

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4WUDC-4-00-L8-930U-L15-930D-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 | 7729 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 100 |
| Total Luminaire Watts | 77.6 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.33 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 10484 | 10222 | 10105 |
| 55 | 9637 | 9404 | 9305 |
| 65 | 8889 | 8674 | 8581 |
| 75 | 7538 | 7534 | 7530 |
| 85 | 5887 | 6124 | 6301 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1521.251 | 1521.251 | 1521.251 | 1521.251 | 1521.251 |
| 0.5 | 1544.223 | 1522.527 | 1514.870 | 1518.060 | 1512.956 |
| 1.0 | 1544.223 | 1521.889 | 1514.870 | 1518.060 | 1512.956 |
| 1.5 | 1543.585 | 1521.251 | 1514.232 | 1518.060 | 1512.317 |
| 2.0 | 1542.947 | 1520.613 | 1513.594 | 1517.422 | 1512.317 |
| 2.5 | 1542.308 | 1519.975 | 1512.317 | 1516.784 | 1511.679 |
| 3.0 | 1541.032 | 1518.698 | 1511.679 | 1516.146 | 1510.403 |
| 3.5 | 1539.756 | 1517.422 | 1510.403 | 1514.870 | 1509.127 |
| 4.0 | 1538.480 | 1516.146 | 1509.127 | 1513.594 | 1507.851 |
| 4.5 | 1537.204 | 1514.232 | 1507.851 | 1512.317 | 1505.936 |
| 5.0 | 1535.927 | 1512.956 | 1505.936 | 1510.403 | 1504.022 |
| 5.5 | 1534.013 | 1511.041 | 1504.022 | 1508.489 | 1502.108 |
| 6.0 | 1532.099 | 1508.489 | 1502.108 | 1506.574 | 1499.555 |
| 6.5 | 1529.546 | 1506.574 | 1499.555 | 1504.022 | 1497.641 |
| 7.0 | 1527.632 | 1504.022 | 1497.641 | 1501.470 | 1495.088 |
| 7.5 | 1525.718 | 1501.470 | 1495.088 | 1498.917 | 1493.174 |
| 8.0 | 1522.527 | 1498.917 | 1491.898 | 1496.365 | 1490.622 |
| 8.5 | 1519.975 | 1495.727 | 1488.707 | 1493.174 | 1487.431 |
| 9.0 | 1516.784 | 1493.174 | 1486.155 | 1489.984 | 1484.241 |
| 9.5 | 1513.594 | 1489.984 | 1482.326 | 1486.155 | 1481.050 |
| 10.0 | 1510.403 | 1486.793 | 1479.136 | 1482.964 | 1477.221 |
| 10.5 | 1506.574 | 1482.964 | 1475.307 | 1479.136 | 1474.031 |
| 11.0 | 1503.384 | 1479.136 | 1471.478 | 1475.307 | 1469.564 |
| 11.5 | 1498.917 | 1475.307 | 1467.650 | 1471.478 | 1465.735 |
| 12.0 | 1495.088 | 1471.478 | 1463.821 | 1467.012 | 1461.269 |
| 12.5 | 1491.260 | 1467.012 | 1459.354 | 1462.545 | 1456.802 |
| 13.0 | 1486.793 | 1463.183 | 1454.888 | 1458.078 | 1452.335 |
| 13.5 | 1482.326 | 1458.078 | 1450.421 | 1452.973 | 1447.868 |
| 14.0 | 1477.860 | 1453.611 | 1445.316 | 1448.507 | 1443.402 |
| 14.5 | 1473.393 | 1449.145 | 1440.211 | 1443.402 | 1438.297 |
| 15.0 | 1468.926 | 1444.040 | 1435.106 | 1438.297 | 1433.192 |
| 15.5 | 1463.183 | 1439.573 | 1430.001 | 1432.554 | 1427.449 |
| 16.0 | 1456.802 | 1434.468 | 1424.258 | 1427.449 | 1422.344 |
| 16.5 | 1450.421 | 1428.725 | 1418.515 | 1421.706 | 1416.601 |
| 17.0 | 1444.678 | 1422.982 | 1412.772 | 1415.963 | 1410.858 |
| 17.5 | 1438.297 | 1416.601 | 1406.391 | 1409.582 | 1404.477 |
| 18.0 | 1431.916 | 1410.220 | 1400.010 | 1403.201 | 1398.096 |
| 18.5 | 1425.535 | 1403.839 | 1393.629 | 1396.182 | 1391.715 |
| 19.0 | 1419.154 | 1397.458 | 1387.886 | 1389.801 | 1384.058 |
| 19.5 | 1412.134 | 1391.077 | 1381.505 | 1382.143 | 1376.400 |
| 20.0 | 1405.753 | 1384.058 | 1375.762 | 1375.124 | 1368.743 |
| 20.5 | 1398.734 | 1377.676 | 1369.381 | 1367.467 | 1361.086 |
| 21.0 | 1391.715 | 1370.657 | 1362.362 | 1359.809 | 1352.790 |
| 21.5 | 1384.058 | 1363.638 | 1354.705 | 1352.152 | 1344.495 |
