

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-827-RDB-XXX-DIM-UNV-N-XXX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W6CR_Angela-M_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUE DATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L70-827-RDB-xxx-DIM-UNV-N-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH NARROW DIST.
[LAMPCAT] BL VERO 22 COB
[LAMP] LED
[OTHER] Absolute Photometry

CHARACTERISTICS

| | |
|---------------------------------|-------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6071 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 95 |
| Total Luminaire Watts | 63.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.44 |
| Spacing Criterion (90-270) | 0.46 |
| Spacing Criterion (Diagonal) | 0.52 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.15 m (Diameter) |
| Luminous Width (90-270) | 0.15 m (Diameter) |
| Luminous Height | 0.00 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 23650 | 23648 | 23164 |
| 55 | 14139 | 13904 | 13497 |
| 65 | 8383 | 8253 | 8037 |
| 75 | 5525 | 5464 | 5375 |
| 85 | 1354 | 1354 | 1341 |

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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 | 15037.707 | 15037.707 | 15037.707 | 15037.707 | 15037.707 |
| 1 | 14970.280 | 14975.958 | 14986.231 | 14999.112 | 15001.629 |
| 2 | 14779.973 | 14800.850 | 14843.225 | 14889.862 | 14903.715 |
| 3 | 14469.922 | 14512.120 | 14604.092 | 14704.614 | 14733.313 |
| 4 | 14046.293 | 14113.035 | 14264.879 | 14411.178 | 14454.524 |
| 5 | 13515.292 | 13601.764 | 13799.384 | 13984.787 | 14033.479 |
| 6 | 12887.548 | 12987.716 | 13207.341 | 13419.609 | 13470.201 |
| 7 | 12184.002 | 12287.353 | 12517.427 | 12726.049 | 12780.398 |
| 8 | 11413.737 | 11518.126 | 11736.844 | 11944.141 | 11986.670 |
| 9 | 10614.464 | 10716.555 | 10918.571 | 11112.325 | 11157.107 |
| 10 | 9827.099 | 9915.116 | 10103.038 | 10276.333 | 10324.849 |
| 11 | 9055.905 | 9127.972 | 9298.329 | 9453.311 | 9497.429 |
| 12 | 8320.568 | 8382.605 | 8535.200 | 8674.495 | 8706.728 |
| 13 | 7646.429 | 7696.115 | 7828.716 | 7955.861 | 7974.507 |
| 14 | 7021.202 | 7072.391 | 7183.496 | 7303.084 | 7300.588 |
| 15 | 6470.296 | 6502.441 | 6608.597 | 6696.217 | 6701.829 |
| 16 | 5949.569 | 5984.454 | 6088.179 | 6167.558 | 6185.211 |
| 17 | 5502.808 | 5537.538 | 5621.336 | 5684.963 | 5703.853 |
| 18 | 5118.747 | 5146.937 | 5222.031 | 5272.160 | 5292.949 |
| 19 | 4786.162 | 4812.342 | 4875.992 | 4916.797 | 4936.835 |
| 20 | 4504.855 | 4527.942 | 4578.666 | 4618.301 | 4623.648 |
| 21 | 4262.563 | 4280.392 | 4320.689 | 4358.512 | 4357.871 |
| 22 | 4055.796 | 4066.224 | 4097.485 | 4131.597 | 4139.395 |
| 23 | 3879.297 | 3881.153 | 3907.222 | 3930.199 | 3943.233 |
| 24 | 3716.606 | 3715.545 | 3737.792 | 3750.938 | 3766.999 |
