



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM ul #13323616.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 26 AUG 2020

[MANUFAC] H E Williams Inc

[LUMCAT] MX4WUD-4'00-L15/835U/L15/835D-ASYUD-DIM-UNV

[LUMINAIRE] White aluminum housing, frosted lens enclosure

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[_CONVERT] Luminaire test position and photometric web converted from original test data

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 11144 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 101 |
| Total Luminaire Watts | 110.4 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.33 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 14216 | 16997 | 18042 |
| 55 | 13515 | 16505 | 17611 |
| 65 | 12578 | 15765 | 16908 |
| 75 | 10874 | 14715 | 16050 |
| 85 | 7919 | 13614 | 15821 |

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PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 |
| 2.5 | 1977.367 | 1997.227 | 1994.637 | 2004.135 | 2007.589 | 2004.135 | 1994.637 | 1997.227 | 1977.367 | 1965.279 |
| 5.0 | 1969.596 | 2004.999 | 2013.634 | 2031.767 | 2036.084 | 2031.767 | 2013.634 | 2004.999 | 1969.596 | 1941.101 |
| 7.5 | 1956.644 | 2006.726 | 2026.586 | 2052.490 | 2061.125 | 2052.490 | 2026.586 | 2006.726 | 1956.644 | 1913.470 |
| 10.0 | 1938.511 | 2002.408 | 2034.357 | 2067.169 | 2080.122 | 2067.169 | 2034.357 | 2002.408 | 1938.511 | 1882.385 |
| 12.5 | 1915.197 | 1993.774 | 2035.220 | 2076.668 | 2090.483 | 2076.668 | 2035.220 | 1993.774 | 1915.197 | 1847.846 |
| 15.0 | 1887.566 | 1979.094 | 2030.903 | 2078.394 | 2092.210 | 2078.394 | 2030.903 | 1979.094 | 1887.566 | 1809.853 |
| 17.5 | 1855.617 | 1959.234 | 2018.814 | 2070.623 | 2087.893 | 2070.623 | 2018.814 | 1959.234 | 1855.617 | 1767.542 |
| 20.0 | 1819.351 | 1932.467 | 2000.681 | 2058.534 | 2078.394 | 2058.534 | 2000.681 | 1932.467 | 1819.351 | 1721.778 |
| 22.5 | 1778.767 | 1900.518 | 1976.504 | 2040.401 | 2060.262 | 2040.401 | 1976.504 | 1900.518 | 1778.767 | 1673.423 |
| 25.0 | 1733.003 | 1862.525 | 1946.282 | 2014.497 | 2035.220 | 2014.497 | 1946.282 | 1862.525 | 1733.003 | 1621.614 |
| 27.5 | 1682.921 | 1818.487 | 1909.153 | 1980.821 | 2003.272 | 1980.821 | 1909.153 | 1818.487 | 1682.921 | 1568.078 |
| 30.0 | 1627.658 | 1768.405 | 1865.979 | 1939.374 | 1961.825 | 1939.374 | 1865.979 | 1768.405 | 1627.658 | 1511.089 |