| 22.0 | 1377.038 | 1355.981 | 1346.409 | 1343.857 | 1336.838 |
| 22.5 | 1369.381 | 1348.323 | 1338.752 | 1335.561 | 1328.542 |
| 23.0 | 1361.724 | 1340.666 | 1331.095 | 1326.628 | 1320.247 |
| 23.5 | 1354.066 | 1333.009 | 1322.799 | 1318.332 | 1312.589 |
| 24.0 | 1345.771 | 1325.352 | 1315.142 | 1310.037 | 1304.294 |
| 24.5 | 1337.476 | 1317.056 | 1306.846 | 1301.742 | 1295.999 |
| 25.0 | 1329.818 | 1308.761 | 1298.551 | 1293.446 | 1287.703 |
| 25.5 | 1321.523 | 1300.465 | 1289.617 | 1285.151 | 1278.770 |
| 26.0 | 1312.589 | 1291.532 | 1281.322 | 1276.855 | 1270.474 |
| 26.5 | 1304.294 | 1283.236 | 1272.389 | 1268.560 | 1262.179 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1295.360 | 1274.303 | 1263.455 | 1260.264 | 1253.245 |
| 27.5 | 1286.427 | 1265.369 | 1255.160 | 1251.969 | 1244.950 |
| 28.0 | 1277.493 | 1255.798 | 1245.588 | 1243.036 | 1236.016 |
| 28.5 | 1267.922 | 1246.226 | 1236.654 | 1234.740 | 1227.083 |
| 29.0 | 1258.350 | 1237.293 | 1227.721 | 1225.807 | 1218.149 |
| 29.5 | 1249.417 | 1227.721 | 1218.787 | 1216.235 | 1209.854 |
| 30.0 | 1239.845 | 1218.149 | 1209.854 | 1207.301 | 1200.920 |
| 30.5 | 1230.273 | 1208.578 | 1200.282 | 1198.368 | 1191.987 |
| 31.0 | 1220.064 | 1199.644 | 1190.711 | 1188.796 | 1183.053 |
| 31.5 | 1210.492 | 1190.073 | 1181.139 | 1179.225 | 1173.482 |
| 32.0 | 1200.282 | 1179.863 | 1171.567 | 1169.015 | 1163.910 |
| 32.5 | 1190.073 | 1170.291 | 1161.996 | 1159.443 | 1153.700 |
| 33.0 | 1179.863 | 1160.720 | 1152.424 | 1149.872 | 1143.491 |
| 33.5 | 1170.291 | 1150.510 | 1142.214 | 1139.662 | 1133.919 |
| 34.0 | 1159.443 | 1140.300 | 1132.643 | 1129.452 | 1123.709 |
| 34.5 | 1149.234 | 1130.090 | 1121.795 | 1119.242 | 1112.861 |
| 35.0 | 1139.024 | 1120.519 | 1111.585 | 1109.033 | 1102.014 |
| 35.5 | 1128.176 | 1109.671 | 1101.375 | 1098.823 | 1091.166 |
| 36.0 | 1117.328 | 1099.461 | 1091.166 | 1087.975 | 1080.956 |
| 36.5 | 1107.118 | 1089.251 | 1080.956 | 1077.765 | 1070.746 |
| 37.0 | 1096.271 | 1078.404 | 1070.108 | 1066.918 | 1059.898 |
| 37.5 | 1085.423 | 1067.556 | 1059.898 | 1056.070 | 1049.689 |
| 38.0 | 1073.937 | 1056.708 | 1049.051 | 1045.222 | 1038.841 |
| 38.5 | 1063.089 | 1045.860 | 1038.203 | 1035.012 | 1027.993 |
| 39.0 | 1052.879 | 1035.012 | 1027.355 | 1024.164 | 1017.783 |
| 39.5 | 1041.393 | 1024.164 | 1017.145 | 1013.316 | 1006.297 |
| 40.0 | 1030.545 | 1012.678 | 1006.297 | 1002.469 | 996.088 |
| 40.5 | 1019.059 | 1001.831 | 995.449 | 991.621 | 985.240 |
| 41.0 | 1008.212 | 990.345 | 984.602 | 980.135 | 973.754 |
| 41.5 | 996.726 | 979.497 | 973.116 | 969.287 | 962.268 |
| 42.0 | 985.878 | 968.011 | 962.268 | 958.439 | 951.420 |
| 42.5 | 975.030 | 957.163 | 951.420 | 946.953 | 940.572 |
| 43.0 | 963.544 | 946.315 | 940.572 | 936.105 | 929.086 |
| 43.5 | 952.696 | 934.829 | 929.086 | 925.257 | 918.238 |
| 44.0 | 941.210 | 923.343 | 917.600 | 913.772 | 907.390 |
| 44.5 | 929.724 | 911.857 | 906.114 | 902.286 | 895.904 |
| 45.0 | 918.238 | 901.009 | 895.266 | 890.800 | 885.057 |
| 45.5 | 907.390 | 889.523 | 883.780 | 879.952 | 874.209 |
| 46.0 | 895.904 | 878.037 | 872.294 | 868.466 | 863.361 |
| 46.5 | 884.419 | 866.551 | 861.447 | 857.618 | 852.513 |
| 47.0 | 872.933 | 855.066 | 849.961 | 846.132 | 841.027 |
| 47.5 | 860.809 | 843.580 | 838.475 | 834.646 | 830.179 |
| 48.0 | 849.323 | 832.094 | 826.989 | 823.798 | 818.693 |
