

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-930-XXX-DIM-UNV-S-XXX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W6CR_Angela-S_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L50-930-xxx-DIM-UNV-S-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH SPOT DISTRIBUTION
[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 | 4911 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 109 |
| Total Luminaire Watts | 45 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.34 |
| Spacing Criterion (90-270) | 0.34 |
| Spacing Criterion (Diagonal) | 0.32 |
| 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 | 5300 | 5447 | 5517 |
| 55 | 6015 | 5847 | 5730 |
| 65 | 4441 | 4364 | 4239 |
| 75 | 3140 | 3143 | 3085 |
| 85 | 861 | 882 | 861 |

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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 | 26540.62626540.62626540.62626540.62626540.62626540.626 | | | | |
| 1 | 26946.42626959.51126907.04526882.56126837.455 | | | | |
| 2 | 27871.13427903.92327732.11627637.25627461.916 | | | | |
| 3 | 28699.15528758.33828468.14628284.16627966.410 | | | | |
| 4 | 28747.40228835.97728465.96628240.97027786.104 | | | | |
| 5 | 27575.16927660.92227317.38427084.17926584.285 | | | | |
| 6 | 25175.09625270.88625026.20024845.50724371.176 | | | | |
| 7 | 21932.89222007.22921905.57021813.45121433.659 | | | | |
| 8 | 18309.45218397.67518402.08418458.49318163.153 | | | | |
| 9 | 14842.97414933.80915051.26115189.54315000.272 | | | | |
| 10 | 11855.46211949.42412125.83512309.28512198.135 | | | | |
| 11 | 9414.356 9512.231 9713.416 9902.815 9839.014 | | | | |
| 12 | 7517.253 7612.466 7790.897 7973.257 7918.917 | | | | |
| 13 | 6087.442 6173.243 6330.060 6487.021 6428.271 | | | | |
| 14 | 5012.940 5138.233 5244.109 5367.302 5287.594 | | | | |
| 15 | 4250.548 4248.047 4395.083 4494.128 4474.999 | | | | |
| 16 | 3574.599 3624.370 3720.705 3798.681 3754.570 | | | | |
| 17 | 3112.934 3152.780 3232.199 3290.676 3252.626 | | | | |
| 18 | 2766.060 2798.257 2859.910 2908.142 2879.135 | | | | |
