

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-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-L15-930U-L8-930D-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                | 7762            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 98              |
| Total Luminaire Watts           | 78.9            |
| 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                  | 10431            | 10170             | 10054             |
| 55                  | 9589             | 9356              | 9258              |
| 65                  | 8844             | 8631              | 8537              |
| 75                  | 7500             | 7496              | 7492              |
| 85                  | 5858             | 6093              | 6269              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-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>  | 1513.569   | 1513.569    | 1513.569    | 1513.569    | 1513.569    |
| <b>0.5</b>  | 1536.425   | 1514.839    | 1507.220    | 1510.395    | 1505.315    |
| <b>1.0</b>  | 1536.425   | 1514.204    | 1507.220    | 1510.395    | 1505.315    |
| <b>1.5</b>  | 1535.790   | 1513.569    | 1506.585    | 1510.395    | 1504.681    |
| <b>2.0</b>  | 1535.155   | 1512.934    | 1505.950    | 1509.760    | 1504.681    |
| <b>2.5</b>  | 1534.520   | 1512.299    | 1504.681    | 1509.125    | 1504.046    |
| <b>3.0</b>  | 1533.250   | 1511.029    | 1504.046    | 1508.490    | 1502.776    |
| <b>3.5</b>  | 1531.981   | 1509.760    | 1502.776    | 1507.220    | 1501.506    |
| <b>4.0</b>  | 1530.711   | 1508.490    | 1501.506    | 1505.950    | 1500.236    |
| <b>4.5</b>  | 1529.441   | 1506.585    | 1500.236    | 1504.681    | 1498.332    |
| <b>5.0</b>  | 1528.171   | 1505.315    | 1498.332    | 1502.776    | 1496.427    |
| <b>5.5</b>  | 1526.267   | 1503.411    | 1496.427    | 1500.871    | 1494.522    |
| <b>6.0</b>  | 1524.362   | 1500.871    | 1494.522    | 1498.967    | 1491.983    |
| <b>6.5</b>  | 1521.823   | 1498.967    | 1491.983    | 1496.427    | 1490.078    |
| <b>7.0</b>  | 1519.918   | 1496.427    | 1490.078    | 1493.888    | 1487.539    |
| <b>7.5</b>  | 1518.013   | 1493.888    | 1487.539    | 1491.348    | 1485.634    |
| <b>8.0</b>  | 1514.839   | 1491.348    | 1484.364    | 1488.808    | 1483.094    |
| <b>8.5</b>  | 1512.299   | 1488.174    | 1481.190    | 1485.634    | 1479.920    |
| <b>9.0</b>  | 1509.125   | 1485.634    | 1478.650    | 1482.460    | 1476.746    |
| <b>9.5</b>  | 1505.950   | 1482.460    | 1474.841    | 1478.650    | 1473.571    |
| <b>10.0</b> | 1502.776   | 1479.285    | 1471.666    | 1475.476    | 1469.762    |
| <b>10.5</b> | 1498.967   | 1475.476    | 1467.857    | 1471.666    | 1466.587    |
| <b>11.0</b> | 1495.792   | 1471.666    | 1464.048    | 1467.857    | 1462.143    |
| <b>11.5</b> | 1491.348   | 1467.857    | 1460.239    | 1464.048    | 1458.334    |
| <b>12.0</b> | 1487.539   | 1464.048    | 1456.429    | 1459.604    | 1453.890    |
| <b>12.5</b> | 1483.729   | 1459.604    | 1451.985    | 1455.159    | 1449.445    |
| <b>13.0</b> | 1479.285   | 1455.794    | 1447.541    | 1450.715    | 1445.001    |
| <b>13.5</b> | 1474.841   | 1450.715    | 1443.097    | 1445.636    | 1440.557    |
| <b>14.0</b> | 1470.397   | 1446.271    | 1438.018    | 1441.192    | 1436.113    |
| <b>14.5</b> | 1465.953   | 1441.827    | 1432.938    | 1436.113    | 1431.034    |
| <b>15.0</b> | 1461.508   | 1436.748    | 1427.859    | 1431.034    | 1425.955    |
