

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-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] MX4UDC-4-00-L12-840U-L8-840D-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                | 8495            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 124             |
| Total Luminaire Watts           | 68.4            |
| 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                  | 11558            | 11269             | 11141             |
| 55                  | 10625            | 10368             | 10259             |
| 65                  | 9800             | 9563              | 9460              |
| 75                  | 8310             | 8306              | 8302              |
| 85                  | 6491             | 6751              | 6947              |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 1677.129   | 1677.129    | 1677.129    | 1677.129    | 1677.129    |
| 0.5  | 1702.455   | 1678.536    | 1670.094    | 1673.612    | 1667.984    |
| 1.0  | 1702.455   | 1677.833    | 1670.094    | 1673.612    | 1667.984    |
| 1.5  | 1701.752   | 1677.129    | 1669.391    | 1673.612    | 1667.280    |
| 2.0  | 1701.048   | 1676.426    | 1668.687    | 1672.908    | 1667.280    |
| 2.5  | 1700.345   | 1675.722    | 1667.280    | 1672.205    | 1666.577    |
| 3.0  | 1698.938   | 1674.315    | 1666.577    | 1671.501    | 1665.170    |
| 3.5  | 1697.531   | 1672.908    | 1665.170    | 1670.094    | 1663.763    |
| 4.0  | 1696.124   | 1671.501    | 1663.763    | 1668.687    | 1662.356    |
| 4.5  | 1694.717   | 1669.391    | 1662.356    | 1667.280    | 1660.245    |
| 5.0  | 1693.310   | 1667.984    | 1660.245    | 1665.170    | 1658.135    |
| 5.5  | 1691.199   | 1665.873    | 1658.135    | 1663.059    | 1656.024    |
| 6.0  | 1689.089   | 1663.059    | 1656.024    | 1660.949    | 1653.210    |
| 6.5  | 1686.275   | 1660.949    | 1653.210    | 1658.135    | 1651.100    |
| 7.0  | 1684.164   | 1658.135    | 1651.100    | 1655.321    | 1648.286    |
| 7.5  | 1682.054   | 1655.321    | 1648.286    | 1652.507    | 1646.176    |
| 8.0  | 1678.536   | 1652.507    | 1644.769    | 1649.693    | 1643.362    |
| 8.5  | 1675.722   | 1648.989    | 1641.251    | 1646.176    | 1639.844    |
| 9.0  | 1672.205   | 1646.176    | 1638.437    | 1642.658    | 1636.327    |
| 9.5  | 1668.687   | 1642.658    | 1634.216    | 1638.437    | 1632.809    |
| 10.0 | 1665.170   | 1639.141    | 1630.699    | 1634.920    | 1628.588    |
| 10.5 | 1660.949   | 1634.920    | 1626.478    | 1630.699    | 1625.071    |
| 11.0 | 1657.431   | 1630.699    | 1622.257    | 1626.478    | 1620.146    |
| 11.5 | 1652.507   | 1626.478    | 1618.036    | 1622.257    | 1615.925    |
| 12.0 | 1648.286   | 1622.257    | 1613.815    | 1617.332    | 1611.001    |
| 12.5 | 1644.065   | 1617.332    | 1608.890    | 1612.408    | 1606.076    |
| 13.0 | 1639.141   | 1613.111    | 1603.966    | 1607.483    | 1601.152    |
| 13.5 | 1634.216   | 1607.483    | 1599.041    | 1601.855    | 1596.227    |
| 14.0 | 1629.292   | 1602.559    | 1593.413    | 1596.931    | 1591.303    |
| 14.5 | 1624.367   | 1597.634    | 1587.786    | 1591.303    | 1585.675    |
| 15.0 | 1619.443   | 1592.006    | 1582.158    | 1585.675    | 1580.047    |
| 15.5 | 1613.111   | 1587.082    | 1576.530    | 1579.344    | 1573.716    |
| 16.0 | 1606.076   | 1581.454    | 1570.198    | 1573.716    | 1568.088    |
| 16.5 | 1599.041   | 1575.123    | 1563.867    | 1567.384    | 1561.756    |
| 17.0 | 1592.710   | 1568.791    | 1557.535    | 1561.053    | 1555.425    |
