

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-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-L70-927-RDB-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 | 6526 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 102 |
| Total Luminaire Watts | 63.7 |
| 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 | 7044 | 7240 | 7333 |
| 55 | 7994 | 7771 | 7616 |
| 65 | 5902 | 5800 | 5633 |
| 75 | 4173 | 4177 | 4100 |
| 85 | 1145 | 1172 | 1145 |

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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 | 35273.36335273.36335273.36335273.36335273.36335273.363 | | | | |
| 1 | 35812.68635830.07535760.34635727.80635667.859 | | | | |
| 2 | 37041.65237085.23036856.89336730.82036497.788 | | | | |
| 3 | 38142.11938220.77637835.10037590.58537168.278 | | | | |
| 4 | 38206.24238323.96137832.20437533.17636928.645 | | | | |
| 5 | 36648.30536762.27436305.70035995.76335331.388 | | | | |
| 6 | 33458.52933585.83733260.64233020.49532390.093 | | | | |
| 7 | 29149.53429248.33029113.22128990.79328486.037 | | | | |
| 8 | 24333.86324451.11424456.97424531.94324139.427 | | | | |
| 9 | 19726.80019847.52220003.62120187.40219935.854 | | | | |
| 10 | 15756.29815881.17716115.63316359.44416211.721 | | | | |
| 11 | 12511.98912642.06712909.44813161.16713076.373 | | | | |
| 12 | 9990.676 10117.21710354.35810596.72110524.501 | | | | |
| 13 | 8090.411 8204.442 8412.858 8621.465 8543.384 | | | | |
| 14 | 6662.362 6828.881 6969.593 7133.321 7027.386 | | | | |
| 15 | 5649.118 5645.794 5841.210 5972.844 5947.421 | | | | |
| 16 | 4750.759 4816.907 4944.939 5048.571 4989.947 | | | | |
| 17 | 4137.192 4190.148 4295.698 4373.417 4322.847 | | | | |
| 18 | 3676.185 3718.976 3800.914 3865.016 3826.465 | | | | |
| 19 | 3338.138 3370.083 3433.843 3485.606 3453.662 | | | | |
| 20 | 3087.550 3114.998 3162.051 3211.683 3172.131 | | | | |
| 21 | 2923.716 2927.254 2973.433 3011.344 2965.911 | | | | |
| 22 | 2787.351 2798.305 2815.012 2853.669 2824.815 | | | | |
| 23 | 2692.286 2700.853 2711.550 2738.508 2709.568 | | | | |
| 24 | 2615.931 2619.426 2625.904 2639.564 2615.441 | | | | |
| 25 | 2551.339 2553.534 2552.256 2557.029 2528.153 | | | | |
| 26 | 2489.795 2487.685 2473.983 2476.881 2442.507 | | | | |
| 27 | 2419.854 2410.456 2388.592 2385.161 2352.002 | | | | |
| 28 | 2331.097 2318.652 2282.893 2271.896 2246.452 | | | | |
| 29 | 2215.786 2200.038 2152.878 2132.761 2111.707 | | | | |
| 30 | 2065.357 2046.881 1994.180 1969.886 1943.632 | | | | |
| 31 | 1876.249 1858.113 1807.075 1784.891 1753.160 | | | | |
| 32 | 1658.286 1643.284 1599.875 1587.216 1558.810 | | | | |
| 33 | 1414.496 1406.718 1379.398 1377.842 1362.818 | | | | |
| 34 | 1162.501 1162.053 1155.000 1169.938 1166.081 | | | | |
| 35 | 917.816 925.381 936.696 967.831 971.027 | | | | |