| <b>15.5</b> | 1455.794   | 1432.304    | 1422.780    | 1425.320    | 1420.241    |
| <b>16.0</b> | 1449.445   | 1427.224    | 1417.066    | 1420.241    | 1415.162    |
| <b>16.5</b> | 1443.097   | 1421.510    | 1411.352    | 1414.527    | 1409.448    |
| <b>17.0</b> | 1437.383   | 1415.797    | 1405.638    | 1408.813    | 1403.734    |
| <b>17.5</b> | 1431.034   | 1409.448    | 1399.289    | 1402.464    | 1397.385    |
| <b>18.0</b> | 1424.685   | 1403.099    | 1392.941    | 1396.115    | 1391.036    |
| <b>18.5</b> | 1418.336   | 1396.750    | 1386.592    | 1389.131    | 1384.687    |
| <b>19.0</b> | 1411.987   | 1390.401    | 1380.878    | 1382.782    | 1377.068    |
| <b>19.5</b> | 1405.003   | 1384.052    | 1374.529    | 1375.164    | 1369.450    |
| <b>20.0</b> | 1398.655   | 1377.068    | 1368.815    | 1368.180    | 1361.831    |
| <b>20.5</b> | 1391.671   | 1370.720    | 1362.466    | 1360.561    | 1354.213    |
| <b>21.0</b> | 1384.687   | 1363.736    | 1355.482    | 1352.943    | 1345.959    |
| <b>21.5</b> | 1377.068   | 1356.752    | 1347.864    | 1345.324    | 1337.705    |
| <b>22.0</b> | 1370.085   | 1349.133    | 1339.610    | 1337.071    | 1330.087    |
| <b>22.5</b> | 1362.466   | 1341.515    | 1331.992    | 1328.817    | 1321.833    |
| <b>23.0</b> | 1354.847   | 1333.896    | 1324.373    | 1319.929    | 1313.580    |
| <b>23.5</b> | 1347.229   | 1326.278    | 1316.119    | 1311.675    | 1305.961    |
| <b>24.0</b> | 1338.975   | 1318.659    | 1308.501    | 1303.422    | 1297.708    |
| <b>24.5</b> | 1330.722   | 1310.405    | 1300.247    | 1295.168    | 1289.454    |
| <b>25.0</b> | 1323.103   | 1302.152    | 1291.994    | 1286.915    | 1281.201    |
| <b>25.5</b> | 1314.850   | 1293.898    | 1283.105    | 1278.661    | 1272.312    |
| <b>26.0</b> | 1305.961   | 1285.010    | 1274.852    | 1270.408    | 1264.059    |
| <b>26.5</b> | 1297.708   | 1276.756    | 1265.963    | 1262.154    | 1255.805    |

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|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1288.819 | 1267.868 | 1257.075 | 1253.900 | 1246.917 |
| 27.5 | 1279.931 | 1258.980 | 1248.821 | 1245.647 | 1238.663 |
| 28.0 | 1271.042 | 1249.456 | 1239.298 | 1236.759 | 1229.775 |
| 28.5 | 1261.519 | 1239.933 | 1230.410 | 1228.505 | 1220.886 |
| 29.0 | 1251.996 | 1231.045 | 1221.521 | 1219.617 | 1211.998 |
| 29.5 | 1243.107 | 1221.521 | 1212.633 | 1210.093 | 1203.744 |
| 30.0 | 1233.584 | 1211.998 | 1203.744 | 1201.205 | 1194.856 |
| 30.5 | 1224.061 | 1202.475 | 1194.221 | 1192.317 | 1185.968 |
| 31.0 | 1213.903 | 1193.586 | 1184.698 | 1182.793 | 1177.079 |
| 31.5 | 1204.379 | 1184.063 | 1175.175 | 1173.270 | 1167.556 |
| 32.0 | 1194.221 | 1173.905 | 1165.651 | 1163.112 | 1158.033 |
| 32.5 | 1184.063 | 1164.382 | 1156.128 | 1153.588 | 1147.874 |
| 33.0 | 1173.905 | 1154.858 | 1146.605 | 1144.065 | 1137.716 |
| 33.5 | 1164.382 | 1144.700 | 1136.447 | 1133.907 | 1128.193 |
| 34.0 | 1153.588 | 1134.542 | 1126.923 | 1123.749 | 1118.035 |
| 34.5 | 1143.430 | 1124.384 | 1116.130 | 1113.591 | 1107.242 |
| 35.0 | 1133.272 | 1114.860 | 1105.972 | 1103.432 | 1096.449 |
| 35.5 | 1122.479 | 1104.067 | 1095.814 | 1093.274 | 1085.656 |
| 36.0 | 1111.686 | 1093.909 | 1085.656 | 1082.481 | 1075.497 |
| 36.5 | 1101.528 | 1083.751 | 1075.497 | 1072.323 | 1065.339 |
| 37.0 | 1090.735 | 1072.958 | 1064.704 | 1061.530 | 1054.546 |
| 37.5 | 1079.942 | 1062.165 | 1054.546 | 1050.737 | 1044.388 |
| 38.0 | 1068.514 | 1051.372 | 1043.753 | 1039.944 | 1033.595 |
| 38.5 | 1057.721 | 1040.579 | 1032.960 | 1029.786 | 1022.802 |
