

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-930-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-L50-930-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                | 4404              |
| Total Luminaire Efficiency      | N.A.              |
| Luminaire Efficacy Rating (LER) | 98                |
| Total Luminaire Watts           | 45                |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 17157            | 17156             | 16805             |
| 55                  | 10258            | 10087             | 9792              |
| 65                  | 6081             | 5987              | 5831              |
| 75                  | 4008             | 3964              | 3899              |
| 85                  | 983              | 983               | 973               |

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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  | 10909.600  | 10909.600   | 10909.600   | 10909.600   | 10909.600   |
| 1  | 10860.683  | 10864.803   | 10872.255   | 10881.600   | 10883.427   |
| 2  | 10722.619  | 10737.765   | 10768.507   | 10802.341   | 10812.391   |
| 3  | 10497.682  | 10528.296   | 10595.020   | 10667.947   | 10688.768   |
| 4  | 10190.346  | 10238.766   | 10348.926   | 10455.064   | 10486.511   |
| 5  | 9805.114   | 9867.848    | 10011.218   | 10145.724   | 10181.050   |
| 6  | 9349.696   | 9422.367    | 9581.701    | 9735.698    | 9772.402    |
| 7  | 8839.286   | 8914.265    | 9081.180    | 9232.532    | 9271.961    |
| 8  | 8280.472   | 8356.204    | 8514.881    | 8665.271    | 8696.125    |
| 9  | 7700.613   | 7774.678    | 7921.238    | 8061.802    | 8094.291    |
| 10 | 7129.393   | 7193.248    | 7329.582    | 7455.305    | 7490.502    |
| 11 | 6569.904   | 6622.188    | 6745.779    | 6858.216    | 6890.223    |
| 12 | 6036.430   | 6081.437    | 6192.142    | 6293.198    | 6316.583    |
| 13 | 5547.354   | 5583.401    | 5679.600    | 5771.841    | 5785.369    |
| 14 | 5093.763   | 5130.899    | 5211.504    | 5298.263    | 5296.452    |
| 15 | 4694.090   | 4717.410    | 4794.425    | 4857.991    | 4862.063    |
| 16 | 4316.311   | 4341.619    | 4416.870    | 4474.459    | 4487.265    |
| 17 | 3992.194   | 4017.390    | 4078.184    | 4124.344    | 4138.048    |
| 18 | 3713.564   | 3734.015    | 3788.494    | 3824.862    | 3839.944    |
| 19 | 3472.279   | 3491.272    | 3537.449    | 3567.052    | 3581.590    |
| 20 | 3268.195   | 3284.944    | 3321.745    | 3350.499    | 3354.378    |
| 21 | 3092.417   | 3105.351    | 3134.586    | 3162.026    | 3161.561    |
| 22 | 2942.411   | 2949.976    | 2972.656    | 2997.403    | 3003.061    |
| 23 | 2814.364   | 2815.710    | 2834.623    | 2851.292    | 2860.749    |
| 24 | 2696.334   | 2695.565    | 2711.705    | 2721.241    | 2732.894    |
| 25 | 2590.598   | 2588.129    | 2596.913    | 2601.673    | 2609.206    |
| 26 | 2488.996   | 2483.867    | 2485.182    | 2487.329    | 2489.381    |
| 27 | 2386.450   | 2376.384    | 2371.063    | 2368.691    | 2370.229    |
| 28 | 2273.421   | 2260.807    | 2246.045    | 2247.167    | 2245.740    |
| 29 | 2142.055   | 2130.916    | 2106.025    | 2097.305    | 2098.027    |
| 30 | 2002.660   | 1981.744    | 1951.547    | 1933.981    | 1940.248    |
| 31 | 1829.671   | 1810.742    | 1781.362    | 1764.437    | 1758.346    |
| 32 | 1636.582   | 1621.323    | 1595.134    | 1582.247    | 1575.740    |
| 33 | 1427.962   | 1417.288    | 1401.644    | 1396.531    | 1395.986    |
| 34 | 1214.983   | 1210.014    | 1207.482    | 1214.710    | 1222.708    |
| 35 | 1009.633   | 1010.899    | 1019.442    | 1039.861    | 1053.373    |
| 36 | 824.574    | 828.645     | 848.840     | 875.222     | 889.167     |
| 37 | 662.435    | 670.786     | 695.998     | 726.018     | 736.019     |
| 38 | 530.717    | 548.492     | 567.245     | 596.544     | 602.058     |
| 39 | 440.512    | 452.742     | 468.978     | 492.635     | 493.613     |
| 40 | 362.087    | 370.999     | 391.499     | 408.408     | 415.316     |
| 41 | 314.132    | 320.287     | 331.602     | 341.748     | 344.825     |
| 42 | 281.034    | 284.192     | 290.619     | 295.812     | 297.030     |
| 43 | 256.223    | 257.778     | 260.663     | 262.490     | 261.576     |
| 44 | 236.781    | 237.150     | 238.352     | 237.470     | 236.573     |
| 45 | 220.240    | 220.513     | 220.224     | 218.557     | 215.720     |
| 46 | 205.607    | 205.334     | 204.212     | 201.872     | 199.772     |
| 47 | 191.806    | 191.470     | 189.867     | 187.495     | 185.491     |
| 48 | 178.904    | 178.535     | 176.788     | 174.288     | 172.381     |
| 49 | 166.691    | 166.258     | 164.527     | 162.059     | 160.199     |
| 50 | 155.038    | 154.558     | 152.939     | 150.518     | 148.803     |
| 51 | 144.155    | 143.626     | 142.040     | 139.796     | 138.145     |
| 52 | 133.817    | 133.337     | 131.782     | 129.730     | 128.111     |
| 53 | 124.233    | 123.752     | 122.341     | 120.402     | 118.815     |

