

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-950-XXX-DIM-UNV-W-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM W6CR_Angela-XW_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L50-950-xxx-DIM-UNV-W-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH WIDE DIST.
[LAMPCAT] BL VERO 22
[LAMP] LED
[OTHER] Absolute Photometry

CHARACTERISTICS

| | |
|---|--------------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4862 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 108 |
| Total Luminaire Watts | 45 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 3930.321 |
| Maximum Candela Angle | 90H 5V |
| Maximum Candela (<90 Degrees Vertical) | 3930.321 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 5V |
| Maximum Candela At 90 Degrees Vertical | 1.346 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 25.027 (0.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-950-XXX-DIM-UNV-W-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1275.8 | N.A. | 26.2 |
| FM - Front-Medium (30-60) | 987.4 | N.A. | 20.3 |
| FH - Front-High (60-80) | 162.5 | N.A. | 3.3 |
| FVH - Front-Very High (80-90) | 4.6 | N.A. | 0.1 |
| BL - Back-Low (0-30) | 1275.8 | N.A. | 26.2 |
| BM - Back-Medium (30-60) | 987.4 | N.A. | 20.3 |
| BH - Back-High (60-80) | 162.5 | N.A. | 3.3 |
| BVH - Back-Very High (80-90) | 4.6 | N.A. | 0.1 |
| UL - Uplight-Low (90-100) | 1.3 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.1 | N.A. | 0.0 |
| Total | 4862.0 | N.A. | 100.0 |
| BUG Rating | B3-U1-G0 | | |

IES ROAD REPORT
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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
| 0 | 3896.163 | 3896.163 | 3896.163 | 3896.163 | 3896.163 |
| 1 | 3899.877 | 3900.688 | 3905.830 | 3905.489 | 3903.673 |
| 2 | 3888.864 | 3893.341 | 3904.776 | 3909.739 | 3907.647 |
| 3 | 3872.061 | 3880.609 | 3905.441 | 3918.530 | 3918.027 |
| 4 | 3850.002 | 3865.297 | 3905.003 | 3929.251 | 3929.170 |
| 5 | 3820.369 | 3845.169 | 3898.758 | 3930.046 | 3930.321 |
| 6 | 3788.011 | 3818.163 | 3882.441 | 3917.881 | 3917.005 |
| 7 | 3749.263 | 3784.508 | 3852.792 | 3889.432 | 3886.691 |
| 8 | 3706.751 | 3743.067 | 3812.032 | 3848.737 | 3841.779 |
| 9 | 3658.076 | 3695.089 | 3761.784 | 3796.689 | 3788.530 |
| 10 | 3605.395 | 3642.814 | 3703.004 | 3735.703 | 3728.712 |
| 11 | 3550.849 | 3584.391 | 3634.882 | 3664.921 | 3659.682 |
| 12 | 3493.805 | 3521.151 | 3564.230 | 3588.202 | 3580.904 |
| 13 | 3436.679 | 3454.862 | 3491.858 | 3512.035 | 3497.422 |
| 14 | 3374.364 | 3388.897 | 3418.643 | 3433.062 | 3414.426 |
| 15 | 3310.345 | 3322.526 | 3345.526 | 3355.176 | 3337.383 |
| 16 | 3244.283 | 3254.372 | 3273.235 | 3278.539 | 3263.649 |
| 17 | 3176.680 | 3188.488 | 3203.767 | 3201.480 | 3192.332 |
| 18 | 3114.932 | 3123.902 | 3137.867 | 3130.519 | 3124.713 |
| 19 | 3054.158 | 3059.656 | 3070.929 | 3061.846 | 3056.331 |
| 20 | 2997.405 | 3001.233 | 3007.575 | 3001.947 | 2989.263 |
| 21 | 2942.956 | 2943.427 | 2947.157 | 2943.962 | 2929.121 |
| 22 | 2893.097 | 2887.388 | 2889.918 | 2887.696 | 2878.143 |
| 23 | 2845.185 | 2835.810 | 2838.697 | 2834.739 | 2828.414 |
| 24 | 2799.543 | 2790.590 | 2792.844 | 2783.680 | 2778.685 |
| 25 | 2756.691 | 2746.100 | 2745.289 | 2733.740 | 2725.420 |
| 26 | 2709.687 | 2701.204 | 2694.343 | 2680.313 | 2669.154 |
| 27 | 2656.681 | 2645.668 | 2633.601 | 2618.030 | 2605.006 |
| 28 | 2589.030 | 2576.330 | 2557.158 | 2536.413 | 2529.812 |
| 29 | 2501.266 | 2486.181 | 2460.327 | 2435.025 | 2429.526 |
| 30 | 2387.015 | 2368.054 | 2340.043 | 2310.783 | 2302.430 |
| 31 | 2243.456 | 2223.344 | 2193.808 | 2164.823 | 2154.216 |
| 32 | 2074.805 | 2057.564 | 2032.391 | 2006.877 | 2000.973 |
| 33 | 1885.766 | 1873.991 | 1858.825 | 1842.200 | 1847.699 |
| 34 | 1689.282 | 1684.060 | 1682.324 | 1679.697 | 1692.299 |
| 35 | 1498.962 | 1499.027 | 1508.726 | 1520.648 | 1537.548 |
| 36 | 1325.948 | 1330.084 | 1349.369 | 1369.530 | 1387.972 |
| 37 | 1174.393 | 1182.032 | 1206.313 | 1230.545 | 1248.532 |
| 38 | 1050.686 | 1060.759 | 1085.785 | 1109.385 | 1124.501 |
| 39 | 958.105 | 968.988 | 990.998 | 1010.218 | 1022.497 |
| 40 | 891.605 | 900.639 | 917.832 | 931.375 | 941.610 |
| 41 | 844.941 | 851.705 | 863.594 | 871.849 | 879.262 |
| 42 | 812.145 | 815.438 | 823.175 | 827.830 | 831.593 |
| 43 | 786.032 | 787.216 | 792.066 | 793.996 | 794.061 |
| 44 | 762.724 | 763.016 | 765.741 | 765.693 | 763.892 |
| 45 | 741.136 | 740.747 | 742.044 | 740.796 | 738.719 |
| 46 | 719.191 | 718.672 | 719.434 | 717.537 | 715.088 |
| 47 | 696.565 | 696.046 | 696.094 | 694.310 | 691.845 |
| 48 | 673.420 | 672.771 | 672.479 | 670.597 | 668.148 |
| 49 | 649.463 | 648.523 | 648.701 | 646.446 | 644.111 |
| 50 | 624.550 | 623.820 | 623.885 | 621.793 | 619.490 |
| 51 | 599.345 | 598.891 | 598.810 | 596.750 | 594.755 |
| 52 | 573.864 | 573.588 | 573.556 | 571.642 | 569.598 |