| 19 | 2511.705 2535.741 2583.716 2622.664 2598.628 | | | | |
| 20 | 2323.156 2343.808 2379.212 2416.556 2386.797 | | | | |
| 21 | 2199.883 2202.544 2237.291 2265.816 2231.631 | | | | |
| 22 | 2097.278 2105.520 2118.091 2147.177 2125.467 | | | | |
| 23 | 2025.748 2032.194 2040.243 2060.527 2038.752 | | | | |
| 24 | 1968.297 1970.926 1975.801 1986.079 1967.928 | | | | |
| 25 | 1919.696 1921.348 1920.386 1923.977 1902.251 | | | | |
| 26 | 1873.388 1871.801 1861.491 1863.672 1837.808 | | | | |
| 27 | 1820.763 1813.692 1797.241 1794.659 1769.709 | | | | |
| 28 | 1753.980 1744.616 1717.710 1709.436 1690.291 | | | | |
| 29 | 1667.217 1655.368 1619.883 1604.747 1588.905 | | | | |
| 30 | 1554.030 1540.128 1500.475 1482.195 1462.441 | | | | |
| 31 | 1411.740 1398.094 1359.692 1343.000 1319.125 | | | | |
| 32 | 1247.739 1236.451 1203.789 1194.264 1172.890 | | | | |
| 33 | 1064.305 1058.452 1037.896 1036.725 1025.421 | | | | |
| 34 | 874.697 874.360 869.053 880.293 877.391 | | | | |
| 35 | 690.589 696.281 704.796 728.222 730.627 | | | | |
| 36 | 525.915 537.235 557.182 587.680 591.416 | | | | |
| 37 | 389.029 397.815 422.172 455.924 463.268 | | | | |
| 38 | 269.075 283.089 314.965 348.269 355.292 | | | | |
| 39 | 194.947 205.658 228.331 257.850 266.204 | | | | |
| 40 | 135.828 146.908 170.735 189.271 193.456 | | | | |
| 41 | 104.449 112.065 126.352 143.942 144.567 | | | | |
| 42 | 86.698 91.268 99.590 108.698 111.536 | | | | |
| 43 | 76.629 79.226 83.828 89.248 89.986 | | | | |
| 44 | 71.161 72.460 74.897 77.863 77.414 | | | | |
| 45 | 68.034 68.868 69.926 71.562 70.824 | | | | |
| 46 | 66.206 66.864 67.217 68.291 67.489 | | | | |
| 47 | 65.116 65.661 65.597 66.431 65.661 | | | | |
| 48 | 64.475 64.843 64.571 65.196 64.491 | | | | |
| 49 | 64.058 64.298 63.881 64.314 63.609 | | | | |
| 50 | 63.769 63.865 63.304 63.625 62.855 | | | | |
| 51 | 63.593 63.609 62.855 63.032 62.198 | | | | |
| 52 | 63.529 63.432 62.470 62.518 61.653 | | | | |
