

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-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-L15-935U-L12-935D-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                | 9232            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 100             |
| 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                  | 12407            | 12096             | 11958             |
| 55                  | 11405            | 11128             | 11011             |
| 65                  | 10519            | 10265             | 10154             |
| 75                  | 8920             | 8915              | 8911              |
| 85                  | 6967             | 7247              | 7457              |

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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  | 1800.205   | 1800.205    | 1800.205    | 1800.205    | 1800.205    |
| 0.5  | 1827.389   | 1801.715    | 1792.653    | 1796.429    | 1790.388    |
| 1.0  | 1827.389   | 1800.960    | 1792.653    | 1796.429    | 1790.388    |
| 1.5  | 1826.634   | 1800.205    | 1791.898    | 1796.429    | 1789.633    |
| 2.0  | 1825.879   | 1799.449    | 1791.143    | 1795.674    | 1789.633    |
| 2.5  | 1825.124   | 1798.694    | 1789.633    | 1794.919    | 1788.878    |
| 3.0  | 1823.613   | 1797.184    | 1788.878    | 1794.164    | 1787.368    |
| 3.5  | 1822.103   | 1795.674    | 1787.368    | 1792.653    | 1785.857    |
| 4.0  | 1820.593   | 1794.164    | 1785.857    | 1791.143    | 1784.347    |
| 4.5  | 1819.083   | 1791.898    | 1784.347    | 1789.633    | 1782.082    |
| 5.0  | 1817.572   | 1790.388    | 1782.082    | 1787.368    | 1779.816    |
| 5.5  | 1815.307   | 1788.123    | 1779.816    | 1785.102    | 1777.551    |
| 6.0  | 1813.042   | 1785.102    | 1777.551    | 1782.837    | 1774.531    |
| 6.5  | 1810.021   | 1782.837    | 1774.531    | 1779.816    | 1772.265    |
| 7.0  | 1807.756   | 1779.816    | 1772.265    | 1776.796    | 1769.245    |
| 7.5  | 1805.490   | 1776.796    | 1769.245    | 1773.775    | 1766.979    |
| 8.0  | 1801.715   | 1773.775    | 1765.469    | 1770.755    | 1763.959    |
| 8.5  | 1798.694   | 1770.000    | 1761.694    | 1766.979    | 1760.183    |
| 9.0  | 1794.919   | 1766.979    | 1758.673    | 1763.204    | 1756.408    |
| 9.5  | 1791.143   | 1763.204    | 1754.142    | 1758.673    | 1752.632    |
| 10.0 | 1787.368   | 1759.428    | 1750.367    | 1754.897    | 1748.101    |
| 10.5 | 1782.837   | 1754.897    | 1745.836    | 1750.367    | 1744.326    |
| 11.0 | 1779.061   | 1750.367    | 1741.305    | 1745.836    | 1739.040    |
| 11.5 | 1773.775   | 1745.836    | 1736.775    | 1741.305    | 1734.509    |
| 12.0 | 1769.245   | 1741.305    | 1732.244    | 1736.019    | 1729.223    |
| 12.5 | 1764.714   | 1736.019    | 1726.958    | 1730.734    | 1723.938    |
| 13.0 | 1759.428   | 1731.489    | 1721.672    | 1725.448    | 1718.652    |
| 13.5 | 1754.142   | 1725.448    | 1716.386    | 1719.407    | 1713.366    |
| 14.0 | 1748.856   | 1720.162    | 1710.345    | 1714.121    | 1708.080    |
| 14.5 | 1743.571   | 1714.876    | 1704.304    | 1708.080    | 1702.039    |
| 15.0 | 1738.285   | 1708.835    | 1698.263    | 1702.039    | 1695.998    |
| 15.5 | 1731.489   | 1703.549    | 1692.223    | 1695.243    | 1689.202    |
| 16.0 | 1723.938   | 1697.508    | 1685.426    | 1689.202    | 1683.161    |
| 16.5 | 1716.386   | 1690.712    | 1678.630    | 1682.406    | 1676.365    |
