

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #4792155668.03

[TESTLAB] UL, LLC

[ISSUE DATE] 2026-08-07

[TEST DATE] 3/17/2026

[MANUFAC] H E Williams Inc

[LUMCAT] CMR2xG-L33-827-CA-DIM-UNV (A ONLY)

[LUMINAIRE] 2' x 2' multi-function recessed troffer with door frame; door

[MORE] frame has arrangement of curved diffused acrylic lenses

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

[MORE] of absolute photometry.

[OTHER] The reported results were measured in a facility that meets the

[MORE] requirements of ANSI/IES LM-75-19. The device under test emits no

[MORE] detectable uplight as defined by ANSI/IES LM-75-19.

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 3210            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 127             |
| Total Luminaire Watts           | 25.3            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.22            |
| Spacing Criterion (90-270)      | 1.38            |
| Spacing Criterion (Diagonal)    | 1.44            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.75 ft         |
| Luminous Width (90-270)         | 1.75 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                  | 3276             | 3789              | 4309              |
| 55                  | 3035             | 3815              | 4495              |
| 65                  | 2644             | 3726              | 4339              |
| 75                  | 1918             | 3023              | 3306              |
| 85                  | 751              | 769               | 560               |

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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  | 1070.044   | 1070.044    | 1070.044    | 1070.044    | 1070.044    |
| 0.5  | 1069.643   | 1069.242    | 1070.444    | 1072.448    | 1064.834    |
| 1.0  | 1073.650   | 1067.639    | 1071.246    | 1070.044    | 1069.643    |
| 1.5  | 1070.444   | 1066.036    | 1070.444    | 1069.242    | 1066.036    |
| 2.0  | 1069.643   | 1064.834    | 1066.837    | 1073.650    | 1069.242    |
| 2.5  | 1070.044   | 1064.032    | 1066.837    | 1072.047    | 1063.631    |
| 3.0  | 1068.841   | 1066.036    | 1068.441    | 1069.643    | 1066.837    |
| 3.5  | 1070.044   | 1066.437    | 1064.433    | 1069.643    | 1068.441    |
| 4.0  | 1064.834   | 1062.830    | 1068.040    | 1068.441    | 1066.837    |
| 4.5  | 1065.635   | 1063.231    | 1063.631    | 1067.639    | 1062.429    |
| 5.0  | 1066.036   | 1064.032    | 1064.834    | 1064.433    | 1066.837    |
| 5.5  | 1066.437   | 1061.628    | 1064.032    | 1070.044    | 1066.437    |
| 6.0  | 1063.631   | 1062.028    | 1061.628    | 1066.437    | 1065.234    |
| 6.5  | 1059.624   | 1059.223    | 1063.631    | 1067.238    | 1064.834    |
| 7.0  | 1061.628   | 1058.822    | 1062.028    | 1067.238    | 1059.223    |
| 7.5  | 1058.421   | 1056.418    | 1058.822    | 1064.032    | 1060.826    |