| 53 | 63.513 63.272 62.150 62.086 61.156 | | | | |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : W6CR-XX-L50-930-XXX-DIM-UNV-S-XXX_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 54 | 63.416 | 63.032 | 61.765 | 61.540 | 60.562 |
| 55 | 62.631 | 62.214 | 60.883 | 60.562 | 59.664 |
| 56 | 61.156 | 60.723 | 59.328 | 58.911 | 58.237 |
| 57 | 59.103 | 58.814 | 57.291 | 56.874 | 56.281 |
| 58 | 56.746 | 56.506 | 54.950 | 54.485 | 54.148 |
| 59 | 53.908 | 53.748 | 52.192 | 51.775 | 51.519 |
| 60 | 50.717 | 50.605 | 49.178 | 48.793 | 48.536 |
| 61 | 47.366 | 47.222 | 45.987 | 45.650 | 45.265 |
| 62 | 43.902 | 43.726 | 42.732 | 42.443 | 41.882 |
| 63 | 40.503 | 40.231 | 39.509 | 39.252 | 38.563 |
| 64 | 37.200 | 36.895 | 36.414 | 36.174 | 35.388 |
| 65 | 34.073 | 33.817 | 33.480 | 33.272 | 32.518 |
| 66 | 31.123 | 30.963 | 30.738 | 30.578 | 29.840 |
| 67 | 28.509 | 28.397 | 28.269 | 28.108 | 27.499 |
| 68 | 26.200 | 26.104 | 26.056 | 25.896 | 25.367 |
| 69 | 24.084 | 24.068 | 24.020 | 23.923 | 23.442 |
| 70 | 22.176 | 22.224 | 22.208 | 22.128 | 21.695 |
| 71 | 20.492 | 20.524 | 20.524 | 20.476 | 20.091 |
| 72 | 18.953 | 18.985 | 18.969 | 18.937 | 18.552 |
| 73 | 17.494 | 17.526 | 17.510 | 17.478 | 17.157 |
| 74 | 16.099 | 16.131 | 16.115 | 16.115 | 15.826 |
| 75 | 14.752 | 14.768 | 14.768 | 14.784 | 14.495 |
| 76 | 13.405 | 13.453 | 13.453 | 13.469 | 13.212 |
| 77 | 12.090 | 12.122 | 12.154 | 12.170 | 11.978 |
| 78 | 10.743 | 10.743 | 10.807 | 10.839 | 10.727 |
| 79 | 9.332 | 9.332 | 9.444 | 9.492 | 9.380 |
| 80 | 7.825 | 7.841 | 7.937 | 8.049 | 7.953 |
| 81 | 6.045 | 6.173 | 6.189 | 6.318 | 6.221 |
| 82 | 3.463 | 3.608 | 3.736 | 3.768 | 3.768 |
| 83 | 1.636 | 1.668 | 1.812 | 1.908 | 1.972 |
| 84 | 1.491 | 1.491 | 1.507 | 1.507 | 1.459 |
| 85 | 1.363 | 1.379 | 1.395 | 1.395 | 1.363 |
| 86 | 1.235 | 1.235 | 1.235 | 1.235 | 1.219 |
| 87 | 1.042 | 1.058 | 1.058 | 1.042 | 1.026 |
| 88 | 0.818 | 0.818 | 0.834 | 0.818 | 0.802 |
| 89 | 0.545 | 0.529 | 0.545 | 0.545 | 0.529 |
| 90 | 0.273 | 0.305 | 0.321 | 0.353 | 0.321 |
| 91 | 0.273 | 0.273 | 0.289 | 0.289 | 0.273 |
| 92 | 0.289 | 0.273 | 0.289 | 0.289 | 0.273 |