| 36 | 698.958 714.003 740.513 781.046 786.011 | | | | |
| 37 | 517.032 528.710 561.080 605.939 615.699 | | | | |
| 38 | 357.609 376.234 418.599 462.861 472.195 | | | | |
| 39 | 259.091 273.327 303.459 342.692 353.794 | | | | |
| 40 | 180.520 195.245 226.913 251.547 257.109 | | | | |
| 41 | 138.816 148.938 167.926 191.303 192.134 | | | | |
| 42 | 115.225 121.299 132.359 144.463 148.235 | | | | |
| 43 | 101.842 105.294 111.411 118.613 119.594 | | | | |
| 44 | 94.575 96.301 99.541 103.483 102.886 | | | | |
| 45 | 90.420 91.528 92.934 95.108 94.128 | | | | |
| 46 | 87.990 88.864 89.333 90.761 89.695 | | | | |
| 47 | 86.541 87.266 87.181 88.289 87.266 | | | | |
| 48 | 85.689 86.179 85.817 86.648 85.710 | | | | |
| 49 | 85.135 85.455 84.900 85.476 84.538 | | | | |
| 50 | 84.751 84.879 84.133 84.559 83.537 | | | | |
| 51 | 84.517 84.538 83.537 83.771 82.663 | | | | |
| 52 | 84.432 84.304 83.025 83.089 81.938 | | | | |
| 53 | 84.410 84.091 82.599 82.514 81.278 | | | | |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-XXX-DIM-UNV-S-XXX_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 54 | 84.282 | 83.771 | 82.087 | 81.789 | 80.489 |
| 55 | 83.238 | 82.684 | 80.915 | 80.489 | 79.296 |
| 56 | 81.278 | 80.702 | 78.848 | 78.294 | 77.399 |
| 57 | 78.550 | 78.166 | 76.142 | 75.588 | 74.799 |
| 58 | 75.417 | 75.098 | 73.031 | 72.413 | 71.965 |
| 59 | 71.645 | 71.432 | 69.365 | 68.811 | 68.470 |
| 60 | 67.405 | 67.255 | 65.359 | 64.847 | 64.506 |
| 61 | 62.951 | 62.759 | 61.118 | 60.671 | 60.159 |
| 62 | 58.348 | 58.113 | 56.792 | 56.408 | 55.663 |
| 63 | 53.830 | 53.468 | 52.509 | 52.168 | 51.251 |
| 64 | 49.440 | 49.035 | 48.396 | 48.076 | 47.032 |
| 65 | 45.284 | 44.944 | 44.496 | 44.219 | 43.217 |
| 66 | 41.363 | 41.150 | 40.852 | 40.639 | 39.659 |
| 67 | 37.890 | 37.741 | 37.570 | 37.357 | 36.547 |
| 68 | 34.821 | 34.693 | 34.629 | 34.416 | 33.713 |
| 69 | 32.008 | 31.987 | 31.923 | 31.795 | 31.156 |
| 70 | 29.472 | 29.536 | 29.515 | 29.408 | 28.833 |
| 71 | 27.235 | 27.277 | 27.277 | 27.213 | 26.702 |
| 72 | 25.189 | 25.231 | 25.210 | 25.168 | 24.656 |
| 73 | 23.250 | 23.292 | 23.271 | 23.228 | 22.802 |
| 74 | 21.396 | 21.438 | 21.417 | 21.417 | 21.033 |
| 75 | 19.606 | 19.627 | 19.627 | 19.648 | 19.265 |
| 76 | 17.815 | 17.879 | 17.879 | 17.901 | 17.560 |
| 77 | 16.068 | 16.111 | 16.153 | 16.175 | 15.919 |
| 78 | 14.278 | 14.278 | 14.363 | 14.406 | 14.257 |
| 79 | 12.403 | 12.403 | 12.552 | 12.616 | 12.467 |
| 80 | 10.399 | 10.421 | 10.549 | 10.698 | 10.570 |
| 81 | 8.034 | 8.204 | 8.226 | 8.396 | 8.268 |
| 82 | 4.603 | 4.795 | 4.965 | 5.008 | 5.008 |
| 83 | 2.174 | 2.216 | 2.408 | 2.536 | 2.621 |
| 84 | 1.982 | 1.982 | 2.003 | 2.003 | 1.939 |
| 85 | 1.811 | 1.833 | 1.854 | 1.854 | 1.811 |
| 86 | 1.641 | 1.641 | 1.641 | 1.641 | 1.620 |