| 25 | 3570.859 | 3567.457 | 3579.564 | 3586.125 | 3596.509 |
| 26 | 3430.813 | 3423.743 | 3425.555 | 3428.515 | 3431.343 |
| 27 | 3289.463 | 3275.589 | 3268.254 | 3264.984 | 3267.106 |
| 28 | 3133.665 | 3116.278 | 3095.930 | 3097.477 | 3095.511 |
| 29 | 2952.592 | 2937.238 | 2902.928 | 2890.909 | 2891.903 |
| 30 | 2760.451 | 2731.620 | 2689.997 | 2665.784 | 2674.422 |
| 31 | 2522.004 | 2495.912 | 2455.416 | 2432.086 | 2423.691 |
| 32 | 2255.852 | 2234.819 | 2198.720 | 2180.957 | 2171.987 |
| 33 | 1968.292 | 1953.578 | 1932.015 | 1924.968 | 1924.217 |
| 34 | 1674.723 | 1667.874 | 1664.383 | 1674.347 | 1685.371 |
| 35 | 1391.670 | 1393.415 | 1405.190 | 1433.337 | 1451.961 |
| 36 | 1136.586 | 1142.198 | 1170.035 | 1206.399 | 1225.620 |
| 37 | 913.095 | 924.606 | 959.358 | 1000.738 | 1014.523 |
| 38 | 731.537 | 756.038 | 781.886 | 822.272 | 829.872 |
| 39 | 607.199 | 624.055 | 646.435 | 679.044 | 680.392 |
| 40 | 499.098 | 511.382 | 539.639 | 562.947 | 572.469 |
| 41 | 432.997 | 441.480 | 457.078 | 471.063 | 475.305 |
| 42 | 387.375 | 391.727 | 400.587 | 407.745 | 409.424 |
| 43 | 353.176 | 355.319 | 359.295 | 361.814 | 360.554 |
| 44 | 326.377 | 326.885 | 328.542 | 327.327 | 326.090 |
| 45 | 303.577 | 303.953 | 303.555 | 301.257 | 297.347 |
| 46 | 283.406 | 283.031 | 281.484 | 278.259 | 275.365 |
| 47 | 264.385 | 263.921 | 261.711 | 258.442 | 255.680 |
| 48 | 246.600 | 246.092 | 243.684 | 240.237 | 237.608 |
| 49 | 229.765 | 229.169 | 226.783 | 223.380 | 220.818 |
| 50 | 213.704 | 213.041 | 210.809 | 207.473 | 205.110 |
| 51 | 198.703 | 197.974 | 195.786 | 192.693 | 190.418 |
| 52 | 184.453 | 183.790 | 181.647 | 178.819 | 176.588 |
| 53 | 171.241 | 170.579 | 168.634 | 165.961 | 163.774 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-827-RDB-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|---------|---------|---------|---------|---------|
| 54 | 158.958 | 158.273 | 156.395 | 153.854 | 151.755 |
| 55 | 147.226 | 146.542 | 144.774 | 142.322 | 140.532 |
| 56 | 135.716 | 135.075 | 133.441 | 131.253 | 129.596 |
| 57 | 124.824 | 124.272 | 122.703 | 120.737 | 119.279 |
| 58 | 114.883 | 114.352 | 112.983 | 111.105 | 109.890 |
| 59 | 105.604 | 105.095 | 103.925 | 102.201 | 101.097 |
| 60 | 97.120 | 96.678 | 95.551 | 94.093 | 93.055 |
| 61 | 89.365 | 88.924 | 87.929 | 86.560 | 85.543 |
| 62 | 82.296 | 81.810 | 80.926 | 79.777 | 78.783 |
| 63 | 75.734 | 75.381 | 74.541 | 73.547 | 72.597 |
| 64 | 69.725 | 69.371 | 68.664 | 67.737 | 66.919 |
| 65 | 64.312 | 63.892 | 63.318 | 62.456 | 61.661 |
| 66 | 59.142 | 58.811 | 58.259 | 57.530 | 56.801 |
| 67 | 54.415 | 54.105 | 53.641 | 53.001 | 52.360 |
| 68 | 50.129 | 49.797 | 49.400 | 48.803 | 48.229 |
| 69 | 45.975 | 45.776 | 45.357 | 44.870 | 44.296 |