| 32.5 | 1569.805 | 1714.006 | 1813.306 | 1889.293 | 1912.607 | 1889.293 | 1813.306 | 1714.006 | 1569.805 | 1450.645 |
| 35.0 | 1510.225 | 1654.426 | 1754.590 | 1833.166 | 1856.480 | 1833.166 | 1754.590 | 1654.426 | 1510.225 | 1387.611 |
| 37.5 | 1448.055 | 1590.529 | 1694.146 | 1771.859 | 1793.446 | 1771.859 | 1694.146 | 1590.529 | 1448.055 | 1321.987 |
| 40.0 | 1382.430 | 1526.631 | 1630.249 | 1706.235 | 1726.095 | 1706.235 | 1630.249 | 1526.631 | 1382.430 | 1255.499 |
| 42.5 | 1314.215 | 1460.143 | 1560.307 | 1634.566 | 1656.153 | 1634.566 | 1560.307 | 1460.143 | 1314.215 | 1188.147 |
| 45.0 | 1245.137 | 1391.065 | 1488.638 | 1559.443 | 1580.167 | 1559.443 | 1488.638 | 1391.065 | 1245.137 | 1119.933 |
| 47.5 | 1176.059 | 1317.669 | 1414.379 | 1482.594 | 1501.590 | 1482.594 | 1414.379 | 1317.669 | 1176.059 | 1052.581 |
| 50.0 | 1106.980 | 1241.683 | 1336.666 | 1404.017 | 1422.150 | 1404.017 | 1336.666 | 1241.683 | 1106.980 | 986.957 |
| 52.5 | 1035.312 | 1164.834 | 1256.362 | 1321.987 | 1339.256 | 1321.987 | 1256.362 | 1164.834 | 1035.312 | 919.605 |
| 55.0 | 960.189 | 1087.120 | 1172.605 | 1237.366 | 1251.181 | 1237.366 | 1172.605 | 1087.120 | 960.189 | 851.132 |
| 57.5 | 885.066 | 1006.817 | 1087.984 | 1148.427 | 1162.243 | 1148.427 | 1087.984 | 1006.817 | 885.066 | 782.571 |
| 60.0 | 809.944 | 924.786 | 1000.772 | 1057.762 | 1070.714 | 1057.762 | 1000.772 | 924.786 | 809.944 | 712.370 |
| 62.5 | 733.957 | 841.201 | 913.561 | 965.370 | 977.458 | 965.370 | 913.561 | 841.201 | 733.957 | 643.119 |
| 65.0 | 658.403 | 756.840 | 825.227 | 872.977 | 885.066 | 872.977 | 825.227 | 756.840 | 658.403 | 573.264 |
| 67.5 | 581.467 | 672.305 | 735.598 | 781.017 | 791.638 | 781.017 | 735.598 | 672.305 | 581.467 | 502.718 |
| 70.0 | 502.459 | 590.620 | 648.128 | 687.070 | 697.691 | 687.070 | 648.128 | 590.620 | 502.459 | 431.567 |
| 72.5 | 424.832 | 505.654 | 560.484 | 597.182 | 607.112 | 597.182 | 560.484 | 505.654 | 424.832 | 361.021 |
| 75.0 | 348.587 | 421.205 | 471.719 | 505.481 | 514.547 | 505.481 | 471.719 | 421.205 | 348.587 | 292.806 |
| 77.5 | 274.500 | 339.002 | 385.112 | 415.593 | 423.191 | 415.593 | 385.112 | 339.002 | 274.500 | 228.477 |
| 80.0 | 204.040 | 260.857 | 301.095 | 328.208 | 335.634 | 328.208 | 301.095 | 260.857 | 204.040 | 167.860 |
| 82.5 | 140.661 | 187.202 | 221.051 | 244.106 | 251.359 | 244.106 | 221.051 | 187.202 | 140.661 | 112.425 |