| 39.0 | 1047.562 | 1029.786 | 1022.167 | 1018.993 | 1012.644 |
| 39.5 | 1036.134 | 1018.993 | 1012.009 | 1008.199 | 1001.216 |
| 40.0 | 1025.341 | 1007.565 | 1001.216 | 997.406  | 991.058  |
| 40.5 | 1013.913 | 996.772  | 990.423  | 986.613  | 980.264  |
| 41.0 | 1003.120 | 985.344  | 979.630  | 975.185  | 968.837  |
| 41.5 | 991.692  | 974.551  | 968.202  | 964.392  | 957.409  |
| 42.0 | 980.899  | 963.123  | 957.409  | 953.599  | 946.616  |
| 42.5 | 970.106  | 952.329  | 946.616  | 942.171  | 935.822  |
| 43.0 | 958.678  | 941.536  | 935.822  | 931.378  | 924.394  |
| 43.5 | 947.885  | 930.108  | 924.394  | 920.585  | 913.601  |
| 44.0 | 936.457  | 918.681  | 912.967  | 909.157  | 902.808  |
| 44.5 | 925.029  | 907.253  | 901.539  | 897.729  | 891.380  |
| 45.0 | 913.601  | 896.459  | 890.746  | 886.301  | 880.587  |
| 45.5 | 902.808  | 885.032  | 879.318  | 875.508  | 869.794  |
| 46.0 | 891.380  | 873.604  | 867.890  | 864.080  | 859.001  |
| 46.5 | 879.952  | 862.176  | 857.097  | 853.287  | 848.208  |
| 47.0 | 868.524  | 850.748  | 845.669  | 841.859  | 836.780  |
| 47.5 | 856.462  | 839.320  | 834.241  | 830.431  | 825.987  |
| 48.0 | 845.034  | 827.892  | 822.813  | 819.638  | 814.559  |
| 48.5 | 833.606  | 816.464  | 812.020  | 808.210  | 803.131  |
| 49.0 | 821.543  | 805.036  | 800.592  | 796.782  | 792.338  |
| 49.5 | 810.115  | 793.608  | 789.164  | 785.989  | 781.545  |
| 50.0 | 798.052  | 782.180  | 777.736  | 774.561  | 770.117  |
| 50.5 | 785.989  | 770.752  | 766.308  | 763.133  | 759.324  |
| 51.0 | 773.926  | 759.324  | 754.880  | 751.705  | 747.896  |
| 51.5 | 762.498  | 747.896  | 743.452  | 740.912  | 736.468  |
| 52.0 | 751.071  | 736.468  | 732.024  | 729.484  | 725.675  |
| 52.5 | 739.008  | 725.040  | 720.596  | 718.691  | 714.247  |
| 53.0 | 727.580  | 713.612  | 709.168  | 707.263  | 702.819  |
| 53.5 | 715.517  | 702.184  | 697.740  | 695.835  | 691.391  |
| 54.0 | 704.089  | 690.756  | 686.947  | 685.042  | 679.963  |
| 54.5 | 692.661  | 679.963  | 675.519  | 673.614  | 668.535  |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 681.233 | 669.170 | 664.726 | 662.821 | 657.742 |
| 55.5 | 670.440 | 657.742 | 653.298 | 651.393 | 646.949 |
| 56.0 | 658.377 | 646.314 | 641.870 | 640.600 | 635.521 |
| 56.5 | 646.949 | 635.521 | 630.760 | 629.363 | 624.347 |
| 57.0 | 636.156 | 624.093 | 619.522 | 617.998 | 613.237 |
| 57.5 | 624.982 | 613.046 | 608.348 | 606.951 | 601.999 |
| 58.0 | 613.808 | 602.126 | 597.111 | 595.841 | 590.889 |
| 58.5 | 602.571 | 591.143 | 586.064 | 584.921 | 580.223 |
| 59.0 | 591.524 | 580.096 | 574.953 | 573.874 | 569.366 |
| 59.5 | 580.794 | 568.922 | 563.652 | 562.890 | 558.636 |
| 60.0 | 569.810 | 557.811 | 552.478 | 551.843 | 547.716 |
| 60.5 | 558.954 | 546.955 | 541.685 | 540.733 | 536.669 |
| 61.0 | 548.288 | 536.098 | 530.955 | 529.876 | 525.876 |
| 61.5 | 536.860 | 525.368 | 520.289 | 519.083 | 515.210 |
| 62.0 | 525.622 | 514.321 | 509.242 | 508.353 | 504.290 |
| 62.5 | 514.131 | 504.100 | 498.830 | 498.132 | 493.942 |
| 63.0 | 503.084 | 495.084 | 490.831 | 490.513 | 487.085 |
| 63.5 | 491.910 | 485.244 | 481.879 | 481.180 | 477.625 |
| 64.0 | 485.180 | 475.657 | 472.609 | 471.213 | 467.149 |
| 64.5 | 474.705 | 465.435 | 462.134 | 460.864 | 457.055 |
| 65.0 | 462.959 | 454.515 | 451.785 | 450.579 | 446.896 |
| 65.5 | 450.960 | 443.468 | 440.992 | 440.421 | 436.675 |
| 66.0 | 439.405 | 432.675 | 430.453 | 430.199 | 426.199 |
| 66.5 | 427.977 | 421.628 | 419.723 | 419.723 | 416.168 |