| 17.0 | 1709.590   | 1683.916    | 1671.834    | 1675.610    | 1669.569    |
| 17.5 | 1702.039   | 1676.365    | 1664.283    | 1668.059    | 1662.018    |
| 18.0 | 1694.488   | 1668.814    | 1656.732    | 1660.508    | 1654.467    |
| 18.5 | 1686.937   | 1661.263    | 1649.181    | 1652.201    | 1646.915    |
| 19.0 | 1679.386   | 1653.711    | 1642.385    | 1644.650    | 1637.854    |
| 19.5 | 1671.079   | 1646.160    | 1634.833    | 1635.589    | 1628.793    |
| 20.0 | 1663.528   | 1637.854    | 1628.037    | 1627.282    | 1619.731    |
| 20.5 | 1655.222   | 1630.303    | 1620.486    | 1618.221    | 1610.670    |
| 21.0 | 1646.915   | 1621.996    | 1612.180    | 1609.159    | 1600.853    |
| 21.5 | 1637.854   | 1613.690    | 1603.118    | 1600.098    | 1591.037    |
| 22.0 | 1629.548   | 1604.629    | 1593.302    | 1590.281    | 1581.975    |
| 22.5 | 1620.486   | 1595.567    | 1584.240    | 1580.465    | 1572.159    |
| 23.0 | 1611.425   | 1586.506    | 1575.179    | 1569.893    | 1562.342    |
| 23.5 | 1602.363   | 1577.444    | 1565.362    | 1560.077    | 1553.281    |
| 24.0 | 1592.547   | 1568.383    | 1556.301    | 1550.260    | 1543.464    |
| 24.5 | 1582.730   | 1558.566    | 1546.484    | 1540.444    | 1533.647    |
| 25.0 | 1573.669   | 1548.750    | 1536.668    | 1530.627    | 1523.831    |
| 25.5 | 1563.852   | 1538.933    | 1526.096    | 1520.810    | 1513.259    |
| 26.0 | 1553.281   | 1528.362    | 1516.280    | 1510.994    | 1503.443    |
| 26.5 | 1543.464   | 1518.545    | 1505.708    | 1501.177    | 1493.626    |

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|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1532.892 | 1507.973 | 1495.136 | 1491.361 | 1483.054 |
| 27.5 | 1522.321 | 1497.402 | 1485.320 | 1481.544 | 1473.238 |
| 28.0 | 1511.749 | 1486.075 | 1473.993 | 1470.973 | 1462.666 |
| 28.5 | 1500.422 | 1474.748 | 1463.421 | 1461.156 | 1452.095 |
| 29.0 | 1489.095 | 1464.176 | 1452.850 | 1450.584 | 1441.523 |
| 29.5 | 1478.524 | 1452.850 | 1442.278 | 1439.258 | 1431.706 |
| 30.0 | 1467.197 | 1441.523 | 1431.706 | 1428.686 | 1421.135 |
| 30.5 | 1455.870 | 1430.196 | 1420.380 | 1418.114 | 1410.563 |
| 31.0 | 1443.788 | 1419.624 | 1409.053 | 1406.787 | 1399.991 |
| 31.5 | 1432.461 | 1408.298 | 1397.726 | 1395.461 | 1388.665 |
| 32.0 | 1420.380 | 1396.216 | 1386.399 | 1383.379 | 1377.338 |
| 32.5 | 1408.298 | 1384.889 | 1375.072 | 1372.052 | 1365.256 |
| 33.0 | 1396.216 | 1373.562 | 1363.746 | 1360.725 | 1353.174 |
| 33.5 | 1384.889 | 1361.480 | 1351.664 | 1348.643 | 1341.847 |
| 34.0 | 1372.052 | 1349.398 | 1340.337 | 1336.561 | 1329.765 |
| 34.5 | 1359.970 | 1337.316 | 1327.500 | 1324.479 | 1316.928 |
| 35.0 | 1347.888 | 1325.990 | 1315.418 | 1312.397 | 1304.091 |
| 35.5 | 1335.051 | 1313.153 | 1303.336 | 1300.316 | 1291.254 |
| 36.0 | 1322.214 | 1301.071 | 1291.254 | 1287.479 | 1279.172 |
| 36.5 | 1310.132 | 1288.989 | 1279.172 | 1275.397 | 1267.090 |
| 37.0 | 1297.295 | 1276.152 | 1266.335 | 1262.560 | 1254.253 |
| 37.5 | 1284.458 | 1263.315 | 1254.253 | 1249.723 | 1242.171 |
| 38.0 | 1270.866 | 1250.478 | 1241.416 | 1236.886 | 1229.334 |
| 38.5 | 1258.029 | 1237.641 | 1228.579 | 1224.804 | 1216.497 |
| 39.0 | 1245.947 | 1224.804 | 1215.742 | 1211.967 | 1204.415 |
| 39.5 | 1232.355 | 1211.967 | 1203.660 | 1199.130 | 1190.823 |
| 40.0 | 1219.518 | 1198.374 | 1190.823 | 1186.293 | 1178.741 |
| 40.5 | 1205.926 | 1185.537 | 1177.986 | 1173.456 | 1165.904 |
| 41.0 | 1193.089 | 1171.945 | 1165.149 | 1159.863 | 1152.312 |
| 41.5 | 1179.496 | 1159.108 | 1151.557 | 1147.026 | 1138.720 |
