14.70  |
| 0-40    | 2106.18 | N.A.  | 23.70  |
| 0-60    | 3578.88 | N.A.  | 40.20  |
| 0-80    | 4382.74 | N.A.  | 49.30  |
| 0-90    | 4467.68 | N.A.  | 50.20  |
| 10-90   | 4304.00 | N.A.  | 48.40  |
| 20-40   | 1479.1  | N.A.  | 16.60  |
| 20-50   | 2268.45 | N.A.  | 25.50  |
| 40-70   | 1984.51 | N.A.  | 22.30  |
| 60-80   | 803.86  | N.A.  | 9.00   |
| 70-80   | 292.05  | N.A.  | 3.30   |
| 80-90   | 84.94   | N.A.  | 1.00   |
| 90-110  | 253.46  | N.A.  | 2.80   |
| 90-120  | 650.65  | N.A.  | 7.30   |
| 90-130  | 1318.11 | N.A.  | 14.80  |
| 90-150  | 3065.83 | N.A.  | 34.50  |
| 90-180  | 4430.93 | N.A.  | 49.80  |
| 110-180 | 4177.47 | N.A.  | 46.90  |
| 0-180   | 8898.61 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 163.68 |
| 10-20   | 463.41 |
| 20-30   | 683.94 |
| 30-40   | 795.16 |
| 40-50   | 789.35 |
| 50-60   | 683.34 |
| 60-70   | 511.81 |
| 70-80   | 292.05 |
| 80-90   | 84.94  |
| 90-100  | 54.67  |
| 100-110 | 198.79 |
| 110-120 | 397.19 |
| 120-130 | 667.46 |
| 130-140 | 872.77 |
| 140-150 | 874.95 |
| 150-160 | 722.75 |
| 160-170 | 476.26 |
| 170-180 | 166.09 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-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  | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 50 | 49 | 47 | 42 |
| 2  | 89  | 82  | 75  | 70  | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 35 |
| 3  | 81  | 72  | 64  | 59  | 75 | 66 | 60 | 55 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4  | 74  | 63  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 29 | 26 |
| 5  | 68  | 57  | 48  | 42  | 63 | 53 | 45 | 40 | 45 | 39 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 22 |
| 6  | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | 20 |
| 7  | 58  | 46  | 38  | 32  | 53 | 43 | 36 | 30 | 37 | 31 | 27 | 31 | 27 | 23 | 26 | 23 | 20 | 17 |
| 8  | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 | 16 |
| 9  | 50  | 38  | 31  | 25  | 46 | 35 | 29 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-927U-L12-927D-F-F-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 | 16.4 | 17.3 | 17.4 | 18.3 | 19.5 | 16.3 | 17.2 | 17.3 | 18.2 | 19.4 |
|      | 3H   | 18.2 | 19.0 | 19.2 | 19.9 | 21.2 | 18.1 | 18.9 | 19.1 | 19.9 | 21.1 |
|      | 4H   | 18.8 | 19.5 | 19.8 | 20.5 | 21.8 | 18.7 | 19.5 | 19.7 | 20.4 | 21.7 |
|      | 6H   | 19.2 | 19.9 | 20.2 | 20.9 | 22.2 | 19.2 | 19.9 | 20.2 | 20.9 | 22.2 |
|      | 8H   | 19.4 | 20.0 | 20.4 | 21.0 | 22.3 | 19.3 | 20.0 | 20.3 | 21.0 | 22.3 |
|      | 12H  | 19.4 | 20.1 | 20.4 | 21.1 | 22.4 | 19.4 | 20.0 | 20.4 | 21.0 | 22.4 |

