



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-UNV\_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN from UL #15273503.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 24 Sep, 2024  
[TEST DATE] 4/30/2024  
[MANUFAC] H E WILLIAMS INC  
[LUMCAT] MX4D-8'00-L10/RGB840-F-DMX-UNV WHITE ONLY  
[LUMINAIRE] White housing with frosted lens and external DMX controlle  
[LAMP] 448 LEDs  
[BALLAST] ERP VLM100-48  
[OTHER] 25.2 C, 119.963 V, 0.358823 A, 42.4622 W, 0.986446 PF, 60.0072  
[MORE] Hz  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.  
[OTHER] The reported results were measured in a facility that meets th  
[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de  
[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 8679            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 104             |
| Total Luminaire Watts           | 83.8            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.22            |
| Spacing Criterion (90-270)      | 1.18            |
| Spacing Criterion (Diagonal)    | 1.30            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 7.92 ft         |
| Luminous Width (90-270)         | 0.33 ft         |
| Luminous Height                 | 0.00 ft         |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-UNV\_.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 11821            | 11450             | 11259             |
| 55                  | 10875            | 10515             | 10383             |
| 65                  | 10001            | 9601              | 9372              |
| 75                  | 8302             | 8238              | 8054              |
| 85                  | 6266             | 6412              | 6339              |

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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  | 3389.205   | 3389.205    | 3389.205    | 3389.205    | 3389.205    |
| 0.5  | 3445.659   | 3391.151    | 3373.631    | 3381.418    | 3367.791    |
| 1.0  | 3443.712   | 3389.205    | 3373.631    | 3383.365    | 3367.791    |
| 1.5  | 3443.712   | 3389.205    | 3373.631    | 3383.365    | 3367.791    |
| 2.0  | 3441.766   | 3389.205    | 3371.684    | 3381.418    | 3365.844    |
| 2.5  | 3439.819   | 3385.311    | 3371.684    | 3381.418    | 3365.844    |
| 3.0  | 3437.872   | 3383.365    | 3367.791    | 3379.471    | 3363.898    |
| 3.5  | 3435.925   | 3381.418    | 3365.844    | 3377.524    | 3361.951    |
| 4.0  | 3432.032   | 3377.524    | 3363.898    | 3375.578    | 3361.951    |
| 4.5  | 3428.139   | 3375.578    | 3360.004    | 3371.684    | 3358.057    |
| 5.0  | 3426.192   | 3371.684    | 3358.057    | 3369.738    | 3352.217    |
| 5.5  | 3422.299   | 3367.791    | 3354.164    | 3365.844    | 3348.324    |
| 6.0  | 3418.405   | 3363.898    | 3350.271    | 3361.951    | 3344.431    |