| 48.5 | 837.837 | 820.608 | 816.141 | 812.312 | 807.207 |
| 49.0 | 825.713 | 809.122 | 804.655 | 800.826 | 796.360 |
| 49.5 | 814.227 | 797.636 | 793.169 | 789.978 | 785.512 |
| 50.0 | 802.103 | 786.150 | 781.683 | 778.492 | 774.026 |
| 50.5 | 789.978 | 774.664 | 770.197 | 767.007 | 763.178 |
| 51.0 | 777.854 | 763.178 | 758.711 | 755.521 | 751.692 |
| 51.5 | 766.368 | 751.692 | 747.225 | 744.673 | 740.206 |
| 52.0 | 754.882 | 740.206 | 735.739 | 733.187 | 729.358 |
| 52.5 | 742.758 | 728.720 | 724.253 | 722.339 | 717.872 |
| 53.0 | 731.272 | 717.234 | 712.767 | 710.853 | 706.386 |
| 53.5 | 719.148 | 705.748 | 701.281 | 699.367 | 694.900 |
| 54.0 | 707.662 | 694.262 | 690.434 | 688.519 | 683.414 |
| 54.5 | 696.176 | 683.414 | 678.948 | 677.033 | 671.928 |

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| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 684.691 | 672.566 | 668.100 | 666.185 | 661.081 |
| 55.5 | 673.843 | 661.081 | 656.614 | 654.699 | 650.233 |
| 56.0 | 661.719 | 649.595 | 645.128 | 643.852 | 638.747 |
| 56.5 | 650.233 | 638.747 | 633.961 | 632.557 | 627.516 |
| 57.0 | 639.385 | 627.261 | 622.666 | 621.135 | 616.349 |
| 57.5 | 628.154 | 616.158 | 611.436 | 610.032 | 605.055 |
| 58.0 | 616.923 | 605.182 | 600.141 | 598.865 | 593.888 |
| 58.5 | 605.629 | 594.143 | 589.038 | 587.889 | 583.167 |
| 59.0 | 594.526 | 583.040 | 577.871 | 576.786 | 572.256 |
| 59.5 | 583.742 | 571.809 | 566.513 | 565.747 | 561.472 |
| 60.0 | 572.703 | 560.642 | 555.282 | 554.644 | 550.496 |
| 60.5 | 561.791 | 549.731 | 544.434 | 543.477 | 539.393 |
| 61.0 | 551.071 | 538.819 | 533.650 | 532.565 | 528.545 |
| 61.5 | 539.585 | 528.035 | 522.930 | 521.718 | 517.825 |
| 62.0 | 528.290 | 516.932 | 511.827 | 510.934 | 506.850 |
| 62.5 | 516.740 | 506.658 | 501.362 | 500.660 | 496.448 |
| 63.0 | 505.637 | 497.597 | 493.322 | 493.003 | 489.557 |
| 63.5 | 494.407 | 487.706 | 484.324 | 483.623 | 480.049 |
| 64.0 | 487.643 | 478.071 | 475.008 | 473.604 | 469.520 |
| 64.5 | 477.114 | 467.797 | 464.479 | 463.203 | 459.374 |
| 65.0 | 465.309 | 456.822 | 454.078 | 452.866 | 449.165 |
| 65.5 | 453.249 | 445.719 | 443.230 | 442.656 | 438.891 |
| 66.0 | 441.635 | 434.871 | 432.638 | 432.382 | 428.362 |
| 66.5 | 430.149 | 423.768 | 421.854 | 421.854 | 418.280 |
| 67.0 | 418.791 | 412.729 | 411.197 | 411.389 | 408.134 |
| 67.5 | 407.624 | 401.881 | 400.477 | 400.860 | 397.669 |
| 68.0 | 396.329 | 391.033 | 389.757 | 390.267 | 386.949 |
| 68.5 | 384.971 | 379.994 | 378.973 | 379.675 | 376.420 |
| 69.0 | 373.230 | 368.891 | 368.125 | 368.508 | 365.509 |
| 69.5 | 361.808 | 357.979 | 357.086 | 357.532 | 354.788 |
| 70.0 | 350.513 | 346.940 | 346.302 | 346.493 | 344.068 |
| 70.5 | 339.410 | 335.837 | 335.390 | 335.581 | 333.284 |
| 71.0 | 328.052 | 324.797 | 324.670 | 324.925 | 322.436 |
| 71.5 | 316.693 | 313.758 | 314.013 | 314.205 | 312.035 |
| 72.0 | 305.654 | 302.655 | 303.165 | 303.421 | 301.570 |
| 72.5 | 294.615 | 291.743 | 292.573 | 292.828 | 291.297 |
| 73.0 | 283.703 | 281.087 | 282.235 | 282.554 | 281.214 |
| 73.5 | 273.110 | 270.558 | 271.898 | 272.472 | 271.005 |
| 74.0 | 262.646 | 260.029 | 261.688 | 262.135 | 261.178 |
| 74.5 | 252.181 | 249.692 | 251.542 | 251.989 | 251.287 |
| 75.0 | 241.652 | 239.418 | 241.524 | 241.971 | 241.396 |
| 75.5 | 231.251 | 229.145 | 231.570 | 232.144 | 231.506 |
| 76.0 | 220.722 | 219.254 | 221.743 | 222.381 | 221.870 |