| 85.0 | 85.484 | 120.110 | 146.964 | 165.011 | 170.796 | 165.011 | 146.964 | 120.110 | 85.484 | 63.466 |
| 87.5 | 38.943 | 61.652 | 80.131 | 92.997 | 97.573 | 92.997 | 80.131 | 61.652 | 38.943 | 21.932 |
| 90.0 | 8.073 | 22.991 | 44.051 | 59.144 | 66.165 | 59.144 | 44.051 | 22.991 | 8.073 | 1.229 |
| 92.5 | 40.210 | 63.658 | 82.736 | 96.021 | 100.747 | 96.021 | 82.736 | 63.658 | 40.210 | 22.646 |
| 95.0 | 88.264 | 124.017 | 151.743 | 170.377 | 176.350 | 170.377 | 151.743 | 124.017 | 88.264 | 65.530 |
| 97.5 | 145.235 | 193.290 | 228.240 | 252.044 | 259.532 | 252.044 | 228.240 | 193.290 | 145.235 | 116.082 |
| 100.0 | 210.675 | 269.340 | 310.887 | 338.883 | 346.550 | 338.883 | 310.887 | 269.340 | 210.675 | 173.318 |
| 102.5 | 283.427 | 350.026 | 397.636 | 429.107 | 436.954 | 429.107 | 397.636 | 350.026 | 283.427 | 235.907 |
| 105.0 | 359.922 | 434.902 | 487.059 | 521.920 | 531.281 | 521.920 | 487.059 | 434.902 | 359.922 | 302.328 |
| 107.5 | 438.648 | 522.097 | 578.712 | 616.603 | 626.856 | 616.603 | 578.712 | 522.097 | 438.648 | 372.761 |
| 110.0 | 518.798 | 609.826 | 669.204 | 709.414 | 720.380 | 709.414 | 669.204 | 609.826 | 518.798 | 445.601 |
| 112.5 | 600.376 | 694.167 | 759.519 | 806.416 | 817.382 | 806.416 | 759.519 | 694.167 | 600.376 | 519.067 |
| 115.0 | 679.815 | 781.452 | 852.064 | 901.366 | 913.848 | 901.366 | 852.064 | 781.452 | 679.815 | 591.907 |
| 117.5 | 757.825 | 868.557 | 943.270 | 996.764 | 1009.246 | 996.764 | 943.270 | 868.557 | 757.825 | 664.034 |
| 120.0 | 836.283 | 954.861 | 1033.317 | 1092.161 | 1105.535 | 1092.161 | 1033.317 | 954.861 | 836.283 | 735.536 |
| 122.5 | 913.848 | 1039.558 | 1123.365 | 1185.773 | 1200.039 | 1185.773 | 1123.365 | 1039.558 | 913.848 | 808.021 |
| 125.0 | 991.414 | 1122.473 | 1210.738 | 1277.605 | 1291.869 | 1277.605 | 1210.738 | 1122.473 | 991.414 | 878.810 |
| 127.5 | 1068.980 | 1202.714 | 1297.220 | 1364.977 | 1382.809 | 1364.977 | 1297.220 | 1202.714 | 1068.980 | 949.510 |
| 130.0 | 1142.980 | 1282.062 | 1380.135 | 1449.676 | 1468.398 | 1449.676 | 1380.135 | 1282.062 | 1142.980 | 1019.053 |
| 132.5 | 1214.305 | 1360.520 | 1460.375 | 1530.808 | 1550.423 | 1530.808 | 1460.375 | 1360.520 | 1214.305 | 1086.811 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 1285.628 | 1436.302 | 1537.049 | 1610.157 | 1631.554 | 1610.157 | 1537.049 | 1436.302 | 1285.628 | 1156.353 |