| 93 | 0.289 | 0.273 | 0.289 | 0.289 | 0.289 |
| 94 | 0.305 | 0.289 | 0.305 | 0.305 | 0.289 |
| 95 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 |
| 96 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 |
| 97 | 0.321 | 0.321 | 0.305 | 0.321 | 0.305 |
| 98 | 0.321 | 0.337 | 0.321 | 0.321 | 0.321 |
| 99 | 0.321 | 0.337 | 0.337 | 0.337 | 0.321 |
| 100 | 0.353 | 0.337 | 0.337 | 0.353 | 0.321 |
| 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-L50-930-XXX-DIM-UNV-S-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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| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 3404.25 | N.A. | 69.30 |
| 0-30 | 4284.19 | N.A. | 87.20 |
| 0-40 | 4741.6 | N.A. | 96.60 |
| 0-60 | 4858.34 | N.A. | 98.90 |
| 0-80 | 4907.89 | N.A. | 99.90 |
| 0-90 | 4910.31 | N.A. | 100.00 |
| 10-90 | 2872.22 | N.A. | 58.50 |
| 20-40 | 1337.35 | N.A. | 27.20 |
| 20-50 | 1400.97 | N.A. | 28.50 |
| 40-70 | 150.65 | N.A. | 3.10 |
| 60-80 | 49.54 | N.A. | 1.00 |
| 70-80 | 15.64 | N.A. | 0.30 |
| 80-90 | 2.43 | N.A. | 0.00 |
| 90-110 | 0.35 | N.A. | 0.00 |
| 90-120 | 0.35 | N.A. | 0.00 |
| 90-130 | 0.35 | N.A. | 0.00 |
| 90-150 | 0.35 | N.A. | 0.00 |
| 90-180 | 0.35 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 4910.66 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 2038.09 |
| 10-20 | 1366.16 |
| 20-30 | 879.95 |
| 30-40 | 457.40 |
| 40-50 | 63.62 |
| 50-60 | 53.12 |
| 60-70 | 33.90 |
| 70-80 | 15.64 |
| 80-90 | 2.43 |
| 90-100 | 0.33 |
| 100-110 | 0.02 |
| 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 | 115 | 113 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 96 | 95 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 |
| 5 | 100 | 94 | 89 | 86 | 99 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 87 | 84 | 88 | 86 | 84 | 83 |
| 6 | 97 | 90 | 86 | 83 | 96 | 90 | 85 | 82 | 88 | 85 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 80 |
| 7 | 94 | 87 | 83 | 80 | 93 | 87 | 83 | 80 | 86 | 82 | 79 | 85 | 81 | 79 | 84 | 81 | 78 | 77 |
| 8 | 91 | 84 | 80 | 77 | 90 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 81 | 78 | 76 | 75 |
