

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #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-L8-935U-L15-935D-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                | 7823            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 101             |
| Total Luminaire Watts           | 77.6            |
| 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                  | 10612            | 10346             | 10228             |
| 55                  | 9755             | 9519              | 9419              |
| 65                  | 8997             | 8780              | 8685              |
| 75                  | 7630             | 7626              | 7622              |
| 85                  | 5959             | 6198              | 6378              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-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>  | 1539.803   | 1539.803    | 1539.803    | 1539.803    | 1539.803    |
| <b>0.5</b>  | 1563.055   | 1541.095    | 1533.344    | 1536.573    | 1531.406    |
| <b>1.0</b>  | 1563.055   | 1540.449    | 1533.344    | 1536.573    | 1531.406    |
| <b>1.5</b>  | 1562.409   | 1539.803    | 1532.698    | 1536.573    | 1530.760    |
| <b>2.0</b>  | 1561.763   | 1539.157    | 1532.052    | 1535.927    | 1530.760    |
| <b>2.5</b>  | 1561.117   | 1538.511    | 1530.760    | 1535.282    | 1530.114    |
| <b>3.0</b>  | 1559.825   | 1537.219    | 1530.114    | 1534.636    | 1528.823    |
| <b>3.5</b>  | 1558.534   | 1535.927    | 1528.823    | 1533.344    | 1527.531    |
| <b>4.0</b>  | 1557.242   | 1534.636    | 1527.531    | 1532.052    | 1526.239    |
| <b>4.5</b>  | 1555.950   | 1532.698    | 1526.239    | 1530.760    | 1524.301    |
| <b>5.0</b>  | 1554.658   | 1531.406    | 1524.301    | 1528.823    | 1522.364    |
| <b>5.5</b>  | 1552.721   | 1529.469    | 1522.364    | 1526.885    | 1520.426    |
| <b>6.0</b>  | 1550.783   | 1526.885    | 1520.426    | 1524.947    | 1517.843    |
| <b>6.5</b>  | 1548.199   | 1524.947    | 1517.843    | 1522.364    | 1515.905    |
| <b>7.0</b>  | 1546.262   | 1522.364    | 1515.905    | 1519.780    | 1513.321    |
| <b>7.5</b>  | 1544.324   | 1519.780    | 1513.321    | 1517.197    | 1511.384    |
| <b>8.0</b>  | 1541.095   | 1517.197    | 1510.092    | 1514.613    | 1508.800    |
| <b>8.5</b>  | 1538.511   | 1513.967    | 1506.862    | 1511.384    | 1505.571    |
| <b>9.0</b>  | 1535.282   | 1511.384    | 1504.279    | 1508.154    | 1502.341    |
| <b>9.5</b>  | 1532.052   | 1508.154    | 1500.403    | 1504.279    | 1499.112    |
| <b>10.0</b> | 1528.823   | 1504.925    | 1497.174    | 1501.049    | 1495.236    |
| <b>10.5</b> | 1524.947   | 1501.049    | 1493.299    | 1497.174    | 1492.007    |
| <b>11.0</b> | 1521.718   | 1497.174    | 1489.423    | 1493.299    | 1487.486    |
| <b>11.5</b> | 1517.197   | 1493.299    | 1485.548    | 1489.423    | 1483.610    |
| <b>12.0</b> | 1513.321   | 1489.423    | 1481.673    | 1484.902    | 1479.089    |
| <b>12.5</b> | 1509.446   | 1484.902    | 1477.151    | 1480.381    | 1474.568    |
| <b>13.0</b> | 1504.925   | 1481.027    | 1472.630    | 1475.860    | 1470.047    |
| <b>13.5</b> | 1500.403   | 1475.860    | 1468.109    | 1470.693    | 1465.525    |
| <b>14.0</b> | 1495.882   | 1471.338    | 1462.942    | 1466.171    | 1461.004    |
| <b>14.5</b> | 1491.361   | 1466.817    | 1457.775    | 1461.004    | 1455.837    |
| <b>15.0</b> | 1486.840   | 1461.650    | 1452.608    | 1455.837    | 1450.670    |
| <b>15.5</b> | 1481.027   | 1457.129    | 1447.440    | 1450.024    | 1444.857    |
| <b>16.0</b> | 1474.568   | 1451.962    | 1441.627    | 1444.857    | 1439.690    |
