

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[BALLAST] OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[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                | 5332            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 98              |
| Total Luminaire Watts           | 54.2            |
| 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                  | 7233             | 7052              | 6972              |
| 55                  | 6649             | 6488              | 6420              |
| 65                  | 6133             | 5985              | 5920              |
| 75                  | 5201             | 5198              | 5195              |
| 85                  | 4062             | 4225              | 4347              |

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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  | 1049.532   | 1049.532    | 1049.532    | 1049.532    | 1049.532    |
| 0.5  | 1065.381   | 1050.413    | 1045.130    | 1047.331    | 1043.809    |
| 1.0  | 1065.381   | 1049.972    | 1045.130    | 1047.331    | 1043.809    |
| 1.5  | 1064.941   | 1049.532    | 1044.690    | 1047.331    | 1043.369    |
| 2.0  | 1064.500   | 1049.092    | 1044.249    | 1046.891    | 1043.369    |
| 2.5  | 1064.060   | 1048.652    | 1043.369    | 1046.450    | 1042.929    |
| 3.0  | 1063.180   | 1047.771    | 1042.929    | 1046.010    | 1042.048    |
| 3.5  | 1062.299   | 1046.891    | 1042.048    | 1045.130    | 1041.168    |
| 4.0  | 1061.419   | 1046.010    | 1041.168    | 1044.249    | 1040.287    |
| 4.5  | 1060.538   | 1044.690    | 1040.287    | 1043.369    | 1038.966    |
| 5.0  | 1059.658   | 1043.809    | 1038.966    | 1042.048    | 1037.646    |
| 5.5  | 1058.337   | 1042.488    | 1037.646    | 1040.727    | 1036.325    |
| 6.0  | 1057.016   | 1040.727    | 1036.325    | 1039.407    | 1034.564    |
| 6.5  | 1055.255   | 1039.407    | 1034.564    | 1037.646    | 1033.243    |
| 7.0  | 1053.935   | 1037.646    | 1033.243    | 1035.885    | 1031.482    |
| 7.5  | 1052.614   | 1035.885    | 1031.482    | 1034.124    | 1030.162    |
| 8.0  | 1050.413   | 1034.124    | 1029.281    | 1032.363    | 1028.401    |
| 8.5  | 1048.652   | 1031.923    | 1027.080    | 1030.162    | 1026.199    |
| 9.0  | 1046.450   | 1030.162    | 1025.319    | 1027.960    | 1023.998    |
| 9.5  | 1044.249   | 1027.960    | 1022.678    | 1025.319    | 1021.797    |
| 10.0 | 1042.048   | 1025.759    | 1020.476    | 1023.118    | 1019.156    |
| 10.5 | 1039.407   | 1023.118    | 1017.835    | 1020.476    | 1016.954    |
| 11.0 | 1037.205   | 1020.476    | 1015.193    | 1017.835    | 1013.873    |
| 11.5 | 1034.124   | 1017.835    | 1012.552    | 1015.193    | 1011.231    |
| 12.0 | 1031.482   | 1015.193    | 1009.911    | 1012.112    | 1008.150    |
| 12.5 | 1028.841   | 1012.112    | 1006.829    | 1009.030    | 1005.068    |
| 13.0 | 1025.759   | 1009.470    | 1003.747    | 1005.948    | 1001.986    |
| 13.5 | 1022.678   | 1005.948    | 1000.666    | 1002.426    | 998.905     |
| 14.0 | 1019.596   | 1002.867    | 997.144     | 999.345     | 995.823     |
| 14.5 | 1016.514   | 999.785     | 993.622     | 995.823     | 992.301     |
| 15.0 | 1013.432   | 996.263     | 990.100     | 992.301     | 988.779     |
| 15.5 | 1009.470   | 993.181     | 986.578     | 988.339     | 984.817     |
| 16.0 | 1005.068   | 989.660     | 982.616     | 984.817     | 981.295     |