| 42.0 | 1166.659 | 1145.516 | 1138.720 | 1134.189 | 1125.883 |
| 42.5 | 1153.822 | 1132.679 | 1125.883 | 1120.597 | 1113.046 |
| 43.0 | 1140.230 | 1119.842 | 1113.046 | 1107.760 | 1099.454 |
| 43.5 | 1127.393 | 1106.250 | 1099.454 | 1094.923 | 1086.617 |
| 44.0 | 1113.801 | 1092.658 | 1085.862 | 1081.331 | 1073.780 |
| 44.5 | 1100.209 | 1079.066 | 1072.270 | 1067.739 | 1060.188 |
| 45.0 | 1086.617 | 1066.229 | 1059.432 | 1054.147 | 1047.351 |
| 45.5 | 1073.780 | 1052.636 | 1045.840 | 1041.310 | 1034.514 |
| 46.0 | 1060.188 | 1039.044 | 1032.248 | 1027.717 | 1021.677 |
| 46.5 | 1046.595 | 1025.452 | 1019.411 | 1014.880 | 1008.839 |
| 47.0 | 1033.003 | 1011.860 | 1005.819 | 1001.288 | 995.247  |
| 47.5 | 1018.656 | 998.268  | 992.227  | 987.696  | 982.410  |
| 48.0 | 1005.064 | 984.676  | 978.635  | 974.859  | 968.818  |
| 48.5 | 991.472  | 971.084  | 965.798  | 961.267  | 955.226  |
| 49.0 | 977.124  | 957.491  | 952.206  | 947.675  | 942.389  |
| 49.5 | 963.532  | 943.899  | 938.613  | 934.838  | 929.552  |
| 50.0 | 949.185  | 930.307  | 925.021  | 921.246  | 915.960  |
| 50.5 | 934.838  | 916.715  | 911.429  | 907.653  | 903.123  |
| 51.0 | 920.491  | 903.123  | 897.837  | 894.061  | 889.531  |
| 51.5 | 906.898  | 889.531  | 884.245  | 881.224  | 875.938  |
| 52.0 | 893.306  | 875.938  | 870.653  | 867.632  | 863.101  |
| 52.5 | 878.959  | 862.346  | 857.061  | 854.795  | 849.509  |
| 53.0 | 865.367  | 848.754  | 843.468  | 841.203  | 835.917  |
| 53.5 | 851.020  | 835.162  | 829.876  | 827.611  | 822.325  |
| 54.0 | 837.427  | 821.570  | 817.039  | 814.774  | 808.733  |
| 54.5 | 823.835  | 808.733  | 803.447  | 801.182  | 795.141  |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 810.243 | 795.896 | 790.610 | 788.345 | 782.304 |
| 55.5 | 797.406 | 782.304 | 777.018 | 774.752 | 769.467 |
| 56.0 | 783.059 | 768.712 | 763.426 | 761.915 | 755.875 |
| 56.5 | 769.467 | 755.875 | 750.211 | 748.550 | 742.584 |
| 57.0 | 756.630 | 742.282 | 736.845 | 735.033 | 729.370 |
| 57.5 | 743.340 | 729.143 | 723.555 | 721.894 | 716.004 |
| 58.0 | 730.049 | 716.155 | 710.190 | 708.680 | 702.790 |
| 58.5 | 716.684 | 703.092 | 697.051 | 695.691 | 690.104 |
| 59.0 | 703.545 | 689.953 | 683.836 | 682.552 | 677.191 |
| 59.5 | 690.783 | 676.662 | 670.395 | 669.489 | 664.430 |
| 60.0 | 677.720 | 663.448 | 657.105 | 656.350 | 651.441 |
| 60.5 | 664.807 | 650.535 | 644.268 | 643.135 | 638.302 |
| 61.0 | 652.121 | 637.623 | 631.506 | 630.223 | 625.465 |
| 61.5 | 638.529 | 624.861 | 618.820 | 617.386 | 612.779 |
| 62.0 | 625.163 | 611.722 | 605.681 | 604.624 | 599.791 |
| 62.5 | 611.496 | 599.565 | 593.297 | 592.467 | 587.483 |
| 63.0 | 598.357 | 588.842 | 583.783 | 583.405 | 579.328 |
| 63.5 | 585.066 | 577.138 | 573.136 | 572.305 | 568.076 |
| 64.0 | 577.062 | 565.735 | 562.111 | 560.450 | 555.617 |
| 64.5 | 564.603 | 553.578 | 549.651 | 548.141 | 543.610 |
| 65.0 | 550.633 | 540.590 | 537.343 | 535.908 | 531.529 |
| 65.5 | 536.361 | 527.451 | 524.506 | 523.826 | 519.371 |
| 66.0 | 522.618 | 514.614 | 511.971 | 511.669 | 506.912 |
| 66.5 | 509.026 | 501.475 | 499.209 | 499.209 | 494.981 |
| 67.0 | 495.585 | 488.411 | 486.599 | 486.825 | 482.974 |
| 67.5 | 482.370 | 475.574 | 473.913 | 474.366 | 470.590 |
| 68.0 | 469.005 | 462.737 | 461.227 | 461.831 | 457.904 |
| 68.5 | 455.564 | 449.674 | 448.465 | 449.296 | 445.445 |
| 69.0 | 441.669 | 436.535 | 435.628 | 436.081 | 432.532 |
| 69.5 | 428.153 | 423.622 | 422.565 | 423.093 | 419.846 |