| 76.5 | 210.767 | 209.491 | 211.980 | 212.682 | 212.235 |
| 77.0 | 201.068 | 199.664 | 202.408 | 203.046 | 202.344 |
| 77.5 | 191.050 | 190.093 | 192.836 | 193.347 | 192.645 |
| 78.0 | 181.287 | 180.521 | 183.265 | 184.030 | 183.329 |
| 78.5 | 171.587 | 171.205 | 173.821 | 174.714 | 174.140 |
| 79.0 | 162.271 | 161.888 | 164.568 | 165.653 | 165.206 |
| 79.5 | 152.955 | 152.763 | 155.443 | 156.592 | 156.209 |
| 80.0 | 143.766 | 143.830 | 146.318 | 147.914 | 147.403 |
| 80.5 | 134.513 | 135.088 | 137.640 | 139.171 | 138.789 |
| 81.0 | 125.644 | 126.537 | 129.026 | 130.621 | 130.366 |
| 81.5 | 117.093 | 118.050 | 120.603 | 122.198 | 122.006 |
| 82.0 | 109.117 | 109.755 | 112.371 | 114.030 | 113.839 |
| 82.5 | 101.140 | 101.714 | 104.267 | 105.926 | 105.798 |

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| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 93.164 | 94.057 | 96.291 | 98.014 | 98.141 |
| 83.5 | 85.315 | 86.400 | 88.569 | 90.229 | 90.611 |
| 84.0 | 77.977 | 78.870 | 80.912 | 82.507 | 83.082 |
| 84.5 | 70.511 | 71.468 | 73.382 | 74.978 | 75.552 |
| 85.0 | 63.556 | 64.321 | 66.108 | 67.512 | 68.022 |
| 85.5 | 56.792 | 57.175 | 58.706 | 60.174 | 60.684 |
| 86.0 | 50.155 | 50.283 | 51.623 | 52.963 | 53.601 |
| 86.5 | 43.583 | 43.583 | 44.795 | 46.008 | 46.582 |
| 87.0 | 36.947 | 36.947 | 37.840 | 39.371 | 39.818 |
| 87.5 | 30.374 | 30.438 | 31.267 | 32.799 | 33.373 |
| 88.0 | 24.120 | 24.057 | 24.886 | 26.545 | 27.183 |
| 88.5 | 18.122 | 17.739 | 18.824 | 20.292 | 21.185 |
| 89.0 | 11.741 | 11.550 | 13.017 | 14.421 | 15.378 |
| 89.5 | 5.424 | 6.445 | 7.785 | 8.870 | 9.189 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.5 | 3.939 | 2.076 | 1.916 | 1.863 | 2.023 |
| 91.0 | 8.676 | 4.577 | 3.726 | 3.672 | 3.619 |
| 91.5 | 13.945 | 9.314 | 5.535 | 5.482 | 5.429 |
| 92.0 | 19.267 | 15.488 | 7.984 | 7.132 | 7.132 |
| 92.5 | 24.802 | 21.875 | 12.348 | 8.942 | 8.782 |
| 93.0 | 30.551 | 27.996 | 17.457 | 11.869 | 10.698 |
| 93.5 | 36.352 | 33.850 | 22.940 | 16.020 | 13.945 |
| 94.0 | 42.047 | 39.599 | 29.007 | 20.970 | 18.362 |
| 94.5 | 47.902 | 45.347 | 35.341 | 26.080 | 23.152 |
| 95.0 | 53.650 | 51.255 | 41.568 | 31.296 | 27.889 |
| 95.5 | 59.398 | 56.790 | 47.636 | 36.671 | 32.892 |
| 96.0 | 64.880 | 62.432 | 53.597 | 42.260 | 38.002 |
| 96.5 | 70.415 | 68.074 | 59.558 | 47.955 | 43.271 |
| 97.0 | 75.791 | 73.609 | 65.466 | 53.650 | 48.860 |
| 97.5 | 81.326 | 79.197 | 71.427 | 59.451 | 54.448 |
| 98.0 | 86.808 | 84.679 | 77.228 | 65.199 | 60.090 |
| 98.5 | 92.290 | 90.215 | 82.817 | 71.054 | 65.732 |
| 99.0 | 97.879 | 95.910 | 88.512 | 76.643 | 71.427 |
| 99.5 | 103.521 | 101.551 | 94.260 | 82.231 | 77.015 |
| 100.0 | 109.056 | 107.246 | 100.008 | 87.979 | 82.497 |
| 100.5 | 114.804 | 112.941 | 105.756 | 93.940 | 88.033 |
| 101.0 | 120.712 | 118.636 | 111.611 | 99.955 | 94.047 |
| 101.5 | 126.726 | 124.438 | 117.572 | 105.969 | 100.274 |
| 102.0 | 132.581 | 130.452 | 123.533 | 111.983 | 106.448 |
| 102.5 | 138.702 | 136.413 | 129.707 | 117.998 | 112.569 |
| 103.0 | 144.982 | 142.587 | 135.828 | 123.959 | 118.796 |
| 103.5 | 151.263 | 148.868 | 142.321 | 130.346 | 124.970 |
| 104.0 | 157.703 | 155.201 | 148.921 | 136.945 | 131.410 |
| 104.5 | 164.356 | 161.801 | 155.521 | 143.705 | 137.850 |
| 105.0 | 171.168 | 168.561 | 162.067 | 150.358 | 144.397 |