| 16.5 | 1000.666   | 985.697     | 978.654     | 980.855     | 977.333     |
| 17.0 | 996.703    | 981.735     | 974.691     | 976.893     | 973.371     |
| 17.5 | 992.301    | 977.333     | 970.289     | 972.490     | 968.968     |
| 18.0 | 987.899    | 972.930     | 965.887     | 968.088     | 964.566     |
| 18.5 | 983.496    | 968.528     | 961.484     | 963.245     | 960.163     |
| 19.0 | 979.094    | 964.126     | 957.522     | 958.843     | 954.881     |
| 19.5 | 974.251    | 959.723     | 953.120     | 953.560     | 949.598     |
| 20.0 | 969.849    | 954.881     | 949.157     | 948.717     | 944.315     |
| 20.5 | 965.006    | 950.478     | 944.755     | 943.434     | 939.032     |
| 21.0 | 960.163    | 945.636     | 939.912     | 938.151     | 933.309     |
| 21.5 | 954.881    | 940.793     | 934.630     | 932.869     | 927.586     |
| 22.0 | 950.038    | 935.510     | 928.906     | 927.145     | 922.303     |
| 22.5 | 944.755    | 930.227     | 923.624     | 921.422     | 916.580     |
| 23.0 | 939.472    | 924.944     | 918.341     | 915.259     | 910.857     |
| 23.5 | 934.189    | 919.661     | 912.618     | 909.536     | 905.574     |
| 24.0 | 928.466    | 914.378     | 907.335     | 903.813     | 899.851     |
| 24.5 | 922.743    | 908.655     | 901.612     | 898.090     | 894.127     |
| 25.0 | 917.460    | 902.932     | 895.888     | 892.366     | 888.404     |
| 25.5 | 911.737    | 897.209     | 889.725     | 886.643     | 882.241     |
| 26.0 | 905.574    | 891.046     | 884.002     | 880.920     | 876.518     |
| 26.5 | 899.851    | 885.323     | 877.839     | 875.197     | 870.795     |

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**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 27.0 | 893.687 | 879.159 | 871.675 | 869.474 | 864.631 |
| 27.5 | 887.524 | 872.996 | 865.952 | 863.751 | 858.908 |
| 28.0 | 881.360 | 866.392 | 859.348 | 857.588 | 852.745 |
| 28.5 | 874.757 | 859.789 | 853.185 | 851.864 | 846.582 |
| 29.0 | 868.153 | 853.625 | 847.022 | 845.701 | 840.418 |
| 29.5 | 861.990 | 847.022 | 840.858 | 839.097 | 834.695 |
| 30.0 | 855.386 | 840.418 | 834.695 | 832.934 | 828.532 |
| 30.5 | 848.783 | 833.815 | 828.091 | 826.771 | 822.368 |
| 31.0 | 841.739 | 827.651 | 821.488 | 820.167 | 816.205 |
| 31.5 | 835.135 | 821.048 | 814.884 | 813.564 | 809.601 |
| 32.0 | 828.091 | 814.004 | 808.281 | 806.520 | 802.998 |
| 32.5 | 821.048 | 807.400 | 801.677 | 799.916 | 795.954 |
| 33.0 | 814.004 | 800.797 | 795.073 | 793.312 | 788.910 |
| 33.5 | 807.400 | 793.753 | 788.030 | 786.269 | 782.306 |
| 34.0 | 799.916 | 786.709 | 781.426 | 779.225 | 775.263 |
| 34.5 | 792.872 | 779.665 | 773.942 | 772.181 | 767.779 |
| 35.0 | 785.828 | 773.061 | 766.898 | 765.137 | 760.294 |
| 35.5 | 778.344 | 765.577 | 759.854 | 758.093 | 752.810 |
| 36.0 | 770.860 | 758.534 | 752.810 | 750.609 | 745.767 |
| 36.5 | 763.816 | 751.490 | 745.767 | 743.565 | 738.723 |
| 37.0 | 756.332 | 744.006 | 738.282 | 736.081 | 731.239 |
| 37.5 | 748.848 | 736.522 | 731.239 | 728.597 | 724.195 |
| 38.0 | 740.924 | 729.037 | 723.755 | 721.113 | 716.711 |
| 38.5 | 733.440 | 721.553 | 716.270 | 714.069 | 709.227 |
| 39.0 | 726.396 | 714.069 | 708.786 | 706.585 | 702.183 |
| 39.5 | 718.472 | 706.585 | 701.743 | 699.101 | 694.258 |
| 40.0 | 710.988 | 698.661 | 694.258 | 691.617 | 687.215 |
| 40.5 | 703.063 | 691.177 | 686.774 | 684.133 | 679.731 |
