

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-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] MX4WUDC-4-00-L12-850U-L12-850D-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                | 10499           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 128             |
| Total Luminaire Watts           | 81.9            |
| 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                  | 14285            | 13927             | 13768             |
| 55                  | 13131            | 12813             | 12678             |
| 65                  | 12111            | 11819             | 11691             |
| 75                  | 10271            | 10265             | 10260             |
| 85                  | 8022             | 8344              | 8585              |

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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  | 2072.722   | 2072.722    | 2072.722    | 2072.722    | 2072.722    |
| 0.5  | 2104.021   | 2074.461    | 2064.027    | 2068.375    | 2061.419    |
| 1.0  | 2104.021   | 2073.591    | 2064.027    | 2068.375    | 2061.419    |
| 1.5  | 2103.152   | 2072.722    | 2063.158    | 2068.375    | 2060.550    |
| 2.0  | 2102.282   | 2071.852    | 2062.289    | 2067.505    | 2060.550    |
| 2.5  | 2101.413   | 2070.983    | 2060.550    | 2066.636    | 2059.680    |
| 3.0  | 2099.674   | 2069.244    | 2059.680    | 2065.766    | 2057.941    |
| 3.5  | 2097.935   | 2067.505    | 2057.941    | 2064.027    | 2056.203    |
| 4.0  | 2096.196   | 2065.766    | 2056.203    | 2062.289    | 2054.464    |
| 4.5  | 2094.457   | 2063.158    | 2054.464    | 2060.550    | 2051.855    |
| 5.0  | 2092.719   | 2061.419    | 2051.855    | 2057.941    | 2049.247    |
| 5.5  | 2090.110   | 2058.811    | 2049.247    | 2055.333    | 2046.639    |
| 6.0  | 2087.502   | 2055.333    | 2046.639    | 2052.725    | 2043.161    |
| 6.5  | 2084.024   | 2052.725    | 2043.161    | 2049.247    | 2040.553    |
| 7.0  | 2081.416   | 2049.247    | 2040.553    | 2045.769    | 2037.075    |
| 7.5  | 2078.808   | 2045.769    | 2037.075    | 2042.292    | 2034.467    |
| 8.0  | 2074.461   | 2042.292    | 2032.728    | 2038.814    | 2030.989    |
| 8.5  | 2070.983   | 2037.944    | 2028.381    | 2034.467    | 2026.642    |
| 9.0  | 2066.636   | 2034.467    | 2024.903    | 2030.120    | 2022.295    |
| 9.5  | 2062.289   | 2030.120    | 2019.686    | 2024.903    | 2017.948    |
| 10.0 | 2057.941   | 2025.772    | 2015.339    | 2020.556    | 2012.731    |
| 10.5 | 2052.725   | 2020.556    | 2010.123    | 2015.339    | 2008.384    |
| 11.0 | 2048.378   | 2015.339    | 2004.906    | 2010.123    | 2002.298    |
| 11.5 | 2042.292   | 2010.123    | 1999.690    | 2004.906    | 1997.081    |
| 12.0 | 2037.075   | 2004.906    | 1994.473    | 1998.820    | 1990.995    |
| 12.5 | 2031.858   | 1998.820    | 1988.387    | 1992.734    | 1984.909    |
| 13.0 | 2025.772   | 1993.604    | 1982.301    | 1986.648    | 1978.823    |
| 13.5 | 2019.686   | 1986.648    | 1976.215    | 1979.693    | 1972.737    |
| 14.0 | 2013.600   | 1980.562    | 1969.259    | 1973.607    | 1966.651    |
| 14.5 | 2007.514   | 1974.476    | 1962.304    | 1966.651    | 1959.696    |
| 15.0 | 2001.428   | 1967.521    | 1955.349    | 1959.696    | 1952.740    |
| 15.5 | 1993.604   | 1961.435    | 1948.393    | 1951.871    | 1944.915    |
| 16.0 | 1984.909   | 1954.479    | 1940.568    | 1944.915    | 1937.960    |
| 16.5 | 1976.215   | 1946.654    | 1932.743    | 1937.091    | 1930.135    |