| 67.0 | 416.676 | 410.644 | 409.121 | 409.311 | 406.073 |
| 67.5 | 405.565 | 399.851 | 398.455 | 398.836 | 395.661 |
| 68.0 | 394.328 | 389.058 | 387.789 | 388.296 | 384.995 |
| 68.5 | 383.027 | 378.075 | 377.059 | 377.757 | 374.519 |
| 69.0 | 371.345 | 367.028 | 366.266 | 366.647 | 363.663 |
| 69.5 | 359.981 | 356.171 | 355.282 | 355.727 | 352.997 |
| 70.0 | 348.743 | 345.188 | 344.553 | 344.743 | 342.331 |
| 70.5 | 337.696 | 334.141 | 333.696 | 333.887 | 331.601 |
| 71.0 | 326.395 | 323.157 | 323.030 | 323.284 | 320.808 |
| 71.5 | 315.094 | 312.174 | 312.428 | 312.618 | 310.459 |
| 72.0 | 304.111 | 301.127 | 301.634 | 301.888 | 300.047 |
| 72.5 | 293.127 | 290.270 | 291.095 | 291.349 | 289.826 |
| 73.0 | 282.270 | 279.667 | 280.810 | 281.128 | 279.794 |
| 73.5 | 271.731 | 269.192 | 270.525 | 271.096 | 269.636 |
| 74.0 | 261.319 | 258.716 | 260.367 | 260.811 | 259.859 |
| 74.5 | 250.907 | 248.431 | 250.272 | 250.717 | 250.018 |
| 75.0 | 240.431 | 238.209 | 240.304 | 240.749 | 240.177 |
| 75.5 | 230.083 | 227.988 | 230.400 | 230.972 | 230.337 |
| 76.0 | 219.607 | 218.147 | 220.623 | 221.258 | 220.750 |
| 76.5 | 209.703 | 208.433 | 210.909 | 211.608 | 211.163 |
| 77.0 | 200.053 | 198.656 | 201.386 | 202.021 | 201.322 |
| 77.5 | 190.085 | 189.133 | 191.863 | 192.371 | 191.672 |
| 78.0 | 180.371 | 179.609 | 182.339 | 183.101 | 182.403 |
| 78.5 | 170.721 | 170.340 | 172.943 | 173.832 | 173.260 |
| 79.0 | 161.452 | 161.071 | 163.737 | 164.816 | 164.372 |
| 79.5 | 152.182 | 151.992 | 154.658 | 155.801 | 155.420 |
| 80.0 | 143.040 | 143.103 | 145.579 | 147.167 | 146.659 |
| 80.5 | 133.834 | 134.405 | 136.945 | 138.469 | 138.088 |
| 81.0 | 125.009 | 125.898 | 128.374 | 129.961 | 129.707 |
| 81.5 | 116.502 | 117.454 | 119.994 | 121.581 | 121.390 |
| 82.0 | 108.566 | 109.200 | 111.803 | 113.454 | 113.264 |
| 82.5 | 100.629 | 101.201 | 103.740 | 105.391 | 105.264 |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 92.693  | 93.582  | 95.804  | 97.519  | 97.646  |
| 83.5  | 84.884  | 85.964  | 88.122  | 89.773  | 90.154  |
| 84.0  | 77.583  | 78.472  | 80.504  | 82.091  | 82.662  |
| 84.5  | 70.155  | 71.107  | 73.012  | 74.599  | 75.171  |
| 85.0  | 63.235  | 63.997  | 65.774  | 67.171  | 67.679  |
| 85.5  | 56.505  | 56.886  | 58.410  | 59.870  | 60.378  |
| 86.0  | 49.902  | 50.029  | 51.362  | 52.696  | 53.330  |
| 86.5  | 43.363  | 43.363  | 44.569  | 45.775  | 46.347  |
| 87.0  | 36.760  | 36.760  | 37.649  | 39.172  | 39.617  |
| 87.5  | 30.221  | 30.284  | 31.109  | 32.633  | 33.205  |
| 88.0  | 23.999  | 23.935  | 24.761  | 26.411  | 27.046  |
| 88.5  | 18.031  | 17.650  | 18.729  | 20.189  | 21.078  |
| 89.0  | 11.682  | 11.491  | 12.952  | 14.348  | 15.301  |
| 89.5  | 5.397   | 6.412   | 7.746   | 8.825   | 9.142   |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 3.993   | 2.105   | 1.943   | 1.889   | 2.051   |
| 91.0  | 8.796   | 4.641   | 3.778   | 3.724   | 3.670   |
| 91.5  | 14.139  | 9.444   | 5.612   | 5.558   | 5.504   |
| 92.0  | 19.535  | 15.704  | 8.095   | 7.231   | 7.231   |
| 92.5  | 25.148  | 22.180  | 12.520  | 9.066   | 8.904   |
| 93.0  | 30.976  | 28.386  | 17.701  | 12.034  | 10.847  |
| 93.5  | 36.858  | 34.322  | 23.259  | 16.244  | 14.139  |
| 94.0  | 42.633  | 40.150  | 29.411  | 21.262  | 18.618  |
| 94.5  | 48.569  | 45.978  | 35.833  | 26.443  | 23.475  |
| 95.0  | 54.397  | 51.969  | 42.147  | 31.732  | 28.278  |
| 95.5  | 60.225  | 57.581  | 48.299  | 37.182  | 33.351  |
| 96.0  | 65.784  | 63.301  | 54.343  | 42.848  | 38.531  |
| 96.5  | 71.396  | 69.022  | 60.387  | 48.623  | 43.874  |