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**CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|
| 54  | 115.321 | 114.824 | 113.462 | 111.619 | 110.096 |
| 55  | 106.810 | 106.313 | 105.031 | 103.252 | 101.954 |
| 56  | 98.460  | 97.995  | 96.809  | 95.222  | 94.020  |
| 57  | 90.558  | 90.157  | 89.019  | 87.593  | 86.535  |
| 58  | 83.345  | 82.961  | 81.967  | 80.605  | 79.723  |
| 59  | 76.614  | 76.245  | 75.395  | 74.145  | 73.344  |
| 60  | 70.459  | 70.138  | 69.321  | 68.263  | 67.510  |
| 61  | 64.833  | 64.512  | 63.791  | 62.798  | 62.060  |
| 62  | 59.704  | 59.351  | 58.710  | 57.877  | 57.156  |
| 63  | 54.944  | 54.687  | 54.078  | 53.357  | 52.668  |
| 64  | 50.584  | 50.328  | 49.815  | 49.142  | 48.549  |
| 65  | 46.657  | 46.353  | 45.936  | 45.311  | 44.734  |
| 66  | 42.907  | 42.666  | 42.266  | 41.737  | 41.208  |
| 67  | 39.477  | 39.252  | 38.916  | 38.451  | 37.986  |
| 68  | 36.367  | 36.127  | 35.838  | 35.406  | 34.989  |
| 69  | 33.354  | 33.210  | 32.905  | 32.553  | 32.136  |
| 70  | 30.613  | 30.437  | 30.197  | 29.876  | 29.507  |
| 71  | 28.017  | 27.841  | 27.648  | 27.360  | 27.039  |
| 72  | 25.597  | 25.404  | 25.244  | 24.972  | 24.715  |
| 73  | 23.241  | 23.080  | 22.936  | 22.712  | 22.487  |
| 74  | 20.997  | 20.868  | 20.724  | 20.548  | 20.339  |
| 75  | 18.833  | 18.737  | 18.624  | 18.496  | 18.320  |
| 76  | 16.717  | 16.653  | 16.573  | 16.461  | 16.332  |
| 77  | 14.666  | 14.634  | 14.585  | 14.537  | 14.425  |
| 78  | 12.646  | 12.614  | 12.630  | 12.598  | 12.550  |
| 79  | 10.643  | 10.643  | 10.691  | 10.739  | 10.675  |
| 80  | 8.655   | 8.671   | 8.719   | 8.847   | 8.783   |
| 81  | 6.539   | 6.604   | 6.636   | 6.748   | 6.684   |
| 82  | 3.783   | 3.879   | 4.007   | 4.023   | 4.071   |
| 83  | 1.859   | 1.875   | 2.036   | 2.132   | 2.292   |
| 84  | 1.699   | 1.683   | 1.683   | 1.699   | 1.683   |
| 85  | 1.555   | 1.571   | 1.555   | 1.555   | 1.539   |
| 86  | 1.394   | 1.394   | 1.394   | 1.394   | 1.378   |
| 87  | 1.186   | 1.186   | 1.186   | 1.186   | 1.170   |
| 88  | 0.930   | 0.930   | 0.914   | 0.914   | 0.914   |
| 89  | 0.609   | 0.609   | 0.609   | 0.609   | 0.609   |
| 90  | 0.321   | 0.353   | 0.369   | 0.385   | 0.401   |
| 91  | 0.321   | 0.321   | 0.321   | 0.321   | 0.305   |
| 92  | 0.321   | 0.337   | 0.337   | 0.321   | 0.321   |
| 93  | 0.337   | 0.337   | 0.337   | 0.337   | 0.321   |
| 94  | 0.337   | 0.337   | 0.337   | 0.337   | 0.337   |
| 95  | 0.353   | 0.353   | 0.353   | 0.337   | 0.337   |
| 96  | 0.369   | 0.369   | 0.369   | 0.353   | 0.353   |
| 97  | 0.369   | 0.385   | 0.385   | 0.369   | 0.369   |
| 98  | 0.401   | 0.401   | 0.401   | 0.385   | 0.385   |
| 99  | 0.433   | 0.417   | 0.417   | 0.417   | 0.417   |
| 100 | 0.433   | 0.417   | 0.417   | 0.417   | 0.433   |
| 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   |