| 8.0  | 1057.620   | 1054.013    | 1060.024    | 1063.631    | 1060.425    |
| 8.5  | 1051.608   | 1053.211    | 1057.620    | 1060.024    | 1059.624    |
| 9.0  | 1053.612   | 1052.410    | 1057.620    | 1060.425    | 1060.024    |
| 9.5  | 1053.612   | 1050.406    | 1053.612    | 1062.028    | 1058.021    |
| 10.0 | 1048.803   | 1049.204    | 1052.009    | 1057.219    | 1060.425    |
| 10.5 | 1043.192   | 1047.200    | 1052.410    | 1056.017    | 1055.215    |
| 11.0 | 1035.177   | 1041.990    | 1047.601    | 1055.215    | 1058.822    |
| 11.5 | 1040.788   | 1041.188    | 1045.196    | 1054.815    | 1053.612    |
| 12.0 | 1039.185   | 1038.383    | 1044.395    | 1054.414    | 1052.009    |
| 12.5 | 1037.982   | 1035.177    | 1044.395    | 1051.608    | 1049.204    |
| 13.0 | 1028.765   | 1032.772    | 1039.986    | 1051.608    | 1052.009    |
| 13.5 | 1027.562   | 1030.368    | 1039.986    | 1046.799    | 1055.215    |
| 14.0 | 1025.158   | 1029.967    | 1038.383    | 1044.395    | 1052.410    |
| 14.5 | 1024.356   | 1025.959    | 1033.173    | 1045.597    | 1045.998    |
| 15.0 | 1018.345   | 1020.749    | 1031.570    | 1042.792    | 1046.398    |
| 15.5 | 1018.746   | 1015.539    | 1028.364    | 1040.788    | 1038.784    |
| 16.0 | 1011.532   | 1012.734    | 1027.963    | 1039.986    | 1047.601    |
| 16.5 | 1011.131   | 1009.929    | 1024.356    | 1038.784    | 1041.188    |
| 17.0 | 1006.723   | 1006.723    | 1021.952    | 1034.375    | 1042.391    |
| 17.5 | 1001.913   | 1002.715    | 1018.345    | 1032.372    | 1038.784    |
| 18.0 | 993.898    | 998.307     | 1015.940    | 1032.372    | 1035.578    |
| 18.5 | 994.700    | 998.307     | 1013.936    | 1028.765    | 1029.166    |
| 19.0 | 988.287    | 989.089     | 1007.524    | 1027.963    | 1029.967    |
| 19.5 | 985.482    | 987.887     | 1006.723    | 1025.559    | 1027.562    |
| 20.0 | 977.467    | 984.681     | 1001.513    | 1023.956    | 1023.154    |
| 20.5 | 978.669    | 979.070     | 1000.711    | 1021.551    | 1023.154    |
| 21.0 | 963.440    | 974.661     | 995.100     | 1021.551    | 1023.154    |
| 21.5 | 963.841    | 971.856     | 992.696     | 1015.940    | 1019.547    |
| 22.0 | 962.638    | 966.646     | 987.887     | 1013.135    | 1020.349    |
| 22.5 | 957.028    | 961.837     | 984.681     | 1011.131    | 1013.135    |
| 23.0 | 949.012    | 958.230     | 985.081     | 1010.330    | 1016.742    |
| 23.5 | 947.409    | 953.822     | 978.268     | 1006.723    | 1015.139    |
| 24.0 | 941.799    | 948.211     | 976.264     | 1002.314    | 1011.933    |
| 24.5 | 932.982    | 943.802     | 971.856     | 1000.310    | 1006.322    |
| 25.0 | 928.974    | 938.593     | 967.848     | 995.100     | 1004.318    |
| 25.5 | 924.566    | 933.783     | 963.440     | 994.700     | 1001.513    |
| 26.0 | 918.554    | 928.573     | 959.032     | 992.295     | 1001.513    |
| 26.5 | 912.142    | 923.363     | 953.822     | 987.486     | 996.704     |