| 17.5 | 1585.675   | 1561.756    | 1550.500    | 1554.018    | 1548.390    |
| 18.0 | 1578.640   | 1554.721    | 1543.465    | 1546.983    | 1541.355    |
| 18.5 | 1571.605   | 1547.686    | 1536.430    | 1539.244    | 1534.320    |
| 19.0 | 1564.570   | 1540.651    | 1530.099    | 1532.210    | 1525.878    |
| 19.5 | 1556.832   | 1533.616    | 1523.064    | 1523.768    | 1517.436    |
| 20.0 | 1549.797   | 1525.878    | 1516.733    | 1516.029    | 1508.994    |
| 20.5 | 1542.058   | 1518.843    | 1509.698    | 1507.587    | 1500.552    |
| 21.0 | 1534.320   | 1511.105    | 1501.959    | 1499.145    | 1491.407    |
| 21.5 | 1525.878   | 1503.366    | 1493.517    | 1490.703    | 1482.261    |
| 22.0 | 1518.140   | 1494.924    | 1484.372    | 1481.558    | 1473.820    |
| 22.5 | 1509.698   | 1486.482    | 1475.930    | 1472.413    | 1464.674    |
| 23.0 | 1501.256   | 1478.040    | 1467.488    | 1462.564    | 1455.529    |
| 23.5 | 1492.814   | 1469.599    | 1458.343    | 1453.418    | 1447.087    |
| 24.0 | 1483.668   | 1461.157    | 1449.901    | 1444.273    | 1437.941    |
| 24.5 | 1474.523   | 1452.011    | 1440.755    | 1435.127    | 1428.796    |
| 25.0 | 1466.081   | 1442.866    | 1431.610    | 1425.982    | 1419.650    |
| 25.5 | 1456.936   | 1433.720    | 1421.761    | 1416.837    | 1409.802    |
| 26.0 | 1447.087   | 1423.871    | 1412.616    | 1407.691    | 1400.656    |
| 26.5 | 1437.941   | 1414.726    | 1402.767    | 1398.546    | 1391.511    |

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|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1428.092 | 1404.877 | 1392.918 | 1389.400 | 1381.662 |
| 27.5 | 1418.244 | 1395.028 | 1383.772 | 1380.255 | 1372.516 |
| 28.0 | 1408.395 | 1384.476 | 1373.220 | 1370.406 | 1362.668 |
| 28.5 | 1397.842 | 1373.923 | 1363.371 | 1361.261 | 1352.819 |
| 29.0 | 1387.290 | 1364.074 | 1353.522 | 1351.412 | 1342.970 |
| 29.5 | 1377.441 | 1353.522 | 1343.673 | 1340.859 | 1333.824 |
| 30.0 | 1366.888 | 1342.970 | 1333.824 | 1331.010 | 1323.975 |
| 30.5 | 1356.336 | 1332.417 | 1323.272 | 1321.161 | 1314.126 |
| 31.0 | 1345.080 | 1322.568 | 1312.719 | 1310.609 | 1304.278 |
| 31.5 | 1334.528 | 1312.016 | 1302.167 | 1300.057 | 1293.725 |
| 32.0 | 1323.272 | 1300.760 | 1291.615 | 1288.801 | 1283.173 |
| 32.5 | 1312.016 | 1290.208 | 1281.062 | 1278.248 | 1271.917 |
| 33.0 | 1300.760 | 1279.655 | 1270.510 | 1267.696 | 1260.661 |
| 33.5 | 1290.208 | 1268.399 | 1259.254 | 1256.440 | 1250.108 |
| 34.0 | 1278.248 | 1257.143 | 1248.702 | 1245.184 | 1238.853 |
| 34.5 | 1266.992 | 1245.888 | 1236.742 | 1233.928 | 1226.893 |
| 35.0 | 1255.736 | 1235.335 | 1225.486 | 1222.672 | 1214.934 |
| 35.5 | 1243.777 | 1223.376 | 1214.230 | 1211.416 | 1202.974 |
| 36.0 | 1231.818 | 1212.120 | 1202.974 | 1199.457 | 1191.719 |
| 36.5 | 1220.562 | 1200.864 | 1191.719 | 1188.201 | 1180.463 |
| 37.0 | 1208.602 | 1188.905 | 1179.759 | 1176.242 | 1168.503 |
| 37.5 | 1196.643 | 1176.945 | 1168.503 | 1164.282 | 1157.247 |
| 38.0 | 1183.980 | 1164.986 | 1156.544 | 1152.323 | 1145.288 |
| 38.5 | 1172.021 | 1153.026 | 1144.584 | 1141.067 | 1133.329 |
| 39.0 | 1160.765 | 1141.067 | 1132.625 | 1129.108 | 1122.073 |
| 39.5 | 1148.102 | 1129.108 | 1121.369 | 1117.148 | 1109.410 |
| 40.0 | 1136.142 | 1116.445 | 1109.410 | 1105.189 | 1098.154 |
| 40.5 | 1123.480 | 1104.485 | 1097.450 | 1093.229 | 1086.194 |
| 41.0 | 1111.520 | 1091.822 | 1085.491 | 1080.566 | 1073.532 |
| 41.5 | 1098.857 | 1079.863 | 1072.828 | 1068.607 | 1060.869 |
| 42.0 | 1086.898 | 1067.200 | 1060.869 | 1056.648 | 1048.909 |