| 6.5  | 3414.512   | 3360.004    | 3346.377    | 3356.111    | 3338.590    |
| 7.0  | 3410.618   | 3352.217    | 3340.537    | 3350.271    | 3334.697    |
| 7.5  | 3404.778   | 3348.324    | 3336.644    | 3344.431    | 3326.910    |
| 8.0  | 3398.938   | 3342.484    | 3328.857    | 3338.590    | 3323.017    |
| 8.5  | 3391.151   | 3336.644    | 3323.017    | 3330.804    | 3315.230    |
| 9.0  | 3385.311   | 3328.857    | 3317.177    | 3324.964    | 3311.337    |
| 9.5  | 3377.524   | 3323.017    | 3309.390    | 3317.177    | 3301.603    |
| 10.0 | 3371.684   | 3317.177    | 3301.603    | 3309.390    | 3293.816    |
| 10.5 | 3361.951   | 3309.390    | 3293.816    | 3301.603    | 3286.030    |
| 11.0 | 3354.164   | 3301.603    | 3286.030    | 3291.870    | 3278.243    |
| 11.5 | 3346.377   | 3291.870    | 3276.296    | 3286.030    | 3268.509    |
| 12.0 | 3338.590   | 3284.083    | 3266.563    | 3274.349    | 3258.776    |
| 12.5 | 3326.910   | 3274.349    | 3256.829    | 3264.616    | 3249.042    |
| 13.0 | 3319.123   | 3264.616    | 3247.096    | 3254.882    | 3237.362    |
| 13.5 | 3307.443   | 3254.882    | 3235.415    | 3243.202    | 3227.629    |
| 14.0 | 3297.710   | 3243.202    | 3225.682    | 3231.522    | 3215.948    |
| 14.5 | 3286.030   | 3231.522    | 3214.002    | 3219.842    | 3206.215    |
| 15.0 | 3274.349   | 3221.788    | 3202.321    | 3210.108    | 3194.535    |
| 15.5 | 3262.669   | 3210.108    | 3190.641    | 3198.428    | 3182.854    |
| 16.0 | 3249.042   | 3196.481    | 3178.961    | 3184.801    | 3169.228    |
| 16.5 | 3237.362   | 3184.801    | 3165.334    | 3171.174    | 3157.547    |
| 17.0 | 3221.788   | 3171.174    | 3151.707    | 3159.494    | 3143.920    |
| 17.5 | 3210.108   | 3159.494    | 3138.080    | 3143.920    | 3130.294    |
| 18.0 | 3196.481   | 3145.867    | 3124.453    | 3130.294    | 3114.720    |
| 18.5 | 3182.854   | 3132.240    | 3108.880    | 3114.720    | 3099.146    |
| 19.0 | 3169.228   | 3118.613    | 3095.253    | 3099.146    | 3083.573    |
| 19.5 | 3155.601   | 3104.986    | 3081.626    | 3083.573    | 3067.999    |
| 20.0 | 3140.027   | 3089.413    | 3066.052    | 3067.999    | 3050.479    |
| 20.5 | 3124.453   | 3075.786    | 3050.479    | 3050.479    | 3032.959    |
| 21.0 | 3108.880   | 3060.212    | 3036.852    | 3034.905    | 3015.438    |
| 21.5 | 3093.306   | 3044.639    | 3019.332    | 3015.438    | 2995.971    |
| 22.0 | 3077.733   | 3029.065    | 3003.758    | 2997.918    | 2978.451    |
| 22.5 | 3060.212   | 3011.545    | 2988.184    | 2978.451    | 2960.931    |
| 23.0 | 3044.639   | 2995.971    | 2970.664    | 2958.984    | 2943.410    |
| 23.5 | 3027.118   | 2978.451    | 2953.144    | 2941.464    | 2925.890    |
| 24.0 | 3009.598   | 2960.931    | 2935.624    | 2921.997    | 2906.423    |
| 24.5 | 2992.078   | 2941.464    | 2916.157    | 2902.530    | 2886.956    |