| 70.0 | 414.787 | 410.558 | 409.803 | 410.030 | 407.160 |
| 70.5 | 401.648 | 397.419 | 396.891 | 397.117 | 394.399 |
| 71.0 | 388.207 | 384.356 | 384.205 | 384.507 | 381.562 |
| 71.5 | 374.766 | 371.292 | 371.594 | 371.821 | 369.253 |
| 72.0 | 361.702 | 358.153 | 358.757 | 359.059 | 356.869 |
| 72.5 | 348.639 | 345.241 | 346.222 | 346.524 | 344.712 |
| 73.0 | 335.726 | 332.630 | 333.989 | 334.367 | 332.781 |
| 73.5 | 323.191 | 320.171 | 321.756 | 322.436 | 320.699 |
| 74.0 | 310.807 | 307.711 | 309.674 | 310.203 | 309.070 |
| 74.5 | 298.423 | 295.478 | 297.668 | 298.197 | 297.366 |
| 75.0 | 285.964 | 283.321 | 285.813 | 286.341 | 285.662 |
| 75.5 | 273.655 | 271.163 | 274.033 | 274.712 | 273.957 |
| 76.0 | 261.196 | 259.459 | 262.404 | 263.159 | 262.555 |
| 76.5 | 249.416 | 247.906 | 250.851 | 251.681 | 251.153 |
| 77.0 | 237.938 | 236.277 | 239.524 | 240.279 | 239.448 |
| 77.5 | 226.083 | 224.950 | 228.197 | 228.801 | 227.971 |
| 78.0 | 214.529 | 213.623 | 216.870 | 217.776 | 216.946 |
| 78.5 | 203.052 | 202.599 | 205.695 | 206.752 | 206.072 |
| 79.0 | 192.027 | 191.574 | 194.745 | 196.029 | 195.500 |
| 79.5 | 181.002 | 180.776 | 183.947 | 185.306 | 184.853 |
| 80.0 | 170.128 | 170.204 | 173.149 | 175.037 | 174.433 |
| 80.5 | 159.179 | 159.859 | 162.879 | 164.692 | 164.238 |
| 81.0 | 148.683 | 149.740 | 152.685 | 154.573 | 154.271 |
| 81.5 | 138.564 | 139.697 | 142.718 | 144.605 | 144.379 |
| 82.0 | 129.125 | 129.881 | 132.977 | 134.940 | 134.713 |
| 82.5 | 119.686 | 120.366 | 123.387 | 125.350 | 125.199 |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 110.247 | 111.305 | 113.948 | 115.986 | 116.137 |
| 83.5  | 100.959 | 102.243 | 104.811 | 106.774 | 107.227 |
| 84.0  | 92.276  | 93.333  | 95.749  | 97.637  | 98.317  |
| 84.5  | 83.441  | 84.573  | 86.839  | 88.727  | 89.406  |
| 85.0  | 75.210  | 76.116  | 78.230  | 79.892  | 80.496  |
| 85.5  | 67.206  | 67.659  | 69.471  | 71.208  | 71.812  |
| 86.0  | 59.352  | 59.503  | 61.089  | 62.675  | 63.430  |
| 86.5  | 51.575  | 51.575  | 53.009  | 54.444  | 55.124  |
| 87.0  | 43.721  | 43.721  | 44.779  | 46.591  | 47.119  |
| 87.5  | 35.944  | 36.019  | 37.001  | 38.813  | 39.493  |
| 88.0  | 28.544  | 28.468  | 29.450  | 31.413  | 32.168  |
| 88.5  | 21.445  | 20.992  | 22.276  | 24.013  | 25.070  |
| 89.0  | 13.894  | 13.668  | 15.404  | 17.066  | 18.198  |
| 89.5  | 6.419   | 7.627   | 9.212   | 10.496  | 10.874  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 4.750   | 2.503   | 2.311   | 2.246   | 2.439   |
| 91.0  | 10.462  | 5.520   | 4.493   | 4.429   | 4.365   |
| 91.5  | 16.817  | 11.232  | 6.675   | 6.611   | 6.547   |
| 92.0  | 23.235  | 18.678  | 9.628   | 8.601   | 8.601   |
| 92.5  | 29.910  | 26.380  | 14.891  | 10.783  | 10.591  |
| 93.0  | 36.842  | 33.761  | 21.053  | 14.313  | 12.901  |
| 93.5  | 43.838  | 40.822  | 27.664  | 19.320  | 16.817  |
| 94.0  | 50.706  | 47.754  | 34.981  | 25.289  | 22.144  |
| 94.5  | 57.767  | 54.686  | 42.619  | 31.451  | 27.921  |
| 95.0  | 64.699  | 61.810  | 50.129  | 37.741  | 33.633  |
| 95.5  | 71.631  | 68.486  | 57.446  | 44.224  | 39.666  |
| 96.0  | 78.242  | 75.289  | 64.634  | 50.963  | 45.828  |
| 96.5  | 84.917  | 82.093  | 71.823  | 57.831  | 52.183  |
| 97.0  | 91.400  | 88.768  | 78.948  | 64.699  | 58.922  |
| 97.5  | 98.075  | 95.507  | 86.136  | 71.695  | 65.661  |
| 98.0  | 104.686 | 102.119 | 93.133  | 78.627  | 72.465  |
| 98.5  | 111.297 | 108.794 | 99.872  | 85.687  | 79.269  |
| 99.0  | 118.036 | 115.662 | 106.740 | 92.427  | 86.136  |