| 42.5 | 1074.939 | 1055.241 | 1048.909 | 1043.985 | 1036.950 |
| 43.0 | 1062.276 | 1043.281 | 1036.950 | 1032.025 | 1024.287 |
| 43.5 | 1050.316 | 1030.618 | 1024.287 | 1020.066 | 1012.328 |
| 44.0 | 1037.653 | 1017.956 | 1011.624 | 1007.403 | 1000.368 |
| 44.5 | 1024.990 | 1005.293 | 998.961  | 994.740  | 987.705  |
| 45.0 | 1012.328 | 993.333  | 987.002  | 982.077  | 975.746  |
| 45.5 | 1000.368 | 980.670  | 974.339  | 970.118  | 963.787  |
| 46.0 | 987.705  | 968.007  | 961.676  | 957.455  | 951.827  |
| 46.5 | 975.042  | 955.345  | 949.717  | 945.496  | 939.868  |
| 47.0 | 962.380  | 942.682  | 937.054  | 932.833  | 927.205  |
| 47.5 | 949.013  | 930.019  | 924.391  | 920.170  | 915.245  |
| 48.0 | 936.350  | 917.356  | 911.728  | 908.211  | 902.583  |
| 48.5 | 923.687  | 904.693  | 899.769  | 895.548  | 889.920  |
| 49.0 | 910.321  | 892.030  | 887.106  | 882.885  | 877.960  |
| 49.5 | 897.658  | 879.367  | 874.443  | 870.925  | 866.001  |
| 50.0 | 884.292  | 866.704  | 861.780  | 858.262  | 853.338  |
| 50.5 | 870.925  | 854.041  | 849.117  | 845.600  | 841.379  |
| 51.0 | 857.559  | 841.379  | 836.454  | 832.937  | 828.716  |
| 51.5 | 844.896  | 828.716  | 823.791  | 820.977  | 816.053  |
| 52.0 | 832.233  | 816.053  | 811.128  | 808.314  | 804.093  |
| 52.5 | 818.867  | 803.390  | 798.465  | 796.355  | 791.431  |
| 53.0 | 806.204  | 790.727  | 785.803  | 783.692  | 778.768  |
| 53.5 | 792.838  | 778.064  | 773.140  | 771.029  | 766.105  |
| 54.0 | 780.175  | 765.401  | 761.180  | 759.070  | 753.442  |
| 54.5 | 767.512  | 753.442  | 748.517  | 746.407  | 740.779  |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 754.849 | 741.482 | 736.558 | 734.448 | 728.820 |
| 55.5 | 742.889 | 728.820 | 723.895 | 721.785 | 716.860 |
| 56.0 | 729.523 | 716.157 | 711.232 | 709.825 | 704.197 |
| 56.5 | 716.860 | 704.197 | 698.921 | 697.373 | 691.816 |
| 57.0 | 704.901 | 691.534 | 686.469 | 684.781 | 679.505 |
| 57.5 | 692.519 | 679.294 | 674.088 | 672.540 | 667.053 |
| 58.0 | 680.138 | 667.194 | 661.636 | 660.229 | 654.742 |
| 58.5 | 667.686 | 655.023 | 649.395 | 648.129 | 642.923 |
| 59.0 | 655.445 | 642.782 | 637.084 | 635.888 | 630.893 |
| 59.5 | 643.556 | 630.401 | 624.562 | 623.718 | 619.004 |
| 60.0 | 631.386 | 618.090 | 612.180 | 611.477 | 606.904 |
| 60.5 | 619.356 | 606.060 | 600.221 | 599.166 | 594.663 |
| 61.0 | 607.537 | 594.030 | 588.332 | 587.136 | 582.704 |
| 61.5 | 594.874 | 582.141 | 576.513 | 575.177 | 570.885 |
| 62.0 | 582.423 | 569.900 | 564.272 | 563.287 | 558.785 |
| 62.5 | 569.689 | 558.574 | 552.735 | 551.961 | 547.318 |
| 63.0 | 557.448 | 548.584 | 543.871 | 543.519 | 539.720 |
| 63.5 | 545.067 | 537.680 | 533.952 | 533.178 | 529.238 |
| 64.0 | 537.610 | 527.058 | 523.681 | 522.133 | 517.631 |
| 64.5 | 526.002 | 515.731 | 512.073 | 510.666 | 506.445 |
| 65.0 | 512.988 | 503.631 | 500.606 | 499.270 | 495.189 |
| 65.5 | 499.692 | 491.390 | 488.647 | 488.014 | 483.863 |
| 66.0 | 486.888 | 479.431 | 476.969 | 476.687 | 472.255 |
| 66.5 | 474.225 | 467.190 | 465.080 | 465.080 | 461.140 |
| 67.0 | 461.703 | 455.020 | 453.331 | 453.542 | 449.955 |
| 67.5 | 449.392 | 443.060 | 441.513 | 441.935 | 438.417 |
| 68.0 | 436.940 | 431.101 | 429.694 | 430.257 | 426.599 |
| 68.5 | 424.418 | 418.931 | 417.805 | 418.579 | 414.991 |
| 69.0 | 411.474 | 406.690 | 405.846 | 406.268 | 402.961 |
| 69.5 | 398.881 | 394.660 | 393.675 | 394.168 | 391.143 |
| 70.0 | 386.429 | 382.490 | 381.786 | 381.997 | 379.324 |
| 70.5 | 374.188 | 370.249 | 369.756 | 369.967 | 367.435 |
| 71.0 | 361.666 | 358.078 | 357.938 | 358.219 | 355.475 |