| 17.0 | 1968.390   | 1938.829    | 1924.919    | 1929.266    | 1922.310    |
| 17.5 | 1959.696   | 1930.135    | 1916.224    | 1920.571    | 1913.616    |
| 18.0 | 1951.001   | 1921.441    | 1907.530    | 1911.877    | 1904.922    |
| 18.5 | 1942.307   | 1912.747    | 1898.836    | 1902.313    | 1896.227    |
| 19.0 | 1933.613   | 1904.052    | 1891.011    | 1893.619    | 1885.794    |
| 19.5 | 1924.049   | 1895.358    | 1882.316    | 1883.186    | 1875.361    |
| 20.0 | 1915.355   | 1885.794    | 1874.492    | 1873.622    | 1864.928    |
| 20.5 | 1905.791   | 1877.100    | 1865.797    | 1863.189    | 1854.495    |
| 21.0 | 1896.227   | 1867.536    | 1856.234    | 1852.756    | 1843.192    |
| 21.5 | 1885.794   | 1857.972    | 1845.800    | 1842.323    | 1831.890    |
| 22.0 | 1876.230   | 1847.539    | 1834.498    | 1831.020    | 1821.456    |
| 22.5 | 1865.797   | 1837.106    | 1824.065    | 1819.717    | 1810.154    |
| 23.0 | 1855.364   | 1826.673    | 1813.631    | 1807.545    | 1798.851    |
| 23.5 | 1844.931   | 1816.240    | 1802.329    | 1796.243    | 1788.418    |
| 24.0 | 1833.628   | 1805.807    | 1791.896    | 1784.940    | 1777.115    |
| 24.5 | 1822.326   | 1794.504    | 1780.593    | 1773.638    | 1765.813    |
| 25.0 | 1811.893   | 1783.201    | 1769.291    | 1762.335    | 1754.510    |
| 25.5 | 1800.590   | 1771.899    | 1757.119    | 1751.032    | 1742.338    |
| 26.0 | 1788.418   | 1759.727    | 1745.816    | 1739.730    | 1731.036    |
| 26.5 | 1777.115   | 1748.424    | 1733.644    | 1728.427    | 1719.733    |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1764.943 | 1736.252 | 1721.472 | 1717.125 | 1707.561 |
| 27.5 | 1752.771 | 1724.080 | 1710.169 | 1705.822 | 1696.258 |
| 28.0 | 1740.599 | 1711.039 | 1697.128 | 1693.650 | 1684.086 |
| 28.5 | 1727.558 | 1697.997 | 1684.956 | 1682.348 | 1671.914 |
| 29.0 | 1714.516 | 1685.825 | 1672.784 | 1670.175 | 1659.742 |
| 29.5 | 1702.344 | 1672.784 | 1660.612 | 1657.134 | 1648.440 |
| 30.0 | 1689.303 | 1659.742 | 1648.440 | 1644.962 | 1636.268 |
| 30.5 | 1676.261 | 1646.701 | 1635.398 | 1632.790 | 1624.096 |
| 31.0 | 1662.351 | 1634.529 | 1622.357 | 1619.749 | 1611.924 |
| 31.5 | 1649.309 | 1621.487 | 1609.315 | 1606.707 | 1598.882 |
| 32.0 | 1635.398 | 1607.577 | 1596.274 | 1592.796 | 1585.841 |
| 32.5 | 1621.487 | 1594.535 | 1583.232 | 1579.755 | 1571.930 |
| 33.0 | 1607.577 | 1581.494 | 1570.191 | 1566.713 | 1558.019 |
| 33.5 | 1594.535 | 1567.583 | 1556.280 | 1552.802 | 1544.978 |
| 34.0 | 1579.755 | 1553.672 | 1543.239 | 1538.892 | 1531.067 |
| 34.5 | 1565.844 | 1539.761 | 1528.458 | 1524.981 | 1516.286 |
| 35.0 | 1551.933 | 1526.719 | 1514.547 | 1511.070 | 1501.506 |
| 35.5 | 1537.153 | 1511.939 | 1500.637 | 1497.159 | 1486.726 |
| 36.0 | 1522.372 | 1498.028 | 1486.726 | 1482.379 | 1472.815 |
| 36.5 | 1508.461 | 1484.117 | 1472.815 | 1468.468 | 1458.904 |
| 37.0 | 1493.681 | 1469.337 | 1458.035 | 1453.687 | 1444.124 |
| 37.5 | 1478.901 | 1454.557 | 1444.124 | 1438.907 | 1430.213 |
| 38.0 | 1463.251 | 1439.776 | 1429.343 | 1424.127 | 1415.432 |
| 38.5 | 1448.471 | 1424.996 | 1414.563 | 1410.216 | 1400.652 |
| 39.0 | 1434.560 | 1410.216 | 1399.783 | 1395.436 | 1386.741 |
| 39.5 | 1418.910 | 1395.436 | 1385.872 | 1380.655 | 1371.091 |
| 40.0 | 1404.130 | 1379.786 | 1371.091 | 1365.875 | 1357.181 |
| 40.5 | 1388.480 | 1365.005 | 1356.311 | 1351.095 | 1342.400 |
| 41.0 | 1373.700 | 1349.356 | 1341.531 | 1335.445 | 1326.751 |
| 41.5 | 1358.050 | 1334.575 | 1325.881 | 1320.665 | 1311.101 |
| 42.0 | 1343.270 | 1318.926 | 1311.101 | 1305.884 | 1296.320 |
| 42.5 | 1328.489 | 1304.145 | 1296.320 | 1290.234 | 1281.540 |