| 41.0 | 695.579 | 683.252 | 679.290 | 676.209 | 671.806 |
| 41.5 | 687.655 | 675.768 | 671.366 | 668.725 | 663.882 |
| 42.0 | 680.171 | 667.844 | 663.882 | 661.240 | 656.398 |
| 42.5 | 672.687 | 660.360 | 656.398 | 653.316 | 648.914 |
| 43.0 | 664.762 | 652.876 | 648.914 | 645.832 | 640.989 |
| 43.5 | 657.278 | 644.952 | 640.989 | 638.348 | 633.505 |
| 44.0 | 649.354 | 637.027 | 633.065 | 630.424 | 626.021 |
| 44.5 | 641.430 | 629.103 | 625.141 | 622.499 | 618.097 |
| 45.0 | 633.505 | 621.619 | 617.657 | 614.575 | 610.613 |
| 45.5 | 626.021 | 613.695 | 609.732 | 607.091 | 603.129 |
| 46.0 | 618.097 | 605.770 | 601.808 | 599.167 | 595.645 |
| 46.5 | 610.173 | 597.846 | 594.324 | 591.683 | 588.161 |
| 47.0 | 602.248 | 589.922 | 586.400 | 583.758 | 580.236 |
| 47.5 | 593.884 | 581.997 | 578.475 | 575.834 | 572.752 |
| 48.0 | 585.959 | 574.073 | 570.551 | 568.350 | 564.828 |
| 48.5 | 578.035 | 566.149 | 563.067 | 560.426 | 556.904 |
| 49.0 | 569.671 | 558.224 | 555.143 | 552.501 | 549.420 |
| 49.5 | 561.746 | 550.300 | 547.218 | 545.017 | 541.935 |
| 50.0 | 553.382 | 542.376 | 539.294 | 537.093 | 534.011 |
| 50.5 | 545.017 | 534.451 | 531.370 | 529.168 | 526.527 |
| 51.0 | 536.653 | 526.527 | 523.445 | 521.244 | 518.603 |
| 51.5 | 528.728 | 518.603 | 515.521 | 513.760 | 510.678 |
| 52.0 | 520.804 | 510.678 | 507.597 | 505.836 | 503.194 |
| 52.5 | 512.439 | 502.754 | 499.672 | 498.352 | 495.270 |
| 53.0 | 504.515 | 494.830 | 491.748 | 490.427 | 487.346 |
| 53.5 | 496.150 | 486.905 | 483.824 | 482.503 | 479.421 |
| 54.0 | 488.226 | 478.981 | 476.340 | 475.019 | 471.497 |
| 54.5 | 480.302 | 471.497 | 468.415 | 467.095 | 463.573 |

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**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 472.378 | 464.013 | 460.931 | 459.611 | 456.089 |
| 55.5 | 464.893 | 456.089 | 453.007 | 451.686 | 448.605 |
| 56.0 | 456.529 | 448.164 | 445.083 | 444.202 | 440.680 |
| 56.5 | 448.605 | 440.680 | 437.378 | 436.410 | 432.932 |
| 57.0 | 441.120 | 432.756 | 429.586 | 428.530 | 425.228 |
| 57.5 | 433.372 | 425.096 | 421.838 | 420.869 | 417.436 |
| 58.0 | 425.624 | 417.524 | 414.046 | 413.165 | 409.731 |
| 58.5 | 417.832 | 409.907 | 406.386 | 405.593 | 402.335 |
| 59.0 | 410.172 | 402.247 | 398.681 | 397.933 | 394.807 |
| 59.5 | 402.732 | 394.499 | 390.845 | 390.317 | 387.367 |
| 60.0 | 395.115 | 386.795 | 383.097 | 382.657 | 379.795 |
| 60.5 | 387.587 | 379.267 | 375.613 | 374.952 | 372.135 |
| 61.0 | 380.191 | 371.739 | 368.173 | 367.424 | 364.651 |
| 61.5 | 372.267 | 364.299 | 360.777 | 359.940 | 357.255 |
| 62.0 | 364.475 | 356.638 | 353.116 | 352.500 | 349.683 |
| 62.5 | 356.506 | 349.551 | 345.897 | 345.412 | 342.507 |
| 63.0 | 348.846 | 343.299 | 340.350 | 340.129 | 337.752 |
| 63.5 | 341.098 | 336.475 | 334.142 | 333.658 | 331.193 |
| 64.0 | 336.431 | 329.828 | 327.715 | 326.746 | 323.929 |
| 64.5 | 329.167 | 322.740 | 320.451 | 319.570 | 316.929 |
| 65.0 | 321.023 | 315.168 | 313.275 | 312.438 | 309.885 |
| 65.5 | 312.702 | 307.508 | 305.791 | 305.394 | 302.797 |
| 66.0 | 304.690 | 300.024 | 298.483 | 298.307 | 295.533 |
| 66.5 | 296.766 | 292.363 | 291.043 | 291.043 | 288.577 |
| 67.0 | 288.930 | 284.747 | 283.691 | 283.823 | 281.578 |
| 67.5 | 281.225 | 277.263 | 276.295 | 276.559 | 274.358 |
| 68.0 | 273.433 | 269.779 | 268.899 | 269.251 | 266.962 |
| 68.5 | 265.597 | 262.163 | 261.459 | 261.943 | 259.698 |
| 69.0 | 257.496 | 254.503 | 253.974 | 254.239 | 252.169 |