| 97.0  | 76.847  | 74.634  | 66.377  | 54.397  | 49.540  |
| 97.5  | 82.459  | 80.300  | 72.421  | 60.279  | 55.207  |
| 98.0  | 88.017  | 85.859  | 78.304  | 66.108  | 60.927  |
| 98.5  | 93.576  | 91.471  | 83.970  | 72.044  | 66.647  |
| 99.0  | 99.242  | 97.246  | 89.744  | 77.710  | 72.421  |
| 99.5  | 104.963 | 102.966 | 95.573  | 83.376  | 78.088  |
| 100.0 | 110.575 | 108.740 | 101.401 | 89.205  | 83.646  |
| 100.5 | 116.403 | 114.514 | 107.229 | 95.249  | 89.259  |
| 101.0 | 122.393 | 120.289 | 113.165 | 101.347 | 95.357  |
| 101.5 | 128.491 | 126.171 | 119.209 | 107.445 | 101.671 |
| 102.0 | 134.428 | 132.269 | 125.254 | 113.543 | 107.931 |
| 102.5 | 140.634 | 138.313 | 131.514 | 119.641 | 114.137 |
| 103.0 | 147.002 | 144.573 | 137.720 | 125.685 | 120.451 |
| 103.5 | 153.369 | 150.941 | 144.303 | 132.161 | 126.711 |
| 104.0 | 159.899 | 157.363 | 150.995 | 138.853 | 133.240 |
| 104.5 | 166.645 | 164.055 | 157.687 | 145.706 | 139.770 |
| 105.0 | 173.553 | 170.908 | 164.324 | 152.452 | 146.408 |
| 105.5 | 180.622 | 177.870 | 171.178 | 159.252 | 152.992 |
| 106.0 | 187.799 | 184.885 | 178.140 | 166.159 | 159.576 |
| 106.5 | 195.031 | 192.117 | 185.425 | 173.121 | 166.213 |
| 107.0 | 202.748 | 199.672 | 193.196 | 180.514 | 173.445 |
| 107.5 | 210.735 | 207.443 | 201.075 | 188.339 | 181.270 |
| 108.0 | 218.668 | 215.430 | 209.116 | 196.812 | 189.310 |
| 108.5 | 227.032 | 223.578 | 217.157 | 205.284 | 197.621 |
| 109.0 | 235.613 | 231.889 | 225.413 | 213.865 | 206.040 |
| 109.5 | 244.409 | 240.524 | 234.102 | 222.391 | 214.566 |
| 110.0 | 253.799 | 249.374 | 243.006 | 231.134 | 223.470 |
| 110.5 | 263.405 | 258.440 | 252.126 | 240.524 | 232.699 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 273.119  | 267.938  | 261.570  | 250.291  | 241.981  |
| 111.5 | 283.048  | 277.706  | 271.176  | 260.221  | 251.532  |
| 112.0 | 293.356  | 287.743  | 280.728  | 270.150  | 260.653  |
| 112.5 | 303.717  | 298.051  | 290.387  | 280.026  | 270.312  |
| 113.0 | 314.564  | 308.682  | 300.587  | 290.226  | 280.404  |
| 113.5 | 325.735  | 319.799  | 311.380  | 301.235  | 291.251  |
| 114.0 | 337.067  | 331.131  | 322.821  | 312.945  | 303.285  |
| 114.5 | 348.778  | 342.842  | 334.477  | 325.141  | 316.075  |
| 115.0 | 360.650  | 354.876  | 346.565  | 337.445  | 329.027  |
| 115.5 | 373.062  | 367.018  | 358.977  | 349.695  | 341.816  |
| 116.0 | 385.582  | 379.646  | 371.821  | 362.593  | 354.822  |
| 116.5 | 398.804  | 392.598  | 385.097  | 375.815  | 368.691  |
| 117.0 | 412.565  | 405.819  | 398.480  | 390.061  | 382.992  |
| 117.5 | 422.710  | 416.127  | 410.730  | 403.175  | 397.509  |
| 118.0 | 435.662  | 428.161  | 423.304  | 416.720  | 410.406  |
| 118.5 | 450.718  | 442.516  | 436.148  | 429.294  | 422.009  |
| 119.0 | 465.451  | 456.655  | 450.718  | 443.541  | 434.907  |
| 119.5 | 480.345  | 471.711  | 466.153  | 458.004  | 449.369  |
| 120.0 | 495.726  | 487.307  | 481.641  | 473.816  | 464.642  |
| 120.5 | 510.998  | 503.119  | 497.614  | 490.599  | 480.939  |
| 121.0 | 527.025  | 519.254  | 513.696  | 507.328  | 498.262  |
| 121.5 | 542.891  | 535.228  | 529.724  | 524.273  | 515.207  |
| 122.0 | 559.621  | 551.526  | 546.669  | 541.272  | 532.206  |
| 122.5 | 575.810  | 567.715  | 563.398  | 558.002  | 548.288  |
| 123.0 | 592.539  | 584.984  | 580.667  | 576.350  | 566.096  |
| 123.5 | 609.808  | 602.253  | 599.015  | 594.698  | 584.445  |
| 124.0 | 627.077  | 620.062  | 616.824  | 613.046  | 603.332  |
| 124.5 | 644.346  | 637.331  | 634.632  | 630.855  | 621.681  |