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|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 27.0 | 908.535 | 918.955 | 953.822 | 984.280 | 993.898 |
| 27.5 | 901.722 | 912.543 | 946.207 | 982.677 | 996.303 |
| 28.0 | 893.707 | 906.531 | 938.593 | 979.871 | 987.085 |
| 28.5 | 890.501 | 901.722 | 938.192 | 976.264 | 985.482 |
| 29.0 | 884.088 | 897.314 | 931.379 | 974.261 | 987.085 |
| 29.5 | 878.878 | 891.302 | 928.573 | 967.448 | 979.871 |
| 30.0 | 872.466 | 884.489 | 924.566 | 967.448 | 981.474 |
| 30.5 | 865.252 | 880.882 | 921.360 | 963.039 | 979.471 |
| 31.0 | 861.245 | 873.669 | 916.550 | 959.833 | 972.257 |
| 31.5 | 853.230 | 868.459 | 909.737 | 956.627 | 972.257 |
| 32.0 | 848.821 | 862.848 | 904.928 | 953.020 | 970.253 |
| 32.5 | 840.004 | 856.836 | 900.119 | 951.016 | 967.448 |
| 33.0 | 835.997 | 850.424 | 897.714 | 946.207 | 962.238 |
| 33.5 | 828.382 | 844.012 | 890.100 | 939.795 | 957.829 |
| 34.0 | 821.168 | 837.600 | 886.894 | 940.997 | 955.825 |
| 34.5 | 814.756 | 831.588 | 881.283 | 934.184 | 953.020 |
| 35.0 | 807.542 | 825.176 | 876.875 | 932.180 | 951.818 |
| 35.5 | 801.531 | 817.561 | 871.665 | 926.570 | 945.406 |
| 36.0 | 794.317 | 812.351 | 866.856 | 922.963 | 944.604 |
| 36.5 | 787.103 | 805.939 | 861.646 | 919.356 | 938.192 |
| 37.0 | 780.290 | 799.928 | 855.634 | 913.745 | 934.585 |
| 37.5 | 772.275 | 792.714 | 850.424 | 911.741 | 935.787 |
| 38.0 | 763.458 | 786.702 | 846.016 | 905.329 | 928.573 |
| 38.5 | 759.050 | 779.489 | 840.004 | 903.325 | 925.768 |
| 39.0 | 750.634 | 773.477 | 833.993 | 897.314 | 921.760 |
| 39.5 | 742.618 | 765.061 | 828.783 | 894.508 | 918.154 |
| 40.0 | 735.805 | 759.450 | 823.172 | 889.699 | 914.146 |
| 40.5 | 728.191 | 751.836 | 816.760 | 883.688 | 910.940 |
| 41.0 | 721.378 | 745.824 | 811.550 | 879.279 | 903.325 |
| 41.5 | 713.362 | 739.011 | 805.939 | 874.871 | 898.115 |
| 42.0 | 704.946 | 731.798 | 799.527 | 868.058 | 893.707 |
| 42.5 | 697.733 | 724.183 | 793.115 | 863.249 | 888.497 |
| 43.0 | 689.717 | 717.771 | 787.905 | 858.840 | 886.894 |
| 43.5 | 682.503 | 709.756 | 780.691 | 853.230 | 882.485 |
| 44.0 | 674.889 | 702.942 | 775.080 | 847.218 | 876.474 |
| 44.5 | 667.274 | 695.729 | 769.470 | 843.210 | 873.268 |
| 45.0 | 659.660 | 688.515 | 763.057 | 837.199 | 867.657 |
| 45.5 | 651.645 | 680.500 | 757.046 | 833.191 | 860.443 |
| 46.0 | 642.828 | 673.687 | 750.233 | 827.180 | 856.436 |
| 46.5 | 634.812 | 665.671 | 744.221 | 820.367 | 850.825 |
| 47.0 | 628.801 | 658.057 | 737.809 | 814.756 | 844.813 |
| 47.5 | 619.183 | 650.041 | 730.996 | 809.145 | 840.004 |
| 48.0 | 612.370 | 642.828 | 723.782 | 802.733 | 832.790 |
| 48.5 | 604.354 | 635.614 | 716.969 | 795.519 | 825.977 |
| 49.0 | 596.339 | 627.999 | 711.359 | 791.111 | 819.966 |
| 49.5 | 586.320 | 619.984 | 704.145 | 783.096 | 815.558 |
| 50.0 | 579.507 | 613.171 | 697.733 | 777.084 | 808.344 |
| 50.5 | 570.690 | 604.755 | 690.118 | 771.073 | 801.531 |
| 51.0 | 562.274 | 596.740 | 682.904 | 763.057 | 793.916 |
| 51.5 | 553.457 | 589.125 | 675.690 | 755.042 | 787.103 |
| 52.0 | 545.842 | 580.709 | 668.076 | 750.233 | 779.889 |
| 52.5 | 537.827 | 572.694 | 660.862 | 743.019 | 772.676 |
| 53.0 | 528.209 | 564.678 | 653.648 | 733.401 | 765.061 |
| 53.5 | 520.193 | 557.064 | 646.435 | 727.389 | 759.050 |
| 54.0 | 511.777 | 549.049 | 638.820 | 718.973 | 749.832 |
| 54.5 | 502.560 | 541.033 | 630.404 | 711.359 | 742.218 |