| 69.5 | 249.616 | 246.975 | 246.358 | 246.666 | 244.773 |
| 70.0 | 241.824 | 239.358 | 238.918 | 239.050 | 237.377 |
| 70.5 | 234.164 | 231.698 | 231.390 | 231.522 | 229.937 |
| 71.0 | 226.327 | 224.082 | 223.994 | 224.170 | 222.453 |
| 71.5 | 218.491 | 216.466 | 216.642 | 216.774 | 215.277 |
| 72.0 | 210.875 | 208.806 | 209.158 | 209.334 | 208.057 |
| 72.5 | 203.259 | 201.278 | 201.850 | 202.026 | 200.970 |
| 73.0 | 195.731 | 193.926 | 194.718 | 194.938 | 194.014 |
| 73.5 | 188.423 | 186.662 | 187.586 | 187.982 | 186.970 |
| 74.0 | 181.203 | 179.398 | 180.542 | 180.851 | 180.190 |
| 74.5 | 173.983 | 172.266 | 173.543 | 173.851 | 173.366 |
| 75.0 | 166.719 | 165.178 | 166.631 | 166.939 | 166.543 |
| 75.5 | 159.543 | 158.090 | 159.763 | 160.159 | 159.719 |
| 76.0 | 152.279 | 151.266 | 152.983 | 153.424 | 153.071 |
| 76.5 | 145.411 | 144.531 | 146.248 | 146.732 | 146.424 |
| 77.0 | 138.720 | 137.751 | 139.644 | 140.084 | 139.600 |
| 77.5 | 131.808 | 131.148 | 133.041 | 133.393 | 132.908 |
| 78.0 | 125.072 | 124.544 | 126.437 | 126.965 | 126.481 |
| 78.5 | 118.381 | 118.116 | 119.921 | 120.538 | 120.142 |
| 79.0 | 111.953 | 111.689 | 113.538 | 114.286 | 113.978 |
| 79.5 | 105.526 | 105.393 | 107.242 | 108.035 | 107.771 |
| 80.0 | 99.186  | 99.230  | 100.947 | 102.048 | 101.695 |
| 80.5 | 92.803  | 93.199  | 94.960  | 96.016  | 95.752  |
| 81.0 | 86.683  | 87.300  | 89.017  | 90.117  | 89.941  |
| 81.5 | 80.784  | 81.444  | 83.205  | 84.306  | 84.174  |
| 82.0 | 75.281  | 75.721  | 77.526  | 78.671  | 78.539  |
| 82.5 | 69.778  | 70.174  | 71.935  | 73.080  | 72.992  |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 64.275  | 64.891  | 66.432  | 67.621  | 67.709  |
| 83.5  | 58.860  | 59.608  | 61.105  | 62.250  | 62.514  |
| 84.0  | 53.797  | 54.414  | 55.822  | 56.923  | 57.319  |
| 84.5  | 48.647  | 49.307  | 50.628  | 51.728  | 52.124  |
| 85.0  | 43.848  | 44.376  | 45.609  | 46.577  | 46.930  |
| 85.5  | 39.181  | 39.446  | 40.502  | 41.515  | 41.867  |
| 86.0  | 34.603  | 34.691  | 35.615  | 36.540  | 36.980  |
| 86.5  | 30.068  | 30.068  | 30.905  | 31.741  | 32.138  |
| 87.0  | 25.490  | 25.490  | 26.106  | 27.163  | 27.471  |
| 87.5  | 20.955  | 20.999  | 21.572  | 22.628  | 23.025  |
| 88.0  | 16.641  | 16.597  | 17.169  | 18.314  | 18.754  |
| 88.5  | 12.503  | 12.239  | 12.987  | 14.000  | 14.616  |
| 89.0  | 8.100   | 7.968   | 8.981   | 9.949   | 10.610  |
| 89.5  | 3.742   | 4.446   | 5.371   | 6.119   | 6.339   |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 2.717   | 1.432   | 1.322   | 1.285   | 1.395   |
| 91.0  | 5.985   | 3.158   | 2.570   | 2.534   | 2.497   |
| 91.5  | 9.621   | 6.426   | 3.819   | 3.782   | 3.745   |
| 92.0  | 13.293  | 10.686  | 5.508   | 4.920   | 4.920   |
| 92.5  | 17.112  | 15.092  | 8.519   | 6.169   | 6.059   |
| 93.0  | 21.077  | 19.315  | 12.044  | 8.189   | 7.381   |
| 93.5  | 25.080  | 23.354  | 15.826  | 11.053  | 9.621   |
| 94.0  | 29.009  | 27.320  | 20.012  | 14.468  | 12.668  |
| 94.5  | 33.048  | 31.285  | 24.382  | 17.993  | 15.973  |
| 95.0  | 37.014  | 35.361  | 28.678  | 21.591  | 19.241  |
| 95.5  | 40.980  | 39.180  | 32.864  | 25.300  | 22.693  |
| 96.0  | 44.762  | 43.073  | 36.977  | 29.156  | 26.218  |
| 96.5  | 48.581  | 46.965  | 41.090  | 33.085  | 29.853  |
| 97.0  | 52.289  | 50.784  | 45.166  | 37.014  | 33.709  |
| 97.5  | 56.108  | 54.639  | 49.278  | 41.016  | 37.565  |