| 71.5 | 349.144 | 345.908 | 346.189 | 346.400 | 344.008 |
| 72.0 | 336.974 | 333.667 | 334.230 | 334.511 | 332.471 |
| 72.5 | 324.803 | 321.637 | 322.552 | 322.833 | 321.145 |
| 73.0 | 312.773 | 309.889 | 311.155 | 311.507 | 310.030 |
| 73.5 | 301.095 | 298.281 | 299.759 | 300.392 | 298.774 |
| 74.0 | 289.558 | 286.674 | 288.503 | 288.995 | 287.940 |
| 74.5 | 278.021 | 275.277 | 277.317 | 277.810 | 277.036 |
| 75.0 | 266.413 | 263.951 | 266.272 | 266.765 | 266.132 |
| 75.5 | 254.946 | 252.625 | 255.298 | 255.931 | 255.228 |
| 76.0 | 243.339 | 241.720 | 244.464 | 245.168 | 244.605 |
| 76.5 | 232.364 | 230.957 | 233.701 | 234.474 | 233.982 |
| 77.0 | 221.671 | 220.123 | 223.148 | 223.852 | 223.078 |
| 77.5 | 210.626 | 209.571 | 212.596 | 213.159 | 212.385 |
| 78.0 | 199.863 | 199.018 | 202.043 | 202.888 | 202.114 |
| 78.5 | 189.170 | 188.747 | 191.632 | 192.617 | 191.983 |
| 79.0 | 178.898 | 178.476 | 181.431 | 182.627 | 182.135 |
| 79.5 | 168.627 | 168.416 | 171.371 | 172.637 | 172.215 |
| 80.0 | 158.497 | 158.567 | 161.311 | 163.070 | 162.507 |
| 80.5 | 148.296 | 148.930 | 151.744 | 153.432 | 153.010 |
| 81.0 | 138.518 | 139.503 | 142.246 | 144.005 | 143.724 |
| 81.5 | 129.091 | 130.146 | 132.960 | 134.719 | 134.508 |
| 82.0 | 120.297 | 121.001 | 123.885 | 125.714 | 125.503 |
| 82.5 | 111.504 | 112.137 | 114.951 | 116.780 | 116.639 |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 102.710 | 103.695 | 106.157 | 108.057 | 108.197 |
| 83.5  | 94.057  | 95.253  | 97.645  | 99.474  | 99.896  |
| 84.0  | 85.967  | 86.952  | 89.203  | 90.962  | 91.595  |
| 84.5  | 77.736  | 78.791  | 80.902  | 82.661  | 83.294  |
| 85.0  | 70.068  | 70.912  | 72.882  | 74.430  | 74.992  |
| 85.5  | 62.611  | 63.033  | 64.721  | 66.339  | 66.902  |
| 86.0  | 55.295  | 55.435  | 56.913  | 58.390  | 59.093  |
| 86.5  | 48.049  | 48.049  | 49.385  | 50.722  | 51.355  |
| 87.0  | 40.732  | 40.732  | 41.717  | 43.406  | 43.898  |
| 87.5  | 33.486  | 33.557  | 34.471  | 36.160  | 36.793  |
| 88.0  | 26.592  | 26.522  | 27.436  | 29.265  | 29.969  |
| 88.5  | 19.979  | 19.557  | 20.753  | 22.371  | 23.356  |
| 89.0  | 12.944  | 12.733  | 14.351  | 15.899  | 16.954  |
| 89.5  | 5.980   | 7.105   | 8.583   | 9.779   | 10.130  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 4.315   | 2.274   | 2.099   | 2.041   | 2.216   |
| 91.0  | 9.506   | 5.015   | 4.082   | 4.024   | 3.966   |
| 91.5  | 15.279  | 10.206  | 6.065   | 6.007   | 5.948   |
| 92.0  | 21.111  | 16.970  | 8.748   | 7.815   | 7.815   |
| 92.5  | 27.176  | 23.968  | 13.530  | 9.797   | 9.622   |
| 93.0  | 33.474  | 30.675  | 19.128  | 13.005  | 11.722  |
| 93.5  | 39.831  | 37.090  | 25.135  | 17.553  | 15.279  |
| 94.0  | 46.071  | 43.388  | 31.783  | 22.977  | 20.119  |
| 94.5  | 52.485  | 49.686  | 38.723  | 28.575  | 25.368  |
| 95.0  | 58.784  | 56.159  | 45.546  | 34.290  | 30.558  |
| 95.5  | 65.082  | 62.224  | 52.194  | 40.181  | 36.040  |
| 96.0  | 71.089  | 68.406  | 58.725  | 46.304  | 41.638  |
| 96.5  | 77.154  | 74.588  | 65.257  | 52.544  | 47.412  |
| 97.0  | 83.044  | 80.653  | 71.730  | 58.784  | 53.535  |
| 97.5  | 89.109  | 86.776  | 78.262  | 65.140  | 59.658  |
| 98.0  | 95.115  | 92.783  | 84.618  | 71.439  | 65.840  |
| 98.5  | 101.122 | 98.848  | 90.742  | 77.853  | 72.022  |
| 99.0  | 107.245 | 105.088 | 96.981  | 83.977  | 78.262  |
| 99.5  | 113.427 | 111.269 | 103.280 | 90.100  | 84.385  |
| 100.0 | 119.492 | 117.509 | 109.578 | 96.398  | 90.392  |
| 100.5 | 125.790 | 123.749 | 115.876 | 102.930 | 96.457  |
| 101.0 | 132.263 | 129.989 | 122.291 | 109.520 | 103.046 |