| 43.0 | 1312.840 | 1289.365 | 1281.540 | 1275.454 | 1265.890 |
| 43.5 | 1298.059 | 1273.715 | 1265.890 | 1260.674 | 1251.110 |
| 44.0 | 1282.410 | 1258.066 | 1250.241 | 1245.024 | 1236.330 |
| 44.5 | 1266.760 | 1242.416 | 1234.591 | 1229.374 | 1220.680 |
| 45.0 | 1251.110 | 1227.635 | 1219.811 | 1213.725 | 1205.900 |
| 45.5 | 1236.330 | 1211.986 | 1204.161 | 1198.944 | 1191.119 |
| 46.0 | 1220.680 | 1196.336 | 1188.511 | 1183.295 | 1176.339 |
| 46.5 | 1205.030 | 1180.686 | 1173.731 | 1168.514 | 1161.559 |
| 47.0 | 1189.381 | 1165.037 | 1158.081 | 1152.864 | 1145.909 |
| 47.5 | 1172.861 | 1149.387 | 1142.431 | 1137.215 | 1131.129 |
| 48.0 | 1157.212 | 1133.737 | 1126.782 | 1122.434 | 1115.479 |
| 48.5 | 1141.562 | 1118.087 | 1112.001 | 1106.785 | 1099.829 |
| 49.0 | 1125.043 | 1102.438 | 1096.352 | 1091.135 | 1085.049 |
| 49.5 | 1109.393 | 1086.788 | 1080.702 | 1076.355 | 1070.269 |
| 50.0 | 1092.874 | 1071.138 | 1065.052 | 1060.705 | 1054.619 |
| 50.5 | 1076.355 | 1055.488 | 1049.402 | 1045.055 | 1039.839 |
| 51.0 | 1059.835 | 1039.839 | 1033.753 | 1029.405 | 1024.189 |
| 51.5 | 1044.186 | 1024.189 | 1018.103 | 1014.625 | 1008.539 |
| 52.0 | 1028.536 | 1008.539 | 1002.453 | 998.975  | 993.759  |
| 52.5 | 1012.017 | 992.889  | 986.803  | 984.195  | 978.109  |
| 53.0 | 996.367  | 977.240  | 971.154  | 968.545  | 962.459  |
| 53.5 | 979.848  | 961.590  | 955.504  | 952.896  | 946.810  |
| 54.0 | 964.198  | 945.940  | 940.724  | 938.115  | 931.160  |
| 54.5 | 948.548  | 931.160  | 925.074  | 922.465  | 915.510  |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 932.899 | 916.379 | 910.293 | 907.685 | 900.730 |
| 55.5 | 918.118 | 900.730 | 894.644 | 892.035 | 885.949 |
| 56.0 | 901.599 | 885.080 | 878.994 | 877.255 | 870.300 |
| 56.5 | 885.949 | 870.300 | 863.779 | 861.866 | 854.998 |
| 57.0 | 871.169 | 854.650 | 848.390 | 846.303 | 839.783 |
| 57.5 | 855.867 | 839.522 | 833.088 | 831.175 | 824.394 |
| 58.0 | 840.565 | 824.568 | 817.699 | 815.960 | 809.179 |
| 58.5 | 825.176 | 809.526 | 802.571 | 801.006 | 794.572 |
| 59.0 | 810.048 | 794.398 | 787.356 | 785.878 | 779.705 |
| 59.5 | 795.355 | 779.096 | 771.880 | 770.837 | 765.012 |
| 60.0 | 780.314 | 763.881 | 756.578 | 755.709 | 750.057 |
| 60.5 | 765.446 | 749.014 | 741.798 | 740.494 | 734.929 |
| 61.0 | 750.840 | 734.147 | 727.105 | 725.626 | 720.149 |
| 61.5 | 735.190 | 719.454 | 712.498 | 710.846 | 705.543 |
| 62.0 | 719.801 | 704.325 | 697.370 | 696.153 | 690.588 |
| 62.5 | 704.065 | 690.328 | 683.111 | 682.155 | 676.417 |
| 63.0 | 688.936 | 677.982 | 672.156 | 671.722 | 667.027 |
| 63.5 | 673.635 | 664.506 | 659.898 | 658.941 | 654.072 |
| 64.0 | 664.419 | 651.377 | 647.204 | 645.291 | 639.727 |
| 64.5 | 650.073 | 637.379 | 632.858 | 631.119 | 625.903 |
| 65.0 | 633.989 | 622.425 | 618.687 | 617.035 | 611.992 |
| 65.5 | 617.556 | 607.297 | 603.906 | 603.124 | 597.994 |
| 66.0 | 601.733 | 592.517 | 589.474 | 589.126 | 583.649 |
| 66.5 | 586.083 | 577.389 | 574.780 | 574.780 | 569.912 |
| 67.0 | 570.607 | 562.347 | 560.261 | 560.522 | 556.088 |
| 67.5 | 555.392 | 547.567 | 545.654 | 546.176 | 541.829 |
| 68.0 | 540.003 | 532.787 | 531.048 | 531.744 | 527.222 |
| 68.5 | 524.527 | 517.746 | 516.355 | 517.311 | 512.877 |
| 69.0 | 508.530 | 502.618 | 501.574 | 502.096 | 498.010 |
| 69.5 | 492.967 | 487.750 | 486.533 | 487.142 | 483.403 |
| 70.0 | 477.578 | 472.709 | 471.840 | 472.101 | 468.797 |
| 70.5 | 462.450 | 457.581 | 456.973 | 457.233 | 454.103 |
| 71.0 | 446.974 | 442.540 | 442.366 | 442.714 | 439.323 |
| 71.5 | 431.498 | 427.499 | 427.847 | 428.107 | 425.151 |