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**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 495.747 | 532.216 | 623.190 | 702.141 | 734.202 |
| 55.5 | 487.331 | 524.201 | 614.774 | 694.526 | 725.786 |
| 56.0 | 478.915 | 516.186 | 607.160 | 686.912 | 717.771 |
| 56.5 | 470.098 | 508.571 | 598.743 | 678.095 | 709.756 |
| 57.0 | 461.281 | 500.556 | 590.728 | 669.679 | 700.137 |
| 57.5 | 452.865 | 492.541 | 582.713 | 660.461 | 690.118 |
| 58.0 | 444.048 | 484.525 | 573.896 | 651.645 | 679.698 |
| 58.5 | 434.830 | 476.109 | 565.881 | 643.228 | 670.080 |
| 59.0 | 426.414 | 467.693 | 557.865 | 633.610 | 660.461 |
| 59.5 | 417.598 | 458.876 | 549.449 | 624.392 | 650.843 |
| 60.0 | 408.781 | 450.460 | 540.232 | 614.774 | 640.022 |
| 60.5 | 399.964 | 441.643 | 531.415 | 604.354 | 629.602 |
| 61.0 | 390.947 | 432.827 | 522.598 | 593.534 | 618.782 |
| 61.5 | 382.010 | 424.411 | 512.980 | 583.514 | 607.961 |
| 62.0 | 373.032 | 415.594 | 504.564 | 573.095 | 595.537 |
| 62.5 | 363.935 | 406.376 | 496.148 | 561.873 | 583.114 |
| 63.0 | 355.038 | 397.880 | 487.331 | 551.453 | 571.491 |
| 63.5 | 345.820 | 388.863 | 478.113 | 539.831 | 560.270 |
| 64.0 | 336.603 | 379.926 | 468.094 | 528.209 | 547.446 |
| 64.5 | 327.305 | 370.868 | 458.476 | 516.587 | 535.022 |
| 65.0 | 318.248 | 361.851 | 448.456 | 504.564 | 522.197 |
| 65.5 | 308.990 | 352.954 | 438.838 | 494.144 | 508.571 |
| 66.0 | 299.732 | 343.897 | 428.418 | 482.121 | 497.350 |
| 66.5 | 290.395 | 334.960 | 418.399 | 469.296 | 484.125 |
| 67.0 | 281.137 | 325.782 | 407.979 | 456.873 | 470.499 |
| 67.5 | 272.160 | 316.725 | 397.159 | 443.247 | 457.273 |
| 68.0 | 262.862 | 307.587 | 386.057 | 430.422 | 443.647 |
| 68.5 | 253.564 | 298.410 | 375.237 | 417.598 | 429.620 |
| 69.0 | 244.427 | 289.353 | 363.975 | 403.972 | 415.193 |
| 69.5 | 235.410 | 280.135 | 353.114 | 390.866 | 400.445 |
| 70.0 | 226.593 | 271.118 | 341.773 | 377.080 | 386.418 |
| 70.5 | 217.736 | 261.900 | 330.191 | 363.093 | 372.231 |
| 71.0 | 208.719 | 252.763 | 318.608 | 349.467 | 358.204 |
| 71.5 | 200.142 | 243.625 | 306.666 | 336.122 | 344.017 |
| 72.0 | 191.285 | 234.488 | 294.963 | 322.576 | 329.670 |
| 72.5 | 182.709 | 225.431 | 282.940 | 308.830 | 315.362 |
| 73.0 | 174.373 | 216.493 | 270.998 | 295.043 | 300.855 |
| 73.5 | 165.957 | 207.396 | 258.975 | 281.057 | 286.507 |
| 74.0 | 157.661 | 198.379 | 246.992 | 267.030 | 272.360 |
| 74.5 | 149.606 | 189.482 | 234.808 | 253.484 | 258.093 |
| 75.0 | 141.390 | 180.505 | 222.826 | 240.018 | 243.665 |
| 75.5 | 133.335 | 171.648 | 210.843 | 226.473 | 229.198 |
| 76.0 | 125.399 | 162.831 | 199.060 | 212.766 | 214.409 |
| 76.5 | 117.585 | 154.054 | 187.238 | 198.980 | 199.581 |
| 77.0 | 110.130 | 145.358 | 175.575 | 185.114 | 185.073 |
| 77.5 | 102.636 | 136.821 | 163.993 | 171.528 | 170.926 |
| 78.0 | 95.422  | 128.165 | 152.611 | 158.062 | 156.499 |
| 78.5 | 88.249  | 119.548 | 141.270 | 144.716 | 141.991 |
| 79.0 | 81.235  | 111.052 | 130.129 | 131.331 | 126.962 |
| 79.5 | 74.542  | 102.676 | 119.228 | 117.785 | 112.415 |
| 80.0 | 68.130  | 94.420  | 108.527 | 104.319 | 98.308  |
| 80.5 | 61.878  | 86.325  | 97.907  | 91.134  | 84.802  |
| 81.0 | 55.907  | 78.350  | 87.527  | 78.510  | 71.817  |
| 81.5 | 50.136  | 70.575  | 77.348  | 66.487  | 59.754  |
| 82.0 | 44.725  | 63.080  | 67.449  | 55.185  | 48.573  |
| 82.5 | 39.596  | 55.947  | 57.790  | 44.886  | 39.195  |