| 101.5 | 138.853 | 136.346 | 128.823 | 116.109 | 109.870 |
| 102.0 | 145.268 | 142.935 | 135.354 | 122.699 | 116.634 |
| 102.5 | 151.975 | 149.467 | 142.119 | 129.289 | 123.341 |
| 103.0 | 158.856 | 156.232 | 148.825 | 135.821 | 130.164 |
| 103.5 | 165.737 | 163.113 | 155.940 | 142.819 | 136.929 |
| 104.0 | 172.794 | 170.053 | 163.171 | 150.050 | 143.985 |
| 104.5 | 180.083 | 177.284 | 170.403 | 157.456 | 151.041 |
| 105.0 | 187.548 | 184.690 | 177.576 | 164.746 | 158.214 |
| 105.5 | 195.188 | 192.213 | 184.982 | 172.094 | 165.329 |
| 106.0 | 202.944 | 199.795 | 192.505 | 179.559 | 172.444 |
| 106.5 | 210.758 | 207.609 | 200.378 | 187.081 | 179.617 |
| 107.0 | 219.098 | 215.774 | 208.775 | 195.071 | 187.431 |
| 107.5 | 227.729 | 224.171 | 217.290 | 203.527 | 195.887 |
| 108.0 | 236.301 | 232.802 | 225.979 | 212.683 | 204.577 |
| 108.5 | 245.340 | 241.608 | 234.668 | 221.839 | 213.557 |
| 109.0 | 254.613 | 250.589 | 243.591 | 231.111 | 222.655 |
| 109.5 | 264.118 | 259.920 | 252.980 | 240.325 | 231.869 |
| 110.0 | 274.266 | 269.484 | 262.602 | 249.772 | 241.491 |
| 110.5 | 284.646 | 279.281 | 272.458 | 259.920 | 251.464 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 295.143  | 289.545  | 282.663  | 270.475  | 261.494  |
| 111.5 | 305.874  | 300.100  | 293.044  | 281.205  | 271.816  |
| 112.0 | 317.012  | 310.947  | 303.366  | 291.936  | 281.672  |
| 112.5 | 328.209  | 322.086  | 313.805  | 302.608  | 292.111  |
| 113.0 | 339.931  | 333.574  | 324.827  | 313.630  | 303.016  |
| 113.5 | 352.002  | 345.588  | 336.490  | 325.526  | 314.738  |
| 114.0 | 364.249  | 357.834  | 348.853  | 338.181  | 327.743  |
| 114.5 | 376.904  | 370.489  | 361.450  | 351.361  | 341.564  |
| 115.0 | 389.734  | 383.494  | 374.513  | 364.657  | 355.560  |
| 115.5 | 403.147  | 396.615  | 387.926  | 377.895  | 369.381  |
| 116.0 | 416.676  | 410.261  | 401.805  | 391.833  | 383.435  |
| 116.5 | 430.964  | 424.257  | 416.151  | 406.121  | 398.423  |
| 117.0 | 445.835  | 438.545  | 430.614  | 421.517  | 413.877  |
| 117.5 | 456.798  | 449.684  | 443.852  | 435.688  | 429.564  |
| 118.0 | 470.795  | 462.688  | 457.440  | 450.325  | 443.502  |
| 118.5 | 487.065  | 478.201  | 471.319  | 463.913  | 456.040  |
| 119.0 | 502.986  | 493.480  | 487.065  | 479.309  | 469.978  |
| 119.5 | 519.081  | 509.750  | 503.744  | 494.938  | 485.607  |
| 120.0 | 535.702  | 526.604  | 520.481  | 512.025  | 502.111  |
| 120.5 | 552.205  | 543.691  | 537.743  | 530.161  | 519.723  |
| 121.0 | 569.526  | 561.128  | 555.121  | 548.240  | 538.442  |
| 121.5 | 586.671  | 578.390  | 572.441  | 566.551  | 556.754  |
| 122.0 | 604.749  | 596.002  | 590.753  | 584.921  | 575.124  |
| 122.5 | 622.244  | 613.497  | 608.831  | 603.000  | 592.502  |
| 123.0 | 640.323  | 632.158  | 627.493  | 622.827  | 611.747  |
| 123.5 | 658.984  | 650.820  | 647.321  | 642.655  | 631.575  |
| 124.0 | 677.646  | 670.064  | 666.565  | 662.483  | 651.986  |
| 124.5 | 696.307  | 688.726  | 685.810  | 681.728  | 671.814  |
| 125.0 | 714.969  | 707.387  | 704.471  | 700.972  | 691.059  |
| 125.5 | 734.213  | 726.632  | 723.716  | 720.217  | 709.720  |
| 126.0 | 752.875  | 745.293  | 743.544  | 739.462  | 728.382  |
| 126.5 | 771.536  | 763.955  | 763.372  | 759.873  | 748.209  |
| 127.0 | 790.781  | 783.200  | 783.200  | 780.284  | 769.204  |
| 127.5 | 810.026  | 801.861  | 801.861  | 800.112  | 790.198  |
| 128.0 | 828.687  | 820.523  | 821.106  | 819.939  | 810.026  |
| 128.5 | 847.349  | 838.601  | 839.767  | 839.767  | 829.270  |
| 129.0 | 866.010  | 856.679  | 858.429  | 859.012  | 849.098  |
