

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-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] 2/23/2026

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4WUDC-4'00-L12-835U-L12-835D-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 | 9906 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 121 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 13477 | 13140 | 12990 |
| 55 | 12389 | 12089 | 11962 |
| 65 | 11427 | 11151 | 11030 |
| 75 | 9690 | 9685 | 9680 |
| 85 | 7568 | 7872 | 8100 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-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 | 1955.595 | 1955.595 | 1955.595 | 1955.595 | 1955.595 |
| 0.5 | 1985.126 | 1957.236 | 1947.392 | 1951.494 | 1944.931 |
| 1.0 | 1985.126 | 1956.416 | 1947.392 | 1951.494 | 1944.931 |
| 1.5 | 1984.306 | 1955.595 | 1946.572 | 1951.494 | 1944.111 |
| 2.0 | 1983.485 | 1954.775 | 1945.752 | 1950.673 | 1944.111 |
| 2.5 | 1982.665 | 1953.955 | 1944.111 | 1949.853 | 1943.291 |
| 3.0 | 1981.024 | 1952.314 | 1943.291 | 1949.033 | 1941.650 |
| 3.5 | 1979.384 | 1950.673 | 1941.650 | 1947.392 | 1940.009 |
| 4.0 | 1977.743 | 1949.033 | 1940.009 | 1945.752 | 1938.369 |
| 4.5 | 1976.103 | 1946.572 | 1938.369 | 1944.111 | 1935.908 |
| 5.0 | 1974.462 | 1944.931 | 1935.908 | 1941.650 | 1933.447 |
| 5.5 | 1972.001 | 1942.470 | 1933.447 | 1939.189 | 1930.986 |
| 6.0 | 1969.540 | 1939.189 | 1930.986 | 1936.728 | 1927.705 |
| 6.5 | 1966.259 | 1936.728 | 1927.705 | 1933.447 | 1925.244 |
| 7.0 | 1963.798 | 1933.447 | 1925.244 | 1930.166 | 1921.963 |
| 7.5 | 1961.337 | 1930.166 | 1921.963 | 1926.885 | 1919.502 |
| 8.0 | 1957.236 | 1926.885 | 1917.861 | 1923.603 | 1916.221 |
| 8.5 | 1953.955 | 1922.783 | 1913.760 | 1919.502 | 1912.119 |
| 9.0 | 1949.853 | 1919.502 | 1910.479 | 1915.400 | 1908.018 |
| 9.5 | 1945.752 | 1915.400 | 1905.557 | 1910.479 | 1903.916 |
| 10.0 | 1941.650 | 1911.299 | 1901.455 | 1906.377 | 1898.995 |
| 10.5 | 1936.728 | 1906.377 | 1896.534 | 1901.455 | 1894.893 |
| 11.0 | 1932.627 | 1901.455 | 1891.612 | 1896.534 | 1889.151 |
| 11.5 | 1926.885 | 1896.534 | 1886.690 | 1891.612 | 1884.229 |
| 12.0 | 1921.963 | 1891.612 | 1881.768 | 1885.870 | 1878.487 |
| 12.5 | 1917.041 | 1885.870 | 1876.026 | 1880.128 | 1872.745 |
| 13.0 | 1911.299 | 1880.948 | 1870.284 | 1874.386 | 1867.003 |
| 13.5 | 1905.557 | 1874.386 | 1864.542 | 1867.823 | 1861.261 |
| 14.0 | 1899.815 | 1868.643 | 1857.979 | 1862.081 | 1855.519 |
| 14.5 | 1894.073 | 1862.901 | 1851.417 | 1855.519 | 1848.956 |
| 15.0 | 1888.331 | 1856.339 | 1844.855 | 1848.956 | 1842.394 |
| 15.5 | 1880.948 | 1850.597 | 1838.292 | 1841.573 | 1835.011 |
| 16.0 | 1872.745 | 1844.034 | 1830.910 | 1835.011 | 1828.449 |
| 16.5 | 1864.542 | 1836.652 | 1823.527 | 1827.628 | 1821.066 |
| 17.0 | 1857.159 | 1829.269 | 1816.144 | 1820.246 | 1813.683 |
| 17.5 | 1848.956 | 1821.066 | 1807.941 | 1812.043 | 1805.480 |
| 18.0 | 1840.753 | 1812.863 | 1799.738 | 1803.840 | 1797.277 |
| 18.5 | 1832.550 | 1804.660 | 1791.535 | 1794.816 | 1789.074 |
| 19.0 | 1824.347 | 1796.457 | 1784.152 | 1786.613 | 1779.231 |
| 19.5 | 1815.324 | 1788.254 | 1775.949 | 1776.770 | 1769.387 |
| 20.0 | 1807.121 | 1779.231 | 1768.567 | 1767.746 | 1759.543 |
| 20.5 | 1798.098 | 1771.028 | 1760.364 | 1757.903 | 1749.700 |