| 125.0 | 661.615  | 654.600  | 651.901  | 648.663  | 639.489  |
| 125.5 | 679.424  | 672.408  | 669.710  | 666.472  | 656.758  |
| 126.0 | 696.693  | 689.677  | 688.058  | 684.280  | 674.027  |
| 126.5 | 713.961  | 706.946  | 706.406  | 703.168  | 692.375  |
| 127.0 | 731.770  | 724.754  | 724.754  | 722.056  | 711.803  |
| 127.5 | 749.579  | 742.023  | 742.023  | 740.404  | 731.230  |
| 128.0 | 766.847  | 759.292  | 759.832  | 758.753  | 749.579  |
| 128.5 | 784.116  | 776.022  | 777.101  | 777.101  | 767.387  |
| 129.0 | 801.385  | 792.751  | 794.370  | 794.909  | 785.735  |
| 129.5 | 818.654  | 810.020  | 812.178  | 813.258  | 804.623  |
| 130.0 | 835.923  | 827.289  | 829.987  | 831.606  | 824.590  |
| 130.5 | 853.192  | 844.018  | 848.335  | 849.414  | 843.478  |
| 131.0 | 870.461  | 860.747  | 865.604  | 866.683  | 860.747  |
| 131.5 | 886.650  | 876.937  | 882.873  | 882.873  | 877.476  |
| 132.0 | 903.380  | 893.126  | 899.602  | 900.142  | 893.666  |
| 132.5 | 919.569  | 909.856  | 916.331  | 916.871  | 909.856  |
| 133.0 | 935.759  | 926.585  | 932.521  | 933.600  | 925.506  |
| 133.5 | 951.949  | 942.774  | 949.250  | 950.330  | 942.235  |
| 134.0 | 968.138  | 958.424  | 964.900  | 966.519  | 958.424  |
| 134.5 | 982.709  | 974.074  | 980.011  | 981.090  | 974.074  |
| 135.0 | 997.279  | 989.185  | 994.581  | 995.660  | 988.105  |
| 135.5 | 1011.310 | 1004.835 | 1009.152 | 1009.691 | 1002.136 |
| 136.0 | 1025.341 | 1019.405 | 1022.643 | 1024.262 | 1016.707 |
| 136.5 | 1039.912 | 1033.436 | 1036.134 | 1038.833 | 1031.817 |
| 137.0 | 1053.403 | 1047.467 | 1050.165 | 1052.324 | 1045.848 |
| 137.5 | 1066.895 | 1060.419 | 1063.117 | 1064.736 | 1058.260 |
| 138.0 | 1079.846 | 1073.371 | 1075.529 | 1076.608 | 1070.133 |
| 138.5 | 1092.798 | 1085.783 | 1087.941 | 1088.481 | 1081.465 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1105.210 | 1098.195 | 1100.353 | 1100.353 | 1092.798 |
| 139.5 | 1117.622 | 1110.607 | 1112.226 | 1111.686 | 1103.591 |
| 140.0 | 1129.495 | 1121.939 | 1124.098 | 1123.558 | 1115.464 |
| 140.5 | 1140.827 | 1132.732 | 1134.891 | 1134.351 | 1125.717 |
| 141.0 | 1152.160 | 1144.065 | 1145.684 | 1144.605 | 1135.970 |
| 141.5 | 1162.413 | 1154.319 | 1156.477 | 1154.858 | 1145.144 |
| 142.0 | 1173.206 | 1165.112 | 1166.731 | 1164.572 | 1154.858 |
| 142.5 | 1183.460 | 1175.365 | 1176.984 | 1174.825 | 1164.032 |
| 143.0 | 1193.713 | 1185.079 | 1186.698 | 1184.539 | 1173.746 |
| 143.5 | 1203.427 | 1195.332 | 1196.412 | 1194.253 | 1182.920 |
| 144.0 | 1212.601 | 1205.046 | 1205.586 | 1202.887 | 1191.555 |
| 144.5 | 1221.775 | 1214.220 | 1214.760 | 1211.522 | 1200.189 |
| 145.0 | 1230.410 | 1223.394 | 1223.394 | 1219.617 | 1208.284 |
| 145.5 | 1239.584 | 1232.568 | 1232.029 | 1228.791 | 1216.918 |
| 146.0 | 1248.218 | 1241.203 | 1240.663 | 1236.886 | 1225.553 |
| 146.5 | 1256.853 | 1249.837 | 1248.758 | 1245.520 | 1234.187 |
| 147.0 | 1264.948 | 1258.472 | 1256.313 | 1254.154 | 1242.822 |
| 147.5 | 1273.042 | 1266.566 | 1264.408 | 1262.249 | 1250.917 |
| 148.0 | 1281.137 | 1274.661 | 1271.423 | 1269.804 | 1259.551 |
| 148.5 | 1289.232 | 1282.756 | 1278.439 | 1277.360 | 1268.185 |
| 149.0 | 1296.787 | 1290.851 | 1285.454 | 1284.915 | 1276.820 |
| 149.5 | 1304.342 | 1298.406 | 1291.930 | 1292.470 | 1284.915 |
| 150.0 | 1311.897 | 1305.961 | 1298.946 | 1299.485 | 1292.470 |
| 150.5 | 1319.453 | 1313.516 | 1305.422 | 1305.961 | 1300.025 |
| 151.0 | 1326.468 | 1320.532 | 1311.897 | 1312.437 | 1307.040 |
| 151.5 | 1334.023 | 1327.547 | 1318.913 | 1318.913 | 1313.516 |