| 70 | 42.197 | 41.954 | 41.623 | 41.181 | 40.673 |
| 71 | 38.618 | 38.375 | 38.110 | 37.712 | 37.271 |
| 72 | 35.282 | 35.017 | 34.796 | 34.421 | 34.067 |
| 73 | 32.035 | 31.814 | 31.615 | 31.305 | 30.996 |
| 74 | 28.942 | 28.765 | 28.566 | 28.323 | 28.036 |
| 75 | 25.959 | 25.826 | 25.672 | 25.495 | 25.252 |
| 76 | 23.043 | 22.954 | 22.844 | 22.689 | 22.513 |
| 77 | 20.215 | 20.171 | 20.104 | 20.038 | 19.884 |
| 78 | 17.431 | 17.387 | 17.409 | 17.365 | 17.299 |
| 79 | 14.670 | 14.670 | 14.736 | 14.802 | 14.714 |
| 80 | 11.930 | 11.952 | 12.018 | 12.195 | 12.107 |
| 81 | 9.014 | 9.102 | 9.146 | 9.301 | 9.213 |
| 82 | 5.214 | 5.346 | 5.523 | 5.545 | 5.612 |
| 83 | 2.563 | 2.585 | 2.806 | 2.938 | 3.159 |
| 84 | 2.342 | 2.320 | 2.320 | 2.342 | 2.320 |
| 85 | 2.143 | 2.165 | 2.143 | 2.143 | 2.121 |
| 86 | 1.922 | 1.922 | 1.922 | 1.922 | 1.900 |
| 87 | 1.635 | 1.635 | 1.635 | 1.635 | 1.613 |
| 88 | 1.281 | 1.281 | 1.259 | 1.259 | 1.259 |
| 89 | 0.840 | 0.840 | 0.840 | 0.840 | 0.840 |
| 90 | 0.442 | 0.486 | 0.508 | 0.530 | 0.552 |
| 91 | 0.442 | 0.442 | 0.442 | 0.442 | 0.420 |
| 92 | 0.442 | 0.464 | 0.464 | 0.442 | 0.442 |
| 93 | 0.464 | 0.464 | 0.464 | 0.464 | 0.442 |
| 94 | 0.464 | 0.464 | 0.464 | 0.464 | 0.464 |
| 95 | 0.486 | 0.486 | 0.486 | 0.464 | 0.464 |
| 96 | 0.508 | 0.508 | 0.508 | 0.486 | 0.486 |
| 97 | 0.508 | 0.530 | 0.530 | 0.508 | 0.508 |
| 98 | 0.552 | 0.552 | 0.552 | 0.530 | 0.530 |
| 99 | 0.597 | 0.574 | 0.574 | 0.574 | 0.574 |
| 100 | 0.597 | 0.574 | 0.574 | 0.574 | 0.597 |
| 101 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-827-RDB-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 139 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 166 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-827-RDB-XXX-DIM-UNV-N-XXX_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 3051.08 | N.A. | 50.30 |
| 0-30 | 4692.18 | N.A. | 77.30 |
| 0-40 | 5597.71 | N.A. | 92.20 |
| 0-60 | 5975.29 | N.A. | 98.40 |
| 0-80 | 6066.8 | N.A. | 99.90 |
| 0-90 | 6070.48 | N.A. | 100.00 |
| 10-90 | 4877.34 | N.A. | 80.30 |
| 20-40 | 2546.63 | N.A. | 41.90 |
| 20-50 | 2793.4 | N.A. | 46.00 |
| 40-70 | 441.68 | N.A. | 7.30 |
| 60-80 | 91.51 | N.A. | 1.50 |
| 70-80 | 27.42 | N.A. | 0.50 |
| 80-90 | 3.68 | N.A. | 0.10 |
| 90-110 | 0.57 | N.A. | 0.00 |
| 90-120 | 0.57 | N.A. | 0.00 |
| 90-130 | 0.57 | N.A. | 0.00 |
| 90-150 | 0.57 | N.A. | 0.00 |
| 90-180 | 0.57 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 6071.05 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1193.14 |
| 10-20 | 1857.94 |
| 20-30 | 1641.1 |
| 30-40 | 905.53 |
| 40-50 | 246.77 |
| 50-60 | 130.81 |
| 60-70 | 64.09 |
| 70-80 | 27.42 |
| 80-90 | 3.68 |
| 90-100 | 0.54 |
| 100-110 | 0.03 |
| 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 |