| 21.0 | 1789.074 | 1762.004 | 1751.341 | 1748.059 | 1739.036 |
| 21.5 | 1779.231 | 1752.981 | 1741.497 | 1738.216 | 1728.372 |
| 22.0 | 1770.207 | 1743.138 | 1730.833 | 1727.552 | 1718.528 |
| 22.5 | 1760.364 | 1733.294 | 1720.989 | 1716.888 | 1707.865 |
| 23.0 | 1750.520 | 1723.450 | 1711.146 | 1705.404 | 1697.201 |
| 23.5 | 1740.677 | 1713.607 | 1700.482 | 1694.740 | 1687.357 |
| 24.0 | 1730.013 | 1703.763 | 1690.638 | 1684.076 | 1676.693 |
| 24.5 | 1719.349 | 1693.099 | 1679.974 | 1673.412 | 1666.029 |
| 25.0 | 1709.505 | 1682.435 | 1669.311 | 1662.748 | 1655.365 |
| 25.5 | 1698.841 | 1671.771 | 1657.826 | 1652.084 | 1643.881 |
| 26.0 | 1687.357 | 1660.287 | 1647.162 | 1641.420 | 1633.217 |
| 26.5 | 1676.693 | 1649.623 | 1635.678 | 1630.756 | 1622.553 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1665.209 | 1638.139 | 1624.194 | 1620.092 | 1611.069 |
| 27.5 | 1653.725 | 1626.655 | 1613.530 | 1609.429 | 1600.405 |
| 28.0 | 1642.241 | 1614.350 | 1601.226 | 1597.944 | 1588.921 |
| 28.5 | 1629.936 | 1602.046 | 1589.741 | 1587.281 | 1577.437 |
| 29.0 | 1617.632 | 1590.562 | 1578.257 | 1575.796 | 1565.953 |
| 29.5 | 1606.147 | 1578.257 | 1566.773 | 1563.492 | 1555.289 |
| 30.0 | 1593.843 | 1565.953 | 1555.289 | 1552.008 | 1543.805 |
| 30.5 | 1581.538 | 1553.648 | 1542.984 | 1540.523 | 1532.320 |
| 31.0 | 1568.414 | 1542.164 | 1530.680 | 1528.219 | 1520.836 |
| 31.5 | 1556.109 | 1529.860 | 1518.375 | 1515.914 | 1508.532 |
| 32.0 | 1542.984 | 1516.735 | 1506.071 | 1502.790 | 1496.227 |
| 32.5 | 1529.860 | 1504.430 | 1493.766 | 1490.485 | 1483.102 |
| 33.0 | 1516.735 | 1492.126 | 1481.462 | 1478.181 | 1469.978 |
| 33.5 | 1504.430 | 1479.001 | 1468.337 | 1465.056 | 1457.673 |
| 34.0 | 1490.485 | 1465.876 | 1456.033 | 1451.931 | 1444.548 |
| 34.5 | 1477.360 | 1452.751 | 1442.087 | 1438.806 | 1430.603 |
| 35.0 | 1464.236 | 1440.447 | 1428.963 | 1425.681 | 1416.658 |
| 35.5 | 1450.290 | 1426.502 | 1415.838 | 1412.557 | 1402.713 |
| 36.0 | 1436.345 | 1413.377 | 1402.713 | 1398.611 | 1389.588 |
| 36.5 | 1423.220 | 1400.252 | 1389.588 | 1385.487 | 1376.463 |
| 37.0 | 1409.275 | 1386.307 | 1375.643 | 1371.542 | 1362.518 |
| 37.5 | 1395.330 | 1372.362 | 1362.518 | 1357.597 | 1349.393 |
| 38.0 | 1380.565 | 1358.417 | 1348.573 | 1343.651 | 1335.448 |
| 38.5 | 1366.620 | 1344.472 | 1334.628 | 1330.527 | 1321.503 |
| 39.0 | 1353.495 | 1330.527 | 1320.683 | 1316.582 | 1308.379 |
| 39.5 | 1338.730 | 1316.582 | 1307.558 | 1302.636 | 1293.613 |
| 40.0 | 1324.784 | 1301.816 | 1293.613 | 1288.691 | 1280.488 |
| 40.5 | 1310.019 | 1287.871 | 1279.668 | 1274.746 | 1266.543 |
| 41.0 | 1296.074 | 1273.106 | 1265.723 | 1259.981 | 1251.778 |
| 41.5 | 1281.309 | 1259.160 | 1250.957 | 1246.036 | 1237.012 |
| 42.0 | 1267.363 | 1244.395 | 1237.012 | 1232.091 | 1223.067 |
| 42.5 | 1253.418 | 1230.450 | 1223.067 | 1217.325 | 1209.122 |
| 43.0 | 1238.653 | 1216.505 | 1209.122 | 1203.380 | 1194.357 |
| 43.5 | 1224.708 | 1201.739 | 1194.357 | 1189.435 | 1180.412 |
| 44.0 | 1209.943 | 1186.974 | 1179.591 | 1174.670 | 1166.467 |
| 44.5 | 1195.177 | 1172.209 | 1164.826 | 1159.904 | 1151.701 |
| 45.0 | 1180.412 | 1158.264 | 1150.881 | 1145.139 | 1137.756 |
| 45.5 | 1166.467 | 1143.498 | 1136.116 | 1131.194 | 1123.811 |
| 46.0 | 1151.701 | 1128.733 | 1121.350 | 1116.428 | 1109.866 |
| 46.5 | 1136.936 | 1113.967 | 1107.405 | 1102.483 | 1095.921 |