| <b>16.5</b> | 1468.109   | 1446.149    | 1435.814    | 1439.044    | 1433.877    |
| <b>17.0</b> | 1462.296   | 1440.336    | 1430.001    | 1433.231    | 1428.064    |
| <b>17.5</b> | 1455.837   | 1433.877    | 1423.543    | 1426.772    | 1421.605    |
| <b>18.0</b> | 1449.378   | 1427.418    | 1417.084    | 1420.313    | 1415.146    |
| <b>18.5</b> | 1442.919   | 1420.959    | 1410.625    | 1413.208    | 1408.687    |
| <b>19.0</b> | 1436.460   | 1414.500    | 1404.812    | 1406.749    | 1400.936    |
| <b>19.5</b> | 1429.356   | 1408.041    | 1398.353    | 1398.999    | 1393.186    |
| <b>20.0</b> | 1422.897   | 1400.936    | 1392.540    | 1391.894    | 1385.435    |
| <b>20.5</b> | 1415.792   | 1394.477    | 1386.081    | 1384.143    | 1377.684    |
| <b>21.0</b> | 1408.687   | 1387.373    | 1378.976    | 1376.393    | 1369.288    |
| <b>21.5</b> | 1400.936   | 1380.268    | 1371.225    | 1368.642    | 1360.891    |
| <b>22.0</b> | 1393.832   | 1372.517    | 1362.829    | 1360.245    | 1353.140    |
| <b>22.5</b> | 1386.081   | 1364.767    | 1355.078    | 1351.849    | 1344.744    |
| <b>23.0</b> | 1378.330   | 1357.016    | 1347.327    | 1342.806    | 1336.347    |
| <b>23.5</b> | 1370.580   | 1349.265    | 1338.931    | 1334.410    | 1328.597    |
| <b>24.0</b> | 1362.183   | 1341.514    | 1331.180    | 1326.013    | 1320.200    |
| <b>24.5</b> | 1353.786   | 1333.118    | 1322.784    | 1317.617    | 1311.803    |
| <b>25.0</b> | 1346.036   | 1324.721    | 1314.387    | 1309.220    | 1303.407    |
| <b>25.5</b> | 1337.639   | 1316.325    | 1305.345    | 1300.823    | 1294.364    |
| <b>26.0</b> | 1328.597   | 1307.282    | 1296.948    | 1292.427    | 1285.968    |
| <b>26.5</b> | 1320.200   | 1298.886    | 1287.906    | 1284.030    | 1277.571    |

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|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1311.158 | 1289.843 | 1278.863 | 1275.634 | 1268.529 |
| 27.5 | 1302.115 | 1280.801 | 1270.466 | 1267.237 | 1260.132 |
| 28.0 | 1293.073 | 1271.112 | 1260.778 | 1258.195 | 1251.090 |
| 28.5 | 1283.384 | 1261.424 | 1251.736 | 1249.798 | 1242.047 |
| 29.0 | 1273.696 | 1252.382 | 1242.693 | 1240.756 | 1233.005 |
| 29.5 | 1264.653 | 1242.693 | 1233.651 | 1231.067 | 1224.608 |
| 30.0 | 1254.965 | 1233.005 | 1224.608 | 1222.025 | 1215.566 |
| 30.5 | 1245.277 | 1223.316 | 1214.920 | 1212.982 | 1206.523 |
| 31.0 | 1234.943 | 1214.274 | 1205.232 | 1203.294 | 1197.481 |
| 31.5 | 1225.254 | 1204.586 | 1195.543 | 1193.606 | 1187.793 |
| 32.0 | 1214.920 | 1194.251 | 1185.855 | 1183.271 | 1178.104 |
| 32.5 | 1204.586 | 1184.563 | 1176.166 | 1173.583 | 1167.770 |
| 33.0 | 1194.251 | 1174.875 | 1166.478 | 1163.895 | 1157.436 |
| 33.5 | 1184.563 | 1164.540 | 1156.144 | 1153.560 | 1147.747 |
| 34.0 | 1173.583 | 1154.206 | 1146.456 | 1143.226 | 1137.413 |
| 34.5 | 1163.249 | 1143.872 | 1135.475 | 1132.892 | 1126.433 |
| 35.0 | 1152.914 | 1134.184 | 1125.141 | 1122.558 | 1115.453 |
| 35.5 | 1141.934 | 1123.203 | 1114.807 | 1112.223 | 1104.473 |
| 36.0 | 1130.954 | 1112.869 | 1104.473 | 1101.243 | 1094.138 |
| 36.5 | 1120.620 | 1102.535 | 1094.138 | 1090.909 | 1083.804 |
| 37.0 | 1109.640 | 1091.555 | 1083.158 | 1079.929 | 1072.824 |
| 37.5 | 1098.660 | 1080.575 | 1072.824 | 1068.949 | 1062.490 |
| 38.0 | 1087.034 | 1069.595 | 1061.844 | 1057.969 | 1051.510 |
| 38.5 | 1076.053 | 1058.614 | 1050.864 | 1047.634 | 1040.530 |
| 39.0 | 1065.719 | 1047.634 | 1039.884 | 1036.654 | 1030.195 |
| 39.5 | 1054.093 | 1036.654 | 1029.549 | 1025.674 | 1018.569 |
| 40.0 | 1043.113 | 1025.028 | 1018.569 | 1014.694 | 1008.235 |