| 72.0 | 416.457 | 412.371 | 413.066 | 413.414 | 410.893 |
| 72.5 | 401.416 | 397.504 | 398.634 | 398.982 | 396.895 |
| 73.0 | 386.549 | 382.984 | 384.549 | 384.984 | 383.158 |
| 73.5 | 372.116 | 368.638 | 370.464 | 371.247 | 369.247 |
| 74.0 | 357.858 | 354.293 | 356.553 | 357.162 | 355.858 |
| 74.5 | 343.599 | 340.208 | 342.729 | 343.338 | 342.382 |
| 75.0 | 329.253 | 326.210 | 329.079 | 329.688 | 328.905 |
| 75.5 | 315.081 | 312.212 | 315.516 | 316.299 | 315.429 |
| 76.0 | 300.736 | 298.736 | 302.127 | 302.996 | 302.301 |
| 76.5 | 287.173 | 285.434 | 288.825 | 289.781 | 289.173 |
| 77.0 | 273.957 | 272.045 | 275.783 | 276.653 | 275.696 |
| 77.5 | 260.307 | 259.003 | 262.742 | 263.437 | 262.481 |
| 78.0 | 247.005 | 245.962 | 249.700 | 250.744 | 249.787 |
| 78.5 | 233.790 | 233.268 | 236.833 | 238.050 | 237.268 |
| 79.0 | 221.096 | 220.574 | 224.226 | 225.704 | 225.096 |
| 79.5 | 208.402 | 208.142 | 211.793 | 213.358 | 212.836 |
| 80.0 | 195.883 | 195.970 | 199.360 | 201.534 | 200.838 |
| 80.5 | 183.276 | 184.058 | 187.536 | 189.623 | 189.101 |
| 81.0 | 171.191 | 172.408 | 175.799 | 177.972 | 177.625 |
| 81.5 | 159.541 | 160.845 | 164.322 | 166.496 | 166.235 |
| 82.0 | 148.673 | 149.542 | 153.107 | 155.367 | 155.106 |
| 82.5 | 137.805 | 138.587 | 142.065 | 144.325 | 144.151 |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 126.937 | 128.154 | 131.197 | 133.545 | 133.718 |
| 83.5  | 116.243 | 117.721 | 120.677 | 122.937 | 123.459 |
| 84.0  | 106.244 | 107.462 | 110.244 | 112.417 | 113.200 |
| 84.5  | 96.072  | 97.376  | 99.984  | 102.158 | 102.941 |
| 85.0  | 86.595  | 87.639  | 90.073  | 91.986  | 92.681  |
| 85.5  | 77.379  | 77.901  | 79.988  | 81.987  | 82.683  |
| 86.0  | 68.337  | 68.511  | 70.337  | 72.163  | 73.032  |
| 86.5  | 59.382  | 59.382  | 61.034  | 62.686  | 63.468  |
| 87.0  | 50.340  | 50.340  | 51.557  | 53.644  | 54.252  |
| 87.5  | 41.385  | 41.472  | 42.602  | 44.689  | 45.471  |
| 88.0  | 32.864  | 32.778  | 33.908  | 36.168  | 37.038  |
| 88.5  | 24.692  | 24.170  | 25.648  | 27.648  | 28.865  |
| 89.0  | 15.997  | 15.737  | 17.736  | 19.649  | 20.953  |
| 89.5  | 7.390   | 8.781   | 10.607  | 12.085  | 12.520  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 5.333   | 2.811   | 2.595   | 2.523   | 2.739   |
| 91.0  | 11.748  | 6.198   | 5.045   | 4.973   | 4.901   |
| 91.5  | 18.883  | 12.613  | 7.496   | 7.423   | 7.351   |
| 92.0  | 26.090  | 20.973  | 10.811  | 9.658   | 9.658   |
| 92.5  | 33.586  | 29.622  | 16.721  | 12.108  | 11.892  |
| 93.0  | 41.370  | 37.910  | 23.640  | 16.072  | 14.487  |
| 93.5  | 49.226  | 45.838  | 31.063  | 21.694  | 18.883  |
| 94.0  | 56.937  | 53.622  | 39.280  | 28.397  | 24.865  |
| 94.5  | 64.865  | 61.406  | 47.856  | 35.316  | 31.352  |
| 95.0  | 72.649  | 69.406  | 56.289  | 42.379  | 37.766  |
| 95.5  | 80.433  | 76.902  | 64.505  | 49.658  | 44.541  |
| 96.0  | 87.857  | 84.541  | 72.577  | 57.226  | 51.460  |
| 96.5  | 95.352  | 92.181  | 80.649  | 64.938  | 58.595  |
| 97.0  | 102.632 | 99.677  | 88.649  | 72.649  | 66.163  |
| 97.5  | 110.127 | 107.244 | 96.722  | 80.505  | 73.730  |
| 98.0  | 117.551 | 114.668 | 104.578 | 88.289  | 81.370  |
| 98.5  | 124.974 | 122.163 | 112.145 | 96.217  | 89.010  |
| 99.0  | 132.542 | 129.875 | 119.857 | 103.785 | 96.722  |
| 99.5  | 140.181 | 137.515 | 127.641 | 111.352 | 104.289 |
| 100.0 | 147.677 | 145.227 | 135.425 | 119.136 | 111.713 |
| 100.5 | 155.461 | 152.938 | 143.209 | 127.208 | 119.208 |
| 101.0 | 163.461 | 160.650 | 151.137 | 135.353 | 127.353 |
| 101.5 | 171.605 | 168.506 | 159.209 | 143.497 | 135.785 |