| 98.0  | 59.890  | 58.422  | 53.281  | 44.982  | 41.457  |
| 98.5  | 63.672  | 62.240  | 57.136  | 49.021  | 45.349  |
| 99.0  | 67.528  | 66.169  | 61.065  | 52.877  | 49.278  |
| 99.5  | 71.420  | 70.062  | 65.031  | 56.732  | 53.134  |
| 100.0 | 75.239  | 73.991  | 68.997  | 60.698  | 56.916  |
| 100.5 | 79.205  | 77.920  | 72.963  | 64.811  | 60.735  |
| 101.0 | 83.281  | 81.849  | 77.002  | 68.960  | 64.884  |
| 101.5 | 87.430  | 85.851  | 81.114  | 73.110  | 69.180  |
| 102.0 | 91.470  | 90.001  | 85.227  | 77.259  | 73.440  |
| 102.5 | 95.692  | 94.113  | 89.487  | 81.408  | 77.663  |
| 103.0 | 100.025 | 98.373  | 93.709  | 85.521  | 81.959  |
| 103.5 | 104.358 | 102.706 | 98.189  | 89.927  | 86.219  |
| 104.0 | 108.801 | 107.076 | 102.743 | 94.481  | 90.662  |
| 104.5 | 113.391 | 111.629 | 107.296 | 99.144  | 95.105  |
| 105.0 | 118.092 | 116.292 | 111.812 | 103.734 | 99.621  |
| 105.5 | 122.902 | 121.029 | 116.476 | 108.361 | 104.101 |
| 106.0 | 127.786 | 125.803 | 121.213 | 113.061 | 108.581 |
| 106.5 | 132.706 | 130.723 | 126.170 | 117.798 | 113.098 |
| 107.0 | 137.957 | 135.864 | 131.458 | 122.828 | 118.018 |
| 107.5 | 143.392 | 141.152 | 136.819 | 128.153 | 123.342 |
| 108.0 | 148.789 | 146.586 | 142.290 | 133.918 | 128.814 |
| 108.5 | 154.481 | 152.131 | 147.761 | 139.683 | 134.469 |
| 109.0 | 160.320 | 157.786 | 153.379 | 145.521 | 140.197 |
| 109.5 | 166.305 | 163.661 | 159.291 | 151.323 | 145.999 |
| 110.0 | 172.694 | 169.683 | 165.350 | 157.272 | 152.058 |
| 110.5 | 179.230 | 175.852 | 171.556 | 163.661 | 158.337 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 111.0 | 185.840 | 182.315 | 177.982 | 170.307 | 164.652 |
| 111.5 | 192.596 | 188.961 | 184.518 | 177.064 | 171.152 |
| 112.0 | 199.610 | 195.791 | 191.017 | 183.820 | 177.358 |
| 112.5 | 206.660 | 202.805 | 197.590 | 190.540 | 183.930 |
| 113.0 | 214.041 | 210.038 | 204.530 | 197.480 | 190.797 |
| 113.5 | 221.642 | 217.603 | 211.874 | 204.971 | 198.178 |
| 114.0 | 229.353 | 225.314 | 219.659 | 212.939 | 206.366 |
| 114.5 | 237.321 | 233.282 | 227.591 | 221.238 | 215.069 |
| 115.0 | 245.400 | 241.471 | 235.816 | 229.610 | 223.882 |
| 115.5 | 253.845 | 249.733 | 244.261 | 237.946 | 232.584 |
| 116.0 | 262.364 | 258.325 | 253.001 | 246.722 | 241.434 |
| 116.5 | 271.361 | 267.138 | 262.034 | 255.718 | 250.871 |
| 117.0 | 280.724 | 276.134 | 271.140 | 265.412 | 260.602 |
| 117.5 | 287.628 | 283.148 | 279.476 | 274.335 | 270.480 |
| 118.0 | 296.441 | 291.336 | 288.032 | 283.552 | 279.256 |
| 118.5 | 306.685 | 301.104 | 296.771 | 292.108 | 287.150 |
| 119.0 | 316.710 | 310.725 | 306.685 | 301.802 | 295.926 |
| 119.5 | 326.845 | 320.970 | 317.187 | 311.643 | 305.767 |
| 120.0 | 337.310 | 331.582 | 327.726 | 322.402 | 316.159 |
| 120.5 | 347.702 | 342.341 | 338.595 | 333.822 | 327.249 |
| 121.0 | 358.608 | 353.320 | 349.538 | 345.205 | 339.036 |
| 121.5 | 369.403 | 364.189 | 360.444 | 356.735 | 350.566 |
| 122.0 | 380.786 | 375.278 | 371.974 | 368.302 | 362.133 |
| 122.5 | 391.802 | 386.294 | 383.357 | 379.685 | 373.075 |
| 123.0 | 403.186 | 398.045 | 395.107 | 392.170 | 385.193 |
| 123.5 | 414.936 | 409.795 | 407.592 | 404.654 | 397.678 |
| 124.0 | 426.686 | 421.913 | 419.710 | 417.139 | 410.530 |
| 124.5 | 438.437 | 433.663 | 431.827 | 429.257 | 423.014 |
| 125.0 | 450.187 | 445.414 | 443.578 | 441.374 | 435.132 |
| 125.5 | 462.305 | 457.531 | 455.695 | 453.492 | 446.882 |
| 126.0 | 474.055 | 469.282 | 468.180 | 465.610 | 458.633 |