| 129.5 | 884.672  | 875.341  | 877.673  | 878.840  | 869.509  |
| 130.0 | 903.333  | 894.002  | 896.918  | 898.668  | 891.086  |
| 130.5 | 921.995  | 912.081  | 916.746  | 917.912  | 911.497  |
| 131.0 | 940.656  | 930.159  | 935.407  | 936.574  | 930.159  |
| 131.5 | 958.151  | 947.654  | 954.069  | 954.069  | 948.237  |
| 132.0 | 976.230  | 965.149  | 972.147  | 972.730  | 965.732  |
| 132.5 | 993.725  | 983.228  | 990.226  | 990.809  | 983.228  |
| 133.0 | 1011.220 | 1001.306 | 1007.721 | 1008.887 | 1000.140 |
| 133.5 | 1028.715 | 1018.801 | 1025.799 | 1026.965 | 1018.218 |
| 134.0 | 1046.210 | 1035.713 | 1042.711 | 1044.461 | 1035.713 |
| 134.5 | 1061.956 | 1052.625 | 1059.040 | 1060.206 | 1052.625 |
| 135.0 | 1077.701 | 1068.954 | 1074.786 | 1075.952 | 1067.787 |
| 135.5 | 1092.864 | 1085.866 | 1090.531 | 1091.114 | 1082.950 |
| 136.0 | 1108.026 | 1101.611 | 1105.110 | 1106.860 | 1098.696 |
| 136.5 | 1123.772 | 1116.774 | 1119.690 | 1122.606 | 1115.024 |
| 137.0 | 1138.351 | 1131.936 | 1134.852 | 1137.185 | 1130.187 |
| 137.5 | 1152.931 | 1145.932 | 1148.848 | 1150.598 | 1143.600 |
| 138.0 | 1166.927 | 1159.929 | 1162.261 | 1163.428 | 1156.430 |
| 138.5 | 1180.923 | 1173.342 | 1175.674 | 1176.257 | 1168.676 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1194.336 | 1186.755 | 1189.087 | 1189.087 | 1180.923 |
| 139.5 | 1207.749 | 1200.167 | 1201.917 | 1201.334 | 1192.586 |
| 140.0 | 1220.578 | 1212.414 | 1214.747 | 1214.164 | 1205.416 |
| 140.5 | 1232.825 | 1224.078 | 1226.410 | 1225.827 | 1216.496 |
| 141.0 | 1245.072 | 1236.324 | 1238.074 | 1236.907 | 1227.577 |
| 141.5 | 1256.152 | 1247.404 | 1249.737 | 1247.988 | 1237.490 |
| 142.0 | 1267.815 | 1259.068 | 1260.817 | 1258.485 | 1247.988 |
| 142.5 | 1278.896 | 1270.148 | 1271.898 | 1269.565 | 1257.901 |
| 143.0 | 1289.976 | 1280.645 | 1282.395 | 1280.062 | 1268.399 |
| 143.5 | 1300.473 | 1291.725 | 1292.892 | 1290.559 | 1278.312 |
| 144.0 | 1310.387 | 1302.223 | 1302.806 | 1299.890 | 1287.643 |
| 144.5 | 1320.301 | 1312.136 | 1312.720 | 1309.221 | 1296.974 |
| 145.0 | 1329.632 | 1322.050 | 1322.050 | 1317.968 | 1305.722 |
| 145.5 | 1339.546 | 1331.964 | 1331.381 | 1327.882 | 1315.052 |
| 146.0 | 1348.876 | 1341.295 | 1340.712 | 1336.630 | 1324.383 |
| 146.5 | 1358.207 | 1350.626 | 1349.459 | 1345.960 | 1333.714 |
| 147.0 | 1366.955 | 1359.957 | 1357.624 | 1355.291 | 1343.045 |
| 147.5 | 1375.702 | 1368.704 | 1366.371 | 1364.039 | 1351.792 |
| 148.0 | 1384.450 | 1377.452 | 1373.953 | 1372.203 | 1361.123 |
| 148.5 | 1393.197 | 1386.199 | 1381.534 | 1380.368 | 1370.454 |
| 149.0 | 1401.362 | 1394.947 | 1389.115 | 1388.532 | 1379.784 |
| 149.5 | 1409.526 | 1403.111 | 1396.113 | 1396.696 | 1388.532 |
| 150.0 | 1417.691 | 1411.276 | 1403.694 | 1404.278 | 1396.696 |
| 150.5 | 1425.855 | 1419.440 | 1410.692 | 1411.276 | 1404.861 |
| 151.0 | 1433.436 | 1427.021 | 1417.691 | 1418.274 | 1412.442 |
| 151.5 | 1441.601 | 1434.603 | 1425.272 | 1425.272 | 1419.440 |
| 152.0 | 1449.182 | 1442.184 | 1432.270 | 1431.687 | 1426.438 |
| 152.5 | 1456.763 | 1449.182 | 1439.268 | 1438.685 | 1432.853 |
| 153.0 | 1464.344 | 1456.180 | 1446.266 | 1445.683 | 1438.685 |
| 153.5 | 1471.342 | 1463.178 | 1453.264 | 1452.681 | 1443.933 |
| 154.0 | 1478.340 | 1470.176 | 1460.845 | 1459.679 | 1449.765 |
| 154.5 | 1485.922 | 1476.591 | 1467.843 | 1466.094 | 1455.597 |
| 155.0 | 1492.920 | 1483.006 | 1474.841 | 1473.092 | 1462.012 |
| 155.5 | 1499.335 | 1488.837 | 1481.839 | 1480.090 | 1468.426 |
| 156.0 | 1505.749 | 1495.252 | 1489.421 | 1486.505 | 1474.841 |
| 156.5 | 1512.164 | 1501.667 | 1496.419 | 1493.503 | 1481.256 |