| 25.0 | 2972.611   | 2923.943    | 2898.636    | 2885.009    | 2865.542    |
| 25.5 | 2955.091   | 2906.423    | 2879.169    | 2865.542    | 2848.022    |
| 26.0 | 2933.677   | 2886.956    | 2859.702    | 2846.075    | 2826.608    |
| 26.5 | 2914.210   | 2867.489    | 2840.235    | 2826.608    | 2807.141    |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 2894.743 | 2848.022 | 2820.768 | 2809.088 | 2787.674 |
| 27.5 | 2873.329 | 2826.608 | 2799.355 | 2789.621 | 2768.207 |
| 28.0 | 2853.862 | 2805.195 | 2779.888 | 2770.154 | 2750.687 |
| 28.5 | 2830.502 | 2785.728 | 2760.421 | 2750.687 | 2729.273 |
| 29.0 | 2811.035 | 2764.314 | 2739.007 | 2731.220 | 2709.806 |
| 29.5 | 2789.621 | 2742.900 | 2717.593 | 2707.860 | 2688.393 |
| 30.0 | 2770.154 | 2721.487 | 2698.126 | 2688.393 | 2670.872 |
| 30.5 | 2746.794 | 2700.073 | 2676.712 | 2666.979 | 2647.512 |
| 31.0 | 2725.380 | 2678.659 | 2655.299 | 2645.565 | 2628.045 |
| 31.5 | 2703.966 | 2657.245 | 2633.885 | 2624.152 | 2606.631 |
| 32.0 | 2682.553 | 2633.885 | 2612.471 | 2600.791 | 2585.218 |
| 32.5 | 2659.192 | 2612.471 | 2589.111 | 2579.377 | 2561.857 |
| 33.0 | 2637.778 | 2591.058 | 2567.697 | 2557.964 | 2540.443 |
| 33.5 | 2616.365 | 2567.697 | 2544.337 | 2532.657 | 2517.083 |
| 34.0 | 2593.004 | 2546.284 | 2522.923 | 2509.296 | 2491.776 |
| 34.5 | 2569.644 | 2522.923 | 2499.563 | 2485.936 | 2468.416 |
| 35.0 | 2546.284 | 2501.509 | 2476.202 | 2462.575 | 2445.055 |
| 35.5 | 2522.923 | 2478.149 | 2454.789 | 2439.215 | 2421.695 |
| 36.0 | 2499.563 | 2456.735 | 2431.428 | 2415.855 | 2398.334 |
| 36.5 | 2476.202 | 2431.428 | 2408.068 | 2392.494 | 2373.027 |
| 37.0 | 2450.895 | 2408.068 | 2384.707 | 2369.134 | 2349.667 |
| 37.5 | 2427.535 | 2384.707 | 2359.400 | 2345.773 | 2326.306 |
| 38.0 | 2404.174 | 2359.400 | 2336.040 | 2320.466 | 2302.946 |
| 38.5 | 2378.867 | 2336.040 | 2310.733 | 2295.159 | 2277.639 |
| 39.0 | 2355.507 | 2310.733 | 2287.372 | 2271.799 | 2252.332 |
| 39.5 | 2330.200 | 2287.372 | 2262.065 | 2246.492 | 2228.971 |
| 40.0 | 2304.893 | 2262.065 | 2238.705 | 2223.131 | 2203.664 |
| 40.5 | 2279.586 | 2236.758 | 2213.398 | 2197.824 | 2178.357 |
| 41.0 | 2252.332 | 2211.451 | 2190.037 | 2172.517 | 2153.050 |
| 41.5 | 2228.971 | 2186.144 | 2164.730 | 2147.210 | 2127.743 |
| 42.0 | 2201.718 | 2160.837 | 2139.423 | 2121.903 | 2102.436 |
| 42.5 | 2176.411 | 2135.530 | 2114.116 | 2096.596 | 2077.129 |
| 43.0 | 2151.103 | 2108.276 | 2088.809 | 2071.289 | 2051.822 |
| 43.5 | 2125.796 | 2082.969 | 2061.555 | 2045.982 | 2026.515 |
| 44.0 | 2100.489 | 2057.662 | 2036.248 | 2018.728 | 2001.208 |
| 44.5 | 2075.182 | 2032.355 | 2010.941 | 1993.421 | 1975.900 |
| 45.0 | 2049.875 | 2007.048 | 1985.634 | 1968.114 | 1952.540 |
| 45.5 | 2024.568 | 1979.794 | 1958.380 | 1941.444 | 1926.844 |
| 46.0 | 1997.314 | 1954.487 | 1933.852 | 1916.526 | 1901.537 |