| 137.5 | 1356.954 | 1507.627 | 1611.049 | 1687.723 | 1710.012 | 1687.723 | 1611.049 | 1507.627 | 1356.954 | 1226.787 |
| 140.0 | 1427.387 | 1576.277 | 1683.265 | 1761.723 | 1782.228 | 1761.723 | 1683.265 | 1576.277 | 1427.387 | 1296.328 |
| 142.5 | 1495.146 | 1642.253 | 1749.239 | 1829.480 | 1851.769 | 1829.480 | 1749.239 | 1642.253 | 1495.146 | 1364.977 |
| 145.0 | 1559.338 | 1708.228 | 1811.649 | 1892.782 | 1916.853 | 1892.782 | 1811.649 | 1708.228 | 1559.338 | 1432.736 |
| 147.5 | 1620.856 | 1769.746 | 1872.275 | 1950.732 | 1974.805 | 1950.732 | 1872.275 | 1769.746 | 1620.856 | 1497.820 |
| 150.0 | 1680.590 | 1825.913 | 1926.660 | 2002.442 | 2025.623 | 2002.442 | 1926.660 | 1825.913 | 1680.590 | 1560.229 |
| 152.5 | 1737.650 | 1877.624 | 1971.238 | 2045.238 | 2068.419 | 2045.238 | 1971.238 | 1877.624 | 1737.650 | 1619.072 |
| 155.0 | 1789.360 | 1923.094 | 2009.575 | 2080.008 | 2101.405 | 2080.008 | 2009.575 | 1923.094 | 1789.360 | 1674.349 |
| 157.5 | 1836.613 | 1962.323 | 2040.779 | 2106.756 | 2127.261 | 2106.756 | 2040.779 | 1962.323 | 1836.613 | 1727.842 |
| 160.0 | 1878.516 | 1995.311 | 2065.744 | 2125.478 | 2145.983 | 2125.478 | 2065.744 | 1995.311 | 1878.516 | 1777.771 |
| 162.5 | 1915.961 | 2022.949 | 2084.467 | 2137.960 | 2155.790 | 2137.960 | 2084.467 | 2022.949 | 1915.961 | 1825.023 |
| 165.0 | 1948.949 | 2043.454 | 2096.949 | 2145.983 | 2160.249 | 2145.983 | 2096.949 | 2043.454 | 1948.949 | 1868.709 |
| 167.5 | 1977.479 | 2058.612 | 2101.405 | 2144.201 | 2158.467 | 2144.201 | 2101.405 | 2058.612 | 1977.479 | 1907.938 |
| 170.0 | 2001.552 | 2067.527 | 2100.515 | 2134.394 | 2147.767 | 2134.394 | 2100.515 | 2067.527 | 2001.552 | 1943.600 |
| 172.5 | 2020.275 | 2071.985 | 2092.490 | 2119.238 | 2128.153 | 2119.238 | 2092.490 | 2071.985 | 2020.275 | 1975.697 |
| 175.0 | 2033.648 | 2070.201 | 2079.116 | 2097.839 | 2102.297 | 2097.839 | 2079.116 | 2070.201 | 2033.648 | 2004.226 |
| 177.5 | 2041.671 | 2062.178 | 2059.502 | 2069.309 | 2072.876 | 2069.309 | 2059.502 | 2062.178 | 2041.671 | 2029.190 |
| 180.0 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 |

Vert. Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 | 1975.641 |
| 2.5 | 1938.511 | 1934.193 | 1935.920 | 1934.193 | 1938.511 | 1965.279 | 1977.367 |
| 5.0 | 1903.108 | 1893.610 | 1891.883 | 1893.610 | 1903.108 | 1941.101 | 1969.596 |
| 7.5 | 1865.979 | 1848.709 | 1845.255 | 1848.709 | 1865.979 | 1913.470 | 1956.644 |