| 102.0 | 179.533 | 176.650 | 167.281 | 151.641 | 144.145 |
| 102.5 | 187.822 | 184.722 | 175.641 | 159.785 | 152.434 |
| 103.0 | 196.326 | 193.083 | 183.930 | 167.857 | 160.866 |
| 103.5 | 204.831 | 201.587 | 192.722 | 176.506 | 169.227 |
| 104.0 | 213.551 | 210.164 | 201.659 | 185.443 | 177.948 |
| 104.5 | 222.561 | 219.101 | 210.597 | 194.596 | 186.668 |
| 105.0 | 231.786 | 228.254 | 219.461 | 203.605 | 195.533 |
| 105.5 | 241.227 | 237.552 | 228.615 | 212.687 | 204.326 |
| 106.0 | 250.813 | 246.921 | 237.912 | 221.912 | 213.119 |
| 106.5 | 260.471 | 256.579 | 247.642 | 231.209 | 221.984 |
| 107.0 | 270.777 | 266.669 | 258.020 | 241.083 | 231.642 |
| 107.5 | 281.444 | 277.048 | 268.543 | 251.534 | 242.092 |
| 108.0 | 292.039 | 287.714 | 279.282 | 262.849 | 252.831 |
| 108.5 | 303.210 | 298.597 | 290.021 | 274.165 | 263.930 |
| 109.0 | 314.670 | 309.696 | 301.048 | 285.624 | 275.174 |
| 109.5 | 326.417 | 321.228 | 312.651 | 297.012 | 286.561 |
| 110.0 | 338.958 | 333.048 | 324.543 | 308.687 | 298.453 |
| 110.5 | 351.787 | 345.156 | 336.724 | 321.228 | 310.778 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 364.760  | 357.841  | 349.336  | 334.273  | 323.174  |
| 111.5 | 378.021  | 370.886  | 362.165  | 347.535  | 335.931  |
| 112.0 | 391.787  | 384.292  | 374.922  | 360.796  | 348.111  |
| 112.5 | 405.625  | 398.058  | 387.823  | 373.985  | 361.012  |
| 113.0 | 420.112  | 412.256  | 401.445  | 387.607  | 374.490  |
| 113.5 | 435.031  | 427.103  | 415.860  | 402.310  | 388.976  |
| 114.0 | 450.166  | 442.238  | 431.139  | 417.950  | 405.049  |
| 114.5 | 465.806  | 457.878  | 446.707  | 434.238  | 422.130  |
| 115.0 | 481.662  | 473.950  | 462.851  | 450.671  | 439.427  |
| 115.5 | 498.239  | 490.167  | 479.428  | 467.031  | 456.509  |
| 116.0 | 514.960  | 507.032  | 496.581  | 484.257  | 473.878  |
| 116.5 | 532.617  | 524.329  | 514.311  | 501.914  | 492.401  |
| 117.0 | 550.996  | 541.987  | 532.185  | 520.942  | 511.500  |
| 117.5 | 564.546  | 555.753  | 548.546  | 538.455  | 530.888  |
| 118.0 | 581.843  | 571.825  | 565.338  | 556.546  | 548.113  |
| 118.5 | 601.951  | 590.996  | 582.492  | 573.339  | 563.609  |
| 119.0 | 621.627  | 609.879  | 601.951  | 592.366  | 580.834  |
| 119.5 | 641.519  | 629.988  | 622.564  | 611.681  | 600.150  |
| 120.0 | 662.060  | 650.817  | 643.249  | 632.799  | 620.546  |
| 120.5 | 682.457  | 671.934  | 664.583  | 655.213  | 642.312  |
| 121.0 | 703.862  | 693.484  | 686.060  | 677.556  | 665.447  |
| 121.5 | 725.052  | 714.817  | 707.466  | 700.187  | 688.078  |
| 122.0 | 747.394  | 736.583  | 730.097  | 722.889  | 710.781  |
| 122.5 | 769.016  | 758.205  | 752.439  | 745.232  | 732.259  |
| 123.0 | 791.359  | 781.268  | 775.503  | 769.737  | 756.043  |
| 123.5 | 814.422  | 804.332  | 800.007  | 794.241  | 780.548  |
| 124.0 | 837.485  | 828.116  | 823.791  | 818.746  | 805.773  |
| 124.5 | 860.548  | 851.179  | 847.575  | 842.530  | 830.278  |
| 125.0 | 883.612  | 874.242  | 870.639  | 866.314  | 854.062  |
| 125.5 | 907.396  | 898.026  | 894.423  | 890.098  | 877.125  |
| 126.0 | 930.459  | 921.089  | 918.927  | 913.882  | 900.188  |
| 126.5 | 953.522  | 944.153  | 943.432  | 939.108  | 924.693  |
| 127.0 | 977.306  | 967.937  | 967.937  | 964.333  | 950.639  |
| 127.5 | 1001.090 | 991.000  | 991.000  | 988.838  | 976.585  |
| 128.0 | 1024.153 | 1014.063 | 1014.784 | 1013.343 | 1001.090 |
| 128.5 | 1047.217 | 1036.406 | 1037.847 | 1037.847 | 1024.874 |
| 129.0 | 1070.280 | 1058.748 | 1060.911 | 1061.631 | 1049.379 |
| 129.5 | 1093.343 | 1081.812 | 1084.695 | 1086.136 | 1074.604 |
| 130.0 | 1116.407 | 1104.875 | 1108.479 | 1110.641 | 1101.271 |