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**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 83.0  | 34.786 | 49.014 | 48.533 | 36.029 | 31.340 |
| 83.5  | 30.298 | 42.521 | 39.796 | 28.735 | 25.288 |
| 84.0  | 26.130 | 36.430 | 31.821 | 23.004 | 20.599 |
| 84.5  | 22.202 | 30.659 | 24.807 | 18.596 | 16.832 |
| 85.0  | 18.636 | 25.328 | 19.076 | 14.989 | 13.907 |
| 85.5  | 15.389 | 20.359 | 14.548 | 12.183 | 11.542 |
| 86.0  | 12.464 | 15.910 | 11.101 | 9.939  | 9.618  |
| 86.5  | 9.939  | 11.943 | 8.536  | 8.176  | 8.055  |
| 87.0  | 7.695  | 8.657  | 6.613  | 6.733  | 6.653  |
| 87.5  | 5.771  | 6.052  | 5.250  | 5.450  | 5.490  |
| 88.0  | 4.248  | 4.208  | 4.088  | 4.368  | 4.408  |
| 88.5  | 3.006  | 2.926  | 3.166  | 3.407  | 3.487  |
| 89.0  | 2.084  | 2.044  | 2.365  | 2.565  | 2.645  |
| 89.5  | 1.403  | 1.443  | 1.723  | 1.844  | 1.803  |
| 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 : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).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 : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).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 : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).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 : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 392.71  | N.A.  | 12.20  |
| 0-30    | 838.94  | N.A.  | 26.10  |
| 0-40    | 1388.54 | N.A.  | 43.30  |
| 0-60    | 2528.97 | N.A.  | 78.80  |
| 0-80    | 3177.22 | N.A.  | 99.00  |
| 0-90    | 3209.61 | N.A.  | 100.00 |
| 10-90   | 3108.3  | N.A.  | 96.80  |
| 20-40   | 995.82  | N.A.  | 31.00  |
| 20-50   | 1584.31 | N.A.  | 49.40  |
| 40-70   | 1567.92 | N.A.  | 48.90  |
| 60-80   | 648.26  | N.A.  | 20.20  |
| 70-80   | 220.77  | N.A.  | 6.90   |
| 80-90   | 32.38   | N.A.  | 1.00   |
| 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   | 3209.61 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 101.31 |
| 10-20   | 291.41 |
| 20-30   | 446.23 |
| 30-40   | 549.60 |
| 40-50   | 588.48 |
| 50-60   | 551.95 |
| 60-70   | 427.49 |
| 70-80   | 220.77 |
| 80-90   | 32.38  |
| 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 : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2  | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |
| 3  | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 60  | 58  |
| 4  | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 49  |
| 5  | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 43  |
| 6  | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |
| 7  | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |
| 8  | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |
| 9  | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10 | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 30  | 25  | 23  |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMR2XG-L33-827-CA-DIM-UNV (A ONLY).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 | 15.9 | 17.5 | 16.3 | 17.9 | 18.2 | 18.1 | 19.8 | 18.5 | 20.1 | 20.4 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 17.5 | 19.0 | 17.8 | 19.3 | 19.6 | 20.0 | 21.5 | 20.4 | 21.8 | 22.2 |
|      | 4H   | 17.9 | 19.4 | 18.3 | 19.7 | 20.1 | 20.6 | 22.0 | 21.0 | 22.3 | 22.7 |
|      | 6H   | 18.2 | 19.5 | 18.6 | 19.9 | 20.3 | 20.8 | 22.1 | 21.2 | 22.5 | 22.9 |
|      | 8H   | 18.3 | 19.5 | 18.7 | 19.9 | 20.3 | 20.8 | 22.1 | 21.3 | 22.5 | 22.9 |
|      | 12H  | 18.3 | 19.5 | 18.7 | 19.8 | 20.3 | 20.8 | 22.0 | 21.3 | 22.4 | 22.8 |