| 157.0 | 1518.579 | 1508.082 | 1503.417 | 1500.501 | 1487.671 |
| 157.5 | 1524.411 | 1513.914 | 1509.832 | 1506.916 | 1494.086 |
| 158.0 | 1530.243 | 1519.746 | 1516.247 | 1513.331 | 1500.501 |
| 158.5 | 1536.658 | 1526.160 | 1522.661 | 1519.746 | 1507.499 |
| 159.0 | 1541.906 | 1531.992 | 1528.493 | 1526.160 | 1513.914 |
| 159.5 | 1547.738 | 1537.824 | 1534.325 | 1532.575 | 1520.329 |
| 160.0 | 1552.986 | 1543.072 | 1540.157 | 1538.407 | 1526.744 |
| 160.5 | 1558.235 | 1548.321 | 1545.405 | 1544.239 | 1533.159 |
| 161.0 | 1563.483 | 1553.570 | 1550.654 | 1550.071 | 1539.573 |
| 161.5 | 1568.732 | 1559.401 | 1555.319 | 1555.902 | 1545.988 |
| 162.0 | 1574.564 | 1564.650 | 1559.984 | 1561.734 | 1551.820 |
| 162.5 | 1579.812 | 1569.898 | 1564.650 | 1566.982 | 1557.069 |
| 163.0 | 1585.061 | 1575.147 | 1569.315 | 1572.231 | 1562.317 |
| 163.5 | 1590.309 | 1579.812 | 1573.981 | 1577.480 | 1566.982 |
| 164.0 | 1595.558 | 1584.478 | 1578.063 | 1582.145 | 1571.648 |
| 164.5 | 1599.640 | 1589.143 | 1582.145 | 1586.810 | 1576.313 |
| 165.0 | 1604.305 | 1593.808 | 1586.227 | 1591.476 | 1580.395 |
| 165.5 | 1608.971 | 1597.891 | 1590.309 | 1595.558 | 1584.478 |
| 166.0 | 1613.636 | 1601.973 | 1594.392 | 1599.640 | 1587.977 |
| 166.5 | 1618.302 | 1606.055 | 1598.474 | 1603.139 | 1592.059 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1622.384 | 1609.554 | 1601.973 | 1606.638 | 1595.558 |
| 167.5 | 1626.466 | 1613.053 | 1606.055 | 1610.137 | 1599.640 |
| 168.0 | 1630.548 | 1616.552 | 1609.554 | 1613.636 | 1603.139 |
| 168.5 | 1634.630 | 1620.051 | 1613.053 | 1617.135 | 1607.221 |
| 169.0 | 1638.129 | 1622.967 | 1616.552 | 1620.051 | 1610.720 |
| 169.5 | 1641.045 | 1625.883 | 1619.468 | 1622.967 | 1614.219 |
| 170.0 | 1643.961 | 1628.799 | 1622.384 | 1625.883 | 1618.302 |
| 170.5 | 1646.877 | 1631.715 | 1624.716 | 1628.799 | 1621.217 |
| 171.0 | 1649.793 | 1634.047 | 1627.049 | 1631.715 | 1624.133 |
| 171.5 | 1652.126 | 1636.380 | 1629.382 | 1634.630 | 1627.049 |
| 172.0 | 1654.458 | 1638.713 | 1631.131 | 1636.963 | 1629.382 |
| 172.5 | 1656.791 | 1641.045 | 1632.881 | 1638.713 | 1631.131 |
| 173.0 | 1659.124 | 1643.378 | 1634.630 | 1641.045 | 1632.298 |
| 173.5 | 1660.873 | 1645.128 | 1636.380 | 1642.212 | 1633.464 |
| 174.0 | 1662.623 | 1646.877 | 1638.129 | 1643.378 | 1634.047 |
| 174.5 | 1663.789 | 1648.043 | 1639.296 | 1644.544 | 1634.630 |
| 175.0 | 1664.955 | 1649.793 | 1640.462 | 1645.128 | 1634.630 |
| 175.5 | 1666.122 | 1650.959 | 1642.212 | 1645.711 | 1635.214 |
| 176.0 | 1667.288 | 1652.126 | 1643.378 | 1645.711 | 1635.214 |
| 176.5 | 1667.871 | 1653.292 | 1643.961 | 1646.294 | 1635.214 |
| 177.0 | 1668.454 | 1654.458 | 1645.128 | 1646.294 | 1634.630 |
| 177.5 | 1669.621 | 1655.625 | 1646.294 | 1646.294 | 1634.630 |
| 178.0 | 1670.204 | 1655.625 | 1646.877 | 1646.294 | 1635.214 |
| 178.5 | 1670.204 | 1656.208 | 1647.460 | 1646.294 | 1635.214 |
| 179.0 | 1670.787 | 1656.791 | 1647.460 | 1646.294 | 1635.214 |
| 179.5 | 1671.370 | 1656.791 | 1648.043 | 1646.294 | 1635.214 |
| 180.0 | 1650.959 | 1650.959 | 1650.959 | 1650.959 | 1650.959 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 606.12  | N.A.  | 7.10   |
| 0-30    | 1267.2  | N.A.  | 14.90  |
| 0-40    | 2035.77 | N.A.  | 24.00  |
| 0-60    | 3459.24 | N.A.  | 40.70  |
| 0-80    | 4236.22 | N.A.  | 49.90  |
| 0-90    | 4318.32 | N.A.  | 50.80  |
| 10-90   | 4160.11 | N.A.  | 49.00  |
| 20-40   | 1429.65 | N.A.  | 16.80  |
| 20-50   | 2192.61 | N.A.  | 25.80  |
| 40-70   | 1918.16 | N.A.  | 22.60  |
| 60-80   | 776.99  | N.A.  | 9.10   |