| 105.5 | 178.141 | 175.426 | 168.827 | 157.064 | 150.890 |
| 106.0 | 185.220 | 182.346 | 175.693 | 163.877 | 157.383 |
| 106.5 | 192.352 | 189.478 | 182.878 | 170.743 | 163.930 |
| 107.0 | 199.963 | 196.929 | 190.542 | 178.034 | 171.062 |
| 107.5 | 207.840 | 204.593 | 198.313 | 185.752 | 178.780 |
| 108.0 | 215.664 | 212.470 | 206.243 | 194.108 | 186.710 |
| 108.5 | 223.914 | 220.507 | 214.174 | 202.464 | 194.906 |
| 109.0 | 232.376 | 228.704 | 222.317 | 210.927 | 203.209 |
| 109.5 | 241.052 | 237.220 | 230.886 | 219.336 | 211.619 |
| 110.0 | 250.313 | 245.948 | 239.668 | 227.959 | 220.401 |
| 110.5 | 259.787 | 254.890 | 248.663 | 237.220 | 229.502 |

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| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 269.367 | 264.257 | 257.977 | 246.853 | 238.657 |
| 111.5 | 279.160 | 273.891 | 267.451 | 256.646 | 248.077 |
| 112.0 | 289.326 | 283.791 | 276.871 | 266.440 | 257.072 |
| 112.5 | 299.545 | 293.956 | 286.399 | 276.180 | 266.599 |
| 113.0 | 310.243 | 304.441 | 296.458 | 286.239 | 276.552 |
| 113.5 | 321.260 | 315.406 | 307.103 | 297.097 | 287.250 |
| 114.0 | 332.437 | 326.583 | 318.386 | 308.646 | 299.119 |
| 114.5 | 343.987 | 338.132 | 329.883 | 320.675 | 311.733 |
| 115.0 | 355.696 | 350.001 | 341.805 | 332.810 | 324.507 |
| 115.5 | 367.938 | 361.977 | 354.046 | 344.892 | 337.121 |
| 116.0 | 380.286 | 374.431 | 366.714 | 357.612 | 349.948 |
| 116.5 | 393.326 | 387.205 | 379.807 | 370.652 | 363.627 |
| 117.0 | 406.898 | 400.245 | 393.006 | 384.703 | 377.731 |
| 117.5 | 416.904 | 410.411 | 405.088 | 397.637 | 392.048 |
| 118.0 | 429.678 | 422.279 | 417.489 | 410.996 | 404.769 |
| 118.5 | 444.527 | 436.437 | 430.157 | 423.397 | 416.212 |
| 119.0 | 459.057 | 450.382 | 444.527 | 437.448 | 428.932 |
| 119.5 | 473.747 | 465.231 | 459.749 | 451.712 | 443.197 |
| 120.0 | 488.916 | 480.613 | 475.024 | 467.307 | 458.259 |
| 120.5 | 503.978 | 496.208 | 490.779 | 483.860 | 474.333 |
| 121.0 | 519.786 | 512.122 | 506.640 | 500.359 | 491.417 |
| 121.5 | 535.434 | 527.876 | 522.447 | 517.071 | 508.130 |
| 122.0 | 551.933 | 543.950 | 539.159 | 533.837 | 524.895 |
| 122.5 | 567.900 | 559.917 | 555.659 | 550.336 | 540.756 |
| 123.0 | 584.400 | 576.949 | 572.691 | 568.433 | 558.320 |
| 123.5 | 601.432 | 593.980 | 590.787 | 586.529 | 576.416 |
| 124.0 | 618.463 | 611.544 | 608.351 | 604.625 | 595.045 |
| 124.5 | 635.495 | 628.576 | 625.915 | 622.189 | 613.141 |
| 125.0 | 652.527 | 645.608 | 642.946 | 639.753 | 630.705 |
| 125.5 | 670.091 | 663.171 | 660.510 | 657.317 | 647.736 |
| 126.0 | 687.122 | 680.203 | 678.606 | 674.881 | 664.768 |
| 126.5 | 704.154 | 697.235 | 696.703 | 693.509 | 682.864 |
| 127.0 | 721.718 | 714.799 | 714.799 | 712.138 | 702.025 |
| 127.5 | 739.282 | 731.830 | 731.830 | 730.234 | 721.186 |
| 128.0 | 756.313 | 748.862 | 749.394 | 748.330 | 739.282 |
| 128.5 | 773.345 | 765.362 | 766.426 | 766.426 | 756.846 |
| 129.0 | 790.377 | 781.861 | 783.458 | 783.990 | 774.942 |
| 129.5 | 807.409 | 798.893 | 801.022 | 802.086 | 793.570 |
| 130.0 | 824.440 | 815.924 | 818.586 | 820.182 | 813.263 |
| 130.5 | 841.472 | 832.424 | 836.682 | 837.746 | 831.892 |
| 131.0 | 858.504 | 848.923 | 853.713 | 854.778 | 848.923 |
| 131.5 | 874.471 | 864.891 | 870.745 | 870.745 | 865.423 |
| 132.0 | 890.970 | 880.858 | 887.245 | 887.777 | 881.390 |