| 99.5  | 124.840 | 122.465 | 113.672 | 99.166  | 92.876  |
| 100.0 | 131.515 | 129.333 | 120.604 | 106.098 | 99.487  |
| 100.5 | 138.447 | 136.201 | 127.536 | 113.287 | 106.162 |
| 101.0 | 145.572 | 143.069 | 134.596 | 120.540 | 113.415 |
| 101.5 | 152.825 | 150.065 | 141.785 | 127.793 | 120.925 |
| 102.0 | 159.885 | 157.318 | 148.974 | 135.046 | 128.370 |
| 102.5 | 167.266 | 164.507 | 156.419 | 142.298 | 135.752 |
| 103.0 | 174.840 | 171.952 | 163.800 | 149.487 | 143.261 |
| 103.5 | 182.414 | 179.526 | 171.631 | 157.189 | 150.707 |
| 104.0 | 190.181 | 187.164 | 179.590 | 165.148 | 158.473 |
| 104.5 | 198.204 | 195.123 | 187.549 | 173.300 | 166.240 |
| 105.0 | 206.419 | 203.274 | 195.444 | 181.323 | 174.134 |
| 105.5 | 214.828 | 211.554 | 203.595 | 189.410 | 181.965 |
| 106.0 | 223.364 | 219.898 | 211.875 | 197.626 | 189.795 |
| 106.5 | 231.965 | 228.499 | 220.540 | 205.906 | 197.690 |
| 107.0 | 241.144 | 237.485 | 229.783 | 214.699 | 206.291 |
| 107.5 | 250.643 | 246.728 | 239.154 | 224.006 | 215.598 |
| 108.0 | 260.078 | 256.227 | 248.717 | 234.083 | 225.161 |
| 108.5 | 270.027 | 265.919 | 258.281 | 244.160 | 235.046 |
| 109.0 | 280.232 | 275.804 | 268.101 | 254.366 | 245.059 |
| 109.5 | 290.695 | 286.073 | 278.435 | 264.507 | 255.200 |
| 110.0 | 301.863 | 296.600 | 289.026 | 274.905 | 265.791 |
| 110.5 | 313.288 | 307.383 | 299.873 | 286.073 | 276.766 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 324.841  | 318.679  | 311.105  | 297.691  | 287.806  |
| 111.5 | 336.651  | 330.297  | 322.530  | 309.501  | 299.167  |
| 112.0 | 348.910  | 342.235  | 333.891  | 321.311  | 310.014  |
| 112.5 | 361.234  | 354.495  | 345.380  | 333.057  | 321.503  |
| 113.0 | 374.135  | 367.139  | 357.511  | 345.188  | 333.506  |
| 113.5 | 387.422  | 380.361  | 370.348  | 358.281  | 346.407  |
| 114.0 | 400.900  | 393.840  | 383.956  | 372.210  | 360.721  |
| 114.5 | 414.829  | 407.768  | 397.820  | 386.716  | 375.932  |
| 115.0 | 428.949  | 422.082  | 412.197  | 401.350  | 391.337  |
| 115.5 | 443.712  | 436.523  | 426.960  | 415.920  | 406.549  |
| 116.0 | 458.603  | 451.543  | 442.236  | 431.260  | 422.017  |
| 116.5 | 474.328  | 466.947  | 458.025  | 446.985  | 438.513  |
| 117.0 | 490.695  | 482.672  | 473.943  | 463.930  | 455.522  |
| 117.5 | 502.762  | 494.932  | 488.513  | 479.527  | 472.788  |
| 118.0 | 518.167  | 509.245  | 503.468  | 495.638  | 488.128  |
| 118.5 | 536.074  | 526.318  | 518.744  | 510.593  | 501.928  |
| 119.0 | 553.597  | 543.135  | 536.074  | 527.538  | 517.268  |
| 119.5 | 571.312  | 561.042  | 554.431  | 544.739  | 534.470  |
| 120.0 | 589.605  | 579.592  | 572.852  | 563.546  | 552.634  |
| 120.5 | 607.769  | 598.398  | 591.851  | 583.507  | 572.018  |
| 121.0 | 626.832  | 617.589  | 610.978  | 603.405  | 592.621  |
| 121.5 | 645.703  | 636.588  | 630.041  | 623.559  | 612.776  |
| 122.0 | 665.600  | 655.972  | 650.196  | 643.777  | 632.994  |
| 122.5 | 684.856  | 675.228  | 670.093  | 663.674  | 652.121  |
| 123.0 | 704.753  | 695.767  | 690.632  | 685.497  | 673.302  |
| 123.5 | 725.292  | 716.306  | 712.455  | 707.320  | 695.125  |
| 124.0 | 745.831  | 737.487  | 733.636  | 729.143  | 717.590  |
| 124.5 | 766.371  | 758.027  | 754.817  | 750.324  | 739.413  |
| 125.0 | 786.910  | 778.566  | 775.357  | 771.505  | 760.594  |
| 125.5 | 808.091  | 799.747  | 796.538  | 792.687  | 781.133  |
| 126.0 | 828.630  | 820.286  | 818.361  | 813.868  | 801.672  |
| 126.5 | 849.170  | 840.825  | 840.184  | 836.332  | 823.495  |
| 127.0 | 870.351  | 862.007  | 862.007  | 858.797  | 846.602  |