| 87 | 1.385 | 1.406 | 1.406 | 1.385 | 1.364 |
| 88 | 1.087 | 1.087 | 1.108 | 1.087 | 1.066 |
| 89 | 0.725 | 0.703 | 0.725 | 0.725 | 0.703 |
| 90 | 0.362 | 0.405 | 0.426 | 0.469 | 0.426 |
| 91 | 0.362 | 0.362 | 0.384 | 0.384 | 0.362 |
| 92 | 0.384 | 0.362 | 0.384 | 0.384 | 0.362 |
| 93 | 0.384 | 0.362 | 0.384 | 0.384 | 0.384 |
| 94 | 0.405 | 0.384 | 0.405 | 0.405 | 0.384 |
| 95 | 0.405 | 0.405 | 0.405 | 0.405 | 0.405 |
| 96 | 0.405 | 0.405 | 0.405 | 0.405 | 0.405 |
| 97 | 0.426 | 0.426 | 0.405 | 0.426 | 0.405 |
| 98 | 0.426 | 0.448 | 0.426 | 0.426 | 0.426 |
| 99 | 0.426 | 0.448 | 0.448 | 0.448 | 0.426 |
| 100 | 0.469 | 0.448 | 0.448 | 0.469 | 0.426 |
| 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-L70-927-RDB-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 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-XXX-DIM-UNV-S-XXX_.IES****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-L70-927-RDB-XXX-DIM-UNV-S-XXX_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 4524.36 | N.A. | 69.30 |
| 0-30 | 5693.83 | N.A. | 87.20 |
| 0-40 | 6301.74 | N.A. | 96.60 |
| 0-60 | 6456.9 | N.A. | 98.90 |
| 0-80 | 6522.74 | N.A. | 99.90 |
| 0-90 | 6525.97 | N.A. | 100.00 |
| 10-90 | 3817.28 | N.A. | 58.50 |
| 20-40 | 1777.38 | N.A. | 27.20 |
| 20-50 | 1861.94 | N.A. | 28.50 |
| 40-70 | 200.21 | N.A. | 3.10 |
| 60-80 | 65.84 | N.A. | 1.00 |
| 70-80 | 20.79 | N.A. | 0.30 |
| 80-90 | 3.22 | N.A. | 0.00 |
| 90-110 | 0.47 | N.A. | 0.00 |
| 90-120 | 0.47 | N.A. | 0.00 |
| 90-130 | 0.47 | N.A. | 0.00 |
| 90-150 | 0.47 | N.A. | 0.00 |
| 90-180 | 0.47 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 6526.43 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 2708.69 |
| 10-20 | 1815.67 |
| 20-30 | 1169.48 |
| 30-40 | 607.90 |
| 40-50 | 84.56 |
| 50-60 | 70.60 |
| 60-70 | 45.05 |
| 70-80 | 20.79 |
| 80-90 | 3.22 |
| 90-100 | 0.44 |
| 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 | 111 | 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 | 97 | 93 | 90 | 95 | 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 | 86 | 83 | 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 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 74 | 79 | 76 | 74 | 73 |
| 10 | 87 | 80 | 76 | 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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 10.2 | 11.2 | 10.6 | 11.5 | 11.8 | 10.0 | 10.9 | 10.3 | 11.2 | 11.5 |
| | 3H | 11.1 | 11.9 | 11.5 | 12.3 | 12.6 | 10.9 | 11.7 | 11.3 | 12.0 | 12.4 |
| | 4H | 11.4 | 12.2 | 11.8 | 12.5 | 12.9 | 11.2 | 12.0 | 11.6 | 12.3 | 12.7 |
| | 6H | 11.6 | 12.3 | 12.0 | 12.7 | 13.1 | 11.4 | 12.1 | 11.8 | 12.5 | 12.9 |
| | 8H | 11.6 | 12.2 | 12.0 | 12.6 | 13.0 | 11.4 | 12.0 | 11.8 | 12.4 | 12.8 |
| | 12H | 11.5 | 12.1 | 12.0 | 12.5 | 13.0 | 11.3 | 12.0 | 11.8 | 12.3 | 12.8 |