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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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 84 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 78 |
| 5 | 95 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 80 | 76 | 83 | 79 | 76 | 81 | 78 | 75 | 74 |
| 6 | 90 | 82 | 77 | 73 | 89 | 81 | 76 | 73 | 80 | 75 | 72 | 79 | 75 | 72 | 77 | 74 | 71 | 70 |
| 7 | 87 | 78 | 73 | 69 | 85 | 77 | 72 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 |
| 8 | 83 | 74 | 69 | 65 | 82 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 64 | 71 | 67 | 64 | 63 |
| 9 | 80 | 71 | 66 | 62 | 79 | 70 | 65 | 62 | 70 | 65 | 62 | 69 | 64 | 61 | 68 | 64 | 61 | 60 |
| 10 | 77 | 68 | 63 | 59 | 76 | 67 | 62 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 61 | 58 | 57 |

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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 | 13.4 | 14.4 | 13.7 | 14.7 | 15.0 | 13.2 | 14.1 | 13.5 | 14.5 | 14.8 |
| | 3H | 14.1 | 15.0 | 14.5 | 15.3 | 15.7 | 13.9 | 14.8 | 14.3 | 15.1 | 15.5 |
| | 4H | 14.4 | 15.2 | 14.8 | 15.5 | 15.9 | 14.1 | 14.9 | 14.5 | 15.3 | 15.7 |
| | 6H | 14.5 | 15.2 | 14.9 | 15.6 | 16.0 | 14.3 | 15.0 | 14.7 | 15.4 | 15.7 |
| | 8H | 14.4 | 15.1 | 14.8 | 15.5 | 15.9 | 14.2 | 14.9 | 14.6 | 15.3 | 15.7 |
| | 12H | 14.4 | 15.0 | 14.8 | 15.4 | 15.8 | 14.2 | 14.8 | 14.6 | 15.2 | 15.6 |