| 152.0 | 1341.039 | 1334.563 | 1325.389 | 1324.849 | 1319.992 |
| 152.5 | 1348.054 | 1341.039 | 1331.865 | 1331.325 | 1325.928 |
| 153.0 | 1355.070 | 1347.514 | 1338.340 | 1337.801 | 1331.325 |
| 153.5 | 1361.545 | 1353.990 | 1344.816 | 1344.277 | 1336.182 |
| 154.0 | 1368.021 | 1360.466 | 1351.832 | 1350.752 | 1341.578 |
| 154.5 | 1375.037 | 1366.402 | 1358.308 | 1356.689 | 1346.975 |
| 155.0 | 1381.513 | 1372.339 | 1364.783 | 1363.164 | 1352.911 |
| 155.5 | 1387.449 | 1377.735 | 1371.259 | 1369.640 | 1358.847 |
| 156.0 | 1393.385 | 1383.671 | 1378.275 | 1375.576 | 1364.783 |
| 156.5 | 1399.321 | 1389.607 | 1384.751 | 1382.052 | 1370.720 |
| 157.0 | 1405.257 | 1395.544 | 1391.226 | 1388.528 | 1376.656 |
| 157.5 | 1410.654 | 1400.940 | 1397.163 | 1394.464 | 1382.592 |
| 158.0 | 1416.050 | 1406.337 | 1403.099 | 1400.401 | 1388.528 |
| 158.5 | 1421.987 | 1412.273 | 1409.035 | 1406.337 | 1395.004 |
| 159.0 | 1426.844 | 1417.669 | 1414.431 | 1412.273 | 1400.940 |
| 159.5 | 1432.240 | 1423.066 | 1419.828 | 1418.209 | 1406.876 |
| 160.0 | 1437.097 | 1427.923 | 1425.225 | 1423.606 | 1412.813 |
| 160.5 | 1441.954 | 1432.780 | 1430.081 | 1429.002 | 1418.749 |
| 161.0 | 1446.811 | 1437.637 | 1434.938 | 1434.399 | 1424.685 |
| 161.5 | 1451.668 | 1443.033 | 1439.256 | 1439.795 | 1430.621 |
| 162.0 | 1457.064 | 1447.890 | 1443.573 | 1445.192 | 1436.018 |
| 162.5 | 1461.921 | 1452.747 | 1447.890 | 1450.049 | 1440.875 |
| 163.0 | 1466.778 | 1457.604 | 1452.207 | 1454.906 | 1445.731 |
| 163.5 | 1471.635 | 1461.921 | 1456.524 | 1459.762 | 1450.049 |
| 164.0 | 1476.492 | 1466.238 | 1460.302 | 1464.080 | 1454.366 |
| 164.5 | 1480.269 | 1470.555 | 1464.080 | 1468.397 | 1458.683 |
| 165.0 | 1484.586 | 1474.873 | 1467.857 | 1472.714 | 1462.461 |
| 165.5 | 1488.904 | 1478.650 | 1471.635 | 1476.492 | 1466.238 |
| 166.0 | 1493.221 | 1482.428 | 1475.412 | 1480.269 | 1469.476 |
| 166.5 | 1497.538 | 1486.205 | 1479.190 | 1483.507 | 1473.254 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1501.316 | 1489.443 | 1482.428 | 1486.745 | 1476.492 |
| 167.5 | 1505.093 | 1492.681 | 1486.205 | 1489.983 | 1480.269 |
| 168.0 | 1508.871 | 1495.919 | 1489.443 | 1493.221 | 1483.507 |
| 168.5 | 1512.648 | 1499.157 | 1492.681 | 1496.459 | 1487.285 |
| 169.0 | 1515.886 | 1501.855 | 1495.919 | 1499.157 | 1490.523 |
| 169.5 | 1518.585 | 1504.554 | 1498.617 | 1501.855 | 1493.761 |
| 170.0 | 1521.283 | 1507.252 | 1501.316 | 1504.554 | 1497.538 |
| 170.5 | 1523.981 | 1509.950 | 1503.474 | 1507.252 | 1500.236 |
| 171.0 | 1526.679 | 1512.109 | 1505.633 | 1509.950 | 1502.935 |
| 171.5 | 1528.838 | 1514.267 | 1507.792 | 1512.648 | 1505.633 |
| 172.0 | 1530.997 | 1516.426 | 1509.410 | 1514.807 | 1507.792 |
| 172.5 | 1533.155 | 1518.585 | 1511.029 | 1516.426 | 1509.410 |
| 173.0 | 1535.314 | 1520.743 | 1512.648 | 1518.585 | 1510.490 |
| 173.5 | 1536.933 | 1522.362 | 1514.267 | 1519.664 | 1511.569 |
| 174.0 | 1538.552 | 1523.981 | 1515.886 | 1520.743 | 1512.109 |
| 174.5 | 1539.631 | 1525.060 | 1516.966 | 1521.823 | 1512.648 |
| 175.0 | 1540.710 | 1526.679 | 1518.045 | 1522.362 | 1512.648 |
| 175.5 | 1541.790 | 1527.759 | 1519.664 | 1522.902 | 1513.188 |
| 176.0 | 1542.869 | 1528.838 | 1520.743 | 1522.902 | 1513.188 |
| 176.5 | 1543.409 | 1529.917 | 1521.283 | 1523.441 | 1513.188 |
| 177.0 | 1543.948 | 1530.997 | 1522.362 | 1523.441 | 1512.648 |
| 177.5 | 1545.028 | 1532.076 | 1523.441 | 1523.441 | 1512.648 |
| 178.0 | 1545.567 | 1532.076 | 1523.981 | 1523.441 | 1513.188 |
| 178.5 | 1545.567 | 1532.616 | 1524.521 | 1523.441 | 1513.188 |