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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    | 2213.51 | N.A.  | 50.30  |
| 0-30    | 3404.09 | N.A.  | 77.30  |
| 0-40    | 4061.04 | N.A.  | 92.20  |
| 0-60    | 4334.97 | N.A.  | 98.40  |
| 0-80    | 4401.36 | N.A.  | 99.90  |
| 0-90    | 4404.03 | N.A.  | 100.00 |
| 10-90   | 3538.43 | N.A.  | 80.30  |
| 20-40   | 1847.53 | N.A.  | 41.90  |
| 20-50   | 2026.56 | N.A.  | 46.00  |
| 40-70   | 320.43  | N.A.  | 7.30   |
| 60-80   | 66.39   | N.A.  | 1.50   |
| 70-80   | 19.89   | N.A.  | 0.50   |
| 80-90   | 2.67    | N.A.  | 0.10   |
| 90-110  | 0.42    | N.A.  | 0.00   |
| 90-120  | 0.42    | N.A.  | 0.00   |
| 90-130  | 0.42    | N.A.  | 0.00   |
| 90-150  | 0.42    | N.A.  | 0.00   |
| 90-180  | 0.42    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 4404.45 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 865.61  |
| 10-20   | 1347.9  |
| 20-30   | 1190.59 |
| 30-40   | 656.95  |
| 40-50   | 179.03  |
| 50-60   | 94.90   |
| 60-70   | 46.50   |
| 70-80   | 19.89   |
| 80-90   | 2.67    |
| 90-100  | 0.39    |
| 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  | 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  | 92  | 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  | 80  | 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