| 70-80   | 282.29  | N.A.  | 3.30   |
| 80-90   | 82.10   | N.A.  | 1.00   |
| 90-110  | 238.92  | N.A.  | 2.80   |
| 90-120  | 613.34  | N.A.  | 7.20   |
| 90-130  | 1242.52 | N.A.  | 14.60  |
| 90-150  | 2890.00 | N.A.  | 34.00  |
| 90-180  | 4176.81 | N.A.  | 49.20  |
| 110-180 | 3937.89 | N.A.  | 46.40  |
| 0-180   | 8495.14 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 158.21 |
| 10-20   | 447.91 |
| 20-30   | 661.07 |
| 30-40   | 768.57 |
| 40-50   | 762.96 |
| 50-60   | 660.50 |
| 60-70   | 494.70 |
| 70-80   | 282.29 |
| 80-90   | 82.10  |
| 90-100  | 51.53  |
| 100-110 | 187.39 |
| 110-120 | 374.41 |
| 120-130 | 629.18 |
| 130-140 | 822.71 |
| 140-150 | 824.77 |
| 150-160 | 681.30 |
| 160-170 | 448.95 |
| 170-180 | 156.56 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-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 | 40 | 35 | 38 | 34 | 30 | 32 | 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  | 26  | 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 : MX4UDC-4-00-L12-840U-L8-840D-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 | 16.3 | 17.2 | 17.3 | 18.2 | 19.4 | UGR Viewed Endwise | 16.2 | 17.1 | 17.2 | 18.1 | 19.3 |
|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|
|      | 3H   | 18.1 | 18.9 | 19.1 | 19.9 | 21.1 |                    | 18.0 | 18.8 | 19.0 | 19.8 | 21.0 |
|      | 4H   | 18.7 | 19.5 | 19.7 | 20.4 | 21.7 |                    | 18.6 | 19.4 | 19.6 | 20.4 | 21.6 |
|      | 6H   | 19.1 | 19.8 | 20.1 | 20.8 | 22.1 |                    | 19.1 | 19.8 | 20.1 | 20.8 | 22.1 |
|      | 8H   | 19.3 | 19.9 | 20.3 | 20.9 | 22.2 |                    | 19.2 | 19.9 | 20.2 | 20.9 | 22.2 |
|      | 12H  | 19.4 | 20.0 | 20.4 | 21.0 | 22.3 |                    | 19.3 | 20.0 | 20.3 | 21.0 | 22.3 |

|    |     |      |      |      |      |      |  |      |      |      |      |      |
|----|-----|------|------|------|------|------|--|------|------|------|------|------|
| 4H | 2H  | 16.9 | 17.6 | 17.8 | 18.6 | 19.9 |  | 16.8 | 17.5 | 17.8 | 18.5 | 19.8 |
|    | 3H  | 18.8 | 19.5 | 19.8 | 20.5 | 21.8 |  | 18.8 | 19.4 | 19.8 | 20.4 | 21.7 |
|    | 4H  | 19.6 | 20.1 | 20.6 | 21.1 | 22.5 |  | 19.5 | 20.1 | 20.5 | 21.1 | 22.4 |
|    | 6H  | 20.1 | 20.6 | 21.1 | 21.6 | 23.0 |  | 20.1 | 20.6 | 21.1 | 21.6 | 22.9 |
|    | 8H  | 20.3 | 20.8 | 21.3 | 21.8 | 23.1 |  | 20.3 | 20.8 | 21.3 | 21.8 | 23.1 |
|    | 12H | 20.4 | 20.8 | 21.4 | 21.9 | 23.2 |  | 20.4 | 20.9 | 21.5 | 21.9 | 23.2 |

|    |     |      |      |      |      |      |  |      |      |      |      |      |
|----|-----|------|------|------|------|------|--|------|------|------|------|------|
| 8H | 4H  | 19.8 | 20.3 | 20.8 | 21.3 | 22.6 |  | 19.8 | 20.2 | 20.8 | 21.2 | 22.6 |
|    | 6H  | 20.5 | 20.9 | 21.5 | 21.9 | 23.3 |  | 20.5 | 20.9 | 21.5 | 21.9 | 23.3 |
|    | 8H  | 20.8 | 21.1 | 21.8 | 22.1 | 23.5 |  | 20.8 | 21.1 | 21.8 | 22.2 | 23.5 |
|    | 12H | 21.0 | 21.3 | 22.0 | 22.3 | 23.7 |  | 21.0 | 21.3 | 22.0 | 22.3 | 23.7 |

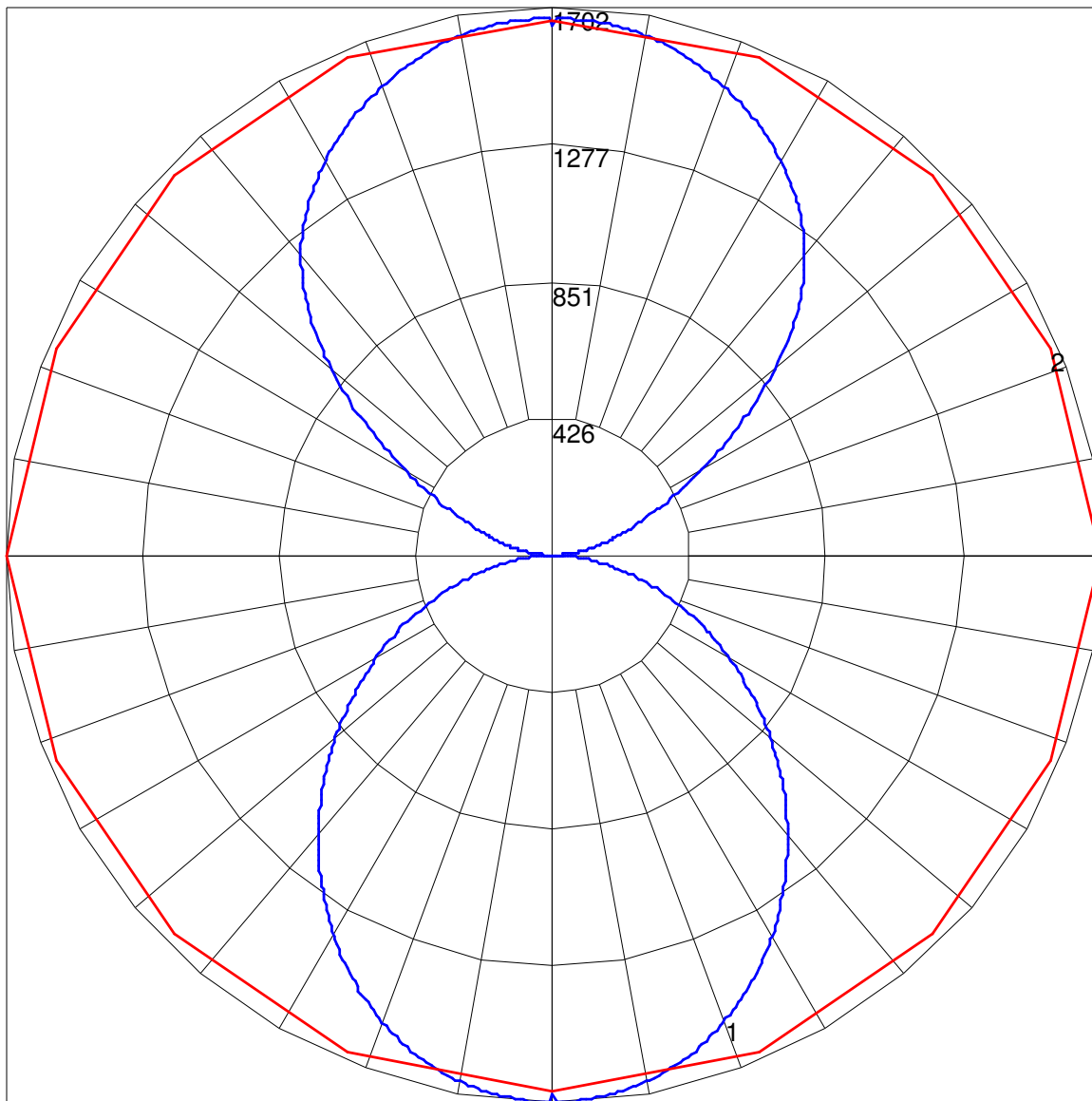
|     |    |      |      |      |      |      |  |      |      |      |      |      |
|-----|----|------|------|------|------|------|--|------|------|------|------|------|
| 12H | 4H | 19.8 | 20.2 | 20.8 | 21.3 | 22.6 |  | 19.8 | 20.2 | 20.8 | 21.2 | 22.6 |
|     | 6H | 20.6 | 20.9 | 21.6 | 21.9 | 23.3 |  | 20.5 | 20.9 | 21.6 | 21.9 | 23.3 |
|     | 8H | 20.8 | 21.1 | 21.9 | 22.2 | 23.6 |  | 20.9 | 21.2 | 21.9 | 22.2 | 23.6 |

Maximum UGR = 23.7

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1702.455 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.)