UGR Viewed Endwise

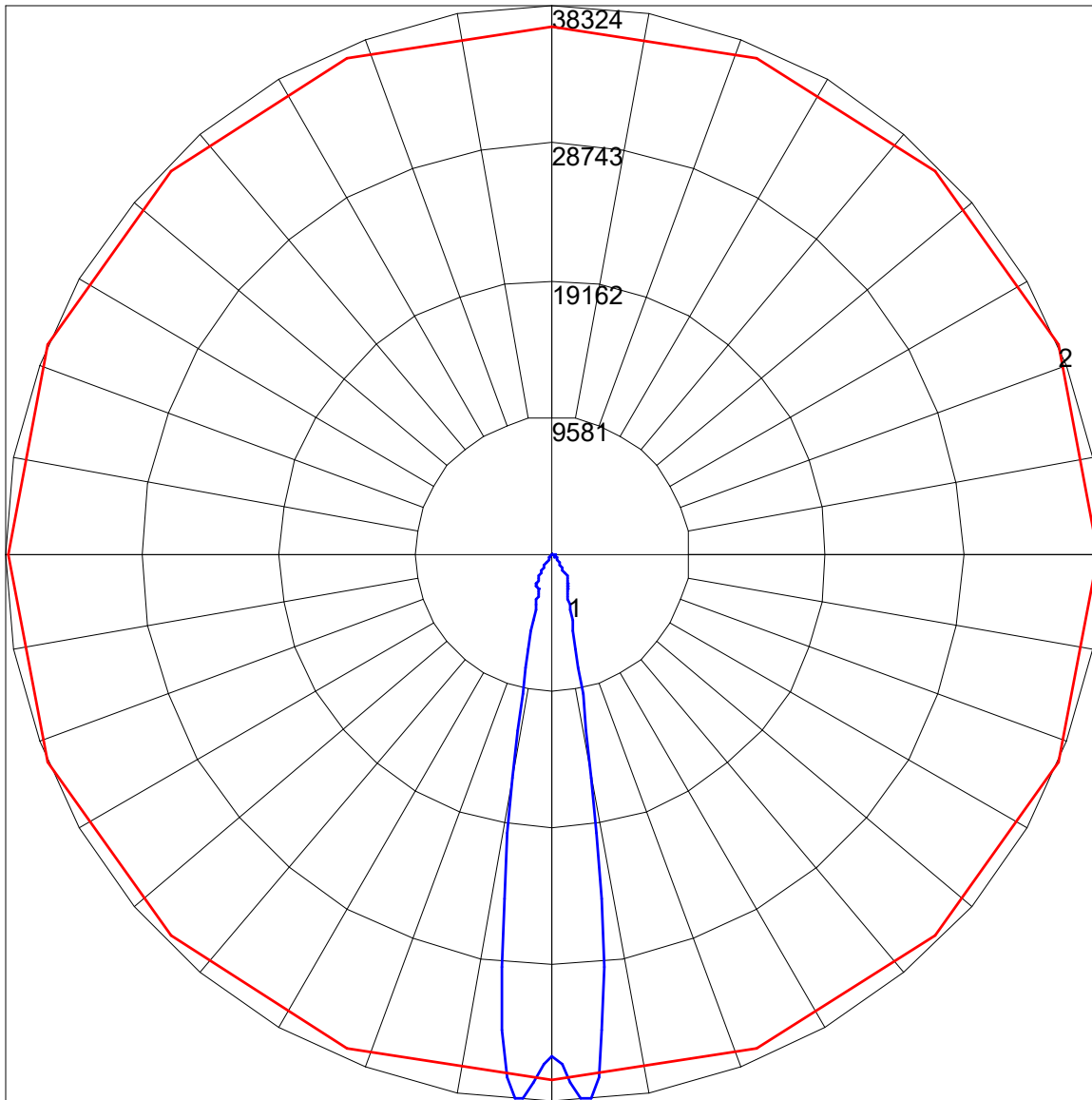
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 10.4 | 11.2 | 10.9 | 11.6 | 12.0 | 10.2 | 11.0 | 10.6 | 11.3 | 11.7 |
| | 3H | 11.5 | 12.1 | 11.9 | 12.5 | 12.9 | 11.3 | 11.9 | 11.7 | 12.3 | 12.8 |
| | 4H | 11.9 | 12.5 | 12.4 | 12.9 | 13.3 | 11.8 | 12.3 | 12.2 | 12.7 | 13.2 |
| | 6H | 12.2 | 12.7 | 12.7 | 13.1 | 13.6 | 12.0 | 12.5 | 12.5 | 13.0 | 13.4 |
| | 8H | 12.2 | 12.6 | 12.6 | 13.1 | 13.5 | 12.0 | 12.5 | 12.5 | 12.9 | 13.4 |
| | 12H | 12.1 | 12.5 | 12.6 | 13.0 | 13.5 | 12.0 | 12.4 | 12.5 | 12.9 | 13.3 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 12.0 | 12.4 | 12.5 | 12.9 | 13.3 | 11.8 | 12.3 | 12.3 | 12.7 | 13.2 |
| | 6H | 12.3 | 12.7 | 12.8 | 13.2 | 13.7 | 12.2 | 12.5 | 12.7 | 13.1 | 13.5 |
| | 8H | 12.3 | 12.6 | 12.9 | 13.2 | 13.7 | 12.2 | 12.5 | 12.8 | 13.0 | 13.5 |
| | 12H | 12.3 | 12.6 | 12.8 | 13.1 | 13.6 | 12.2 | 12.4 | 12.7 | 12.9 | 13.5 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 11.9 | 12.3 | 12.4 | 12.8 | 13.3 | 11.8 | 12.2 | 12.3 | 12.7 | 13.1 |
| | 6H | 12.3 | 12.6 | 12.8 | 13.1 | 13.6 | 12.2 | 12.5 | 12.7 | 13.0 | 13.5 |
| | 8H | 12.3 | 12.6 | 12.8 | 13.1 | 13.7 | 12.2 | 12.5 | 12.7 | 13.0 | 13.5 |

Maximum UGR = 13.7

POLAR GRAPH



Maximum Candela = 38323.961 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.)