| 40.5 | 1031.487 | 1014.048 | 1007.589 | 1003.714 | 997.255  |
| 41.0 | 1020.507 | 1002.422 | 996.609  | 992.088  | 985.629  |
| 41.5 | 1008.881 | 991.442  | 984.983  | 981.108  | 974.003  |
| 42.0 | 997.901  | 979.816  | 974.003  | 970.127  | 963.023  |
| 42.5 | 986.921  | 968.836  | 963.023  | 958.501  | 952.043  |
| 43.0 | 975.295  | 957.856  | 952.043  | 947.521  | 940.416  |
| 43.5 | 964.314  | 946.229  | 940.416  | 936.541  | 929.436  |
| 44.0 | 952.688  | 934.603  | 928.790  | 924.915  | 918.456  |
| 44.5 | 941.062  | 922.977  | 917.164  | 913.289  | 906.830  |
| 45.0 | 929.436  | 911.997  | 906.184  | 901.663  | 895.850  |
| 45.5 | 918.456  | 900.371  | 894.558  | 890.683  | 884.870  |
| 46.0 | 906.830  | 888.745  | 882.932  | 879.057  | 873.890  |
| 46.5 | 895.204  | 877.119  | 871.952  | 868.077  | 862.910  |
| 47.0 | 883.578  | 865.493  | 860.326  | 856.451  | 851.284  |
| 47.5 | 871.306  | 853.867  | 848.700  | 844.825  | 840.303  |
| 48.0 | 859.680  | 842.241  | 837.074  | 833.845  | 828.677  |
| 48.5 | 848.054  | 830.615  | 826.094  | 822.219  | 817.051  |
| 49.0 | 835.782  | 818.989  | 814.468  | 810.593  | 806.071  |
| 49.5 | 824.156  | 807.363  | 802.842  | 799.612  | 795.091  |
| 50.0 | 811.884  | 795.737  | 791.216  | 787.986  | 783.465  |
| 50.5 | 799.612  | 784.111  | 779.590  | 776.360  | 772.485  |
| 51.0 | 787.340  | 772.485  | 767.964  | 764.734  | 760.859  |
| 51.5 | 775.714  | 760.859  | 756.338  | 753.754  | 749.233  |
| 52.0 | 764.088  | 749.233  | 744.712  | 742.128  | 738.253  |
| 52.5 | 751.816  | 737.607  | 733.086  | 731.148  | 726.627  |
| 53.0 | 740.190  | 725.981  | 721.460  | 719.522  | 715.001  |
| 53.5 | 727.919  | 714.355  | 709.834  | 707.896  | 703.375  |
| 54.0 | 716.293  | 702.729  | 698.853  | 696.916  | 691.749  |
| 54.5 | 704.666  | 691.749  | 687.227  | 685.290  | 680.123  |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 693.040 | 680.769 | 676.247 | 674.310 | 669.142 |
| 55.5 | 682.060 | 669.142 | 664.621 | 662.684 | 658.162 |
| 56.0 | 669.788 | 657.516 | 652.995 | 651.703 | 646.536 |
| 56.5 | 658.162 | 646.536 | 641.692 | 640.271 | 635.169 |
| 57.0 | 647.182 | 634.910 | 630.260 | 628.710 | 623.866 |
| 57.5 | 635.815 | 623.672 | 618.892 | 617.471 | 612.433 |
| 58.0 | 624.447 | 612.562 | 607.460 | 606.168 | 601.130 |
| 58.5 | 613.015 | 601.389 | 596.221 | 595.059 | 590.279 |
| 59.0 | 601.776 | 590.150 | 584.918 | 583.820 | 579.235 |
| 59.5 | 590.861 | 578.782 | 573.421 | 572.646 | 568.319 |
| 60.0 | 579.687 | 567.479 | 562.054 | 561.408 | 557.210 |
| 60.5 | 568.642 | 556.435 | 551.074 | 550.105 | 545.971 |
| 61.0 | 557.791 | 545.390 | 540.158 | 539.060 | 534.991 |
| 61.5 | 546.165 | 534.474 | 529.307 | 528.080 | 524.140 |
| 62.0 | 534.733 | 523.236 | 518.069 | 517.164 | 513.031 |
| 62.5 | 523.042 | 512.837 | 507.476 | 506.766 | 502.503 |
| 63.0 | 511.804 | 503.665 | 499.338 | 499.015 | 495.527 |
| 63.5 | 500.436 | 493.654 | 490.231 | 489.520 | 485.903 |
| 64.0 | 493.590 | 483.901 | 480.801 | 479.380 | 475.246 |
| 64.5 | 482.932 | 473.502 | 470.144 | 468.852 | 464.977 |
| 65.0 | 470.983 | 462.393 | 459.616 | 458.388 | 454.642 |
| 65.5 | 458.776 | 451.155 | 448.636 | 448.054 | 444.243 |
| 66.0 | 447.021 | 440.174 | 437.914 | 437.655 | 433.586 |
| 66.5 | 435.395 | 428.936 | 426.998 | 426.998 | 423.381 |
| 67.0 | 423.898 | 417.762 | 416.212 | 416.406 | 413.112 |
| 67.5 | 412.595 | 406.782 | 405.361 | 405.748 | 402.519 |
| 68.0 | 401.163 | 395.802 | 394.510 | 395.027 | 391.668 |
| 68.5 | 389.666 | 384.628 | 383.594 | 384.305 | 381.011 |
| 69.0 | 377.781 | 373.389 | 372.614 | 373.002 | 369.966 |
| 69.5 | 366.220 | 362.345 | 361.440 | 361.892 | 359.115 |