| 46.5 | 1972.007 | 1928.401 | 1908.155 | 1891.219 | 1876.035 |
| 47.0 | 1946.116 | 1903.094 | 1882.070 | 1865.717 | 1850.338 |
| 47.5 | 1920.614 | 1877.592 | 1856.957 | 1840.410 | 1825.615 |
| 48.0 | 1893.555 | 1851.506 | 1831.650 | 1814.908 | 1800.697 |
| 48.5 | 1868.053 | 1825.810 | 1806.343 | 1789.796 | 1775.196 |
| 49.0 | 1841.773 | 1800.113 | 1780.257 | 1764.100 | 1750.473 |
| 49.5 | 1815.492 | 1774.612 | 1755.534 | 1739.571 | 1724.971 |
| 50.0 | 1789.017 | 1749.110 | 1730.032 | 1714.459 | 1699.274 |
| 50.5 | 1763.321 | 1722.635 | 1704.141 | 1689.541 | 1674.162 |
| 51.0 | 1737.430 | 1697.328 | 1679.029 | 1664.818 | 1649.244 |
| 51.5 | 1711.539 | 1671.631 | 1653.527 | 1639.705 | 1624.132 |
| 52.0 | 1686.426 | 1645.935 | 1627.636 | 1614.788 | 1598.825 |
| 52.5 | 1660.730 | 1620.628 | 1602.329 | 1589.481 | 1574.102 |
| 53.0 | 1634.449 | 1595.126 | 1576.438 | 1564.368 | 1548.600 |
| 53.5 | 1608.558 | 1569.235 | 1550.936 | 1539.061 | 1523.682 |
| 54.0 | 1582.083 | 1544.122 | 1525.239 | 1513.949 | 1497.791 |
| 54.5 | 1555.997 | 1518.815 | 1499.738 | 1489.031 | 1479.103 |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 55.0 | 1529.717 | 1493.119 | 1479.103 | 1472.679 | 1460.609 |
| 55.5 | 1504.215 | 1472.289 | 1465.281 | 1454.574 | 1438.027 |
| 56.0 | 1479.297 | 1457.105 | 1439.585 | 1428.878 | 1412.526 |
| 56.5 | 1463.724 | 1433.355 | 1414.083 | 1402.792 | 1387.413 |
| 57.0 | 1441.921 | 1407.269 | 1388.581 | 1376.122 | 1361.133 |
| 57.5 | 1415.251 | 1381.768 | 1363.079 | 1351.010 | 1336.410 |
| 58.0 | 1388.970 | 1356.461 | 1337.772 | 1325.703 | 1310.713 |
| 58.5 | 1363.079 | 1331.153 | 1312.076 | 1299.422 | 1285.211 |
| 59.0 | 1336.799 | 1305.068 | 1286.574 | 1274.504 | 1260.488 |
| 59.5 | 1311.492 | 1279.566 | 1261.656 | 1249.003 | 1236.154 |
| 60.0 | 1286.379 | 1254.259 | 1236.154 | 1224.474 | 1211.431 |
| 60.5 | 1261.072 | 1229.730 | 1211.237 | 1199.167 | 1186.514 |
| 61.0 | 1235.960 | 1204.229 | 1186.319 | 1174.444 | 1162.375 |
| 61.5 | 1211.237 | 1179.700 | 1162.180 | 1149.332 | 1137.651 |
| 62.0 | 1186.319 | 1155.366 | 1137.846 | 1124.609 | 1112.928 |
| 62.5 | 1161.401 | 1130.643 | 1113.318 | 1100.664 | 1088.789 |
| 63.0 | 1136.289 | 1106.504 | 1089.568 | 1076.525 | 1064.650 |
| 63.5 | 1111.566 | 1081.976 | 1066.208 | 1053.165 | 1040.511 |
| 64.0 | 1086.648 | 1057.642 | 1042.458 | 1029.610 | 1016.761 |
| 64.5 | 1061.146 | 1034.087 | 1018.903 | 1006.833 | 993.790  |
| 65.0 | 1036.618 | 1009.364 | 995.153  | 983.862  | 971.403  |
| 65.5 | 1011.116 | 985.420  | 971.598  | 961.086  | 949.211  |
| 66.0 | 986.198  | 961.670  | 948.238  | 938.893  | 927.213  |
| 66.5 | 960.696  | 937.141  | 924.293  | 916.117  | 904.631  |
| 67.0 | 934.805  | 912.808  | 900.738  | 893.535  | 882.634  |
| 67.5 | 909.693  | 888.474  | 876.988  | 870.564  | 859.663  |
| 68.0 | 883.802  | 863.945  | 853.044  | 847.398  | 836.497  |