| 47.0 | 1122.170 | 1099.202 | 1092.640 | 1087.718 | 1081.155 |
| 47.5 | 1106.585 | 1084.437 | 1077.874 | 1072.952 | 1067.210 |
| 48.0 | 1091.819 | 1069.671 | 1063.109 | 1059.007 | 1052.445 |
| 48.5 | 1077.054 | 1054.906 | 1049.164 | 1044.242 | 1037.679 |
| 49.0 | 1061.468 | 1040.140 | 1034.398 | 1029.476 | 1023.734 |
| 49.5 | 1046.703 | 1025.375 | 1019.633 | 1015.531 | 1009.789 |
| 50.0 | 1031.117 | 1010.610 | 1004.867 | 1000.766 | 995.024 |
| 50.5 | 1015.531 | 995.844 | 990.102 | 986.001 | 981.079 |
| 51.0 | 999.946 | 981.079 | 975.337 | 971.235 | 966.313 |
| 51.5 | 985.180 | 966.313 | 960.571 | 957.290 | 951.548 |
| 52.0 | 970.415 | 951.548 | 945.806 | 942.525 | 937.603 |
| 52.5 | 954.829 | 936.783 | 931.040 | 928.580 | 922.837 |
| 53.0 | 940.064 | 922.017 | 916.275 | 913.814 | 908.072 |
| 53.5 | 924.478 | 907.252 | 901.510 | 899.049 | 893.307 |
| 54.0 | 909.713 | 892.486 | 887.565 | 885.104 | 878.541 |
| 54.5 | 894.947 | 878.541 | 872.799 | 870.338 | 863.776 |

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| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 880.182 | 864.596 | 858.854 | 856.393 | 849.831 |
| 55.5 | 866.237 | 849.831 | 844.089 | 841.628 | 835.886 |
| 56.0 | 850.651 | 835.065 | 829.323 | 827.683 | 821.120 |
| 56.5 | 835.886 | 821.120 | 814.968 | 813.163 | 806.683 |
| 57.0 | 821.941 | 806.355 | 800.449 | 798.480 | 792.328 |
| 57.5 | 807.503 | 792.082 | 786.011 | 784.207 | 777.808 |
| 58.0 | 793.066 | 777.972 | 771.492 | 769.852 | 763.453 |
| 58.5 | 778.547 | 763.781 | 757.219 | 755.742 | 749.672 |
| 59.0 | 764.274 | 749.508 | 742.864 | 741.469 | 735.645 |
| 59.5 | 750.410 | 735.071 | 728.262 | 727.278 | 721.782 |
| 60.0 | 736.219 | 720.716 | 713.825 | 713.005 | 707.673 |
| 60.5 | 722.192 | 706.688 | 699.880 | 698.649 | 693.400 |
| 61.0 | 708.411 | 692.661 | 686.017 | 684.622 | 679.455 |
| 61.5 | 693.646 | 678.798 | 672.236 | 670.677 | 665.673 |
| 62.0 | 679.126 | 664.525 | 657.963 | 656.814 | 651.564 |
| 62.5 | 664.279 | 651.318 | 644.510 | 643.607 | 638.193 |
| 63.0 | 650.006 | 639.670 | 634.174 | 633.764 | 629.334 |
| 63.5 | 635.568 | 626.955 | 622.608 | 621.705 | 617.112 |
| 64.0 | 626.873 | 614.569 | 610.631 | 608.827 | 603.577 |
| 64.5 | 613.338 | 601.362 | 597.096 | 595.456 | 590.534 |
| 65.0 | 598.163 | 587.253 | 583.726 | 582.167 | 577.409 |
| 65.5 | 582.659 | 572.980 | 569.780 | 569.042 | 564.202 |
| 66.0 | 567.730 | 559.034 | 556.163 | 555.835 | 550.667 |
| 66.5 | 552.964 | 544.761 | 542.300 | 542.300 | 537.707 |
| 67.0 | 538.363 | 530.570 | 528.601 | 528.847 | 524.664 |
| 67.5 | 524.008 | 516.625 | 514.820 | 515.313 | 511.211 |
| 68.0 | 509.488 | 502.680 | 501.039 | 501.695 | 497.430 |
| 68.5 | 494.887 | 488.489 | 487.176 | 488.079 | 483.895 |
| 69.0 | 479.793 | 474.215 | 473.231 | 473.723 | 469.868 |
| 69.5 | 465.110 | 460.188 | 459.040 | 459.614 | 456.087 |
| 70.0 | 450.591 | 445.997 | 445.177 | 445.423 | 442.306 |
| 70.5 | 436.318 | 431.724 | 431.150 | 431.396 | 428.443 |
| 71.0 | 421.716 | 417.533 | 417.369 | 417.697 | 414.498 |
| 71.5 | 407.115 | 403.341 | 403.670 | 403.916 | 401.127 |
| 72.0 | 392.924 | 389.068 | 389.724 | 390.053 | 387.674 |
| 72.5 | 378.733 | 375.041 | 376.108 | 376.436 | 374.467 |
| 73.0 | 364.705 | 361.342 | 362.819 | 363.229 | 361.506 |