| 130.5 | 1139.470 | 1127.217 | 1132.983 | 1134.425 | 1126.497 |
| 131.0 | 1162.533 | 1149.560 | 1156.047 | 1157.488 | 1149.560 |
| 131.5 | 1184.155 | 1171.182 | 1179.110 | 1179.110 | 1171.903 |
| 132.0 | 1206.497 | 1192.804 | 1201.452 | 1202.173 | 1193.524 |
| 132.5 | 1228.119 | 1215.146 | 1223.795 | 1224.516 | 1215.146 |
| 133.0 | 1249.741 | 1237.489 | 1245.417 | 1246.858 | 1236.047 |
| 133.5 | 1271.363 | 1259.111 | 1267.759 | 1269.201 | 1258.390 |
| 134.0 | 1292.985 | 1280.012 | 1288.660 | 1290.823 | 1280.012 |
| 134.5 | 1312.444 | 1300.913 | 1308.841 | 1310.282 | 1300.913 |
| 135.0 | 1331.904 | 1321.093 | 1328.300 | 1329.742 | 1319.652 |
| 135.5 | 1350.643 | 1341.994 | 1347.760 | 1348.481 | 1338.390 |
| 136.0 | 1369.382 | 1361.454 | 1365.778 | 1367.940 | 1357.850 |
| 136.5 | 1388.841 | 1380.193 | 1383.796 | 1387.400 | 1378.030 |
| 137.0 | 1406.860 | 1398.932 | 1402.535 | 1405.418 | 1396.769 |
| 137.5 | 1424.878 | 1416.229 | 1419.833 | 1421.995 | 1413.346 |
| 138.0 | 1442.175 | 1433.526 | 1436.409 | 1437.851 | 1429.202 |
| 138.5 | 1459.473 | 1450.103 | 1452.986 | 1453.707 | 1444.337 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1476.049 | 1466.680 | 1469.563 | 1469.563 | 1459.473 |
| 139.5 | 1492.626 | 1483.257 | 1485.419 | 1484.698 | 1473.887 |
| 140.0 | 1508.482 | 1498.392 | 1501.275 | 1500.554 | 1489.743 |
| 140.5 | 1523.617 | 1512.806 | 1515.689 | 1514.969 | 1503.437 |
| 141.0 | 1538.753 | 1527.942 | 1530.104 | 1528.662 | 1517.131 |
| 141.5 | 1552.446 | 1541.636 | 1544.518 | 1542.356 | 1529.383 |
| 142.0 | 1566.861 | 1556.050 | 1558.212 | 1555.329 | 1542.356 |
| 142.5 | 1580.555 | 1569.744 | 1571.906 | 1569.023 | 1554.609 |
| 143.0 | 1594.249 | 1582.717 | 1584.879 | 1581.996 | 1567.582 |
| 143.5 | 1607.222 | 1596.411 | 1597.852 | 1594.969 | 1579.834 |
| 144.0 | 1619.474 | 1609.384 | 1610.105 | 1606.501 | 1591.366 |
| 144.5 | 1631.726 | 1621.636 | 1622.357 | 1618.033 | 1602.897 |
| 145.0 | 1643.258 | 1633.889 | 1633.889 | 1628.844 | 1613.708 |
| 145.5 | 1655.510 | 1646.141 | 1645.420 | 1641.096 | 1625.240 |
| 146.0 | 1667.042 | 1657.673 | 1656.952 | 1651.907 | 1636.772 |
| 146.5 | 1678.574 | 1669.204 | 1667.763 | 1663.438 | 1648.303 |
| 147.0 | 1689.385 | 1680.736 | 1677.853 | 1674.970 | 1659.835 |
| 147.5 | 1700.196 | 1691.547 | 1688.664 | 1685.781 | 1670.646 |
| 148.0 | 1711.006 | 1702.358 | 1698.033 | 1695.871 | 1682.177 |
| 148.5 | 1721.817 | 1713.169 | 1707.403 | 1705.961 | 1693.709 |
| 149.0 | 1731.908 | 1723.980 | 1716.772 | 1716.052 | 1705.241 |
| 149.5 | 1741.998 | 1734.070 | 1725.421 | 1726.142 | 1716.052 |
| 150.0 | 1752.088 | 1744.160 | 1734.790 | 1735.511 | 1726.142 |
| 150.5 | 1762.178 | 1754.250 | 1743.439 | 1744.160 | 1736.232 |
| 151.0 | 1771.548 | 1763.620 | 1752.088 | 1752.809 | 1745.601 |
| 151.5 | 1781.638 | 1772.989 | 1761.457 | 1761.457 | 1754.250 |
| 152.0 | 1791.007 | 1782.358 | 1770.106 | 1769.385 | 1762.899 |
| 152.5 | 1800.377 | 1791.007 | 1778.755 | 1778.034 | 1770.827 |
| 153.0 | 1809.746 | 1799.656 | 1787.404 | 1786.683 | 1778.034 |
| 153.5 | 1818.395 | 1808.305 | 1796.052 | 1795.332 | 1784.521 |
| 154.0 | 1827.044 | 1816.953 | 1805.422 | 1803.980 | 1791.728 |
| 154.5 | 1836.413 | 1824.881 | 1814.070 | 1811.908 | 1798.935 |
| 155.0 | 1845.062 | 1832.809 | 1822.719 | 1820.557 | 1806.863 |
| 155.5 | 1852.990 | 1840.017 | 1831.368 | 1829.206 | 1814.791 |
| 156.0 | 1860.918 | 1847.945 | 1840.737 | 1837.134 | 1822.719 |
| 156.5 | 1868.846 | 1855.873 | 1849.386 | 1845.782 | 1830.647 |
| 157.0 | 1876.774 | 1863.801 | 1858.035 | 1854.431 | 1838.575 |
| 157.5 | 1883.981 | 1871.008 | 1865.963 | 1862.359 | 1846.503 |