| 10.0 | 1826.259 | 1802.081 | 1795.173 | 1802.081 | 1826.259 | 1882.385 | 1938.511 |
| 12.5 | 1783.948 | 1752.863 | 1743.365 | 1752.863 | 1783.948 | 1847.846 | 1915.197 |
| 15.0 | 1737.320 | 1700.191 | 1689.829 | 1700.191 | 1737.320 | 1809.853 | 1887.566 |
| 17.5 | 1687.238 | 1647.518 | 1633.703 | 1647.518 | 1687.238 | 1767.542 | 1855.617 |
| 20.0 | 1634.566 | 1590.529 | 1575.850 | 1590.529 | 1634.566 | 1721.778 | 1819.351 |
| 22.5 | 1581.031 | 1530.949 | 1516.270 | 1530.949 | 1581.031 | 1673.423 | 1778.767 |
| 25.0 | 1525.768 | 1473.096 | 1455.826 | 1473.096 | 1525.768 | 1621.614 | 1733.003 |
| 27.5 | 1469.642 | 1414.379 | 1395.382 | 1414.379 | 1469.642 | 1568.078 | 1682.921 |
| 30.0 | 1410.062 | 1355.662 | 1336.666 | 1355.662 | 1410.062 | 1511.089 | 1627.658 |
| 32.5 | 1347.028 | 1293.492 | 1277.086 | 1293.492 | 1347.028 | 1450.645 | 1569.805 |
| 35.0 | 1283.130 | 1227.867 | 1212.325 | 1227.867 | 1283.130 | 1387.611 | 1510.225 |
| 37.5 | 1218.369 | 1161.380 | 1143.246 | 1161.380 | 1218.369 | 1321.987 | 1448.055 |
| 40.0 | 1151.881 | 1094.028 | 1074.168 | 1094.028 | 1151.881 | 1255.499 | 1382.430 |
| 42.5 | 1086.257 | 1028.404 | 1009.407 | 1028.404 | 1086.257 | 1188.147 | 1314.215 |
| 45.0 | 1021.496 | 967.097 | 950.691 | 967.097 | 1021.496 | 1119.933 | 1245.137 |
| 47.5 | 958.462 | 907.517 | 891.111 | 907.517 | 958.462 | 1052.581 | 1176.059 |
| 50.0 | 895.428 | 846.296 | 831.012 | 846.296 | 895.428 | 986.957 | 1106.980 |
| 52.5 | 832.480 | 784.989 | 769.533 | 784.989 | 832.480 | 919.605 | 1035.312 |
| 55.0 | 768.756 | 723.164 | 708.139 | 723.164 | 768.756 | 851.132 | 960.189 |
| 57.5 | 704.513 | 661.252 | 648.646 | 661.252 | 704.513 | 782.571 | 885.066 |
| 60.0 | 643.465 | 602.968 | 590.706 | 602.968 | 643.465 | 712.370 | 809.944 |
| 62.5 | 578.963 | 543.388 | 531.385 | 543.388 | 578.963 | 643.119 | 733.957 |
| 65.0 | 514.547 | 483.289 | 472.582 | 483.289 | 514.547 | 573.264 | 658.403 |
| 67.5 | 451.859 | 423.796 | 413.779 | 423.796 | 451.859 | 502.718 | 581.467 |
| 70.0 | 388.652 | 365.252 | 356.444 | 365.252 | 388.652 | 431.567 | 502.459 |
| 72.5 | 326.654 | 307.744 | 299.886 | 307.744 | 326.654 | 361.021 | 424.832 |
| 75.0 | 266.038 | 251.359 | 244.451 | 251.359 | 266.038 | 292.806 | 348.587 |
| 77.5 | 208.703 | 197.305 | 192.124 | 197.305 | 208.703 | 228.477 | 274.500 |