| 73.5 | 351.088 | 347.807 | 349.530 | 350.268 | 348.381 |
| 74.0 | 337.635 | 334.272 | 336.405 | 336.979 | 335.749 |
| 74.5 | 324.183 | 320.983 | 323.362 | 323.937 | 323.034 |
| 75.0 | 310.648 | 307.777 | 310.484 | 311.058 | 310.320 |
| 75.5 | 297.277 | 294.570 | 297.687 | 298.425 | 297.605 |
| 76.0 | 283.742 | 281.855 | 285.054 | 285.875 | 285.218 |
| 76.5 | 270.945 | 269.305 | 272.504 | 273.406 | 272.832 |
| 77.0 | 258.476 | 256.672 | 260.199 | 261.019 | 260.117 |
| 77.5 | 245.598 | 244.367 | 247.895 | 248.551 | 247.649 |
| 78.0 | 233.047 | 232.063 | 235.590 | 236.575 | 235.672 |
| 78.5 | 220.579 | 220.087 | 223.450 | 224.598 | 223.860 |
| 79.0 | 208.602 | 208.110 | 211.555 | 212.950 | 212.376 |
| 79.5 | 196.626 | 196.380 | 199.825 | 201.302 | 200.809 |
| 80.0 | 184.814 | 184.896 | 188.095 | 190.145 | 189.489 |
| 80.5 | 172.919 | 173.657 | 176.939 | 178.907 | 178.415 |
| 81.0 | 161.517 | 162.666 | 165.865 | 167.915 | 167.587 |
| 81.5 | 150.525 | 151.756 | 155.037 | 157.088 | 156.841 |
| 82.0 | 140.271 | 141.092 | 144.455 | 146.588 | 146.341 |
| 82.5 | 130.018 | 130.756 | 134.037 | 136.170 | 136.006 |

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| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 119.764 | 120.912 | 123.783 | 125.998 | 126.162 |
| 83.5 | 109.674 | 111.069 | 113.858 | 115.990 | 116.483 |
| 84.0 | 100.241 | 101.389 | 104.014 | 106.065 | 106.803 |
| 84.5 | 90.643 | 91.874 | 94.335 | 96.385 | 97.124 |
| 85.0 | 81.702 | 82.686 | 84.983 | 86.788 | 87.444 |
| 85.5 | 73.007 | 73.499 | 75.468 | 77.354 | 78.010 |
| 86.0 | 64.476 | 64.640 | 66.362 | 68.085 | 68.905 |
| 86.5 | 56.026 | 56.026 | 57.585 | 59.144 | 59.882 |
| 87.0 | 47.495 | 47.495 | 48.644 | 50.612 | 51.187 |
| 87.5 | 39.046 | 39.128 | 40.195 | 42.163 | 42.902 |
| 88.0 | 31.007 | 30.925 | 31.992 | 34.124 | 34.945 |
| 88.5 | 23.297 | 22.804 | 24.199 | 26.085 | 27.234 |
| 89.0 | 15.094 | 14.847 | 16.734 | 18.539 | 19.769 |
| 89.5 | 6.973 | 8.285 | 10.008 | 11.402 | 11.812 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.5 | 5.032 | 2.652 | 2.448 | 2.380 | 2.584 |
| 91.0 | 11.084 | 5.848 | 4.760 | 4.692 | 4.624 |
| 91.5 | 17.816 | 11.900 | 7.072 | 7.004 | 6.936 |
| 92.0 | 24.616 | 19.788 | 10.200 | 9.112 | 9.112 |
| 92.5 | 31.688 | 27.948 | 15.776 | 11.424 | 11.220 |
| 93.0 | 39.032 | 35.768 | 22.304 | 15.164 | 13.668 |
| 93.5 | 46.444 | 43.248 | 29.308 | 20.468 | 17.816 |
| 94.0 | 53.720 | 50.592 | 37.060 | 26.792 | 23.460 |
| 94.5 | 61.200 | 57.936 | 45.152 | 33.320 | 29.580 |
| 95.0 | 68.544 | 65.484 | 53.108 | 39.984 | 35.632 |
| 95.5 | 75.888 | 72.556 | 60.860 | 46.852 | 42.024 |
| 96.0 | 82.892 | 79.764 | 68.476 | 53.992 | 48.552 |
| 96.5 | 89.964 | 86.972 | 76.092 | 61.268 | 55.284 |
| 97.0 | 96.832 | 94.044 | 83.640 | 68.544 | 62.424 |
| 97.5 | 103.904 | 101.184 | 91.256 | 75.956 | 69.564 |
| 98.0 | 110.908 | 108.188 | 98.668 | 83.300 | 76.772 |
| 98.5 | 117.912 | 115.260 | 105.808 | 90.780 | 83.980 |
| 99.0 | 125.052 | 122.536 | 113.084 | 97.920 | 91.256 |
| 99.5 | 132.260 | 129.744 | 120.428 | 105.060 | 98.396 |
| 100.0 | 139.332 | 137.020 | 127.772 | 112.404 | 105.400 |
| 100.5 | 146.676 | 144.296 | 135.116 | 120.020 | 112.472 |
| 101.0 | 154.224 | 151.572 | 142.596 | 127.704 | 120.156 |
| 101.5 | 161.908 | 158.984 | 150.212 | 135.388 | 128.112 |
| 102.0 | 169.388 | 166.668 | 157.828 | 143.072 | 136.000 |