| 68.5 | 857.716  | 839.417  | 829.100  | 823.065  | 812.942  |
| 69.0 | 832.214  | 815.083  | 804.766  | 798.926  | 789.387  |
| 69.5 | 805.934  | 790.360  | 780.237  | 774.787  | 765.053  |
| 70.0 | 779.459  | 765.637  | 755.904  | 750.064  | 740.525  |
| 70.5 | 753.178  | 740.914  | 731.765  | 725.924  | 716.386  |
| 71.0 | 726.898  | 715.412  | 707.625  | 701.785  | 692.247  |
| 71.5 | 701.007  | 690.494  | 683.292  | 677.841  | 668.691  |
| 72.0 | 675.116  | 665.771  | 659.542  | 654.286  | 645.720  |
| 72.5 | 648.835  | 641.048  | 635.792  | 630.731  | 622.360  |
| 73.0 | 624.112  | 616.520  | 612.821  | 607.954  | 599.973  |
| 73.5 | 599.000  | 592.965  | 589.850  | 584.789  | 577.586  |
| 74.0 | 574.861  | 569.020  | 567.074  | 562.596  | 555.199  |
| 74.5 | 550.916  | 545.660  | 544.687  | 540.209  | 533.006  |
| 75.0 | 526.972  | 522.689  | 522.884  | 518.017  | 511.203  |
| 75.5 | 504.001  | 500.107  | 500.497  | 496.214  | 489.790  |
| 76.0 | 481.419  | 477.915  | 479.083  | 474.605  | 468.960  |
| 76.5 | 458.643  | 455.917  | 457.474  | 453.581  | 447.936  |
| 77.0 | 436.839  | 433.919  | 436.255  | 432.557  | 427.301  |
| 77.5 | 415.231  | 412.700  | 415.036  | 411.727  | 406.666  |
| 78.0 | 393.817  | 391.481  | 394.207  | 391.481  | 386.615  |
| 78.5 | 372.793  | 370.652  | 373.766  | 371.236  | 366.953  |
| 79.0 | 351.769  | 350.211  | 353.326  | 351.185  | 347.291  |
| 79.5 | 331.134  | 329.966  | 333.470  | 331.718  | 328.019  |
| 80.0 | 311.472  | 310.499  | 313.808  | 312.445  | 308.941  |
| 80.5 | 292.005  | 291.226  | 294.341  | 293.562  | 290.253  |
| 81.0 | 272.343  | 272.149  | 275.653  | 274.874  | 272.149  |
| 81.5 | 253.266  | 253.266  | 257.354  | 256.770  | 254.044  |
| 82.0 | 234.772  | 235.161  | 238.860  | 238.665  | 236.329  |
| 82.5 | 217.057  | 217.836  | 221.145  | 220.561  | 219.004  |

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CANDELA TABULATION - (Cont.)

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 199.342 | 200.510 | 203.625 | 203.041 | 201.873 |
| 83.5  | 182.016 | 183.574 | 186.689 | 185.910 | 185.131 |
| 84.0  | 165.469 | 167.222 | 169.752 | 168.974 | 168.390 |
| 84.5  | 149.507 | 151.064 | 153.205 | 152.232 | 152.037 |
| 85.0  | 133.933 | 135.685 | 137.048 | 136.074 | 135.490 |
| 85.5  | 118.749 | 120.306 | 121.474 | 119.917 | 118.943 |
| 86.0  | 103.954 | 105.316 | 105.900 | 103.759 | 103.564 |
| 86.5  | 89.938  | 90.911  | 90.911  | 88.380  | 87.991  |
| 87.0  | 76.116  | 76.895  | 75.727  | 73.001  | 73.001  |
| 87.5  | 62.878  | 62.878  | 61.126  | 58.012  | 57.622  |
| 88.0  | 49.641  | 49.446  | 46.526  | 43.411  | 42.633  |
| 88.5  | 36.793  | 36.209  | 32.510  | 29.200  | 28.811  |
| 89.0  | 23.750  | 22.971  | 19.467  | 16.742  | 16.547  |