| 127.5 | 891.532  | 882.546  | 882.546  | 880.620  | 869.709  |
| 128.0 | 912.071  | 903.085  | 903.727  | 902.443  | 891.532  |
| 128.5 | 932.610  | 922.982  | 924.266  | 924.266  | 912.713  |
| 129.0 | 953.149  | 942.880  | 944.805  | 945.447  | 934.536  |
| 129.5 | 973.689  | 963.419  | 965.986  | 967.270  | 957.001  |
| 130.0 | 994.228  | 983.958  | 987.168  | 989.093  | 980.749  |
| 130.5 | 1014.767 | 1003.856 | 1008.991 | 1010.274 | 1003.214 |
| 131.0 | 1035.306 | 1023.753 | 1029.530 | 1030.813 | 1023.753 |
| 131.5 | 1054.562 | 1043.009 | 1050.069 | 1050.069 | 1043.650 |
| 132.0 | 1074.459 | 1062.264 | 1069.966 | 1070.608 | 1062.906 |
| 132.5 | 1093.715 | 1082.162 | 1089.864 | 1090.506 | 1082.162 |
| 133.0 | 1112.970 | 1102.059 | 1109.119 | 1110.403 | 1100.775 |
| 133.5 | 1132.226 | 1121.315 | 1129.017 | 1130.300 | 1120.673 |
| 134.0 | 1151.482 | 1139.928 | 1147.630 | 1149.556 | 1139.928 |
| 134.5 | 1168.812 | 1158.542 | 1165.602 | 1166.886 | 1158.542 |
| 135.0 | 1186.142 | 1176.514 | 1182.932 | 1184.216 | 1175.230 |
| 135.5 | 1202.830 | 1195.127 | 1200.262 | 1200.904 | 1191.918 |
| 136.0 | 1219.518 | 1212.457 | 1216.309 | 1218.234 | 1209.248 |
| 136.5 | 1236.848 | 1229.146 | 1232.355 | 1235.564 | 1227.220 |
| 137.0 | 1252.894 | 1245.834 | 1249.043 | 1251.610 | 1243.908 |
| 137.5 | 1268.940 | 1261.238 | 1264.447 | 1266.373 | 1258.671 |
| 138.0 | 1284.345 | 1276.643 | 1279.210 | 1280.494 | 1272.791 |
| 138.5 | 1299.749 | 1291.405 | 1293.973 | 1294.614 | 1286.270 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1314.512 | 1306.168 | 1308.735 | 1308.735 | 1299.749 |
| 139.5 | 1329.274 | 1320.930 | 1322.856 | 1322.214 | 1312.586 |
| 140.0 | 1343.395 | 1334.409 | 1336.977 | 1336.335 | 1326.707 |
| 140.5 | 1356.874 | 1347.246 | 1349.814 | 1349.172 | 1338.902 |
| 141.0 | 1370.353 | 1360.725 | 1362.651 | 1361.367 | 1351.097 |
| 141.5 | 1382.548 | 1372.920 | 1375.488 | 1373.562 | 1362.009 |
| 142.0 | 1395.385 | 1385.757 | 1387.683 | 1385.115 | 1373.562 |
| 142.5 | 1407.580 | 1397.953 | 1399.878 | 1397.311 | 1384.474 |
| 143.0 | 1419.775 | 1409.506 | 1411.431 | 1408.864 | 1396.027 |
| 143.5 | 1431.329 | 1421.701 | 1422.985 | 1420.417 | 1406.938 |
| 144.0 | 1442.240 | 1433.254 | 1433.896 | 1430.687 | 1417.208 |
| 144.5 | 1453.152 | 1444.166 | 1444.808 | 1440.957 | 1427.478 |
| 145.0 | 1463.421 | 1455.077 | 1455.077 | 1450.584 | 1437.105 |
| 145.5 | 1474.333 | 1465.989 | 1465.347 | 1461.496 | 1447.375 |
| 146.0 | 1484.602 | 1476.258 | 1475.617 | 1471.124 | 1457.645 |
| 146.5 | 1494.872 | 1486.528 | 1485.244 | 1481.393 | 1467.914 |
| 147.0 | 1504.500 | 1496.798 | 1494.230 | 1491.663 | 1478.184 |
| 147.5 | 1514.128 | 1506.425 | 1503.858 | 1501.291 | 1487.812 |
| 148.0 | 1523.755 | 1516.053 | 1512.202 | 1510.277 | 1498.081 |
| 148.5 | 1533.383 | 1525.681 | 1520.546 | 1519.262 | 1508.351 |
| 149.0 | 1542.369 | 1535.309 | 1528.890 | 1528.248 | 1518.621 |
| 149.5 | 1551.355 | 1544.295 | 1536.592 | 1537.234 | 1528.248 |
| 150.0 | 1560.341 | 1553.281 | 1544.937 | 1545.578 | 1537.234 |
| 150.5 | 1569.327 | 1562.266 | 1552.639 | 1553.281 | 1546.220 |
| 151.0 | 1577.671 | 1570.611 | 1560.341 | 1560.983 | 1554.564 |
| 151.5 | 1586.657 | 1578.955 | 1568.685 | 1568.685 | 1562.266 |
| 152.0 | 1595.001 | 1587.299 | 1576.387 | 1575.745 | 1569.969 |
| 152.5 | 1603.345 | 1595.001 | 1584.089 | 1583.448 | 1577.029 |
| 153.0 | 1611.689 | 1602.703 | 1591.792 | 1591.150 | 1583.448 |
| 153.5 | 1619.391 | 1610.405 | 1599.494 | 1598.852 | 1589.224 |