| 70.0 | 354.788 | 351.171 | 350.525 | 350.719 | 348.264 |
| 70.5 | 343.549 | 339.932 | 339.480 | 339.674 | 337.349 |
| 71.0 | 332.052 | 328.758 | 328.629 | 328.887 | 326.368 |
| 71.5 | 320.555 | 317.584 | 317.843 | 318.036 | 315.840 |
| 72.0 | 309.382 | 306.346 | 306.863 | 307.121 | 305.248 |
| 72.5 | 298.208 | 295.301 | 296.141 | 296.399 | 294.849 |
| 73.0 | 287.163 | 284.515 | 285.677 | 286.000 | 284.644 |
| 73.5 | 276.441 | 273.858 | 275.214 | 275.795 | 274.310 |
| 74.0 | 265.849 | 263.200 | 264.880 | 265.332 | 264.363 |
| 74.5 | 255.256 | 252.737 | 254.610 | 255.062 | 254.352 |
| 75.0 | 244.599 | 242.338 | 244.470 | 244.922 | 244.340 |
| 75.5 | 234.071 | 231.939 | 234.394 | 234.975 | 234.329 |
| 76.0 | 223.414 | 221.928 | 224.447 | 225.093 | 224.576 |
| 76.5 | 213.338 | 212.046 | 214.565 | 215.275 | 214.823 |
| 77.0 | 203.520 | 202.099 | 204.876 | 205.522 | 204.812 |
| 77.5 | 193.380 | 192.411 | 195.188 | 195.705 | 194.994 |
| 78.0 | 183.497 | 182.722 | 185.500 | 186.275 | 185.564 |
| 78.5 | 173.680 | 173.292 | 175.941 | 176.845 | 176.264 |
| 79.0 | 164.250 | 163.862 | 166.575 | 167.673 | 167.221 |
| 79.5 | 154.820 | 154.626 | 157.339 | 158.501 | 158.114 |
| 80.0 | 145.519 | 145.584 | 148.103 | 149.717 | 149.201 |
| 80.5 | 136.154 | 136.735 | 139.319 | 140.869 | 140.481 |
| 81.0 | 127.176 | 128.080 | 130.599 | 132.214 | 131.955 |
| 81.5 | 118.521 | 119.490 | 122.073 | 123.688 | 123.494 |
| 82.0 | 110.447 | 111.093 | 113.741 | 115.421 | 115.227 |
| 82.5 | 102.374 | 102.955 | 105.538 | 107.218 | 107.089 |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 94.300  | 95.204  | 97.465  | 99.209  | 99.338  |
| 83.5  | 86.356  | 87.454  | 89.650  | 91.329  | 91.716  |
| 84.0  | 78.928  | 79.832  | 81.899  | 83.514  | 84.095  |
| 84.5  | 71.371  | 72.340  | 74.277  | 75.892  | 76.473  |
| 85.0  | 64.331  | 65.106  | 66.914  | 68.335  | 68.852  |
| 85.5  | 57.484  | 57.872  | 59.422  | 60.907  | 61.424  |
| 86.0  | 50.767  | 50.896  | 52.253  | 53.609  | 54.255  |
| 86.5  | 44.114  | 44.114  | 45.342  | 46.569  | 47.150  |
| 87.0  | 37.397  | 37.397  | 38.301  | 39.851  | 40.304  |
| 87.5  | 30.744  | 30.809  | 31.649  | 33.199  | 33.780  |
| 88.0  | 24.415  | 24.350  | 25.190  | 26.869  | 27.515  |
| 88.5  | 18.343  | 17.956  | 19.054  | 20.539  | 21.444  |
| 89.0  | 11.884  | 11.691  | 13.176  | 14.597  | 15.566  |
| 89.5  | 5.490   | 6.523   | 7.880   | 8.978   | 9.301   |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 3.987   | 2.101   | 1.939   | 1.886   | 2.047   |
| 91.0  | 8.781   | 4.633   | 3.771   | 3.717   | 3.663   |
| 91.5  | 14.115  | 9.428   | 5.603   | 5.549   | 5.495   |
| 92.0  | 19.502  | 15.677  | 8.081   | 7.219   | 7.219   |
| 92.5  | 25.105  | 22.142  | 12.499  | 9.051   | 8.889   |
| 93.0  | 30.923  | 28.337  | 17.670  | 12.014  | 10.828  |
| 93.5  | 36.795  | 34.263  | 23.219  | 16.216  | 14.115  |
| 94.0  | 42.560  | 40.082  | 29.361  | 21.226  | 18.586  |
| 94.5  | 48.486  | 45.900  | 35.772  | 26.398  | 23.435  |
| 95.0  | 54.304  | 51.880  | 42.075  | 31.677  | 28.230  |
| 95.5  | 60.122  | 57.483  | 48.216  | 37.119  | 33.294  |
| 96.0  | 65.671  | 63.193  | 54.250  | 42.775  | 38.465  |
| 96.5  | 71.274  | 68.904  | 60.284  | 48.540  | 43.799  |
| 97.0  | 76.715  | 74.507  | 66.264  | 54.304  | 49.456  |
| 97.5  | 82.318  | 80.163  | 72.298  | 60.176  | 55.112  |
| 98.0  | 87.867  | 85.712  | 78.170  | 65.995  | 60.823  |
| 98.5  | 93.416  | 91.315  | 83.827  | 71.921  | 66.533  |
| 99.0  | 99.073  | 97.079  | 89.591  | 77.577  | 72.298  |
| 99.5  | 104.783 | 102.790 | 95.409  | 83.234  | 77.954  |
| 100.0 | 110.386 | 108.554 | 101.228 | 89.052  | 83.503  |