| 80.0 | 154.217 | 145.496 | 141.611 | 145.496 | 154.217 | 167.860 | 204.040 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| 82.5 | 103.704 | 96.882 | 93.947 | 96.882 | 103.704 | 112.425 | 140.661 |
| 85.0 | 57.162 | 52.068 | 49.650 | 52.068 | 57.162 | 63.466 | 85.484 |
| 87.5 | 16.233 | 12.607 | 11.312 | 12.607 | 16.233 | 21.932 | 38.943 |
| 90.0 | 1.053 | 1.053 | 0.878 | 1.053 | 1.053 | 1.229 | 8.073 |
| 92.5 | 16.761 | 13.016 | 11.680 | 13.016 | 16.761 | 22.646 | 40.210 |
| 95.0 | 59.021 | 53.760 | 51.265 | 53.760 | 59.021 | 65.530 | 88.264 |
| 97.5 | 107.076 | 100.034 | 97.002 | 100.034 | 107.076 | 116.082 | 145.235 |
| 100.0 | 159.233 | 150.228 | 146.215 | 150.228 | 159.233 | 173.318 | 210.675 |
| 102.5 | 215.489 | 203.721 | 198.372 | 203.721 | 215.489 | 235.907 | 283.427 |
| 105.0 | 274.690 | 259.532 | 252.401 | 259.532 | 274.690 | 302.328 | 359.922 |
| 107.5 | 337.277 | 317.751 | 309.638 | 317.751 | 337.277 | 372.761 | 438.648 |
| 110.0 | 401.291 | 377.129 | 368.035 | 377.129 | 401.291 | 445.601 | 518.798 |
| 112.5 | 466.552 | 437.577 | 427.235 | 437.577 | 466.552 | 519.067 | 600.376 |
| 115.0 | 531.281 | 499.006 | 487.951 | 499.006 | 531.281 | 591.907 | 679.815 |
| 117.5 | 597.790 | 561.059 | 548.666 | 561.059 | 597.790 | 664.034 | 757.825 |
| 120.0 | 664.390 | 622.577 | 609.916 | 622.577 | 664.390 | 735.536 | 836.283 |
| 122.5 | 727.423 | 682.757 | 669.740 | 682.757 | 727.423 | 808.021 | 913.848 |
| 125.0 | 793.755 | 746.682 | 731.168 | 746.682 | 793.755 | 878.810 | 991.414 |
| 127.5 | 859.553 | 810.517 | 794.559 | 810.517 | 859.553 | 949.510 | 1068.980 |
| 130.0 | 924.547 | 873.817 | 858.036 | 873.817 | 924.547 | 1019.053 | 1142.980 |
| 132.5 | 989.631 | 937.029 | 920.090 | 937.029 | 989.631 | 1086.811 | 1214.305 |
| 135.0 | 1054.714 | 998.547 | 981.607 | 998.547 | 1054.714 | 1156.353 | 1285.628 |
| 137.5 | 1121.583 | 1061.847 | 1042.233 | 1061.847 | 1121.583 | 1226.787 | 1356.954 |
| 140.0 | 1189.340 | 1129.606 | 1109.099 | 1129.606 | 1189.340 | 1296.328 | 1427.387 |
| 142.5 | 1257.991 | 1199.147 | 1180.425 | 1199.147 | 1257.991 | 1364.977 | 1495.146 |
| 145.0 | 1324.858 | 1267.798 | 1251.750 | 1267.798 | 1324.858 | 1432.736 | 1559.338 |
| 147.5 | 1390.832 | 1335.557 | 1318.617 | 1335.557 | 1390.832 | 1497.820 | 1620.856 |
| 150.0 | 1455.917 | 1399.749 | 1380.135 | 1399.749 | 1455.917 | 1560.229 | 1680.590 |
| 152.5 | 1517.435 | 1460.375 | 1440.761 | 1460.375 | 1517.435 | 1619.072 | 1737.650 |