| 154.0 | 1627.093 | 1618.108 | 1607.838 | 1606.554 | 1595.643 |
| 154.5 | 1635.438 | 1625.168 | 1615.540 | 1613.615 | 1602.061 |
| 155.0 | 1643.140 | 1632.228 | 1623.242 | 1621.317 | 1609.122 |
| 155.5 | 1650.200 | 1638.647 | 1630.945 | 1629.019 | 1616.182 |
| 156.0 | 1657.261 | 1645.707 | 1639.289 | 1636.079 | 1623.242 |
| 156.5 | 1664.321 | 1652.768 | 1646.991 | 1643.782 | 1630.303 |
| 157.0 | 1671.381 | 1659.828 | 1654.693 | 1651.484 | 1637.363 |
| 157.5 | 1677.800 | 1666.246 | 1661.753 | 1658.544 | 1644.423 |
| 158.0 | 1684.218 | 1672.665 | 1668.814 | 1665.605 | 1651.484 |
| 158.5 | 1691.279 | 1679.725 | 1675.874 | 1672.665 | 1659.186 |
| 159.0 | 1697.055 | 1686.144 | 1682.293 | 1679.725 | 1666.246 |
| 159.5 | 1703.474 | 1692.562 | 1688.711 | 1686.786 | 1673.307 |
| 160.0 | 1709.250 | 1698.339 | 1695.130 | 1693.204 | 1680.367 |
| 160.5 | 1715.027 | 1704.116 | 1700.906 | 1699.623 | 1687.428 |
| 161.0 | 1720.804 | 1709.892 | 1706.683 | 1706.041 | 1694.488 |
| 161.5 | 1726.580 | 1716.311 | 1711.818 | 1712.460 | 1701.548 |
| 162.0 | 1732.999 | 1722.088 | 1716.953 | 1718.878 | 1707.967 |
| 162.5 | 1738.776 | 1727.864 | 1722.088 | 1724.655 | 1713.743 |
| 163.0 | 1744.552 | 1733.641 | 1727.222 | 1730.432 | 1719.520 |
| 163.5 | 1750.329 | 1738.776 | 1732.357 | 1736.208 | 1724.655 |
| 164.0 | 1756.106 | 1743.910 | 1736.850 | 1741.343 | 1729.790 |
| 164.5 | 1760.599 | 1749.045 | 1741.343 | 1746.478 | 1734.925 |
| 165.0 | 1765.733 | 1754.180 | 1745.836 | 1751.613 | 1739.417 |
| 165.5 | 1770.868 | 1758.673 | 1750.329 | 1756.106 | 1743.910 |
| 166.0 | 1776.003 | 1763.166 | 1754.822 | 1760.599 | 1747.762 |
| 166.5 | 1781.138 | 1767.659 | 1759.315 | 1764.450 | 1752.255 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1785.631 | 1771.510 | 1763.166 | 1768.301 | 1756.106 |
| 167.5 | 1790.124 | 1775.361 | 1767.659 | 1772.152 | 1760.599 |
| 168.0 | 1794.617 | 1779.212 | 1771.510 | 1776.003 | 1764.450 |
| 168.5 | 1799.110 | 1783.063 | 1775.361 | 1779.854 | 1768.943 |
| 169.0 | 1802.961 | 1786.273 | 1779.212 | 1783.063 | 1772.794 |
| 169.5 | 1806.170 | 1789.482 | 1782.422 | 1786.273 | 1776.645 |
| 170.0 | 1809.379 | 1792.691 | 1785.631 | 1789.482 | 1781.138 |
| 170.5 | 1812.589 | 1795.900 | 1788.198 | 1792.691 | 1784.347 |
| 171.0 | 1815.798 | 1798.468 | 1790.766 | 1795.900 | 1787.556 |
| 171.5 | 1818.365 | 1801.035 | 1793.333 | 1799.110 | 1790.766 |
| 172.0 | 1820.933 | 1803.603 | 1795.259 | 1801.677 | 1793.333 |
| 172.5 | 1823.500 | 1806.170 | 1797.184 | 1803.603 | 1795.259 |
| 173.0 | 1826.067 | 1808.737 | 1799.110 | 1806.170 | 1796.542 |
| 173.5 | 1827.993 | 1810.663 | 1801.035 | 1807.454 | 1797.826 |
| 174.0 | 1829.919 | 1812.589 | 1802.961 | 1808.737 | 1798.468 |
| 174.5 | 1831.202 | 1813.872 | 1804.244 | 1810.021 | 1799.110 |
| 175.0 | 1832.486 | 1815.798 | 1805.528 | 1810.663 | 1799.110 |
| 175.5 | 1833.770 | 1817.082 | 1807.454 | 1811.305 | 1799.752 |
| 176.0 | 1835.053 | 1818.365 | 1808.737 | 1811.305 | 1799.752 |
| 176.5 | 1835.695 | 1819.649 | 1809.379 | 1811.947 | 1799.752 |
| 177.0 | 1836.337 | 1820.933 | 1810.663 | 1811.947 | 1799.110 |
| 177.5 | 1837.621 | 1822.216 | 1811.947 | 1811.947 | 1799.110 |
| 178.0 | 1838.263 | 1822.216 | 1812.589 | 1811.947 | 1799.752 |
| 178.5 | 1838.263 | 1822.858 | 1813.230 | 1811.947 | 1799.752 |
| 179.0 | 1838.904 | 1823.500 | 1813.230 | 1811.947 | 1799.752 |
| 179.5 | 1839.546 | 1823.500 | 1813.872 | 1811.947 | 1799.752 |
| 180.0 | 1817.082 | 1817.082 | 1817.082 | 1817.082 | 1817.082 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 650.60  | N.A.  | 7.00   |