| 9 | 89 | 82 | 78 | 75 | 88 | 82 | 77 | 75 | 81 | 77 | 74 | 80 | 77 | 74 | 79 | 76 | 74 | 73 |
| 10 | 87 | 80 | 75 | 73 | 86 | 79 | 75 | 73 | 79 | 75 | 72 | 78 | 75 | 72 | 77 | 74 | 72 | 71 |

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UGR TABLE - CORRECTED

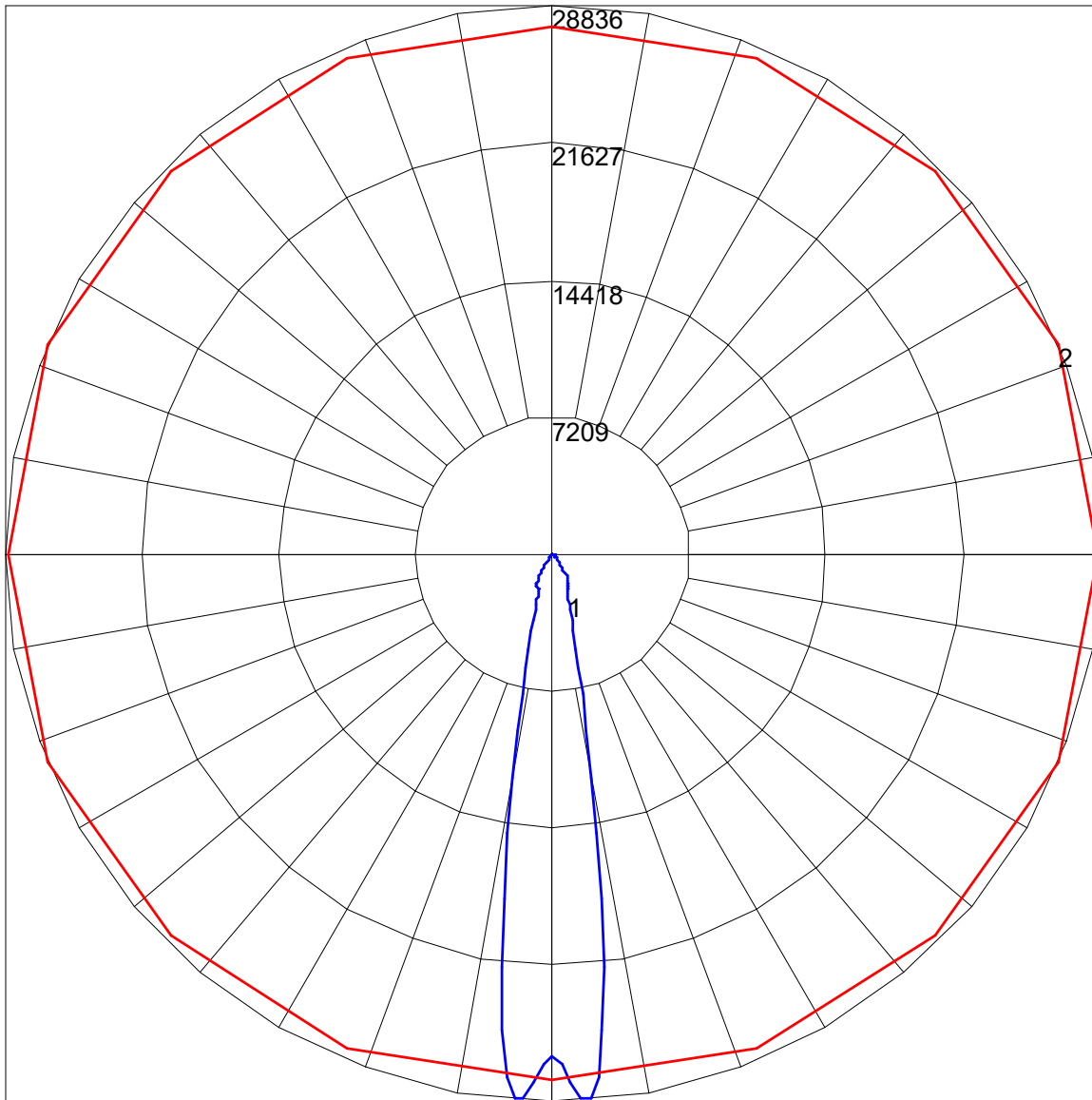
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 9.2 | 10.2 | 9.6 | 10.5 | 10.8 | 9.0 | 9.9 | 9.3 | 10.2 | 10.5 |
| | 3H | 10.1 | 10.9 | 10.5 | 11.3 | 11.6 | 9.9 | 10.7 | 10.3 | 11.0 | 11.4 |
| | 4H | 10.4 | 11.2 | 10.8 | 11.5 | 11.9 | 10.2 | 11.0 | 10.6 | 11.3 | 11.7 |
| | 6H | 10.6 | 11.3 | 11.0 | 11.7 | 12.1 | 10.4 | 11.1 | 10.8 | 11.5 | 11.9 |
| | 8H | 10.6 | 11.2 | 11.0 | 11.6 | 12.0 | 10.4 | 11.0 | 10.8 | 11.4 | 11.8 |
| | 12H | 10.5 | 11.1 | 11.0 | 11.5 | 12.0 | 10.3 | 11.0 | 10.8 | 11.3 | 11.8 |
| 4H | 2H | 9.4 | 10.2 | 9.9 | 10.6 | 11.0 | 9.2 | 10.0 | 9.6 | 10.3 | 10.7 |
| | 3H | 10.5 | 11.1 | 10.9 | 11.5 | 11.9 | 10.3 | 10.9 | 10.7 | 11.3 | 11.8 |
| | 4H | 10.9 | 11.5 | 11.4 | 11.9 | 12.3 | 10.8 | 11.3 | 11.2 | 11.7 | 12.2 |
| | 6H | 11.2 | 11.7 | 11.7 | 12.1 | 12.6 | 11.0 | 11.5 | 11.5 | 12.0 | 12.4 |
| | 8H | 11.2 | 11.6 | 11.6 | 12.1 | 12.5 | 11.0 | 11.5 | 11.5 | 11.9 | 12.4 |
| | 12H | 11.1 | 11.5 | 11.6 | 12.0 | 12.5 | 11.0 | 11.4 | 11.5 | 11.9 | 12.3 |
| 8H | 4H | 11.0 | 11.4 | 11.5 | 11.9 | 12.3 | 10.8 | 11.3 | 11.3 | 11.7 | 12.2 |
| | 6H | 11.3 | 11.7 | 11.8 | 12.2 | 12.7 | 11.2 | 11.5 | 11.7 | 12.1 | 12.5 |
| | 8H | 11.3 | 11.6 | 11.9 | 12.2 | 12.7 | 11.2 | 11.5 | 11.8 | 12.0 | 12.5 |
| | 12H | 11.3 | 11.6 | 11.8 | 12.1 | 12.6 | 11.2 | 11.4 | 11.7 | 11.9 | 12.5 |
| 12H | 4H | 10.9 | 11.3 | 11.4 | 11.8 | 12.3 | 10.8 | 11.2 | 11.3 | 11.7 | 12.1 |
| | 6H | 11.3 | 11.6 | 11.8 | 12.1 | 12.6 | 11.2 | 11.5 | 11.7 | 12.0 | 12.5 |
| | 8H | 11.3 | 11.6 | 11.8 | 12.1 | 12.7 | 11.2 | 11.5 | 11.7 | 12.0 | 12.5 |

Maximum UGR = 12.7

POLAR GRAPH



Maximum Candela = 28835.977 Located At Horizontal Angle = 22.5, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)