| 155.0 | 1575.386 | 1521.001 | 1503.169 | 1521.001 | 1575.386 | 1674.349 | 1789.360 |
| 157.5 | 1632.446 | 1580.735 | 1565.579 | 1580.735 | 1632.446 | 1727.842 | 1836.613 |
| 160.0 | 1687.723 | 1642.253 | 1627.097 | 1642.253 | 1687.723 | 1777.771 | 1878.516 |
| 162.5 | 1742.108 | 1701.095 | 1686.831 | 1701.095 | 1742.108 | 1825.023 | 1915.961 |
| 165.0 | 1793.817 | 1755.480 | 1744.783 | 1755.480 | 1793.817 | 1868.709 | 1948.949 |
| 167.5 | 1841.961 | 1809.865 | 1800.060 | 1809.865 | 1841.961 | 1907.938 | 1977.479 |
| 170.0 | 1885.649 | 1860.686 | 1853.553 | 1860.686 | 1885.649 | 1943.600 | 2001.552 |
| 172.5 | 1926.660 | 1908.830 | 1905.264 | 1908.830 | 1926.660 | 1975.697 | 2020.275 |
| 175.0 | 1964.997 | 1955.190 | 1953.408 | 1955.190 | 1964.997 | 2004.226 | 2033.648 |
| 177.5 | 2001.552 | 1997.094 | 1998.876 | 1997.094 | 2001.552 | 2029.190 | 2041.671 |
| 180.0 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 | 2038.977 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 719.57 | N.A. | 6.50 |
| 0-30 | 1521.2 | N.A. | 13.70 |
| 0-40 | 2473.61 | N.A. | 22.20 |
| 0-60 | 4313.23 | N.A. | 38.70 |
| 0-80 | 5365.67 | N.A. | 48.10 |
| 0-90 | 5482.81 | N.A. | 49.20 |
| 10-90 | 5296.14 | N.A. | 47.50 |
| 20-40 | 1754.05 | N.A. | 15.70 |
| 20-50 | 2724.39 | N.A. | 24.40 |
| 40-70 | 2503.07 | N.A. | 22.50 |
| 60-80 | 1052.45 | N.A. | 9.40 |
| 70-80 | 388.99 | N.A. | 3.50 |
| 80-90 | 117.14 | N.A. | 1.10 |
| 90-110 | 522.50 | N.A. | 4.70 |
| 90-120 | 1207.52 | N.A. | 10.80 |
| 90-130 | 2105.07 | N.A. | 18.90 |
| 90-150 | 4090.35 | N.A. | 36.70 |
| 90-180 | 5661.02 | N.A. | 50.80 |
| 110-180 | 5138.52 | N.A. | 46.10 |
| 0-180 | 11143.83 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 186.67 |
| 10-20 | 532.89 |
| 20-30 | 801.64 |
| 30-40 | 952.41 |
| 40-50 | 970.34 |
| 50-60 | 869.27 |
| 60-70 | 663.45 |
| 70-80 | 388.99 |
| 80-90 | 117.14 |
| 90-100 | 120.85 |
| 100-110 | 401.64 |
| 110-120 | 685.03 |
| 120-130 | 897.54 |
| 130-140 | 1001.9 |
| 140-150 | 983.38 |
| 150-160 | 827.71 |
| 160-170 | 550.22 |
| 170-180 | 192.74 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 55 | 55 | 55 | 49 |
| 1 | 97 | 93 | 89 | 86 | 90 | 86 | 82 | 79 | 72 | 70 | 68 | 60 | 58 | 57 | 49 | 48 | 46 | 41 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 69 | 65 | 63 | 59 | 56 | 53 | 50 | 47 | 43 | 41 | 39 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 59 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 39 | 44 | 38 | 34 | 37 | 33 | 29 | 30 | 27 | 25 | 21 |