| 0-30    | 1360.19 | N.A.  | 14.70  |
| 0-40    | 2185.17 | N.A.  | 23.70  |
| 0-60    | 3713.09 | N.A.  | 40.20  |
| 0-80    | 4547.1  | N.A.  | 49.30  |
| 0-90    | 4635.22 | N.A.  | 50.20  |
| 10-90   | 4465.4  | N.A.  | 48.40  |
| 20-40   | 1534.56 | N.A.  | 16.60  |
| 20-50   | 2353.52 | N.A.  | 25.50  |
| 40-70   | 2058.93 | N.A.  | 22.30  |
| 60-80   | 834.00  | N.A.  | 9.00   |
| 70-80   | 303.00  | N.A.  | 3.30   |
| 80-90   | 88.12   | N.A.  | 1.00   |
| 90-110  | 262.96  | N.A.  | 2.80   |
| 90-120  | 675.05  | N.A.  | 7.30   |
| 90-130  | 1367.54 | N.A.  | 14.80  |
| 90-150  | 3180.8  | N.A.  | 34.50  |
| 90-180  | 4597.09 | N.A.  | 49.80  |
| 110-180 | 4334.13 | N.A.  | 46.90  |
| 0-180   | 9232.31 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 169.82 |
| 10-20   | 480.78 |
| 20-30   | 709.59 |
| 30-40   | 824.98 |
| 40-50   | 818.95 |
| 50-60   | 708.97 |
| 60-70   | 531.00 |
| 70-80   | 303.00 |
| 80-90   | 88.12  |
| 90-100  | 56.72  |
| 100-110 | 206.25 |
| 110-120 | 412.09 |
| 120-130 | 692.49 |
| 130-140 | 905.50 |
| 140-150 | 907.76 |
| 150-160 | 749.85 |
| 160-170 | 494.12 |
| 170-180 | 172.32 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-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 | 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 | 48 | 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  | 54 | 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 : MX4UDC-4-00-L15-935U-L12-935D-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 | 16.5 | 17.4 | 17.5 | 18.4 | 19.6 | 16.4 | 17.3 | 17.4 | 18.3 | 19.5 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 18.3 | 19.1 | 19.3 | 20.0 | 21.3 | 18.2 | 19.0 | 19.2 | 20.0 | 21.2 |
|      | 4H   | 18.9 | 19.6 | 19.9 | 20.6 | 21.9 | 18.8 | 19.6 | 19.8 | 20.5 | 21.8 |
|      | 6H   | 19.3 | 20.0 | 20.3 | 21.0 | 22.3 | 19.3 | 20.0 | 20.3 | 21.0 | 22.3 |
|      | 8H   | 19.5 | 20.1 | 20.5 | 21.1 | 22.4 | 19.4 | 20.1 | 20.4 | 21.1 | 22.4 |
|      | 12H  | 19.5 | 20.2 | 20.5 | 21.2 | 22.5 | 19.5 | 20.1 | 20.5 | 21.1 | 22.5 |

### UGR Viewed Endwise

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 17.1 | 17.8 | 18.1 | 18.8 | 20.1 | 17.0 | 17.7 | 18.0 | 18.7 | 20.0 |
|    | 3H  | 19.0 | 19.6 | 20.0 | 20.7 | 22.0 | 19.0 | 19.6 | 20.0 | 20.6 | 21.9 |
|    | 4H  | 19.8 | 20.3 | 20.8 | 21.3 | 22.7 | 19.7 | 20.3 | 20.7 | 21.3 | 22.6 |
|    | 6H  | 20.3 | 20.8 | 21.3 | 21.8 | 23.2 | 20.3 | 20.8 | 21.3 | 21.8 | 23.2 |
|    | 8H  | 20.5 | 21.0 | 21.5 | 22.0 | 23.3 | 20.5 | 21.0 | 21.5 | 22.0 | 23.3 |
|    | 12H | 20.6 | 21.0 | 21.7 | 22.1 | 23.4 | 20.6 | 21.0 | 21.7 | 22.1 | 23.4 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 20.0 | 20.5 | 21.0 | 21.5 | 22.8 | 20.0 | 20.4 | 21.0 | 21.4 | 22.8 |
|    | 6H  | 20.7 | 21.1 | 21.7 | 22.1 | 23.5 | 20.7 | 21.1 | 21.7 | 22.1 | 23.5 |
|    | 8H  | 21.0 | 21.3 | 22.0 | 22.3 | 23.7 | 21.0 | 21.3 | 22.0 | 22.4 | 23.7 |
|    | 12H | 21.2 | 21.4 | 22.2 | 22.5 | 23.9 | 21.2 | 21.5 | 22.3 | 22.5 | 23.9 |

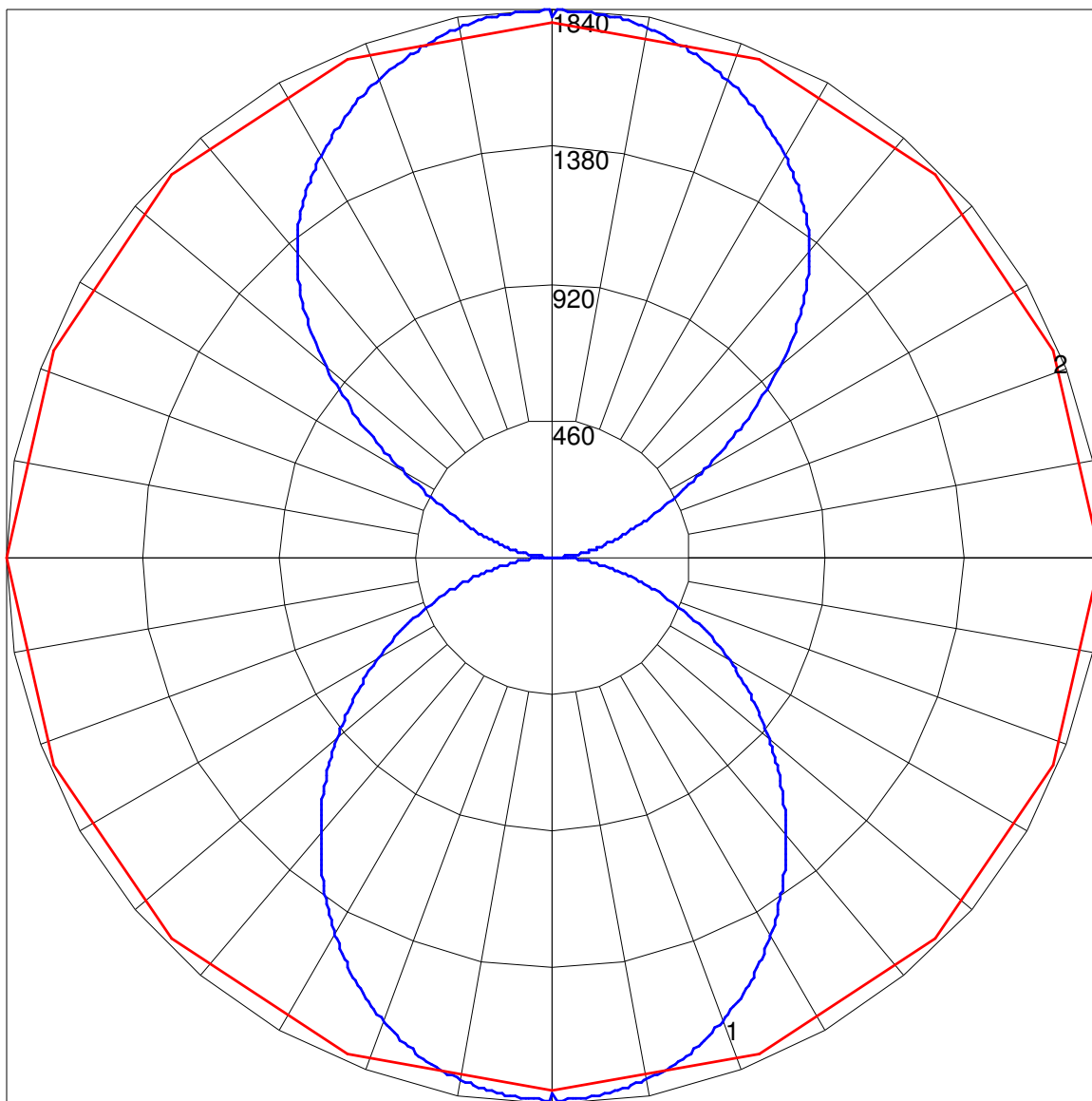
|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.0 | 20.4 | 21.0 | 21.5 | 22.8 | 20.0 | 20.4 | 21.0 | 21.4 | 22.8 |
|     | 6H | 20.7 | 21.1 | 21.8 | 22.1 | 23.5 | 20.7 | 21.1 | 21.8 | 22.1 | 23.5 |
|     | 8H | 21.0 | 21.3 | 22.1 | 22.4 | 23.8 | 21.1 | 21.3 | 22.1 | 22.4 | 23.8 |

Maximum UGR = 23.9

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-935U-L12-935D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1839.546 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.)