| 102.5 | 177.208 | 174.284 | 165.716 | 150.756 | 143.820 |
| 103.0 | 185.232 | 182.172 | 173.536 | 158.372 | 151.776 |
| 103.5 | 193.256 | 190.196 | 181.832 | 166.532 | 159.664 |
| 104.0 | 201.484 | 198.288 | 190.264 | 174.964 | 167.892 |
| 104.5 | 209.984 | 206.720 | 198.696 | 183.600 | 176.120 |
| 105.0 | 218.688 | 215.356 | 207.060 | 192.100 | 184.484 |
| 105.5 | 227.596 | 224.128 | 215.696 | 200.668 | 192.780 |
| 106.0 | 236.640 | 232.968 | 224.468 | 209.372 | 201.076 |
| 106.5 | 245.752 | 242.080 | 233.648 | 218.144 | 209.440 |
| 107.0 | 255.476 | 251.600 | 243.440 | 227.460 | 218.552 |
| 107.5 | 265.540 | 261.392 | 253.368 | 237.320 | 228.412 |
| 108.0 | 275.536 | 271.456 | 263.500 | 247.996 | 238.544 |
| 108.5 | 286.076 | 281.724 | 273.632 | 258.672 | 249.016 |
| 109.0 | 296.888 | 292.196 | 284.036 | 269.484 | 259.624 |
| 109.5 | 307.972 | 303.076 | 294.984 | 280.228 | 270.368 |
| 110.0 | 319.804 | 314.228 | 306.204 | 291.244 | 281.588 |
| 110.5 | 331.908 | 325.652 | 317.696 | 303.076 | 293.216 |

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| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 111.0 | 344.148 | 337.620 | 329.596 | 315.384 | 304.912 |
| 111.5 | 356.660 | 349.928 | 341.700 | 327.896 | 316.948 |
| 112.0 | 369.648 | 362.576 | 353.736 | 340.408 | 328.440 |
| 112.5 | 382.704 | 375.564 | 365.908 | 352.852 | 340.612 |
| 113.0 | 396.372 | 388.960 | 378.760 | 365.704 | 353.328 |
| 113.5 | 410.448 | 402.968 | 392.360 | 379.576 | 366.996 |
| 114.0 | 424.728 | 417.248 | 406.776 | 394.332 | 382.160 |
| 114.5 | 439.484 | 432.004 | 421.464 | 409.700 | 398.276 |
| 115.0 | 454.444 | 447.168 | 436.696 | 425.204 | 414.596 |
| 115.5 | 470.084 | 462.468 | 452.336 | 440.640 | 430.712 |
| 116.0 | 485.860 | 478.380 | 468.520 | 456.892 | 447.100 |
| 116.5 | 502.520 | 494.700 | 485.248 | 473.552 | 464.576 |
| 117.0 | 519.860 | 511.360 | 502.112 | 491.504 | 482.596 |
| 117.5 | 532.644 | 524.348 | 517.548 | 508.028 | 500.888 |
| 118.0 | 548.964 | 539.512 | 533.392 | 525.096 | 517.140 |
| 118.5 | 567.936 | 557.600 | 549.576 | 540.940 | 531.760 |
| 119.0 | 586.500 | 575.416 | 567.936 | 558.892 | 548.012 |
| 119.5 | 605.268 | 594.388 | 587.384 | 577.116 | 566.236 |
| 120.0 | 624.648 | 614.040 | 606.900 | 597.040 | 585.480 |
| 120.5 | 643.892 | 633.964 | 627.028 | 618.188 | 606.016 |
| 121.0 | 664.088 | 654.296 | 647.292 | 639.268 | 627.844 |
| 121.5 | 684.080 | 674.424 | 667.488 | 660.620 | 649.196 |
| 122.0 | 705.160 | 694.960 | 688.840 | 682.040 | 670.616 |
| 122.5 | 725.560 | 715.360 | 709.920 | 703.120 | 690.880 |
| 123.0 | 746.640 | 737.120 | 731.680 | 726.240 | 713.320 |
| 123.5 | 768.400 | 758.880 | 754.800 | 749.360 | 736.440 |
| 124.0 | 790.160 | 781.320 | 777.240 | 772.480 | 760.240 |
| 124.5 | 811.920 | 803.080 | 799.680 | 794.920 | 783.360 |
| 125.0 | 833.680 | 824.840 | 821.440 | 817.360 | 805.800 |
| 125.5 | 856.120 | 847.280 | 843.880 | 839.800 | 827.560 |
| 126.0 | 877.880 | 869.040 | 867.000 | 862.240 | 849.320 |
| 126.5 | 899.640 | 890.800 | 890.120 | 886.040 | 872.440 |
| 127.0 | 922.080 | 913.240 | 913.240 | 909.840 | 896.920 |
| 127.5 | 944.520 | 935.000 | 935.000 | 932.960 | 921.400 |
| 128.0 | 966.280 | 956.760 | 957.440 | 956.080 | 944.520 |
| 128.5 | 988.040 | 977.840 | 979.200 | 979.200 | 966.960 |