| 6 | 62 | 50 | 42 | 36 | 57 | 47 | 39 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |
| 7 | 58 | 45 | 37 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 |
| 9 | 50 | 37 | 30 | 25 | 46 | 35 | 28 | 23 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 25 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 20 | 16 | 14 | 12 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUD-4-00-L15-835U-L15-835D-ASYUD-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

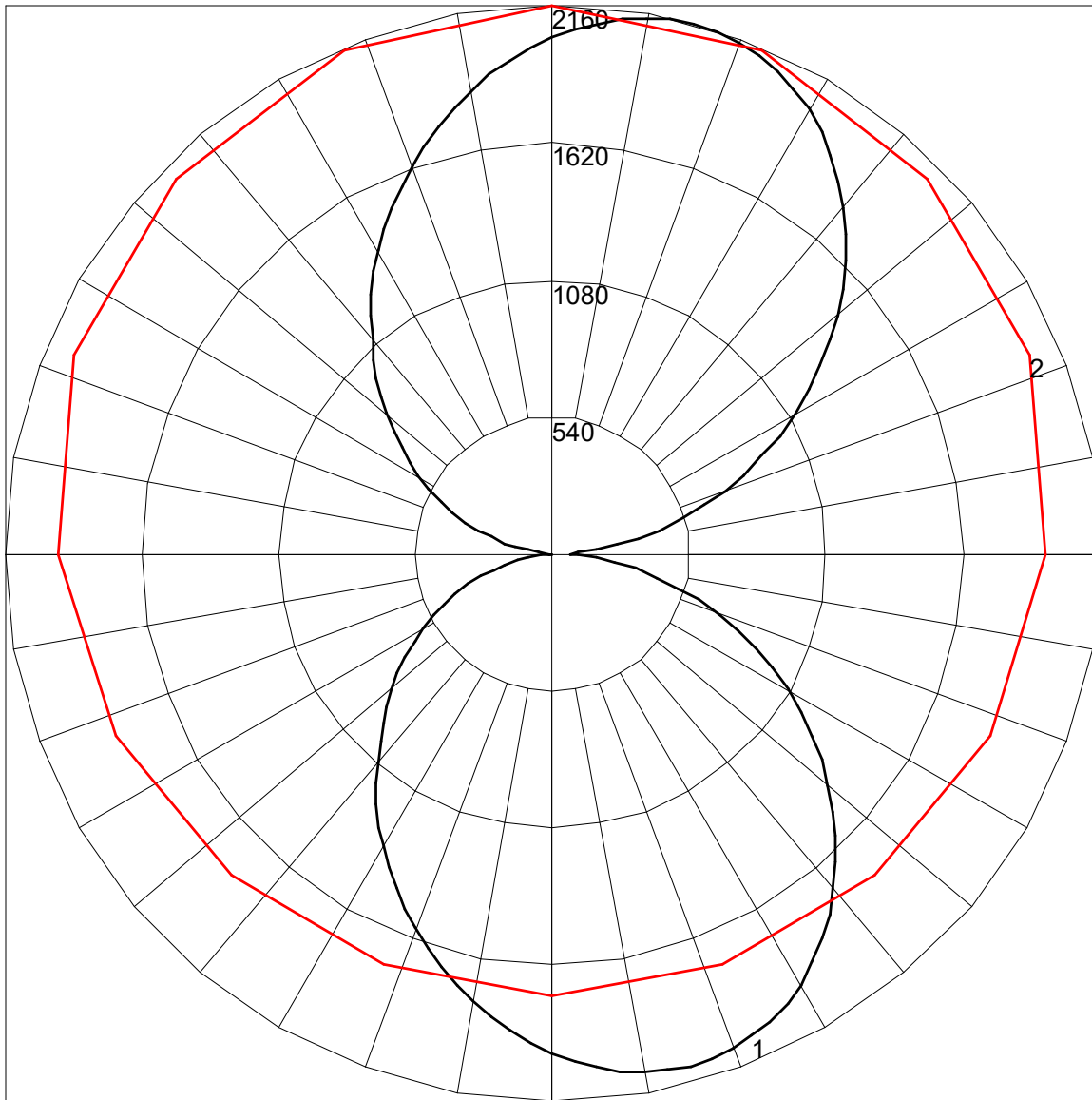
| X=2H | Y=2H | 17.3 | 18.2 | 18.3 | 19.2 | 20.4 | 19.0 | 19.9 | 20.0 | 20.9 | 22.2 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 19.1 | 19.8 | 20.0 | 20.8 | 22.1 | 20.9 | 21.7 | 21.9 | 22.7 | 24.0 |
| | 4H | 19.7 | 20.4 | 20.7 | 21.4 | 22.7 | 21.7 | 22.4 | 22.7 | 23.4 | 24.7 |
| | 6H | 20.1 | 20.8 | 21.1 | 21.8 | 23.1 | 22.3 | 23.0 | 23.3 | 24.0 | 25.3 |
| | 8H | 20.2 | 20.9 | 21.2 | 21.9 | 23.2 | 22.5 | 23.2 | 23.5 | 24.2 | 25.5 |
| | 12H | 20.3 | 20.9 | 21.3 | 21.9 | 23.3 | 22.7 | 23.3 | 23.7 | 24.3 | 25.6 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 17.9 | 18.6 | 18.9 | 19.6 | 21.0 | 19.6 | 20.3 | 20.5 | 21.3 | 22.6 |
| | 3H | 19.9 | 20.5 | 20.9 | 21.5 | 22.8 | 21.7 | 22.3 | 22.7 | 23.3 | 24.6 |
| | 4H | 20.6 | 21.2 | 21.6 | 22.2 | 23.6 | 22.6 | 23.1 | 23.6 | 24.2 | 25.5 |
| | 6H | 21.2 | 21.7 | 22.2 | 22.7 | 24.1 | 23.3 | 23.8 | 24.3 | 24.8 | 26.2 |
| | 8H | 21.4 | 21.8 | 22.4 | 22.8 | 24.2 | 23.6 | 24.1 | 24.6 | 25.1 | 26.5 |
| | 12H | 21.4 | 21.9 | 22.5 | 22.9 | 24.3 | 23.8 | 24.2 | 24.9 | 25.3 | 26.6 |
| 8H | 4H | 20.9 | 21.4 | 22.0 | 22.4 | 23.8 | 22.8 | 23.3 | 23.8 | 24.3 | 25.7 |
| | 6H | 21.6 | 22.0 | 22.7 | 23.1 | 24.4 | 23.7 | 24.1 | 24.8 | 25.2 | 26.5 |
| | 8H | 21.9 | 22.2 | 22.9 | 23.3 | 24.7 | 24.1 | 24.4 | 25.2 | 25.5 | 26.9 |
| | 12H | 22.1 | 22.4 | 23.1 | 23.4 | 24.8 | 24.4 | 24.7 | 25.5 | 25.8 | 27.2 |
| 12H | 4H | 20.9 | 21.4 | 22.0 | 22.4 | 23.8 | 22.8 | 23.2 | 23.9 | 24.3 | 25.6 |
| | 6H | 21.7 | 22.0 | 22.8 | 23.1 | 24.5 | 23.8 | 24.1 | 24.8 | 25.2 | 26.6 |
| | 8H | 22.0 | 22.3 | 23.1 | 23.3 | 24.8 | 24.2 | 24.5 | 25.3 | 25.5 | 27.0 |

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 2160.249 Located At Horizontal Angle = 90, Vertical Angle = 165
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (165) (Through Max. Cd.)