| 100.5 | 116.204 | 114.319 | 107.046 | 95.086  | 89.106  |
| 101.0 | 122.184 | 120.083 | 112.972 | 101.174 | 95.194  |
| 101.5 | 128.272 | 125.955 | 119.006 | 107.261 | 101.497 |
| 102.0 | 134.198 | 132.043 | 125.039 | 113.349 | 107.746 |
| 102.5 | 140.393 | 138.077 | 131.289 | 119.437 | 113.942 |
| 103.0 | 146.750 | 144.326 | 137.484 | 125.470 | 120.245 |
| 103.5 | 153.107 | 150.683 | 144.057 | 131.935 | 126.494 |
| 104.0 | 159.626 | 157.094 | 150.737 | 138.616 | 133.013 |
| 104.5 | 166.360 | 163.774 | 157.417 | 145.457 | 139.531 |
| 105.0 | 173.256 | 170.616 | 164.044 | 152.192 | 146.158 |
| 105.5 | 180.313 | 177.566 | 170.885 | 158.980 | 152.730 |
| 106.0 | 187.478 | 184.569 | 177.835 | 165.875 | 159.303 |
| 106.5 | 194.697 | 191.788 | 185.108 | 172.825 | 165.929 |
| 107.0 | 202.401 | 199.330 | 192.866 | 180.206 | 173.148 |
| 107.5 | 210.374 | 207.088 | 200.731 | 188.017 | 180.960 |
| 108.0 | 218.294 | 215.061 | 208.758 | 196.475 | 188.987 |
| 108.5 | 226.644 | 223.196 | 216.785 | 204.933 | 197.283 |
| 109.0 | 235.210 | 231.493 | 225.028 | 213.499 | 205.688 |
| 109.5 | 243.991 | 240.112 | 233.702 | 222.011 | 214.199 |
| 110.0 | 253.365 | 248.948 | 242.591 | 230.739 | 223.089 |
| 110.5 | 262.955 | 257.998 | 251.695 | 240.112 | 232.301 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 272.652  | 267.480  | 261.123  | 249.863  | 241.567  |
| 111.5 | 282.564  | 277.231  | 270.712  | 259.776  | 251.103  |
| 112.0 | 292.854  | 287.251  | 280.248  | 269.689  | 260.207  |
| 112.5 | 303.198  | 297.541  | 289.891  | 279.548  | 269.850  |
| 113.0 | 314.026  | 308.154  | 300.073  | 289.730  | 279.925  |
| 113.5 | 325.178  | 319.252  | 310.848  | 300.720  | 290.753  |
| 114.0 | 336.491  | 330.565  | 322.269  | 312.410  | 302.767  |
| 114.5 | 348.182  | 342.256  | 333.906  | 324.585  | 315.535  |
| 115.0 | 360.034  | 354.270  | 345.973  | 336.869  | 328.464  |
| 115.5 | 372.425  | 366.391  | 358.364  | 349.098  | 341.232  |
| 116.0 | 384.923  | 378.997  | 371.186  | 361.973  | 354.216  |
| 116.5 | 398.122  | 391.927  | 384.438  | 375.172  | 368.061  |
| 117.0 | 411.860  | 405.126  | 397.799  | 389.395  | 382.337  |
| 117.5 | 421.988  | 415.416  | 410.028  | 402.486  | 396.829  |
| 118.0 | 434.918  | 427.429  | 422.581  | 416.008  | 409.705  |
| 118.5 | 449.948  | 441.759  | 435.402  | 428.561  | 421.288  |
| 119.0 | 464.656  | 455.874  | 449.948  | 442.783  | 434.163  |
| 119.5 | 479.525  | 470.905  | 465.356  | 457.221  | 448.601  |
| 120.0 | 494.878  | 486.474  | 480.817  | 473.006  | 463.847  |
| 120.5 | 510.124  | 502.259  | 496.764  | 489.760  | 480.117  |
| 121.0 | 526.125  | 518.367  | 512.818  | 506.461  | 497.410  |
| 121.5 | 541.963  | 534.313  | 528.818  | 523.377  | 514.327  |
| 122.0 | 558.664  | 550.583  | 545.735  | 540.347  | 531.297  |
| 122.5 | 574.826  | 566.745  | 562.435  | 557.048  | 547.351  |
| 123.0 | 591.527  | 583.984  | 579.675  | 575.365  | 565.129  |
| 123.5 | 608.766  | 601.224  | 597.991  | 593.682  | 583.446  |
| 124.0 | 626.006  | 619.002  | 615.770  | 611.999  | 602.301  |
| 124.5 | 643.245  | 636.241  | 633.548  | 629.777  | 620.618  |
| 125.0 | 660.484  | 653.481  | 650.787  | 647.555  | 638.396  |
| 125.5 | 678.262  | 671.259  | 668.565  | 665.333  | 655.636  |
| 126.0 | 695.502  | 688.498  | 686.882  | 683.111  | 672.875  |
| 126.5 | 712.741  | 705.738  | 705.199  | 701.967  | 691.192  |
| 127.0 | 730.519  | 723.516  | 723.516  | 720.822  | 710.586  |
| 127.5 | 748.297  | 740.755  | 740.755  | 739.139  | 729.981  |
| 128.0 | 765.537  | 757.995  | 758.533  | 757.456  | 748.297  |
| 128.5 | 782.776  | 774.695  | 775.773  | 775.773  | 766.076  |
| 129.0 | 800.016  | 791.396  | 793.012  | 793.551  | 784.392  |