| 129.0 | 1009.800 | 998.920 | 1000.960 | 1001.640 | 990.080 |
| 129.5 | 1031.560 | 1020.680 | 1023.400 | 1024.760 | 1013.880 |
| 130.0 | 1053.320 | 1042.440 | 1045.840 | 1047.880 | 1039.040 |
| 130.5 | 1075.080 | 1063.520 | 1068.960 | 1070.320 | 1062.840 |
| 131.0 | 1096.840 | 1084.600 | 1090.720 | 1092.080 | 1084.600 |
| 131.5 | 1117.240 | 1105.000 | 1112.480 | 1112.480 | 1105.680 |
| 132.0 | 1138.320 | 1125.400 | 1133.560 | 1134.240 | 1126.080 |
| 132.5 | 1158.720 | 1146.480 | 1154.640 | 1155.320 | 1146.480 |
| 133.0 | 1179.120 | 1167.560 | 1175.040 | 1176.400 | 1166.200 |
| 133.5 | 1199.520 | 1187.960 | 1196.120 | 1197.480 | 1187.280 |
| 134.0 | 1219.920 | 1207.680 | 1215.840 | 1217.880 | 1207.680 |
| 134.5 | 1238.280 | 1227.400 | 1234.880 | 1236.240 | 1227.400 |
| 135.0 | 1256.640 | 1246.440 | 1253.240 | 1254.600 | 1245.080 |
| 135.5 | 1274.320 | 1266.160 | 1271.600 | 1272.280 | 1262.760 |
| 136.0 | 1292.000 | 1284.520 | 1288.600 | 1290.640 | 1281.120 |
| 136.5 | 1310.360 | 1302.200 | 1305.600 | 1309.000 | 1300.160 |
| 137.0 | 1327.360 | 1319.880 | 1323.280 | 1326.000 | 1317.840 |
| 137.5 | 1344.360 | 1336.200 | 1339.600 | 1341.640 | 1333.480 |
| 138.0 | 1360.680 | 1352.520 | 1355.240 | 1356.600 | 1348.440 |
| 138.5 | 1377.000 | 1368.160 | 1370.880 | 1371.560 | 1362.720 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 1392.640 | 1383.800 | 1386.520 | 1386.520 | 1377.000 |
| 139.5 | 1408.280 | 1399.440 | 1401.480 | 1400.800 | 1390.600 |
| 140.0 | 1423.240 | 1413.720 | 1416.440 | 1415.760 | 1405.560 |
| 140.5 | 1437.520 | 1427.320 | 1430.040 | 1429.360 | 1418.480 |
| 141.0 | 1451.800 | 1441.600 | 1443.640 | 1442.280 | 1431.400 |
| 141.5 | 1464.720 | 1454.520 | 1457.240 | 1455.200 | 1442.960 |
| 142.0 | 1478.320 | 1468.120 | 1470.160 | 1467.440 | 1455.200 |
| 142.5 | 1491.240 | 1481.040 | 1483.080 | 1480.360 | 1466.760 |
| 143.0 | 1504.160 | 1493.280 | 1495.320 | 1492.600 | 1479.000 |
| 143.5 | 1516.400 | 1506.200 | 1507.560 | 1504.840 | 1490.560 |
| 144.0 | 1527.960 | 1518.440 | 1519.120 | 1515.720 | 1501.440 |
| 144.5 | 1539.520 | 1530.000 | 1530.680 | 1526.600 | 1512.320 |
| 145.0 | 1550.400 | 1541.560 | 1541.560 | 1536.800 | 1522.520 |
| 145.5 | 1561.960 | 1553.120 | 1552.440 | 1548.360 | 1533.400 |
| 146.0 | 1572.840 | 1564.000 | 1563.320 | 1558.560 | 1544.280 |
| 146.5 | 1583.720 | 1574.880 | 1573.520 | 1569.440 | 1555.160 |
| 147.0 | 1593.920 | 1585.760 | 1583.040 | 1580.320 | 1566.040 |
| 147.5 | 1604.120 | 1595.960 | 1593.240 | 1590.520 | 1576.240 |
| 148.0 | 1614.320 | 1606.160 | 1602.080 | 1600.040 | 1587.120 |
| 148.5 | 1624.520 | 1616.360 | 1610.920 | 1609.560 | 1598.000 |
| 149.0 | 1634.040 | 1626.560 | 1619.760 | 1619.080 | 1608.880 |
| 149.5 | 1643.560 | 1636.080 | 1627.920 | 1628.600 | 1619.080 |
| 150.0 | 1653.080 | 1645.600 | 1636.760 | 1637.440 | 1628.600 |
| 150.5 | 1662.600 | 1655.120 | 1644.920 | 1645.600 | 1638.120 |
| 151.0 | 1671.440 | 1663.960 | 1653.080 | 1653.760 | 1646.960 |
| 151.5 | 1680.960 | 1672.800 | 1661.920 | 1661.920 | 1655.120 |
| 152.0 | 1689.800 | 1681.640 | 1670.080 | 1669.400 | 1663.280 |
| 152.5 | 1698.640 | 1689.800 | 1678.240 | 1677.560 | 1670.760 |
| 153.0 | 1707.480 | 1697.960 | 1686.400 | 1685.720 | 1677.560 |
| 153.5 | 1715.640 | 1706.120 | 1694.560 | 1693.880 | 1683.680 |