| 89.5  | 11.680  | 11.096  | 9.149   | 7.203   | 7.203   |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 91.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 91.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 93.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 93.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 94.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 94.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 96.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 96.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 98.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 98.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 99.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 99.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 101.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 101.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 103.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 103.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 104.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 104.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 106.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 106.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 108.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 108.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 109.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 109.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 111.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 139.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 139.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 167.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1226.47 | N.A.  | 14.10  |
| 0-30    | 2564.42 | N.A.  | 29.50  |
| 0-40    | 4117.25 | N.A.  | 47.40  |
| 0-60    | 6982.35 | N.A.  | 80.50  |
| 0-80    | 8524.61 | N.A.  | 98.20  |
| 0-90    | 8678.83 | N.A.  | 100.00 |
| 10-90   | 8358.76 | N.A.  | 96.30  |
| 20-40   | 2890.78 | N.A.  | 33.30  |
| 20-50   | 4426.05 | N.A.  | 51.00  |
| 40-70   | 3853.29 | N.A.  | 44.40  |
| 60-80   | 1542.26 | N.A.  | 17.80  |
| 70-80   | 554.07  | N.A.  | 6.40   |
| 80-90   | 154.21  | N.A.  | 1.80   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 8678.83 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 320.07  |
| 10-20   | 906.40  |
| 20-30   | 1337.95 |
| 30-40   | 1552.82 |
| 40-50   | 1535.28 |
| 50-60   | 1329.82 |
| 60-70   | 988.19  |
| 70-80   | 554.07  |
| 80-90   | 154.21  |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.00    |
| 140-150 | 0.00    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-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  | 123 | 123 | 123 | 123 | 120 | 120 | 120 | 120 | 114 | 114 | 114 | 110 | 110 | 110 | 105 | 105 | 105 | 103 |
| 1  | 112 | 107 | 103 | 99  | 109 | 105 | 101 | 98  | 101 | 98  | 95  | 97  | 94  | 92  | 93  | 91  | 89  | 87  |