| 129.5 | 817.255  | 808.635  | 810.790  | 811.868  | 803.248  |
| 130.0 | 834.494  | 825.875  | 828.568  | 830.185  | 823.181  |
| 130.5 | 851.734  | 842.575  | 846.885  | 847.963  | 842.037  |
| 131.0 | 868.973  | 859.276  | 864.125  | 865.202  | 859.276  |
| 131.5 | 885.135  | 875.438  | 881.364  | 881.364  | 875.977  |
| 132.0 | 901.836  | 891.600  | 898.065  | 898.603  | 892.139  |
| 132.5 | 917.998  | 908.301  | 914.765  | 915.304  | 908.301  |
| 133.0 | 934.160  | 925.001  | 930.927  | 932.005  | 923.924  |
| 133.5 | 950.322  | 941.163  | 947.628  | 948.705  | 940.624  |
| 134.0 | 966.484  | 956.786  | 963.251  | 964.867  | 956.786  |
| 134.5 | 981.029  | 972.410  | 978.336  | 979.413  | 972.410  |
| 135.0 | 995.575  | 987.494  | 992.881  | 993.959  | 986.417  |
| 135.5 | 1009.582 | 1003.117 | 1007.427 | 1007.966 | 1000.424 |
| 136.0 | 1023.589 | 1017.663 | 1020.895 | 1022.512 | 1014.969 |
| 136.5 | 1038.135 | 1031.670 | 1034.364 | 1037.057 | 1030.054 |
| 137.0 | 1051.603 | 1045.677 | 1048.371 | 1050.526 | 1044.061 |
| 137.5 | 1065.071 | 1058.607 | 1061.300 | 1062.916 | 1056.452 |
| 138.0 | 1078.001 | 1071.536 | 1073.691 | 1074.769 | 1068.304 |
| 138.5 | 1090.930 | 1083.927 | 1086.082 | 1086.621 | 1079.617 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1103.321 | 1096.318 | 1098.473 | 1098.473 | 1090.930 |
| 139.5 | 1115.712 | 1108.709 | 1110.325 | 1109.786 | 1101.705 |
| 140.0 | 1127.564 | 1120.022 | 1122.177 | 1121.638 | 1113.557 |
| 140.5 | 1138.878 | 1130.797 | 1132.951 | 1132.413 | 1123.793 |
| 141.0 | 1150.191 | 1142.110 | 1143.726 | 1142.649 | 1134.029 |
| 141.5 | 1160.427 | 1152.346 | 1154.501 | 1152.885 | 1143.187 |
| 142.0 | 1171.201 | 1163.120 | 1164.737 | 1162.582 | 1152.885 |
| 142.5 | 1181.437 | 1173.356 | 1174.972 | 1172.818 | 1162.043 |
| 143.0 | 1191.673 | 1183.053 | 1184.670 | 1182.515 | 1171.740 |
| 143.5 | 1201.370 | 1193.289 | 1194.367 | 1192.212 | 1180.899 |
| 144.0 | 1210.529 | 1202.986 | 1203.525 | 1200.832 | 1189.518 |
| 144.5 | 1219.687 | 1212.145 | 1212.684 | 1209.451 | 1198.138 |
| 145.0 | 1228.307 | 1221.303 | 1221.303 | 1217.532 | 1206.219 |
| 145.5 | 1237.465 | 1230.462 | 1229.923 | 1226.691 | 1214.839 |
| 146.0 | 1246.085 | 1239.081 | 1238.543 | 1234.772 | 1223.458 |
| 146.5 | 1254.705 | 1247.701 | 1246.624 | 1243.391 | 1232.078 |
| 147.0 | 1262.786 | 1256.321 | 1254.166 | 1252.011 | 1240.698 |
| 147.5 | 1270.867 | 1264.402 | 1262.247 | 1260.092 | 1248.779 |
| 148.0 | 1278.948 | 1272.483 | 1269.250 | 1267.634 | 1257.398 |
| 148.5 | 1287.029 | 1280.564 | 1276.254 | 1275.176 | 1266.018 |
| 149.0 | 1294.571 | 1288.645 | 1283.257 | 1282.719 | 1274.638 |
| 149.5 | 1302.113 | 1296.187 | 1289.722 | 1290.261 | 1282.719 |
| 150.0 | 1309.655 | 1303.729 | 1296.726 | 1297.264 | 1290.261 |
| 150.5 | 1317.197 | 1311.271 | 1303.190 | 1303.729 | 1297.803 |
| 151.0 | 1324.201 | 1318.275 | 1309.655 | 1310.194 | 1304.807 |
| 151.5 | 1331.743 | 1325.278 | 1316.659 | 1316.659 | 1311.271 |
| 152.0 | 1338.747 | 1332.282 | 1323.124 | 1322.585 | 1317.736 |
| 152.5 | 1345.750 | 1338.747 | 1329.588 | 1329.050 | 1323.662 |
| 153.0 | 1352.754 | 1345.212 | 1336.053 | 1335.514 | 1329.050 |
| 153.5 | 1359.219 | 1351.676 | 1342.518 | 1341.979 | 1333.898 |
| 154.0 | 1365.683 | 1358.141 | 1349.521 | 1348.444 | 1339.285 |
| 154.5 | 1372.687 | 1364.067 | 1355.986 | 1354.370 | 1344.673 |
| 155.0 | 1379.152 | 1369.993 | 1362.451 | 1360.835 | 1350.599 |
| 155.5 | 1385.078 | 1375.380 | 1368.916 | 1367.299 | 1356.525 |
| 156.0 | 1391.004 | 1381.306 | 1375.919 | 1373.226 | 1362.451 |
| 156.5 | 1396.930 | 1387.233 | 1382.384 | 1379.690 | 1368.377 |
| 157.0 | 1402.856 | 1393.159 | 1388.849 | 1386.155 | 1374.303 |