### UGR Viewed Endwise

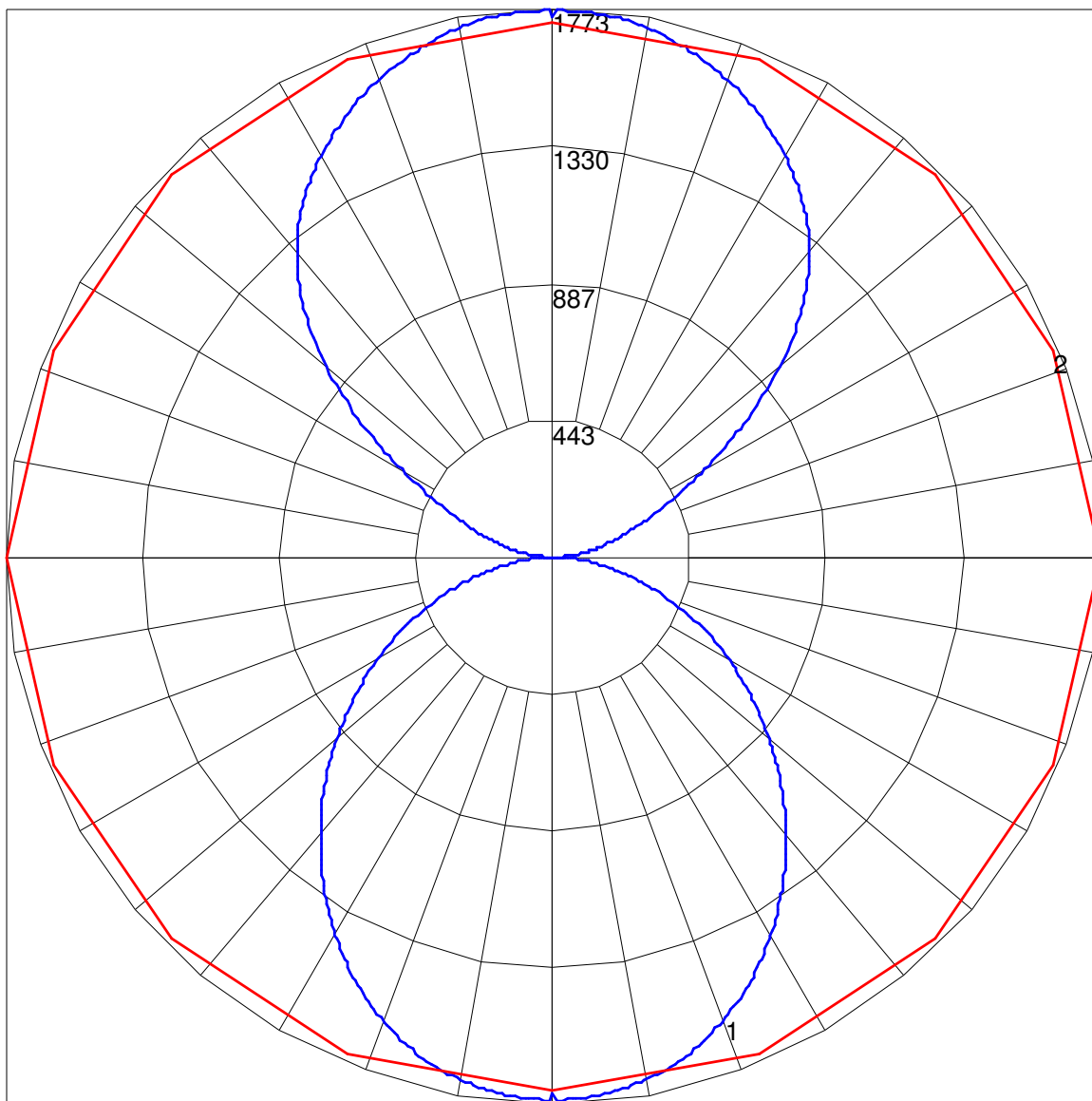
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 17.0 | 17.7 | 18.0 | 18.7 | 20.0 | 16.9 | 17.6 | 17.9 | 18.6 | 19.9 |
|    | 3H  | 18.9 | 19.5 | 19.9 | 20.6 | 21.9 | 18.9 | 19.5 | 19.9 | 20.5 | 21.8 |
|    | 4H  | 19.7 | 20.2 | 20.7 | 21.2 | 22.6 | 19.6 | 20.2 | 20.6 | 21.2 | 22.5 |
|    | 6H  | 20.2 | 20.7 | 21.2 | 21.7 | 23.1 | 20.2 | 20.7 | 21.2 | 21.7 | 23.1 |
|    | 8H  | 20.4 | 20.9 | 21.4 | 21.9 | 23.2 | 20.4 | 20.9 | 21.4 | 21.9 | 23.2 |
|    | 12H | 20.5 | 20.9 | 21.6 | 22.0 | 23.3 | 20.5 | 20.9 | 21.6 | 22.0 | 23.3 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 19.9 | 20.4 | 20.9 | 21.4 | 22.7 | 19.9 | 20.3 | 20.9 | 21.3 | 22.7 |
|    | 6H  | 20.6 | 21.0 | 21.6 | 22.0 | 23.4 | 20.6 | 21.0 | 21.6 | 22.0 | 23.4 |
|    | 8H  | 20.9 | 21.2 | 21.9 | 22.2 | 23.6 | 20.9 | 21.2 | 21.9 | 22.3 | 23.6 |
|    | 12H | 21.1 | 21.3 | 22.1 | 22.4 | 23.8 | 21.1 | 21.4 | 22.2 | 22.4 | 23.8 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 19.9 | 20.3 | 20.9 | 21.4 | 22.7 | 19.9 | 20.3 | 20.9 | 21.3 | 22.7 |
|     | 6H | 20.6 | 21.0 | 21.7 | 22.0 | 23.4 | 20.6 | 21.0 | 21.7 | 22.0 | 23.4 |
|     | 8H | 20.9 | 21.2 | 22.0 | 22.3 | 23.7 | 21.0 | 21.2 | 22.0 | 22.3 | 23.7 |

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 1773.057 Located At Horizontal Angle = 0, Vertical Angle = 179.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (179.5) (Through Max. Cd.)