| 126.5 | 485.806 | 481.032 | 480.665 | 478.462 | 471.118 |
| 127.0 | 497.923 | 493.150 | 493.150 | 491.314 | 484.337 |
| 127.5 | 510.041 | 504.900 | 504.900 | 503.798 | 497.556 |
| 128.0 | 521.791 | 516.650 | 517.018 | 516.283 | 510.041 |
| 128.5 | 533.542 | 528.034 | 528.768 | 528.768 | 522.158 |
| 129.0 | 545.292 | 539.417 | 540.518 | 540.886 | 534.643 |
| 129.5 | 557.042 | 551.167 | 552.636 | 553.370 | 547.495 |
| 130.0 | 568.793 | 562.918 | 564.754 | 565.855 | 561.082 |
| 130.5 | 580.543 | 574.301 | 577.238 | 577.973 | 573.934 |
| 131.0 | 592.294 | 585.684 | 588.989 | 589.723 | 585.684 |
| 131.5 | 603.310 | 596.700 | 600.739 | 600.739 | 597.067 |
| 132.0 | 614.693 | 607.716 | 612.122 | 612.490 | 608.083 |
| 132.5 | 625.709 | 619.099 | 623.506 | 623.873 | 619.099 |
| 133.0 | 636.725 | 630.482 | 634.522 | 635.256 | 629.748 |
| 133.5 | 647.741 | 641.498 | 645.905 | 646.639 | 641.131 |
| 134.0 | 658.757 | 652.147 | 656.554 | 657.655 | 652.147 |
| 134.5 | 668.671 | 662.796 | 666.835 | 667.570 | 662.796 |
| 135.0 | 678.586 | 673.078 | 676.750 | 677.484 | 672.343 |
| 135.5 | 688.133 | 683.726 | 686.664 | 687.031 | 681.890 |
| 136.0 | 697.680 | 693.641 | 695.844 | 696.946 | 691.805 |
| 136.5 | 707.594 | 703.188 | 705.024 | 706.860 | 702.086 |
| 137.0 | 716.774 | 712.735 | 714.571 | 716.040 | 711.634 |
| 137.5 | 725.954 | 721.548 | 723.384 | 724.486 | 720.079 |
| 138.0 | 734.767 | 730.361 | 731.830 | 732.564 | 728.158 |
| 138.5 | 743.580 | 738.806 | 740.275 | 740.642 | 735.869 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 139.0 | 752.026  | 747.252  | 748.721  | 748.721  | 743.580  |
| 139.5 | 760.471  | 755.698  | 756.799  | 756.432  | 750.924  |
| 140.0 | 768.550  | 763.409  | 764.878  | 764.510  | 759.002  |
| 140.5 | 776.261  | 770.753  | 772.222  | 771.854  | 765.979  |
| 141.0 | 783.972  | 778.464  | 779.566  | 778.831  | 772.956  |
| 141.5 | 790.949  | 785.441  | 786.910  | 785.808  | 779.198  |
| 142.0 | 798.293  | 792.785  | 793.886  | 792.418  | 785.808  |
| 142.5 | 805.270  | 799.762  | 800.863  | 799.394  | 792.050  |
| 143.0 | 812.246  | 806.371  | 807.473  | 806.004  | 798.660  |
| 143.5 | 818.856  | 813.348  | 814.082  | 812.614  | 804.902  |
| 144.0 | 825.098  | 819.958  | 820.325  | 818.489  | 810.778  |
| 144.5 | 831.341  | 826.200  | 826.567  | 824.364  | 816.653  |
| 145.0 | 837.216  | 832.442  | 832.442  | 829.872  | 822.161  |
| 145.5 | 843.458  | 838.685  | 838.318  | 836.114  | 828.036  |
| 146.0 | 849.334  | 844.560  | 844.193  | 841.622  | 833.911  |
| 146.5 | 855.209  | 850.435  | 849.701  | 847.498  | 839.786  |
| 147.0 | 860.717  | 856.310  | 854.842  | 853.373  | 845.662  |
| 147.5 | 866.225  | 861.818  | 860.350  | 858.881  | 851.170  |
| 148.0 | 871.733  | 867.326  | 865.123  | 864.022  | 857.045  |
| 148.5 | 877.241  | 872.834  | 869.897  | 869.162  | 862.920  |
| 149.0 | 882.382  | 878.342  | 874.670  | 874.303  | 868.795  |
| 149.5 | 887.522  | 883.483  | 879.077  | 879.444  | 874.303  |
| 150.0 | 892.663  | 888.624  | 883.850  | 884.218  | 879.444  |
| 150.5 | 897.804  | 893.765  | 888.257  | 888.624  | 884.585  |
| 151.0 | 902.578  | 898.538  | 892.663  | 893.030  | 889.358  |
| 151.5 | 907.718  | 903.312  | 897.437  | 897.437  | 893.765  |
| 152.0 | 912.492  | 908.086  | 901.843  | 901.476  | 898.171  |
| 152.5 | 917.266  | 912.492  | 906.250  | 905.882  | 902.210  |
| 153.0 | 922.039  | 916.898  | 910.656  | 910.289  | 905.882  |