| 132.5 | 906.938 | 897.357 | 903.744 | 904.276 | 897.357 |
| 133.0 | 922.905 | 913.857 | 919.711 | 920.776 | 912.792 |
| 133.5 | 938.872 | 929.824 | 936.211 | 937.275 | 929.292 |
| 134.0 | 954.839 | 945.259 | 951.646 | 953.242 | 945.259 |
| 134.5 | 969.210 | 960.694 | 966.548 | 967.613 | 960.694 |
| 135.0 | 983.580 | 975.597 | 980.919 | 981.983 | 974.532 |
| 135.5 | 997.418 | 991.031 | 995.289 | 995.822 | 988.370 |
| 136.0 | 1011.257 | 1005.402 | 1008.595 | 1010.192 | 1002.741 |
| 136.5 | 1025.627 | 1019.240 | 1021.901 | 1024.563 | 1017.643 |
| 137.0 | 1038.933 | 1033.078 | 1035.740 | 1037.869 | 1031.482 |
| 137.5 | 1052.239 | 1045.852 | 1048.513 | 1050.110 | 1043.723 |
| 138.0 | 1065.013 | 1058.626 | 1060.755 | 1061.819 | 1055.433 |
| 138.5 | 1077.787 | 1070.868 | 1072.996 | 1073.529 | 1066.610 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1090.028 | 1083.109 | 1085.238 | 1085.238 | 1077.787 |
| 139.5 | 1102.270 | 1095.351 | 1096.947 | 1096.415 | 1088.431 |
| 140.0 | 1113.979 | 1106.528 | 1108.657 | 1108.124 | 1100.141 |
| 140.5 | 1125.156 | 1117.172 | 1119.301 | 1118.769 | 1110.253 |
| 141.0 | 1136.333 | 1128.349 | 1129.946 | 1128.882 | 1120.366 |
| 141.5 | 1146.446 | 1138.462 | 1140.591 | 1138.994 | 1129.414 |
| 142.0 | 1157.090 | 1149.107 | 1150.704 | 1148.575 | 1138.994 |
| 142.5 | 1167.203 | 1159.219 | 1160.816 | 1158.687 | 1148.042 |
| 143.0 | 1177.316 | 1168.800 | 1170.396 | 1168.268 | 1157.623 |
| 143.5 | 1186.896 | 1178.912 | 1179.977 | 1177.848 | 1166.671 |
| 144.0 | 1195.944 | 1188.493 | 1189.025 | 1186.364 | 1175.187 |
| 144.5 | 1204.992 | 1197.541 | 1198.073 | 1194.880 | 1183.702 |
| 145.0 | 1213.508 | 1206.589 | 1206.589 | 1202.863 | 1191.686 |
| 145.5 | 1222.556 | 1215.637 | 1215.105 | 1211.911 | 1200.202 |
| 146.0 | 1231.072 | 1224.153 | 1223.621 | 1219.895 | 1208.718 |
| 146.5 | 1239.588 | 1232.669 | 1231.604 | 1228.411 | 1217.234 |
| 147.0 | 1247.571 | 1241.184 | 1239.055 | 1236.927 | 1225.749 |
| 147.5 | 1255.555 | 1249.168 | 1247.039 | 1244.910 | 1233.733 |
| 148.0 | 1263.539 | 1257.152 | 1253.958 | 1252.361 | 1242.249 |
| 148.5 | 1271.522 | 1265.135 | 1260.877 | 1259.813 | 1250.765 |
| 149.0 | 1278.973 | 1273.119 | 1267.796 | 1267.264 | 1259.281 |
| 149.5 | 1286.425 | 1280.570 | 1274.183 | 1274.716 | 1267.264 |
| 150.0 | 1293.876 | 1288.022 | 1281.102 | 1281.635 | 1274.716 |
| 150.5 | 1301.328 | 1295.473 | 1287.489 | 1288.022 | 1282.167 |
| 151.0 | 1308.247 | 1302.392 | 1293.876 | 1294.408 | 1289.086 |
| 151.5 | 1315.698 | 1309.311 | 1300.795 | 1300.795 | 1295.473 |
| 152.0 | 1322.617 | 1316.230 | 1307.182 | 1306.650 | 1301.860 |
| 152.5 | 1329.536 | 1322.617 | 1313.569 | 1313.037 | 1307.714 |
| 153.0 | 1336.455 | 1329.004 | 1319.956 | 1319.424 | 1313.037 |
| 153.5 | 1342.842 | 1335.391 | 1326.343 | 1325.811 | 1317.827 |
| 154.0 | 1349.229 | 1341.778 | 1333.262 | 1332.198 | 1323.149 |
| 154.5 | 1356.148 | 1347.632 | 1339.649 | 1338.052 | 1328.472 |
| 155.0 | 1362.535 | 1353.487 | 1346.036 | 1344.439 | 1334.326 |
| 155.5 | 1368.390 | 1358.810 | 1352.423 | 1350.826 | 1340.181 |
| 156.0 | 1374.245 | 1364.664 | 1359.342 | 1356.681 | 1346.036 |
| 156.5 | 1380.099 | 1370.519 | 1365.729 | 1363.067 | 1351.890 |
| 157.0 | 1385.954 | 1376.373 | 1372.116 | 1369.454 | 1357.745 |
| 157.5 | 1391.276 | 1381.696 | 1377.970 | 1375.309 | 1363.600 |
| 158.0 | 1396.599 | 1387.018 | 1383.825 | 1381.164 | 1369.454 |