| 179.0 | 1546.107 | 1533.155 | 1524.521 | 1523.441 | 1513.188 |
| 179.5 | 1546.647 | 1533.155 | 1525.060 | 1523.441 | 1513.188 |
| 180.0 | 1527.759 | 1527.759 | 1527.759 | 1527.759 | 1527.759 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 547.01  | N.A.  | 7.00   |
| 0-30    | 1143.62 | N.A.  | 14.70  |
| 0-40    | 1837.24 | N.A.  | 23.70  |
| 0-60    | 3121.88 | N.A.  | 40.20  |
| 0-80    | 3823.09 | N.A.  | 49.30  |
| 0-90    | 3897.18 | N.A.  | 50.20  |
| 10-90   | 3754.4  | N.A.  | 48.40  |
| 20-40   | 1290.22 | N.A.  | 16.60  |
| 20-50   | 1978.78 | N.A.  | 25.50  |
| 40-70   | 1731.1  | N.A.  | 22.30  |
| 60-80   | 701.21  | N.A.  | 9.00   |
| 70-80   | 254.76  | N.A.  | 3.30   |
| 80-90   | 74.09   | N.A.  | 1.00   |
| 90-110  | 221.09  | N.A.  | 2.80   |
| 90-120  | 567.57  | N.A.  | 7.30   |
| 90-130  | 1149.8  | N.A.  | 14.80  |
| 90-150  | 2674.34 | N.A.  | 34.50  |
| 90-180  | 3865.13 | N.A.  | 49.80  |
| 110-180 | 3644.03 | N.A.  | 46.90  |
| 0-180   | 7762.31 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 142.78 |
| 10-20   | 404.23 |
| 20-30   | 596.60 |
| 30-40   | 693.62 |
| 40-50   | 688.56 |
| 50-60   | 596.08 |
| 60-70   | 446.45 |
| 70-80   | 254.76 |
| 80-90   | 74.09  |
| 90-100  | 47.69  |
| 100-110 | 173.41 |
| 110-120 | 346.47 |
| 120-130 | 582.23 |
| 130-140 | 761.32 |
| 140-150 | 763.22 |
| 150-160 | 630.46 |
| 160-170 | 415.45 |
| 170-180 | 144.88 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-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 | 34 | 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-L15-930U-L8-930D-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 | 15.9 | 16.8 | 16.9 | 17.8 | 19.0 | 15.8 | 16.7 | 16.8 | 17.7 | 18.9 |
|      | 3H   | 17.7 | 18.5 | 18.7 | 19.4 | 20.7 | 17.6 | 18.4 | 18.6 | 19.4 | 20.6 |
|      | 4H   | 18.3 | 19.0 | 19.3 | 20.0 | 21.3 | 18.2 | 19.0 | 19.2 | 19.9 | 21.2 |
|      | 6H   | 18.7 | 19.4 | 19.7 | 20.4 | 21.7 | 18.7 | 19.4 | 19.7 | 20.4 | 21.7 |
|      | 8H   | 18.9 | 19.5 | 19.9 | 20.5 | 21.8 | 18.8 | 19.5 | 19.8 | 20.5 | 21.8 |
|      | 12H  | 18.9 | 19.6 | 19.9 | 20.6 | 21.9 | 18.9 | 19.5 | 19.9 | 20.5 | 21.9 |

### UGR Viewed Endwise

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 16.5 | 17.2 | 17.5 | 18.2 | 19.5 | 16.4 | 17.1 | 17.4 | 18.1 | 19.4 |
|    | 3H  | 18.4 | 19.0 | 19.4 | 20.1 | 21.4 | 18.4 | 19.0 | 19.4 | 20.0 | 21.3 |
|    | 4H  | 19.2 | 19.7 | 20.2 | 20.7 | 22.1 | 19.1 | 19.7 | 20.1 | 20.7 | 22.0 |
|    | 6H  | 19.7 | 20.2 | 20.7 | 21.2 | 22.6 | 19.7 | 20.2 | 20.7 | 21.2 | 22.6 |
|    | 8H  | 19.9 | 20.4 | 20.9 | 21.4 | 22.7 | 19.9 | 20.4 | 20.9 | 21.4 | 22.7 |
|    | 12H | 20.0 | 20.4 | 21.1 | 21.5 | 22.8 | 20.0 | 20.4 | 21.1 | 21.5 | 22.8 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 19.4 | 19.9 | 20.4 | 20.9 | 22.2 | 19.4 | 19.8 | 20.4 | 20.8 | 22.2 |
|    | 6H  | 20.1 | 20.5 | 21.1 | 21.5 | 22.9 | 20.1 | 20.5 | 21.1 | 21.5 | 22.9 |
|    | 8H  | 20.4 | 20.7 | 21.4 | 21.7 | 23.1 | 20.4 | 20.7 | 21.4 | 21.8 | 23.1 |
|    | 12H | 20.6 | 20.8 | 21.6 | 21.9 | 23.3 | 20.6 | 20.9 | 21.7 | 21.9 | 23.3 |

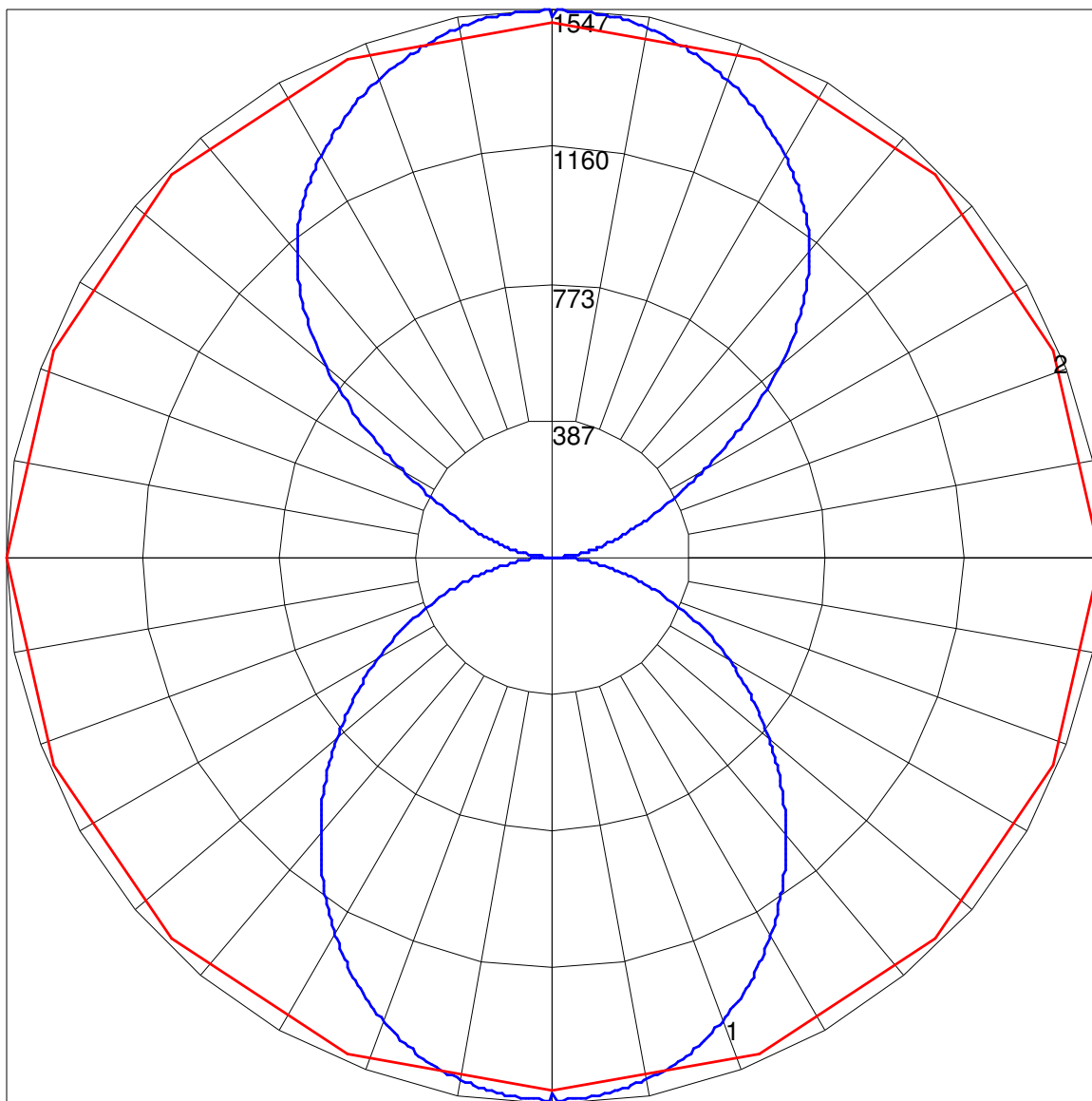
|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 19.4 | 19.8 | 20.4 | 20.9 | 22.2 | 19.4 | 19.8 | 20.4 | 20.8 | 22.2 |
|     | 6H | 20.1 | 20.5 | 21.2 | 21.5 | 22.9 | 20.1 | 20.5 | 21.2 | 21.5 | 22.9 |
|     | 8H | 20.4 | 20.7 | 21.5 | 21.8 | 23.2 | 20.5 | 20.7 | 21.5 | 21.8 | 23.2 |

Maximum UGR = 23.3

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1546.647 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.)