### UGR Viewed Endwise

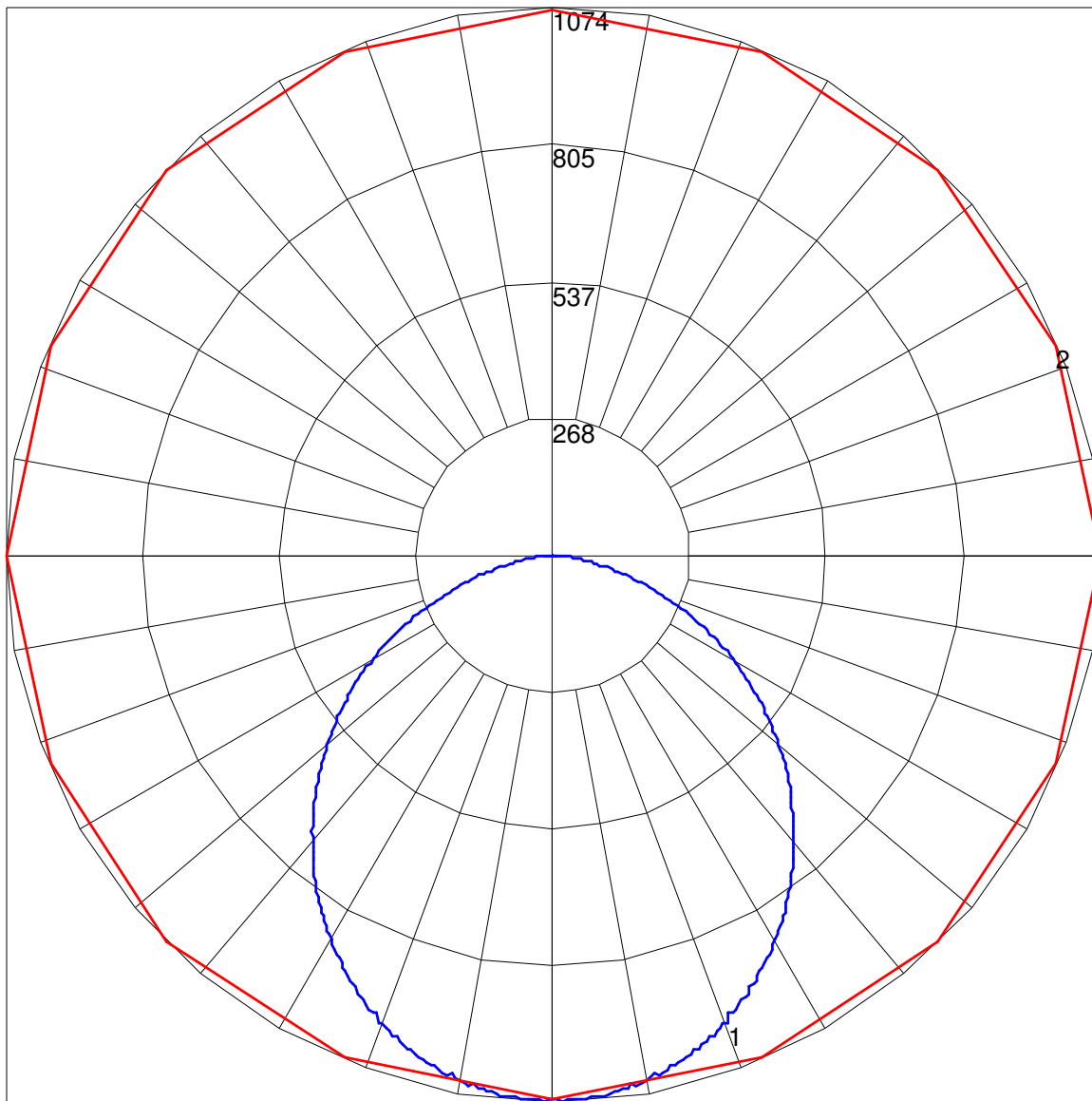
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 16.9 | 18.3 | 17.3 | 18.7 | 19.0 | 18.6 | 20.0 | 19.0 | 20.4 | 20.7 |
|    | 3H  | 18.7 | 19.9 | 19.1 | 20.3 | 20.7 | 20.7 | 21.9 | 21.1 | 22.3 | 22.7 |
|    | 4H  | 19.3 | 20.3 | 19.7 | 20.7 | 21.2 | 21.4 | 22.5 | 21.8 | 22.9 | 23.3 |
|    | 6H  | 19.6 | 20.6 | 20.1 | 21.0 | 21.5 | 21.8 | 22.7 | 22.2 | 23.1 | 23.6 |
|    | 8H  | 19.7 | 20.6 | 20.1 | 21.0 | 21.5 | 21.8 | 22.7 | 22.2 | 23.1 | 23.6 |
|    | 12H | 19.7 | 20.5 | 20.2 | 21.0 | 21.4 | 21.8 | 22.6 | 22.3 | 23.0 | 23.5 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 19.7 | 20.6 | 20.2 | 21.0 | 21.5 | 21.6 | 22.5 | 22.1 | 22.9 | 23.4 |
|    | 6H  | 20.1 | 20.9 | 20.6 | 21.4 | 21.8 | 22.0 | 22.7 | 22.5 | 23.2 | 23.7 |
|    | 8H  | 20.3 | 20.9 | 20.8 | 21.4 | 21.9 | 22.1 | 22.7 | 22.6 | 23.2 | 23.7 |
|    | 12H | 20.3 | 20.9 | 20.8 | 21.4 | 21.9 | 22.1 | 22.6 | 22.6 | 23.1 | 23.7 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 19.7 | 20.5 | 20.2 | 21.0 | 21.5 | 21.6 | 22.4 | 22.1 | 22.9 | 23.3 |
|     | 6H | 20.2 | 20.9 | 20.7 | 21.3 | 21.9 | 22.0 | 22.7 | 22.6 | 23.1 | 23.7 |
|     | 8H | 20.3 | 20.9 | 20.8 | 21.4 | 22.0 | 22.1 | 22.7 | 22.6 | 23.1 | 23.7 |

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1073.65 Located At Horizontal Angle = 0, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)