| 158.5 | 1402.453 | 1392.873 | 1389.679 | 1387.018 | 1375.841 |
| 159.0 | 1407.243 | 1398.195 | 1395.002 | 1392.873 | 1381.696 |
| 159.5 | 1412.566 | 1403.518 | 1400.324 | 1398.728 | 1387.551 |
| 160.0 | 1417.356 | 1408.308 | 1405.647 | 1404.050 | 1393.405 |
| 160.5 | 1422.146 | 1413.098 | 1410.437 | 1409.372 | 1399.260 |
| 161.0 | 1426.936 | 1417.888 | 1415.227 | 1414.695 | 1405.114 |
| 161.5 | 1431.726 | 1423.211 | 1419.485 | 1420.017 | 1410.969 |
| 162.0 | 1437.049 | 1428.001 | 1423.743 | 1425.340 | 1416.291 |
| 162.5 | 1441.839 | 1432.791 | 1428.001 | 1430.130 | 1421.082 |
| 163.0 | 1446.629 | 1437.581 | 1432.259 | 1434.920 | 1425.872 |
| 163.5 | 1451.419 | 1441.839 | 1436.517 | 1439.710 | 1430.130 |
| 164.0 | 1456.210 | 1446.097 | 1440.242 | 1443.968 | 1434.388 |
| 164.5 | 1459.935 | 1450.355 | 1443.968 | 1448.226 | 1438.646 |
| 165.0 | 1464.193 | 1454.613 | 1447.694 | 1452.484 | 1442.371 |
| 165.5 | 1468.451 | 1458.338 | 1451.419 | 1456.210 | 1446.097 |
| 166.0 | 1472.709 | 1462.064 | 1455.145 | 1459.935 | 1449.290 |
| 166.5 | 1476.967 | 1465.790 | 1458.871 | 1463.129 | 1453.016 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1480.693 | 1468.983 | 1462.064 | 1466.322 | 1456.210 |
| 167.5 | 1484.418 | 1472.177 | 1465.790 | 1469.516 | 1459.935 |
| 168.0 | 1488.144 | 1475.370 | 1468.983 | 1472.709 | 1463.129 |
| 168.5 | 1491.870 | 1478.564 | 1472.177 | 1475.902 | 1466.854 |
| 169.0 | 1495.063 | 1481.225 | 1475.370 | 1478.564 | 1470.048 |
| 169.5 | 1497.724 | 1483.886 | 1478.031 | 1481.225 | 1473.241 |
| 170.0 | 1500.385 | 1486.547 | 1480.693 | 1483.886 | 1476.967 |
| 170.5 | 1503.047 | 1489.208 | 1482.822 | 1486.547 | 1479.628 |
| 171.0 | 1505.708 | 1491.337 | 1484.950 | 1489.208 | 1482.289 |
| 171.5 | 1507.837 | 1493.466 | 1487.079 | 1491.870 | 1484.950 |
| 172.0 | 1509.966 | 1495.595 | 1488.676 | 1493.999 | 1487.079 |
| 172.5 | 1512.095 | 1497.724 | 1490.273 | 1495.595 | 1488.676 |
| 173.0 | 1514.224 | 1499.853 | 1491.870 | 1497.724 | 1489.741 |
| 173.5 | 1515.820 | 1501.450 | 1493.466 | 1498.789 | 1490.805 |
| 174.0 | 1517.417 | 1503.047 | 1495.063 | 1499.853 | 1491.337 |
| 174.5 | 1518.482 | 1504.111 | 1496.128 | 1500.918 | 1491.870 |
| 175.0 | 1519.546 | 1505.708 | 1497.192 | 1501.450 | 1491.870 |
| 175.5 | 1520.611 | 1506.772 | 1498.789 | 1501.982 | 1492.402 |
| 176.0 | 1521.675 | 1507.837 | 1499.853 | 1501.982 | 1492.402 |
| 176.5 | 1522.207 | 1508.901 | 1500.385 | 1502.514 | 1492.402 |
| 177.0 | 1522.740 | 1509.966 | 1501.450 | 1502.514 | 1491.870 |
| 177.5 | 1523.804 | 1511.030 | 1502.514 | 1502.514 | 1491.870 |
| 178.0 | 1524.336 | 1511.030 | 1503.047 | 1502.514 | 1492.402 |
| 178.5 | 1524.336 | 1511.563 | 1503.579 | 1502.514 | 1492.402 |
| 179.0 | 1524.869 | 1512.095 | 1503.579 | 1502.514 | 1492.402 |
| 179.5 | 1525.401 | 1512.095 | 1504.111 | 1502.514 | 1492.402 |
| 180.0 | 1506.772 | 1506.772 | 1506.772 | 1506.772 | 1506.772 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 549.79 | N.A. | 7.10 |
| 0-30 | 1149.42 | N.A. | 14.90 |
| 0-40 | 1846.56 | N.A. | 23.90 |
| 0-60 | 3137.72 | N.A. | 40.60 |
| 0-80 | 3842.49 | N.A. | 49.70 |
| 0-90 | 3916.96 | N.A. | 50.70 |
| 10-90 | 3773.45 | N.A. | 48.80 |
| 20-40 | 1296.77 | N.A. | 16.80 |
| 20-50 | 1988.82 | N.A. | 25.70 |
| 40-70 | 1739.88 | N.A. | 22.50 |
| 60-80 | 704.77 | N.A. | 9.10 |