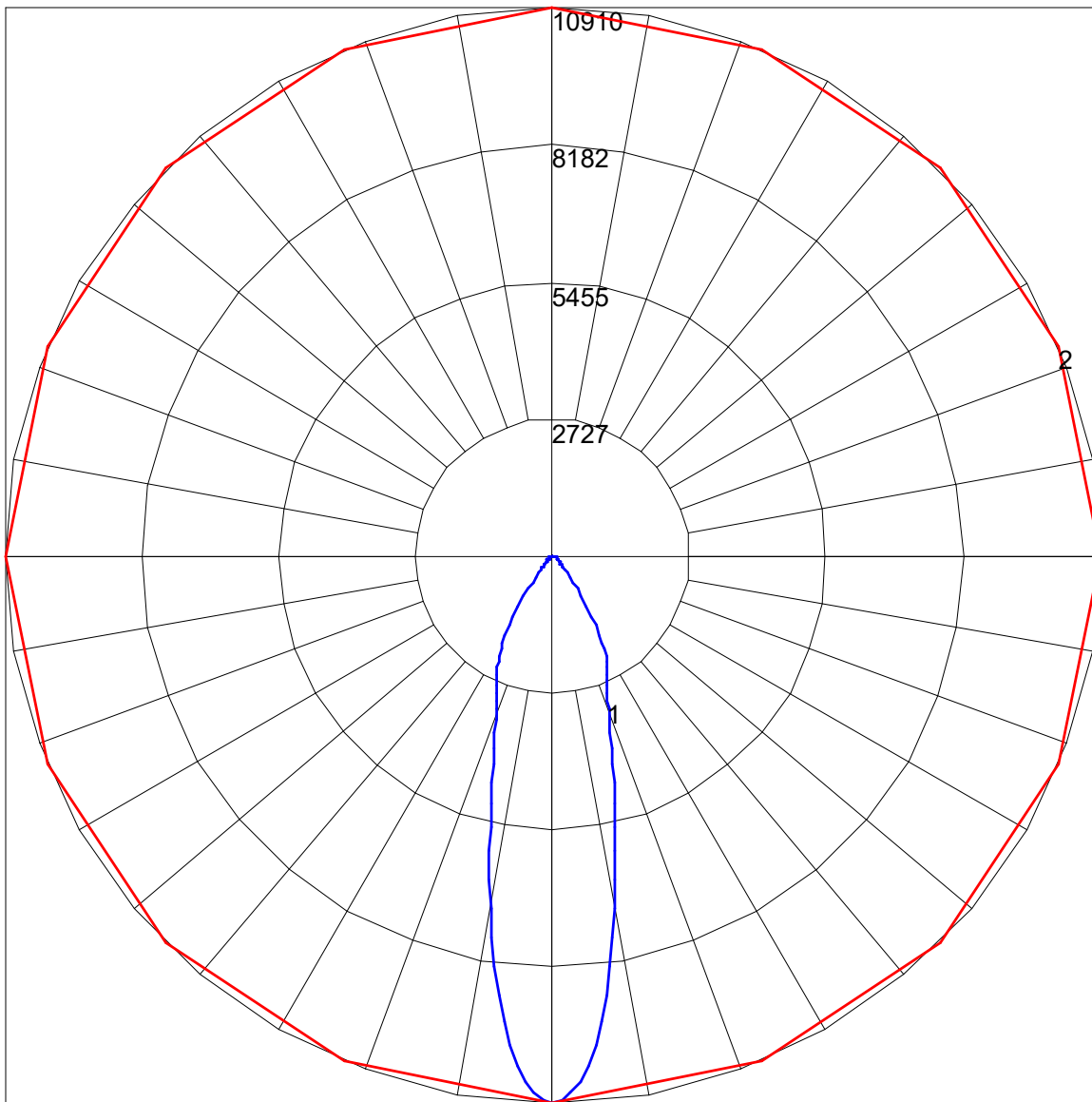
|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls          | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity   | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Room Size |      | UGR Viewed Crosswise |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 12.3                 | 13.3 | 12.6 | 13.6 | 13.9 | 12.1               | 13.0 | 12.4 | 13.4 | 13.7 |
|           | 3H   | 13.0                 | 13.9 | 13.4 | 14.2 | 14.6 | 12.8               | 13.7 | 13.2 | 14.0 | 14.4 |
|           | 4H   | 13.3                 | 14.1 | 13.7 | 14.4 | 14.8 | 13.0               | 13.8 | 13.4 | 14.2 | 14.6 |
|           | 6H   | 13.4                 | 14.1 | 13.8 | 14.5 | 14.8 | 13.2               | 13.9 | 13.6 | 14.3 | 14.6 |
|           | 8H   | 13.3                 | 14.0 | 13.7 | 14.4 | 14.8 | 13.1               | 13.8 | 13.5 | 14.2 | 14.6 |
|           | 12H  | 13.3                 | 13.9 | 13.7 | 14.3 | 14.7 | 13.1               | 13.7 | 13.5 | 14.1 | 14.5 |
| 4H        | 2H   | 12.4                 | 13.2 | 12.8 | 13.6 | 14.0 | 12.2               | 13.0 | 12.6 | 13.4 | 13.8 |
|           | 3H   | 13.4                 | 14.0 | 13.8 | 14.4 | 14.8 | 13.2               | 13.8 | 13.6 | 14.2 | 14.6 |
|           | 4H   | 13.7                 | 14.2 | 14.1 | 14.7 | 15.1 | 13.5               | 14.1 | 13.9 | 14.5 | 14.9 |
|           | 6H   | 13.8                 | 14.3 | 14.3 | 14.8 | 15.2 | 13.7               | 14.1 | 14.1 | 14.6 | 15.1 |
|           | 8H   | 13.8                 | 14.2 | 14.3 | 14.7 | 15.2 | 13.6               | 14.1 | 14.1 | 14.5 | 15.0 |
|           | 12H  | 13.7                 | 14.1 | 14.2 | 14.6 | 15.1 | 13.6               | 14.0 | 14.1 | 14.5 | 14.9 |
| 8H        | 4H   | 13.7                 | 14.1 | 14.2 | 14.6 | 15.1 | 13.5               | 14.0 | 14.0 | 14.4 | 14.9 |
|           | 6H   | 13.9                 | 14.2 | 14.4 | 14.8 | 15.2 | 13.7               | 14.1 | 14.2 | 14.6 | 15.1 |
|           | 8H   | 13.9                 | 14.2 | 14.4 | 14.7 | 15.2 | 13.7               | 14.0 | 14.2 | 14.6 | 15.1 |
|           | 12H  | 13.8                 | 14.1 | 14.3 | 14.6 | 15.2 | 13.7               | 13.9 | 14.2 | 14.4 | 15.0 |
| 12H       | 4H   | 13.6                 | 14.0 | 14.1 | 14.5 | 15.0 | 13.5               | 13.9 | 14.0 | 14.4 | 14.8 |
|           | 6H   | 13.8                 | 14.2 | 14.4 | 14.6 | 15.2 | 13.7               | 14.0 | 14.2 | 14.5 | 15.0 |
|           | 8H   | 13.8                 | 14.1 | 14.4 | 14.6 | 15.2 | 13.7               | 14.0 | 14.2 | 14.5 | 15.0 |

Maximum UGR = 15.2



POLAR GRAPH



Maximum Candela = 10909.6 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.)