| 157.5 | 1408.243 | 1398.546 | 1394.775 | 1392.081 | 1380.229 |
| 158.0 | 1413.630 | 1403.933 | 1400.701 | 1398.007 | 1386.155 |
| 158.5 | 1419.556 | 1409.859 | 1406.627 | 1403.933 | 1392.620 |
| 159.0 | 1424.405 | 1415.247 | 1412.014 | 1409.859 | 1398.546 |
| 159.5 | 1429.792 | 1420.634 | 1417.401 | 1415.785 | 1404.472 |
| 160.0 | 1434.641 | 1425.482 | 1422.789 | 1421.173 | 1410.398 |
| 160.5 | 1439.489 | 1430.331 | 1427.637 | 1426.560 | 1416.324 |
| 161.0 | 1444.338 | 1435.180 | 1432.486 | 1431.947 | 1422.250 |
| 161.5 | 1449.187 | 1440.567 | 1436.796 | 1437.335 | 1428.176 |
| 162.0 | 1454.574 | 1445.415 | 1441.106 | 1442.722 | 1433.563 |
| 162.5 | 1459.422 | 1450.264 | 1445.415 | 1447.570 | 1438.412 |
| 163.0 | 1464.271 | 1455.113 | 1449.725 | 1452.419 | 1443.261 |
| 163.5 | 1469.120 | 1459.422 | 1454.035 | 1457.268 | 1447.570 |
| 164.0 | 1473.968 | 1463.732 | 1457.806 | 1461.577 | 1451.880 |
| 164.5 | 1477.739 | 1468.042 | 1461.577 | 1465.887 | 1456.190 |
| 165.0 | 1482.049 | 1472.352 | 1465.349 | 1470.197 | 1459.961 |
| 165.5 | 1486.359 | 1476.123 | 1469.120 | 1473.968 | 1463.732 |
| 166.0 | 1490.669 | 1479.894 | 1472.891 | 1477.739 | 1466.965 |
| 166.5 | 1494.979 | 1483.665 | 1476.662 | 1480.972 | 1470.736 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1498.750 | 1486.898 | 1479.894 | 1484.204 | 1473.968 |
| 167.5 | 1502.521 | 1490.130 | 1483.665 | 1487.437 | 1477.739 |
| 168.0 | 1506.292 | 1493.363 | 1486.898 | 1490.669 | 1480.972 |
| 168.5 | 1510.063 | 1496.595 | 1490.130 | 1493.901 | 1484.743 |
| 169.0 | 1513.296 | 1499.289 | 1493.363 | 1496.595 | 1487.975 |
| 169.5 | 1515.989 | 1501.982 | 1496.056 | 1499.289 | 1491.208 |
| 170.0 | 1518.683 | 1504.676 | 1498.750 | 1501.982 | 1494.979 |
| 170.5 | 1521.377 | 1507.370 | 1500.905 | 1504.676 | 1497.672 |
| 171.0 | 1524.070 | 1509.524 | 1503.060 | 1507.370 | 1500.366 |
| 171.5 | 1526.225 | 1511.679 | 1505.215 | 1510.063 | 1503.060 |
| 172.0 | 1528.380 | 1513.834 | 1506.831 | 1512.218 | 1505.215 |
| 172.5 | 1530.535 | 1515.989 | 1508.447 | 1513.834 | 1506.831 |
| 173.0 | 1532.690 | 1518.144 | 1510.063 | 1515.989 | 1507.908 |
| 173.5 | 1534.306 | 1519.760 | 1511.679 | 1517.067 | 1508.986 |
| 174.0 | 1535.922 | 1521.377 | 1513.296 | 1518.144 | 1509.524 |
| 174.5 | 1537.000 | 1522.454 | 1514.373 | 1519.222 | 1510.063 |
| 175.0 | 1538.077 | 1524.070 | 1515.451 | 1519.760 | 1510.063 |
| 175.5 | 1539.155 | 1525.148 | 1517.067 | 1520.299 | 1510.602 |
| 176.0 | 1540.232 | 1526.225 | 1518.144 | 1520.299 | 1510.602 |
| 176.5 | 1540.771 | 1527.303 | 1518.683 | 1520.838 | 1510.602 |
| 177.0 | 1541.310 | 1528.380 | 1519.760 | 1520.838 | 1510.063 |
| 177.5 | 1542.387 | 1529.458 | 1520.838 | 1520.838 | 1510.063 |
| 178.0 | 1542.926 | 1529.458 | 1521.377 | 1520.838 | 1510.602 |
| 178.5 | 1542.926 | 1529.996 | 1521.915 | 1520.838 | 1510.602 |
| 179.0 | 1543.465 | 1530.535 | 1521.915 | 1520.838 | 1510.602 |
| 179.5 | 1544.003 | 1530.535 | 1522.454 | 1520.838 | 1510.602 |
| 180.0 | 1525.148 | 1525.148 | 1525.148 | 1525.148 | 1525.148 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 556.49  | N.A.  | 7.10   |
| 0-30    | 1163.44 | N.A.  | 14.90  |
| 0-40    | 1869.08 | N.A.  | 23.90  |
| 0-60    | 3175.99 | N.A.  | 40.60  |
| 0-80    | 3889.35 | N.A.  | 49.70  |
| 0-90    | 3964.73 | N.A.  | 50.70  |
| 10-90   | 3819.47 | N.A.  | 48.80  |
| 20-40   | 1312.59 | N.A.  | 16.80  |
| 20-50   | 2013.08 | N.A.  | 25.70  |
| 40-70   | 1761.1  | N.A.  | 22.50  |
| 60-80   | 713.37  | N.A.  | 9.10   |
| 70-80   | 259.17  | N.A.  | 3.30   |
| 80-90   | 75.38   | N.A.  | 1.00   |
| 90-110  | 220.72  | N.A.  | 2.80   |
| 90-120  | 566.60  | N.A.  | 7.20   |