| 70-80 | 256.05 | N.A. | 3.30 |
| 80-90 | 74.47 | N.A. | 1.00 |
| 90-110 | 218.06 | N.A. | 2.80 |
| 90-120 | 559.77 | N.A. | 7.20 |
| 90-130 | 1134.00 | N.A. | 14.70 |
| 90-150 | 2637.6 | N.A. | 34.10 |
| 90-180 | 3812.03 | N.A. | 49.30 |
| 110-180 | 3593.98 | N.A. | 46.50 |
| 0-180 | 7728.99 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 143.51 |
| 10-20 | 406.28 |
| 20-30 | 599.63 |
| 30-40 | 697.14 |
| 40-50 | 692.05 |
| 50-60 | 599.11 |
| 60-70 | 448.72 |
| 70-80 | 256.05 |
| 80-90 | 74.47 |
| 90-100 | 47.03 |
| 100-110 | 171.02 |
| 110-120 | 341.71 |
| 120-130 | 574.23 |
| 130-140 | 750.86 |
| 140-150 | 752.74 |
| 150-160 | 621.80 |
| 160-170 | 409.74 |
| 170-180 | 142.89 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-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 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 73 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2 | 89 | 82 | 76 | 70 | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 36 |
| 3 | 81 | 72 | 64 | 59 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 34 | 30 |
| 4 | 74 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 30 | 26 |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 45 | 40 | 45 | 39 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 23 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 29 | 25 | 23 | 20 |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 |
| 9 | 50 | 38 | 31 | 25 | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 | 13 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-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 | 16.0 | 16.9 | 17.0 | 17.9 | 19.1 | 15.9 | 16.8 | 16.9 | 17.8 | 19.0 |
| | 3H | 17.8 | 18.6 | 18.7 | 19.5 | 20.8 | 17.7 | 18.5 | 18.6 | 19.4 | 20.7 |
| | 4H | 18.4 | 19.1 | 19.4 | 20.1 | 21.4 | 18.3 | 19.1 | 19.3 | 20.0 | 21.3 |
| | 6H | 18.8 | 19.5 | 19.8 | 20.5 | 21.8 | 18.8 | 19.5 | 19.8 | 20.4 | 21.7 |
| | 8H | 19.0 | 19.6 | 19.9 | 20.6 | 21.9 | 18.9 | 19.6 | 19.9 | 20.6 | 21.9 |
| | 12H | 19.0 | 19.7 | 20.0 | 20.6 | 22.0 | 19.0 | 19.6 | 20.0 | 20.6 | 22.0 |

UGR Viewed Endwise

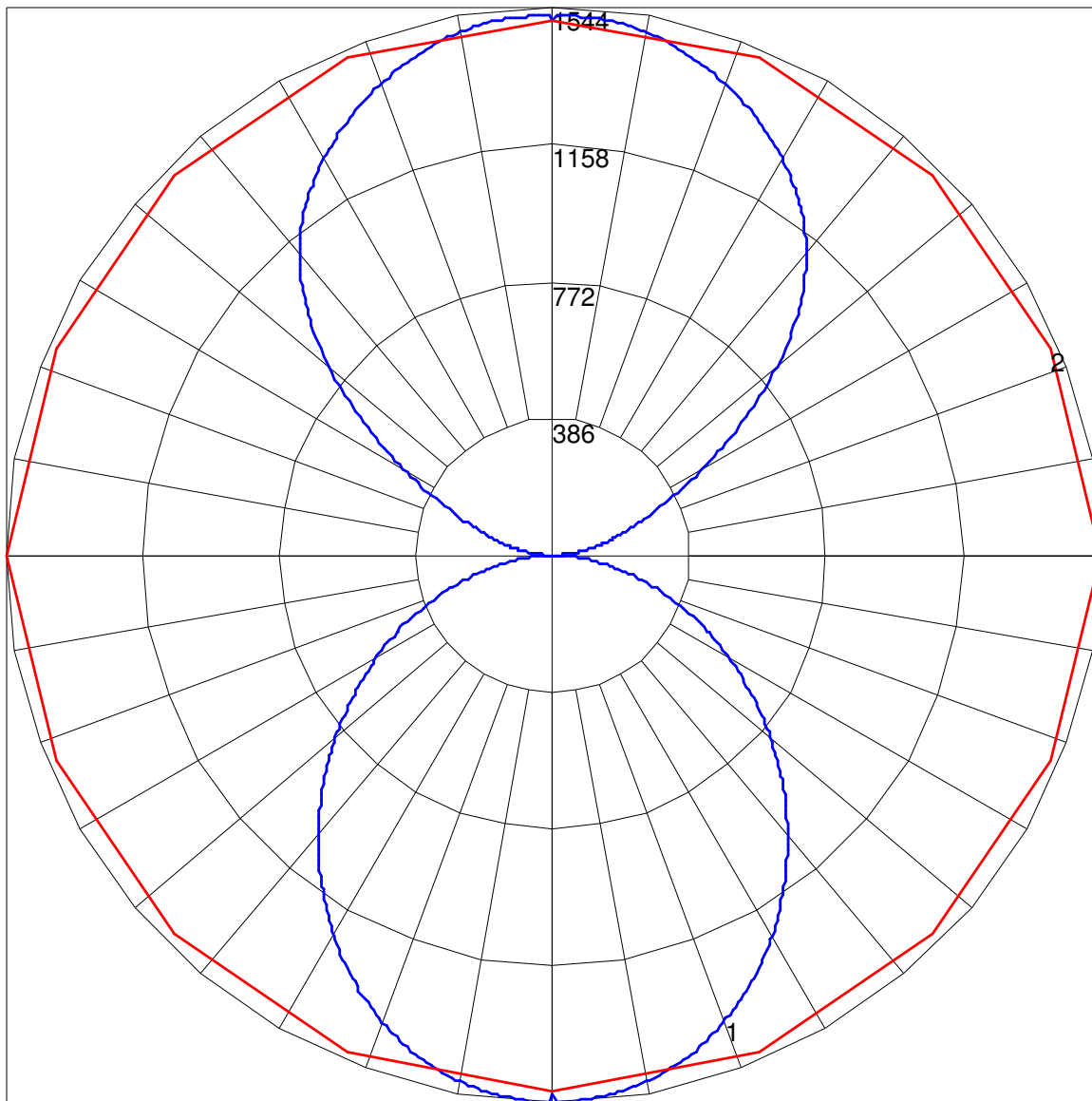
| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 16.5 | 17.3 | 17.5 | 18.3 | 19.6 | 16.5 | 17.2 | 17.4 | 18.2 | 19.5 |
| | 3H | 18.5 | 19.1 | 19.5 | 20.1 | 21.4 | 18.4 | 19.1 | 19.4 | 20.1 | 21.4 |
| | 4H | 19.3 | 19.8 | 20.2 | 20.8 | 22.1 | 19.2 | 19.8 | 20.2 | 20.8 | 22.1 |
| | 6H | 19.8 | 20.3 | 20.8 | 21.3 | 22.6 | 19.8 | 20.3 | 20.8 | 21.3 | 22.6 |
| | 8H | 20.0 | 20.4 | 21.0 | 21.5 | 22.8 | 20.0 | 20.4 | 21.0 | 21.5 | 22.8 |
| | 12H | 20.1 | 20.5 | 21.1 | 21.5 | 22.9 | 20.1 | 20.5 | 21.2 | 21.6 | 22.9 |
| 8H | 4H | 19.5 | 20.0 | 20.5 | 21.0 | 22.3 | 19.5 | 19.9 | 20.5 | 20.9 | 22.3 |
| | 6H | 20.2 | 20.6 | 21.2 | 21.6 | 23.0 | 20.2 | 20.6 | 21.2 | 21.6 | 22.9 |
| | 8H | 20.4 | 20.8 | 21.5 | 21.8 | 23.2 | 20.5 | 20.8 | 21.5 | 21.8 | 23.2 |
| | 12H | 20.6 | 20.9 | 21.7 | 22.0 | 23.4 | 20.7 | 21.0 | 21.7 | 22.0 | 23.4 |
| 12H | 4H | 19.5 | 19.9 | 20.5 | 20.9 | 22.3 | 19.4 | 19.9 | 20.5 | 20.9 | 22.2 |
| | 6H | 20.2 | 20.6 | 21.3 | 21.6 | 23.0 | 20.2 | 20.6 | 21.3 | 21.6 | 23.0 |
| | 8H | 20.5 | 20.8 | 21.6 | 21.9 | 23.3 | 20.5 | 20.8 | 21.6 | 21.9 | 23.3 |

Maximum UGR = 23.4

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1544.223 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.)