| 153.5 | 926.446  | 921.305  | 915.062  | 914.695  | 909.187  |
| 154.0 | 930.852  | 925.711  | 919.836  | 919.102  | 912.859  |
| 154.5 | 935.626  | 929.750  | 924.242  | 923.141  | 916.531  |
| 155.0 | 940.032  | 933.790  | 928.649  | 927.547  | 920.570  |
| 155.5 | 944.071  | 937.462  | 933.055  | 931.954  | 924.610  |
| 156.0 | 948.110  | 941.501  | 937.829  | 935.993  | 928.649  |
| 156.5 | 952.150  | 945.540  | 942.235  | 940.399  | 932.688  |
| 157.0 | 956.189  | 949.579  | 946.642  | 944.806  | 936.727  |
| 157.5 | 959.861  | 953.251  | 950.681  | 948.845  | 940.766  |
| 158.0 | 963.533  | 956.923  | 954.720  | 952.884  | 944.806  |
| 158.5 | 967.572  | 960.962  | 958.759  | 956.923  | 949.212  |
| 159.0 | 970.877  | 964.634  | 962.431  | 960.962  | 953.251  |
| 159.5 | 974.549  | 968.306  | 966.103  | 965.002  | 957.290  |
| 160.0 | 977.854  | 971.611  | 969.775  | 968.674  | 961.330  |
| 160.5 | 981.158  | 974.916  | 973.080  | 972.346  | 965.369  |
| 161.0 | 984.463  | 978.221  | 976.385  | 976.018  | 969.408  |
| 161.5 | 987.768  | 981.893  | 979.322  | 979.690  | 973.447  |
| 162.0 | 991.440  | 985.198  | 982.260  | 983.362  | 977.119  |
| 162.5 | 994.745  | 988.502  | 985.198  | 986.666  | 980.424  |
| 163.0 | 998.050  | 991.807  | 988.135  | 989.971  | 983.729  |
| 163.5 | 1001.354 | 994.745  | 991.073  | 993.276  | 986.666  |
| 164.0 | 1004.659 | 997.682  | 993.643  | 996.214  | 989.604  |
| 164.5 | 1007.230 | 1000.620 | 996.214  | 999.151  | 992.542  |
| 165.0 | 1010.167 | 1003.558 | 998.784  | 1002.089 | 995.112  |
| 165.5 | 1013.105 | 1006.128 | 1001.354 | 1004.659 | 997.682  |
| 166.0 | 1016.042 | 1008.698 | 1003.925 | 1007.230 | 999.886  |
| 166.5 | 1018.980 | 1011.269 | 1006.495 | 1009.433 | 1002.456 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| 167.0 | 1021.550 | 1013.472 | 1008.698 | 1011.636 | 1004.659 |
| 167.5 | 1024.121 | 1015.675 | 1011.269 | 1013.839 | 1007.230 |
| 168.0 | 1026.691 | 1017.878 | 1013.472 | 1016.042 | 1009.433 |
| 168.5 | 1029.262 | 1020.082 | 1015.675 | 1018.246 | 1012.003 |
| 169.0 | 1031.465 | 1021.918 | 1017.878 | 1020.082 | 1014.206 |
| 169.5 | 1033.301 | 1023.754 | 1019.714 | 1021.918 | 1016.410 |
| 170.0 | 1035.137 | 1025.590 | 1021.550 | 1023.754 | 1018.980 |
| 170.5 | 1036.973 | 1027.426 | 1023.019 | 1025.590 | 1020.816 |
| 171.0 | 1038.809 | 1028.894 | 1024.488 | 1027.426 | 1022.652 |
| 171.5 | 1040.278 | 1030.363 | 1025.957 | 1029.262 | 1024.488 |
| 172.0 | 1041.746 | 1031.832 | 1027.058 | 1030.730 | 1025.957 |
| 172.5 | 1043.215 | 1033.301 | 1028.160 | 1031.832 | 1027.058 |
| 173.0 | 1044.684 | 1034.770 | 1029.262 | 1033.301 | 1027.793 |
| 173.5 | 1045.786 | 1035.871 | 1030.363 | 1034.035 | 1028.527 |
| 174.0 | 1046.887 | 1036.973 | 1031.465 | 1034.770 | 1028.894 |
| 174.5 | 1047.622 | 1037.707 | 1032.199 | 1035.504 | 1029.262 |
| 175.0 | 1048.356 | 1038.809 | 1032.934 | 1035.871 | 1029.262 |
| 175.5 | 1049.090 | 1039.543 | 1034.035 | 1036.238 | 1029.629 |
| 176.0 | 1049.825 | 1040.278 | 1034.770 | 1036.238 | 1029.629 |
| 176.5 | 1050.192 | 1041.012 | 1035.137 | 1036.606 | 1029.629 |
| 177.0 | 1050.559 | 1041.746 | 1035.871 | 1036.606 | 1029.262 |
| 177.5 | 1051.294 | 1042.481 | 1036.606 | 1036.606 | 1029.262 |
| 178.0 | 1051.661 | 1042.481 | 1036.973 | 1036.606 | 1029.629 |
| 178.5 | 1051.661 | 1042.848 | 1037.340 | 1036.606 | 1029.629 |
| 179.0 | 1052.028 | 1043.215 | 1037.340 | 1036.606 | 1029.629 |