| 2  | 102 | 94  | 87  | 81  | 100 | 92  | 86  | 80  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |
| 3  | 94  | 83  | 75  | 68  | 91  | 81  | 74  | 67  | 78  | 72  | 66  | 75  | 70  | 65  | 73  | 68  | 64  | 62  |
| 4  | 86  | 74  | 65  | 58  | 83  | 72  | 64  | 58  | 70  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 55  | 53  |
| 5  | 79  | 66  | 57  | 50  | 77  | 65  | 56  | 50  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 46  |
| 6  | 73  | 60  | 50  | 44  | 71  | 59  | 50  | 44  | 57  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 40  |
| 7  | 68  | 54  | 45  | 39  | 66  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 36  |
| 8  | 63  | 49  | 41  | 35  | 62  | 49  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |
| 9  | 59  | 45  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |
| 10 | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4RX-8-00-L10-RGB840-F-DMX-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 | 20.2 | 21.8 | 20.5 | 22.1 | 22.4 | 20.0 | 21.6 | 20.3 | 21.9 | 22.2 |
|      | 3H   | 21.9 | 23.4 | 22.3 | 23.7 | 24.1 | 21.7 | 23.2 | 22.1 | 23.5 | 23.8 |
|      | 4H   | 22.5 | 23.9 | 22.9 | 24.3 | 24.6 | 22.3 | 23.7 | 22.7 | 24.0 | 24.4 |
|      | 6H   | 23.0 | 24.3 | 23.4 | 24.6 | 25.0 | 22.8 | 24.1 | 23.2 | 24.4 | 24.8 |
|      | 8H   | 23.1 | 24.3 | 23.6 | 24.7 | 25.1 | 22.9 | 24.2 | 23.4 | 24.5 | 24.9 |
|      | 12H  | 23.2 | 24.4 | 23.7 | 24.8 | 25.2 | 23.1 | 24.2 | 23.5 | 24.6 | 25.0 |

UGR Viewed Endwise

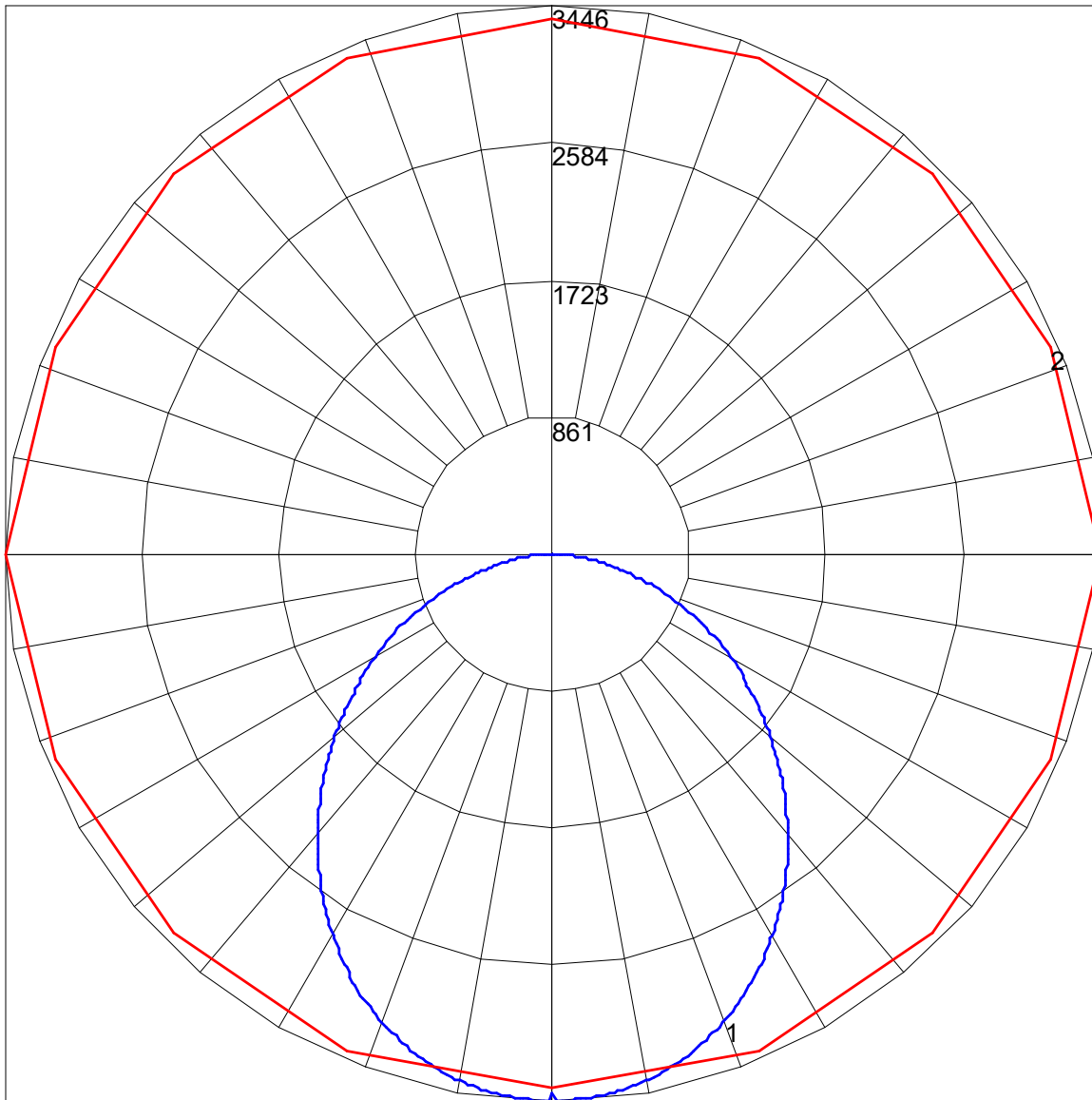
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 20.7 | 22.1 | 21.1 | 22.5 | 22.8 | 20.6 | 21.9 | 21.0 | 22.3 | 22.7 |
|    | 3H  | 22.7 | 23.9 | 23.1 | 24.3 | 24.7 | 22.5 | 23.7 | 23.0 | 24.1 | 24.5 |
|    | 4H  | 23.5 | 24.5 | 23.9 | 24.9 | 25.4 | 23.3 | 24.3 | 23.7 | 24.7 | 25.2 |
|    | 6H  | 24.0 | 24.9 | 24.5 | 25.4 | 25.8 | 23.9 | 24.8 | 24.3 | 25.2 | 25.7 |
|    | 8H  | 24.2 | 25.1 | 24.7 | 25.5 | 26.0 | 24.1 | 24.9 | 24.5 | 25.4 | 25.8 |
|    | 12H | 24.4 | 25.1 | 24.8 | 25.6 | 26.1 | 24.2 | 25.0 | 24.7 | 25.5 | 25.9 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 23.7 | 24.6 | 24.2 | 25.0 | 25.5 | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 |
|    | 6H  | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 | 24.3 | 25.0 | 24.8 | 25.5 | 26.0 |
|    | 8H  | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 | 24.6 | 25.2 | 25.1 | 25.7 | 26.2 |
|    | 12H | 24.9 | 25.5 | 25.4 | 26.0 | 26.5 | 24.8 | 25.4 | 25.3 | 25.9 | 26.4 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 23.8 | 24.5 | 24.2 | 25.0 | 25.5 | 23.6 | 24.4 | 24.1 | 24.9 | 25.3 |
|     | 6H | 24.5 | 25.1 | 25.0 | 25.6 | 26.1 | 24.4 | 25.0 | 24.9 | 25.5 | 26.0 |
|     | 8H | 24.8 | 25.4 | 25.3 | 25.9 | 26.4 | 24.7 | 25.3 | 25.2 | 25.7 | 26.3 |

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 3445.659 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.)