UGR Viewed Endwise

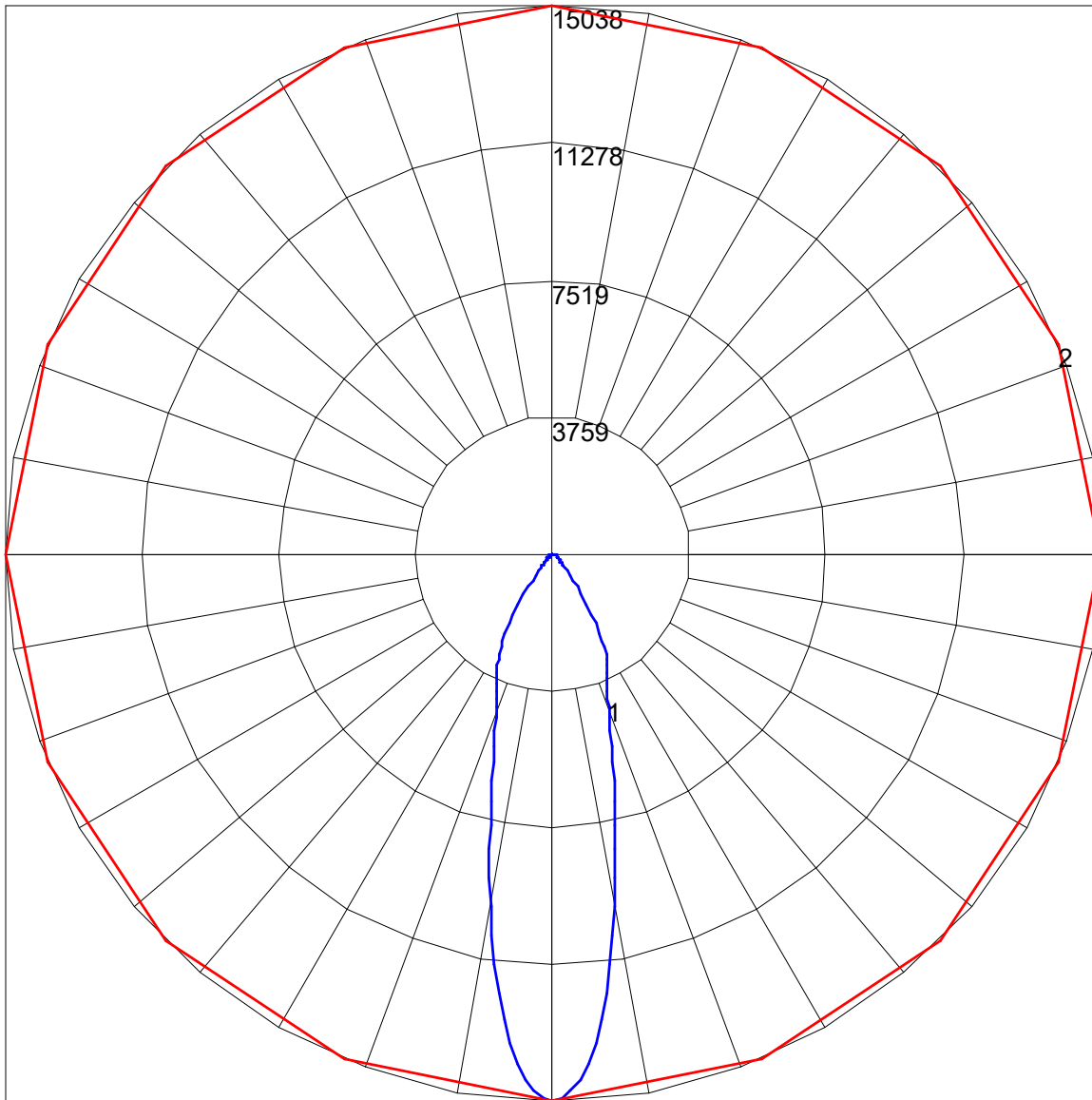
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 13.5 | 14.3 | 13.9 | 14.7 | 15.1 | 13.3 | 14.1 | 13.7 | 14.5 | 14.9 |
| | 3H | 14.5 | 15.1 | 14.9 | 15.5 | 15.9 | 14.3 | 14.9 | 14.7 | 15.3 | 15.7 |
| | 4H | 14.8 | 15.3 | 15.2 | 15.8 | 16.2 | 14.6 | 15.2 | 15.0 | 15.6 | 16.0 |
| | 6H | 14.9 | 15.4 | 15.4 | 15.9 | 16.3 | 14.8 | 15.3 | 15.2 | 15.7 | 16.2 |
| | 8H | 14.9 | 15.3 | 15.4 | 15.8 | 16.3 | 14.7 | 15.2 | 15.2 | 15.6 | 16.1 |
| | 12H | 14.8 | 15.2 | 15.3 | 15.7 | 16.2 | 14.7 | 15.1 | 15.2 | 15.6 | 16.0 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 14.8 | 15.2 | 15.3 | 15.7 | 16.2 | 14.6 | 15.1 | 15.1 | 15.5 | 16.0 |
| | 6H | 15.0 | 15.3 | 15.5 | 15.9 | 16.3 | 14.8 | 15.2 | 15.3 | 15.7 | 16.2 |
| | 8H | 15.0 | 15.3 | 15.5 | 15.8 | 16.3 | 14.8 | 15.1 | 15.4 | 15.7 | 16.2 |
| | 12H | 14.9 | 15.2 | 15.4 | 15.7 | 16.3 | 14.8 | 15.0 | 15.3 | 15.5 | 16.1 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 14.7 | 15.1 | 15.2 | 15.6 | 16.1 | 14.6 | 15.0 | 15.1 | 15.5 | 15.9 |
| | 6H | 14.9 | 15.3 | 15.5 | 15.7 | 16.3 | 14.8 | 15.1 | 15.3 | 15.6 | 16.1 |
| | 8H | 14.9 | 15.2 | 15.5 | 15.7 | 16.3 | 14.8 | 15.1 | 15.3 | 15.6 | 16.1 |

Maximum UGR = 16.3

POLAR GRAPH



Maximum Candela = 15037.707 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)