| 179.5 | 1052.395 | 1043.215 | 1037.707 | 1036.606 | 1029.629 |
| 180.0 | 1039.543 | 1039.543 | 1039.543 | 1039.543 | 1039.543 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 379.31  | N.A.  | 7.10   |
| 0-30    | 793.00  | N.A.  | 14.90  |
| 0-40    | 1273.97 | N.A.  | 23.90  |
| 0-60    | 2164.76 | N.A.  | 40.60  |
| 0-80    | 2650.99 | N.A.  | 49.70  |
| 0-90    | 2702.37 | N.A.  | 50.70  |
| 10-90   | 2603.36 | N.A.  | 48.80  |
| 20-40   | 894.66  | N.A.  | 16.80  |
| 20-50   | 1372.12 | N.A.  | 25.70  |
| 40-70   | 1200.37 | N.A.  | 22.50  |
| 60-80   | 486.23  | N.A.  | 9.10   |
| 70-80   | 176.65  | N.A.  | 3.30   |
| 80-90   | 51.38   | N.A.  | 1.00   |
| 90-110  | 150.44  | N.A.  | 2.80   |
| 90-120  | 386.19  | N.A.  | 7.20   |
| 90-130  | 782.36  | N.A.  | 14.70  |
| 90-150  | 1819.72 | N.A.  | 34.10  |
| 90-180  | 2629.97 | N.A.  | 49.30  |
| 110-180 | 2479.53 | N.A.  | 46.50  |
| 0-180   | 5332.34 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 99.01  |
| 10-20   | 280.30 |
| 20-30   | 413.69 |
| 30-40   | 480.97 |
| 40-50   | 477.46 |
| 50-60   | 413.33 |
| 60-70   | 309.58 |
| 70-80   | 176.65 |
| 80-90   | 51.38  |
| 90-100  | 32.45  |
| 100-110 | 117.99 |
| 110-120 | 235.75 |
| 120-130 | 396.17 |
| 130-140 | 518.03 |
| 140-150 | 519.32 |
| 150-160 | 428.99 |
| 160-170 | 282.69 |
| 170-180 | 98.58  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-F-F-DIM-UNV\_.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-927U-L8-927D-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 | 14.7 | 15.6 | 15.7 | 16.6 | 17.8 | 14.6 | 15.5 | 15.6 | 16.5 | 17.7 |
|      | 3H   | 16.5 | 17.3 | 17.4 | 18.2 | 19.5 | 16.4 | 17.2 | 17.3 | 18.1 | 19.4 |
|      | 4H   | 17.1 | 17.8 | 18.1 | 18.8 | 20.1 | 17.0 | 17.8 | 18.0 | 18.7 | 20.0 |
|      | 6H   | 17.5 | 18.2 | 18.5 | 19.2 | 20.5 | 17.5 | 18.2 | 18.5 | 19.1 | 20.4 |
|      | 8H   | 17.7 | 18.3 | 18.6 | 19.3 | 20.6 | 17.6 | 18.3 | 18.6 | 19.3 | 20.6 |
|      | 12H  | 17.7 | 18.4 | 18.7 | 19.3 | 20.7 | 17.7 | 18.3 | 18.7 | 19.3 | 20.7 |

### UGR Viewed Endwise

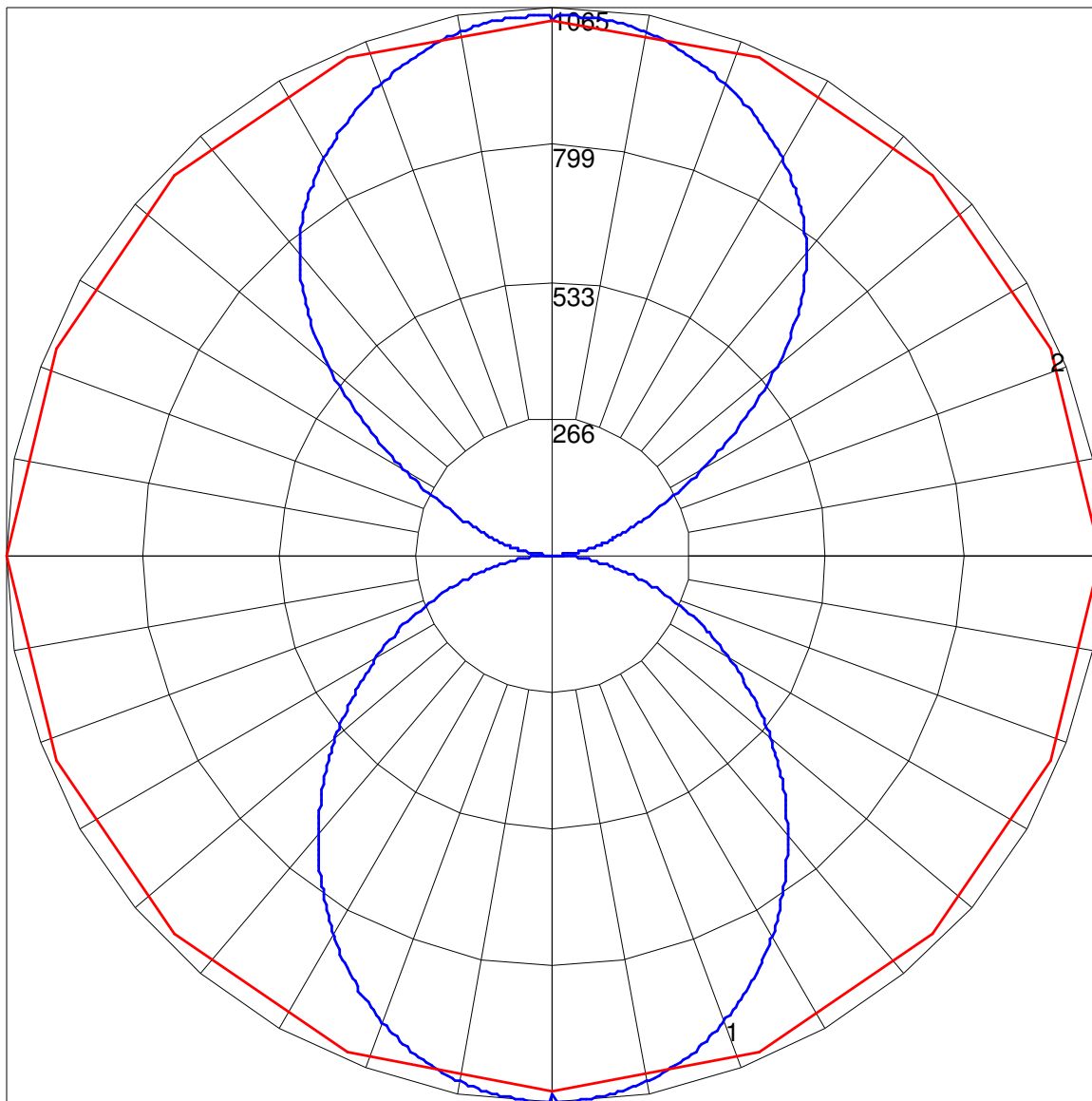
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 15.3 | 16.0 | 16.2 | 17.0 | 18.3 | 15.2 | 15.9 | 16.1 | 16.9 | 18.2 |
|    | 3H  | 17.2 | 17.8 | 18.2 | 18.8 | 20.1 | 17.1 | 17.8 | 18.1 | 18.8 | 20.1 |
|    | 4H  | 18.0 | 18.5 | 18.9 | 19.5 | 20.8 | 17.9 | 18.5 | 18.9 | 19.5 | 20.8 |
|    | 6H  | 18.5 | 19.0 | 19.5 | 20.0 | 21.3 | 18.5 | 19.0 | 19.5 | 20.0 | 21.3 |
|    | 8H  | 18.7 | 19.1 | 19.7 | 20.2 | 21.5 | 18.7 | 19.1 | 19.7 | 20.2 | 21.5 |
|    | 12H | 18.8 | 19.2 | 19.8 | 20.2 | 21.6 | 18.8 | 19.2 | 19.9 | 20.3 | 21.6 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 18.2 | 18.7 | 19.2 | 19.7 | 21.0 | 18.2 | 18.6 | 19.2 | 19.6 | 21.0 |
|    | 6H  | 18.9 | 19.3 | 19.9 | 20.3 | 21.7 | 18.9 | 19.3 | 19.9 | 20.3 | 21.6 |
|    | 8H  | 19.2 | 19.5 | 20.2 | 20.5 | 21.9 | 19.2 | 19.5 | 20.2 | 20.5 | 21.9 |
|    | 12H | 19.3 | 19.6 | 20.4 | 20.7 | 22.1 | 19.4 | 19.7 | 20.4 | 20.7 | 22.1 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 18.2 | 18.6 | 19.2 | 19.6 | 21.0 | 18.1 | 18.6 | 19.2 | 19.6 | 20.9 |
|     | 6H | 18.9 | 19.3 | 20.0 | 20.3 | 21.7 | 18.9 | 19.3 | 20.0 | 20.3 | 21.7 |
|     | 8H | 19.2 | 19.5 | 20.3 | 20.6 | 22.0 | 19.2 | 19.5 | 20.3 | 20.6 | 22.0 |

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1065.381 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.)