| 154.0 | 1723.800 | 1714.280 | 1703.400 | 1702.040 | 1690.480 |
| 154.5 | 1732.640 | 1721.760 | 1711.560 | 1709.520 | 1697.280 |
| 155.0 | 1740.800 | 1729.240 | 1719.720 | 1717.680 | 1704.760 |
| 155.5 | 1748.280 | 1736.040 | 1727.880 | 1725.840 | 1712.240 |
| 156.0 | 1755.760 | 1743.520 | 1736.720 | 1733.320 | 1719.720 |
| 156.5 | 1763.240 | 1751.000 | 1744.880 | 1741.480 | 1727.200 |
| 157.0 | 1770.720 | 1758.480 | 1753.040 | 1749.640 | 1734.680 |
| 157.5 | 1777.520 | 1765.280 | 1760.520 | 1757.120 | 1742.160 |
| 158.0 | 1784.320 | 1772.080 | 1768.000 | 1764.600 | 1749.640 |
| 158.5 | 1791.800 | 1779.560 | 1775.480 | 1772.080 | 1757.800 |
| 159.0 | 1797.920 | 1786.360 | 1782.280 | 1779.560 | 1765.280 |
| 159.5 | 1804.720 | 1793.160 | 1789.080 | 1787.040 | 1772.760 |
| 160.0 | 1810.840 | 1799.280 | 1795.880 | 1793.840 | 1780.240 |
| 160.5 | 1816.960 | 1805.400 | 1802.000 | 1800.640 | 1787.720 |
| 161.0 | 1823.080 | 1811.520 | 1808.120 | 1807.440 | 1795.200 |
| 161.5 | 1829.200 | 1818.320 | 1813.560 | 1814.240 | 1802.680 |
| 162.0 | 1836.000 | 1824.440 | 1819.000 | 1821.040 | 1809.480 |
| 162.5 | 1842.120 | 1830.560 | 1824.440 | 1827.160 | 1815.600 |
| 163.0 | 1848.240 | 1836.680 | 1829.880 | 1833.280 | 1821.720 |
| 163.5 | 1854.360 | 1842.120 | 1835.320 | 1839.400 | 1827.160 |
| 164.0 | 1860.480 | 1847.560 | 1840.080 | 1844.840 | 1832.600 |
| 164.5 | 1865.240 | 1853.000 | 1844.840 | 1850.280 | 1838.040 |
| 165.0 | 1870.680 | 1858.440 | 1849.600 | 1855.720 | 1842.800 |
| 165.5 | 1876.120 | 1863.200 | 1854.360 | 1860.480 | 1847.560 |
| 166.0 | 1881.560 | 1867.960 | 1859.120 | 1865.240 | 1851.640 |
| 166.5 | 1887.000 | 1872.720 | 1863.880 | 1869.320 | 1856.400 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1891.760 | 1876.800 | 1867.960 | 1873.400 | 1860.480 |
| 167.5 | 1896.520 | 1880.880 | 1872.720 | 1877.480 | 1865.240 |
| 168.0 | 1901.280 | 1884.960 | 1876.800 | 1881.560 | 1869.320 |
| 168.5 | 1906.040 | 1889.040 | 1880.880 | 1885.640 | 1874.080 |
| 169.0 | 1910.120 | 1892.440 | 1884.960 | 1889.040 | 1878.160 |
| 169.5 | 1913.520 | 1895.840 | 1888.360 | 1892.440 | 1882.240 |
| 170.0 | 1916.920 | 1899.240 | 1891.760 | 1895.840 | 1887.000 |
| 170.5 | 1920.320 | 1902.640 | 1894.480 | 1899.240 | 1890.400 |
| 171.0 | 1923.720 | 1905.360 | 1897.200 | 1902.640 | 1893.800 |
| 171.5 | 1926.440 | 1908.080 | 1899.920 | 1906.040 | 1897.200 |
| 172.0 | 1929.160 | 1910.800 | 1901.960 | 1908.760 | 1899.920 |
| 172.5 | 1931.880 | 1913.520 | 1904.000 | 1910.800 | 1901.960 |
| 173.0 | 1934.600 | 1916.240 | 1906.040 | 1913.520 | 1903.320 |
| 173.5 | 1936.640 | 1918.280 | 1908.080 | 1914.880 | 1904.680 |
| 174.0 | 1938.680 | 1920.320 | 1910.120 | 1916.240 | 1905.360 |
| 174.5 | 1940.040 | 1921.680 | 1911.480 | 1917.600 | 1906.040 |
| 175.0 | 1941.400 | 1923.720 | 1912.840 | 1918.280 | 1906.040 |
| 175.5 | 1942.760 | 1925.080 | 1914.880 | 1918.960 | 1906.720 |
| 176.0 | 1944.120 | 1926.440 | 1916.240 | 1918.960 | 1906.720 |
| 176.5 | 1944.800 | 1927.800 | 1916.920 | 1919.640 | 1906.720 |
| 177.0 | 1945.480 | 1929.160 | 1918.280 | 1919.640 | 1906.040 |
| 177.5 | 1946.840 | 1930.520 | 1919.640 | 1919.640 | 1906.040 |
| 178.0 | 1947.520 | 1930.520 | 1920.320 | 1919.640 | 1906.720 |
| 178.5 | 1947.520 | 1931.200 | 1921.000 | 1919.640 | 1906.720 |
| 179.0 | 1948.200 | 1931.880 | 1921.000 | 1919.640 | 1906.720 |