| 158.0 | 1891.188 | 1878.215 | 1873.891 | 1870.287 | 1854.431 |
| 158.5 | 1899.116 | 1886.143 | 1881.819 | 1878.215 | 1863.080 |
| 159.0 | 1905.603 | 1893.350 | 1889.026 | 1886.143 | 1871.008 |
| 159.5 | 1912.810 | 1900.558 | 1896.233 | 1894.071 | 1878.936 |
| 160.0 | 1919.297 | 1907.044 | 1903.441 | 1901.278 | 1886.864 |
| 160.5 | 1925.783 | 1913.531 | 1909.927 | 1908.486 | 1894.792 |
| 161.0 | 1932.270 | 1920.017 | 1916.414 | 1915.693 | 1902.720 |
| 161.5 | 1938.756 | 1927.225 | 1922.180 | 1922.900 | 1910.648 |
| 162.0 | 1945.964 | 1933.711 | 1927.945 | 1930.108 | 1917.855 |
| 162.5 | 1952.450 | 1940.198 | 1933.711 | 1936.594 | 1924.342 |
| 163.0 | 1958.937 | 1946.684 | 1939.477 | 1943.081 | 1930.828 |
| 163.5 | 1965.423 | 1952.450 | 1945.243 | 1949.567 | 1936.594 |
| 164.0 | 1971.910 | 1958.216 | 1950.288 | 1955.333 | 1942.360 |
| 164.5 | 1976.955 | 1963.982 | 1955.333 | 1961.099 | 1948.126 |
| 165.0 | 1982.721 | 1969.748 | 1960.378 | 1966.865 | 1953.171 |
| 165.5 | 1988.486 | 1974.793 | 1965.423 | 1971.910 | 1958.216 |
| 166.0 | 1994.252 | 1979.838 | 1970.468 | 1976.955 | 1962.540 |
| 166.5 | 2000.018 | 1984.883 | 1975.513 | 1981.279 | 1967.585 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 2005.063 | 1989.207 | 1979.838 | 1985.604 | 1971.910 |
| 167.5 | 2010.108 | 1993.532 | 1984.883 | 1989.928 | 1976.955 |
| 168.0 | 2015.153 | 1997.856 | 1989.207 | 1994.252 | 1981.279 |
| 168.5 | 2020.198 | 2002.180 | 1993.532 | 1998.577 | 1986.324 |
| 169.0 | 2024.523 | 2005.784 | 1997.856 | 2002.180 | 1990.649 |
| 169.5 | 2028.126 | 2009.388 | 2001.460 | 2005.784 | 1994.973 |
| 170.0 | 2031.730 | 2012.991 | 2005.063 | 2009.388 | 2000.018 |
| 170.5 | 2035.334 | 2016.595 | 2007.946 | 2012.991 | 2003.622 |
| 171.0 | 2038.937 | 2019.478 | 2010.829 | 2016.595 | 2007.225 |
| 171.5 | 2041.820 | 2022.361 | 2013.712 | 2020.198 | 2010.829 |
| 172.0 | 2044.703 | 2025.244 | 2015.874 | 2023.081 | 2013.712 |
| 172.5 | 2047.586 | 2028.126 | 2018.036 | 2025.244 | 2015.874 |
| 173.0 | 2050.469 | 2031.009 | 2020.198 | 2028.126 | 2017.316 |
| 173.5 | 2052.631 | 2033.172 | 2022.361 | 2029.568 | 2018.757 |
| 174.0 | 2054.793 | 2035.334 | 2024.523 | 2031.009 | 2019.478 |
| 174.5 | 2056.235 | 2036.775 | 2025.964 | 2032.451 | 2020.198 |
| 175.0 | 2057.676 | 2038.937 | 2027.406 | 2033.172 | 2020.198 |
| 175.5 | 2059.118 | 2040.379 | 2029.568 | 2033.892 | 2020.919 |
| 176.0 | 2060.559 | 2041.820 | 2031.009 | 2033.892 | 2020.919 |
| 176.5 | 2061.280 | 2043.262 | 2031.730 | 2034.613 | 2020.919 |
| 177.0 | 2062.001 | 2044.703 | 2033.172 | 2034.613 | 2020.198 |
| 177.5 | 2063.442 | 2046.145 | 2034.613 | 2034.613 | 2020.198 |
| 178.0 | 2064.163 | 2046.145 | 2035.334 | 2034.613 | 2020.919 |
| 178.5 | 2064.163 | 2046.865 | 2036.054 | 2034.613 | 2020.919 |
| 179.0 | 2064.884 | 2047.586 | 2036.054 | 2034.613 | 2020.919 |
| 179.5 | 2065.604 | 2047.586 | 2036.775 | 2034.613 | 2020.919 |
| 180.0 | 2040.379 | 2040.379 | 2040.379 | 2040.379 | 2040.379 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 749.09   | N.A.  | 7.10   |
| 0-30    | 1566.1   | N.A.  | 14.90  |
| 0-40    | 2515.96  | N.A.  | 24.00  |
| 0-60    | 4275.18  | N.A.  | 40.70  |
| 0-80    | 5235.44  | N.A.  | 49.90  |
| 0-90    | 5336.9   | N.A.  | 50.80  |
| 10-90   | 5141.37  | N.A.  | 49.00  |
| 20-40   | 1766.87  | N.A.  | 16.80  |
| 20-50   | 2709.79  | N.A.  | 25.80  |
| 40-70   | 2370.61  | N.A.  | 22.60  |
| 60-80   | 960.26   | N.A.  | 9.10   |
| 70-80   | 348.87   | N.A.  | 3.30   |
| 80-90   | 101.46   | N.A.  | 1.00   |
| 90-110  | 295.28   | N.A.  | 2.80   |