| 90-130  | 1147.83 | N.A.  | 14.70  |
| 90-150  | 2669.77 | N.A.  | 34.10  |
| 90-180  | 3858.52 | N.A.  | 49.30  |
| 110-180 | 3637.8  | N.A.  | 46.50  |
| 0-180   | 7823.25 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 145.26 |
| 10-20   | 411.24 |
| 20-30   | 606.94 |
| 30-40   | 705.64 |
| 40-50   | 700.49 |
| 50-60   | 606.42 |
| 60-70   | 454.19 |
| 70-80   | 259.17 |
| 80-90   | 75.38  |
| 90-100  | 47.61  |
| 100-110 | 173.11 |
| 110-120 | 345.88 |
| 120-130 | 581.24 |
| 130-140 | 760.02 |
| 140-150 | 761.92 |
| 150-160 | 629.38 |
| 160-170 | 414.74 |
| 170-180 | 144.63 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-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 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1  | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 73 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2  | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 36 |
| 3  | 81  | 72  | 64  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 34 | 30 |
| 4  | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 30 | 26 |
| 5  | 68  | 57  | 49  | 43  | 63 | 53 | 45 | 40 | 45 | 39 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 23 |
| 6  | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 29 | 25 | 23 | 20 |
| 7  | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8  | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 |
| 9  | 50  | 38  | 31  | 25  | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 | 13 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-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 | 16.1 | 17.0 | 17.1 | 18.0 | 19.2 | 16.0 | 16.9 | 17.0 | 17.9 | 19.1 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 17.9 | 18.7 | 18.8 | 19.6 | 20.9 | 17.8 | 18.6 | 18.7 | 19.5 | 20.8 |
|      | 4H   | 18.5 | 19.2 | 19.5 | 20.2 | 21.5 | 18.4 | 19.2 | 19.4 | 20.1 | 21.4 |
|      | 6H   | 18.9 | 19.6 | 19.9 | 20.6 | 21.9 | 18.9 | 19.6 | 19.9 | 20.5 | 21.8 |
|      | 8H   | 19.1 | 19.7 | 20.0 | 20.7 | 22.0 | 19.0 | 19.7 | 20.0 | 20.7 | 22.0 |
|      | 12H  | 19.1 | 19.8 | 20.1 | 20.7 | 22.1 | 19.1 | 19.7 | 20.1 | 20.7 | 22.1 |

### UGR Viewed Endwise

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 16.7 | 17.4 | 17.6 | 18.4 | 19.7 | 16.6 | 17.3 | 17.5 | 18.3 | 19.6 |
|    | 3H  | 18.6 | 19.2 | 19.6 | 20.2 | 21.5 | 18.5 | 19.2 | 19.5 | 20.2 | 21.5 |
|    | 4H  | 19.4 | 19.9 | 20.3 | 20.9 | 22.2 | 19.3 | 19.9 | 20.3 | 20.9 | 22.2 |
|    | 6H  | 19.9 | 20.4 | 20.9 | 21.4 | 22.7 | 19.9 | 20.4 | 20.9 | 21.4 | 22.7 |
|    | 8H  | 20.1 | 20.5 | 21.1 | 21.6 | 22.9 | 20.1 | 20.5 | 21.1 | 21.6 | 22.9 |
|    | 12H | 20.2 | 20.6 | 21.2 | 21.6 | 23.0 | 20.2 | 20.6 | 21.3 | 21.7 | 23.0 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 19.6 | 20.1 | 20.6 | 21.1 | 22.4 | 19.6 | 20.0 | 20.6 | 21.0 | 22.4 |
|    | 6H  | 20.3 | 20.7 | 21.3 | 21.7 | 23.1 | 20.3 | 20.7 | 21.3 | 21.7 | 23.0 |
|    | 8H  | 20.6 | 20.9 | 21.6 | 21.9 | 23.3 | 20.6 | 20.9 | 21.6 | 21.9 | 23.3 |
|    | 12H | 20.7 | 21.0 | 21.8 | 22.1 | 23.5 | 20.8 | 21.1 | 21.8 | 22.1 | 23.5 |

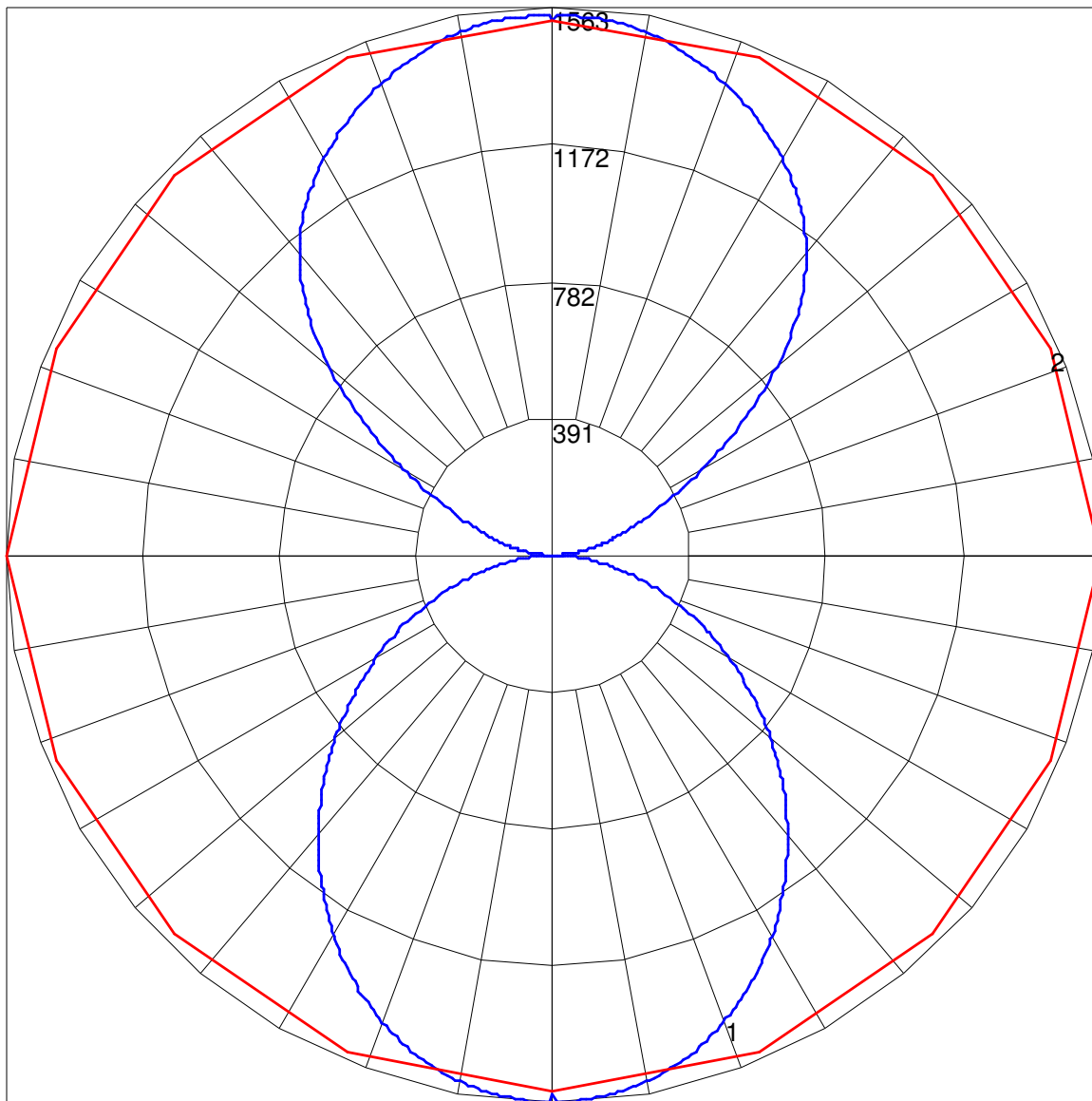
|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 19.6 | 20.0 | 20.6 | 21.0 | 22.4 | 19.5 | 20.0 | 20.6 | 21.0 | 22.3 |
|     | 6H | 20.3 | 20.7 | 21.4 | 21.7 | 23.1 | 20.3 | 20.7 | 21.4 | 21.7 | 23.1 |
|     | 8H | 20.6 | 20.9 | 21.7 | 22.0 | 23.4 | 20.6 | 20.9 | 21.7 | 22.0 | 23.4 |

Maximum UGR = 23.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1563.055 Located At Horizontal Angle = 0, Vertical Angle = .5

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

# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)