| 179.5 | 1948.880 | 1931.880 | 1921.680 | 1919.640 | 1906.720 |
| 180.0 | 1925.080 | 1925.080 | 1925.080 | 1925.080 | 1925.080 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 706.76 | N.A. | 7.10 |
| 0-30 | 1477.6 | N.A. | 14.90 |
| 0-40 | 2373.79 | N.A. | 24.00 |
| 0-60 | 4033.6 | N.A. | 40.70 |
| 0-80 | 4939.59 | N.A. | 49.90 |
| 0-90 | 5035.32 | N.A. | 50.80 |
| 10-90 | 4850.84 | N.A. | 49.00 |
| 20-40 | 1667.02 | N.A. | 16.80 |
| 20-50 | 2556.67 | N.A. | 25.80 |
| 40-70 | 2236.65 | N.A. | 22.60 |
| 60-80 | 905.99 | N.A. | 9.10 |
| 70-80 | 329.16 | N.A. | 3.30 |
| 80-90 | 95.73 | N.A. | 1.00 |
| 90-110 | 278.59 | N.A. | 2.80 |
| 90-120 | 715.17 | N.A. | 7.20 |
| 90-130 | 1448.82 | N.A. | 14.60 |
| 90-150 | 3369.85 | N.A. | 34.00 |
| 90-180 | 4870.32 | N.A. | 49.20 |
| 110-180 | 4591.73 | N.A. | 46.40 |
| 0-180 | 9905.64 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 184.48 |
| 10-20 | 522.28 |
| 20-30 | 770.84 |
| 30-40 | 896.19 |
| 40-50 | 889.64 |
| 50-60 | 770.17 |
| 60-70 | 576.84 |
| 70-80 | 329.16 |
| 80-90 | 95.73 |
| 90-100 | 60.09 |
| 100-110 | 218.50 |
| 110-120 | 436.58 |
| 120-130 | 733.65 |
| 130-140 | 959.31 |
| 140-150 | 961.71 |
| 150-160 | 794.42 |
| 160-170 | 523.49 |
| 170-180 | 182.56 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-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-L12-835U-L12-835D-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 | 16.9 | 17.8 | 17.9 | 18.8 | 20.0 | 16.8 | 17.7 | 17.8 | 18.7 | 19.9 |
| | 3H | 18.7 | 19.5 | 19.7 | 20.5 | 21.7 | 18.6 | 19.4 | 19.6 | 20.4 | 21.6 |
| | 4H | 19.3 | 20.1 | 20.3 | 21.0 | 22.3 | 19.2 | 20.0 | 20.2 | 21.0 | 22.2 |
| | 6H | 19.7 | 20.4 | 20.7 | 21.4 | 22.7 | 19.7 | 20.4 | 20.7 | 21.4 | 22.7 |
| | 8H | 19.9 | 20.5 | 20.9 | 21.5 | 22.8 | 19.8 | 20.5 | 20.8 | 21.5 | 22.8 |
| | 12H | 20.0 | 20.6 | 21.0 | 21.6 | 22.9 | 19.9 | 20.6 | 20.9 | 21.6 | 22.9 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 17.5 | 18.2 | 18.4 | 19.2 | 20.5 | 17.4 | 18.1 | 18.4 | 19.1 | 20.4 |
| | 3H | 19.4 | 20.1 | 20.4 | 21.1 | 22.4 | 19.4 | 20.0 | 20.4 | 21.0 | 22.3 |
| | 4H | 20.2 | 20.7 | 21.2 | 21.7 | 23.1 | 20.1 | 20.7 | 21.1 | 21.7 | 23.0 |
| | 6H | 20.7 | 21.2 | 21.7 | 22.2 | 23.6 | 20.7 | 21.2 | 21.7 | 22.2 | 23.5 |
| | 8H | 20.9 | 21.4 | 21.9 | 22.4 | 23.7 | 20.9 | 21.4 | 21.9 | 22.4 | 23.7 |
| | 12H | 21.0 | 21.4 | 22.0 | 22.5 | 23.8 | 21.0 | 21.5 | 22.1 | 22.5 | 23.8 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 20.4 | 20.9 | 21.4 | 21.9 | 23.2 | 20.4 | 20.8 | 21.4 | 21.8 | 23.2 |
| | 6H | 21.1 | 21.5 | 22.1 | 22.5 | 23.9 | 21.1 | 21.5 | 22.1 | 22.5 | 23.9 |
| | 8H | 21.4 | 21.7 | 22.4 | 22.7 | 24.1 | 21.4 | 21.7 | 22.4 | 22.8 | 24.1 |
| | 12H | 21.6 | 21.9 | 22.6 | 22.9 | 24.3 | 21.6 | 21.9 | 22.6 | 22.9 | 24.3 |

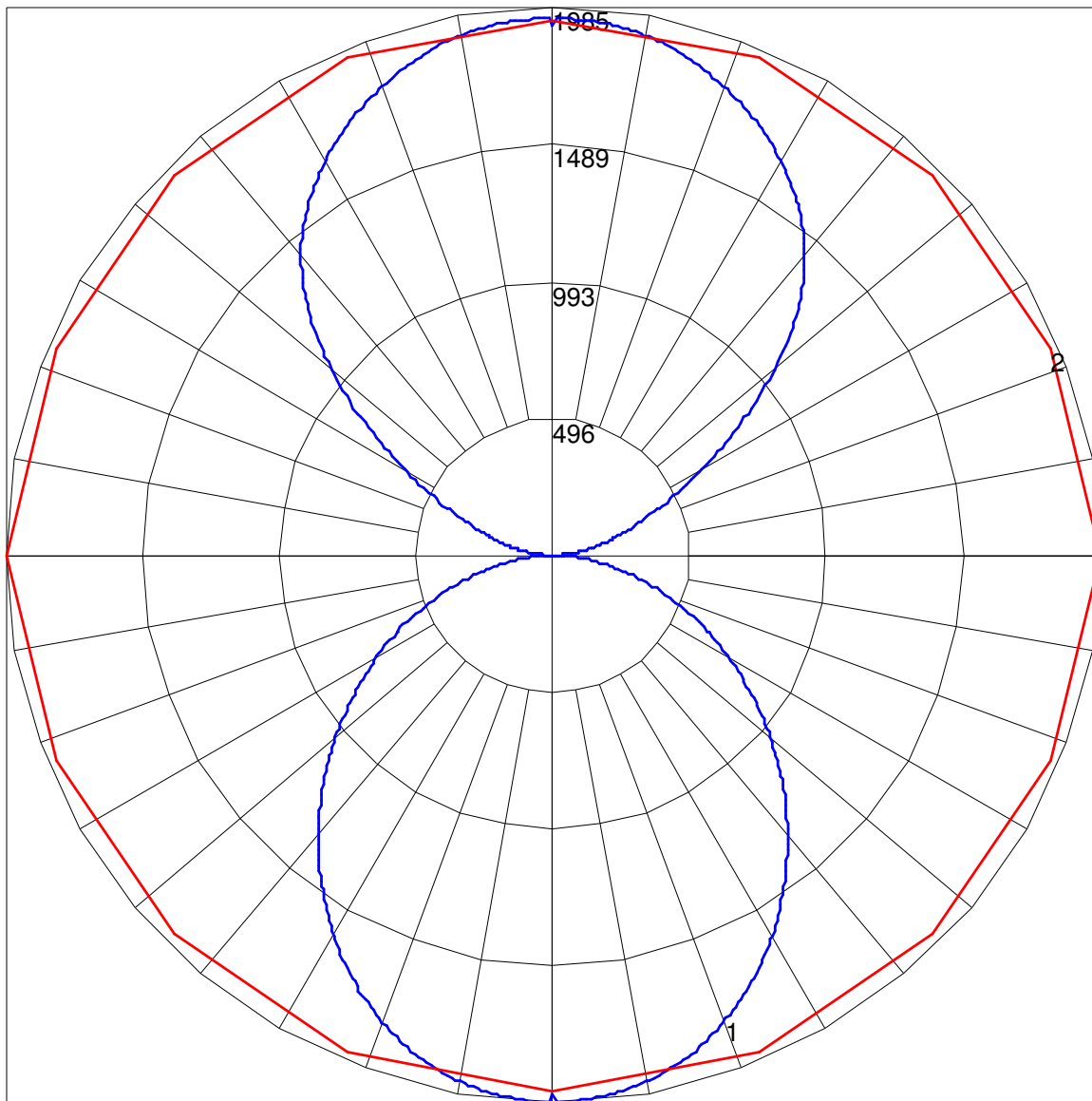
| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.4 | 20.8 | 21.4 | 21.9 | 23.2 | 20.4 | 20.8 | 21.4 | 21.8 | 23.2 |
| | 6H | 21.2 | 21.5 | 22.2 | 22.5 | 23.9 | 21.1 | 21.5 | 22.2 | 22.5 | 23.9 |
| | 8H | 21.4 | 21.7 | 22.5 | 22.8 | 24.2 | 21.5 | 21.8 | 22.5 | 22.8 | 24.2 |

Maximum UGR = 24.3

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4'00-L12-835U-L12-835D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1985.126 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.)