| 90-120  | 758.01   | N.A.  | 7.20   |
| 90-130  | 1535.6   | N.A.  | 14.60  |
| 90-150  | 3571.68  | N.A.  | 34.00  |
| 90-180  | 5162.02  | N.A.  | 49.20  |
| 110-180 | 4866.74  | N.A.  | 46.40  |
| 0-180   | 10498.92 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 195.53  |
| 10-20   | 553.57  |
| 20-30   | 817.00  |
| 30-40   | 949.86  |
| 40-50   | 942.93  |
| 50-60   | 816.29  |
| 60-70   | 611.39  |
| 70-80   | 348.87  |
| 80-90   | 101.46  |
| 90-100  | 63.69   |
| 100-110 | 231.59  |
| 110-120 | 462.73  |
| 120-130 | 777.59  |
| 130-140 | 1016.77 |
| 140-150 | 1019.31 |
| 150-160 | 842.00  |
| 160-170 | 554.85  |
| 170-180 | 193.49  |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70 |    |    |    | 50 |    |    | 30 |    |    | 10 |    |    | 0  |
|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RW | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1  | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 73 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2  | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 36 |
| 3  | 81  | 72  | 64  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 34 | 30 |
| 4  | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 30 | 26 |
| 5  | 68  | 57  | 49  | 43  | 63 | 53 | 45 | 40 | 45 | 40 | 35 | 38 | 34 | 30 | 32 | 28 | 26 | 23 |
| 6  | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 29 | 25 | 23 | 20 |
| 7  | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8  | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 |
| 9  | 50  | 38  | 31  | 26  | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 | 13 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-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 | 17.1 | 18.0 | 18.1 | 19.0 | 20.2 | 17.0 | 17.9 | 18.0 | 18.9 | 20.1 |
|      | 3H   | 18.9 | 19.7 | 19.9 | 20.7 | 21.9 | 18.8 | 19.6 | 19.8 | 20.6 | 21.8 |
|      | 4H   | 19.5 | 20.3 | 20.5 | 21.2 | 22.5 | 19.4 | 20.2 | 20.4 | 21.2 | 22.4 |
|      | 6H   | 19.9 | 20.6 | 20.9 | 21.6 | 22.9 | 19.9 | 20.6 | 20.9 | 21.6 | 22.9 |
|      | 8H   | 20.1 | 20.7 | 21.1 | 21.7 | 23.0 | 20.0 | 20.7 | 21.0 | 21.7 | 23.0 |
|      | 12H  | 20.2 | 20.8 | 21.2 | 21.8 | 23.1 | 20.1 | 20.8 | 21.1 | 21.8 | 23.1 |

### UGR Viewed Endwise

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 17.7 | 18.4 | 18.6 | 19.4 | 20.7 | 17.6 | 18.3 | 18.6 | 19.3 | 20.6 |
|    | 3H  | 19.6 | 20.3 | 20.6 | 21.3 | 22.6 | 19.6 | 20.2 | 20.6 | 21.2 | 22.5 |
|    | 4H  | 20.4 | 20.9 | 21.4 | 21.9 | 23.3 | 20.3 | 20.9 | 21.3 | 21.9 | 23.2 |
|    | 6H  | 20.9 | 21.4 | 21.9 | 22.4 | 23.8 | 20.9 | 21.4 | 21.9 | 22.4 | 23.7 |
|    | 8H  | 21.1 | 21.6 | 22.1 | 22.6 | 23.9 | 21.1 | 21.6 | 22.1 | 22.6 | 23.9 |
|    | 12H | 21.2 | 21.6 | 22.2 | 22.7 | 24.0 | 21.2 | 21.7 | 22.3 | 22.7 | 24.0 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 20.6 | 21.1 | 21.6 | 22.1 | 23.4 | 20.6 | 21.0 | 21.6 | 22.0 | 23.4 |
|    | 6H  | 21.3 | 21.7 | 22.3 | 22.7 | 24.1 | 21.3 | 21.7 | 22.3 | 22.7 | 24.1 |
|    | 8H  | 21.6 | 21.9 | 22.6 | 22.9 | 24.3 | 21.6 | 21.9 | 22.6 | 23.0 | 24.3 |
|    | 12H | 21.8 | 22.1 | 22.8 | 23.1 | 24.5 | 21.8 | 22.1 | 22.8 | 23.1 | 24.5 |

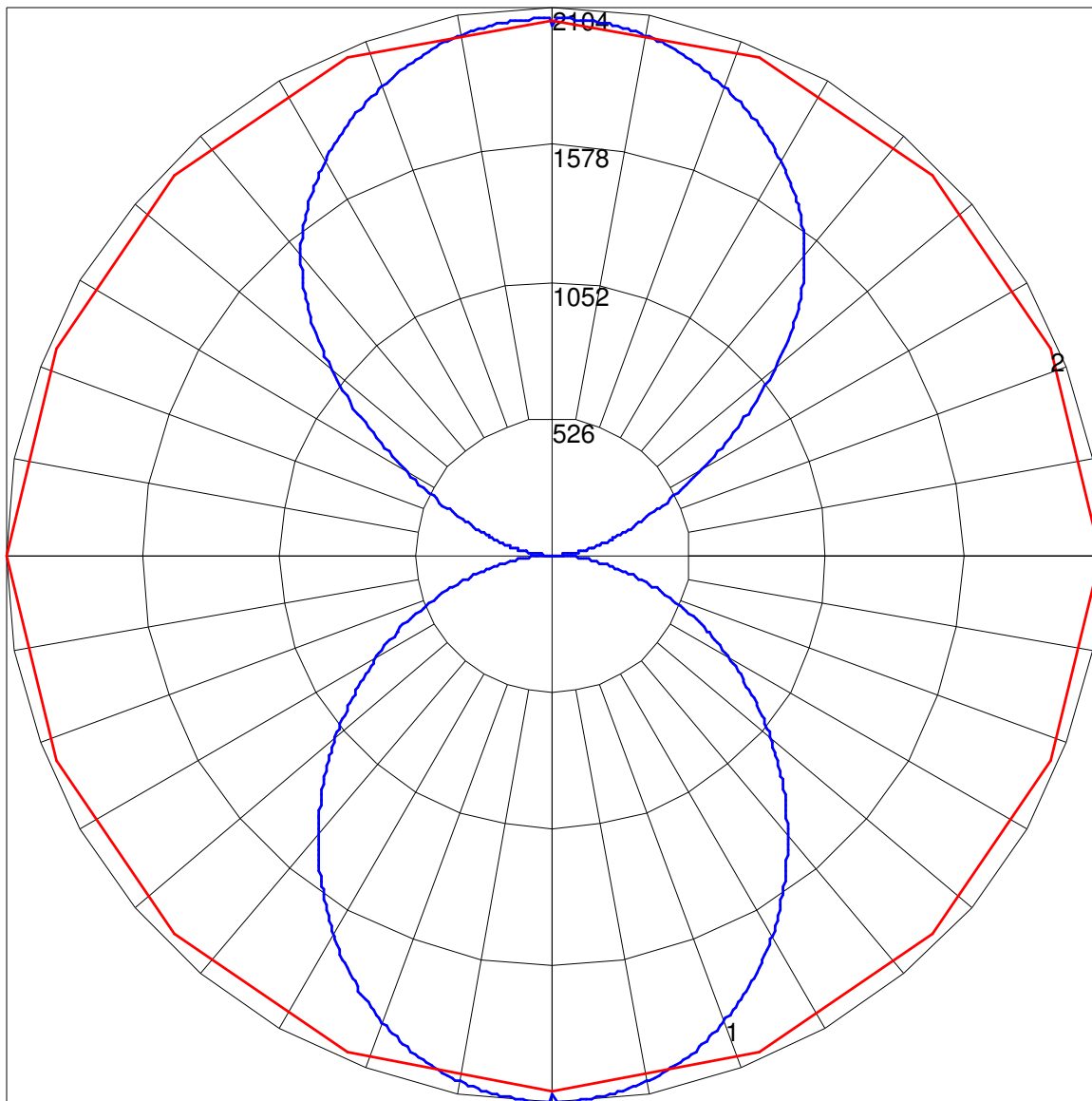
|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.6 | 21.0 | 21.6 | 22.1 | 23.4 | 20.6 | 21.0 | 21.6 | 22.0 | 23.4 |
|     | 6H | 21.4 | 21.7 | 22.4 | 22.7 | 24.1 | 21.3 | 21.7 | 22.4 | 22.7 | 24.1 |
|     | 8H | 21.6 | 21.9 | 22.7 | 23.0 | 24.4 | 21.7 | 22.0 | 22.7 | 23.0 | 24.4 |

Maximum UGR = 24.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2104.021 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.)