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|---------|---------|---------|---------|---------|
| 53 | 548.805 | 548.351 | 548.334 | 546.583 | 544.458 |
| 54 | 523.794 | 523.243 | 522.999 | 521.021 | 518.847 |
| 55 | 498.394 | 497.454 | 497.340 | 494.988 | 492.961 |
| 56 | 471.081 | 470.464 | 470.286 | 467.918 | 465.923 |
| 57 | 444.010 | 443.053 | 442.729 | 440.361 | 438.398 |
| 58 | 417.070 | 416.031 | 415.594 | 413.274 | 411.717 |
| 59 | 390.226 | 389.253 | 388.766 | 386.463 | 384.987 |
| 60 | 364.161 | 363.123 | 362.718 | 360.447 | 359.020 |
| 61 | 338.648 | 337.594 | 337.432 | 335.177 | 333.993 |
| 62 | 314.092 | 313.021 | 312.778 | 310.799 | 309.664 |
| 63 | 290.054 | 289.178 | 288.919 | 287.183 | 286.113 |
| 64 | 266.682 | 266.033 | 265.855 | 264.298 | 263.405 |
| 65 | 244.575 | 243.974 | 243.926 | 242.531 | 241.979 |
| 66 | 222.938 | 222.662 | 222.678 | 221.332 | 220.829 |
| 67 | 202.598 | 202.355 | 202.177 | 201.090 | 200.749 |
| 68 | 183.086 | 182.794 | 182.762 | 181.837 | 181.627 |
| 69 | 164.255 | 164.061 | 164.077 | 163.298 | 163.331 |
| 70 | 146.592 | 146.495 | 146.365 | 145.798 | 145.846 |
| 71 | 129.838 | 129.821 | 129.610 | 129.270 | 129.335 |
| 72 | 114.169 | 114.186 | 114.088 | 113.715 | 114.023 |
| 73 | 99.475 | 99.458 | 99.426 | 99.134 | 99.410 |
| 74 | 85.866 | 85.801 | 85.866 | 85.688 | 85.915 |
| 75 | 73.247 | 73.231 | 73.296 | 73.199 | 73.345 |
| 76 | 61.521 | 61.488 | 61.602 | 61.521 | 61.683 |
| 77 | 50.800 | 50.783 | 51.010 | 50.881 | 51.059 |
| 78 | 41.019 | 40.987 | 41.263 | 41.214 | 41.392 |
| 79 | 32.293 | 32.261 | 32.520 | 32.634 | 32.699 |
| 80 | 24.556 | 24.589 | 24.865 | 24.978 | 25.027 |
| 81 | 17.809 | 17.874 | 18.085 | 18.279 | 18.328 |
| 82 | 11.743 | 11.840 | 12.084 | 12.262 | 12.392 |
| 83 | 8.045 | 8.126 | 8.531 | 8.759 | 8.856 |
| 84 | 7.461 | 7.461 | 7.477 | 7.493 | 7.429 |
| 85 | 6.910 | 6.910 | 6.910 | 6.910 | 6.845 |
| 86 | 6.196 | 6.196 | 6.180 | 6.163 | 6.115 |
| 87 | 5.206 | 5.223 | 5.206 | 5.206 | 5.142 |
| 88 | 3.974 | 3.958 | 3.941 | 3.941 | 3.893 |
| 89 | 2.417 | 2.417 | 2.400 | 2.417 | 2.368 |
| 90 | 0.973 | 1.054 | 1.249 | 1.346 | 1.346 |
| 91 | 0.876 | 0.892 | 0.892 | 0.908 | 0.876 |
| 92 | 0.941 | 0.941 | 0.941 | 0.941 | 0.925 |
| 93 | 0.989 | 0.989 | 1.006 | 0.989 | 0.973 |
| 94 | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 |
| 95 | 1.119 | 1.119 | 1.135 | 1.135 | 1.119 |
| 96 | 1.184 | 1.200 | 1.200 | 1.200 | 1.184 |
| 97 | 1.265 | 1.265 | 1.281 | 1.281 | 1.265 |
| 98 | 1.362 | 1.346 | 1.346 | 1.362 | 1.362 |
| 99 | 1.476 | 1.444 | 1.444 | 1.460 | 1.427 |
| 100 | 1.508 | 1.525 | 1.525 | 1.541 | 1.508 |
| 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 |

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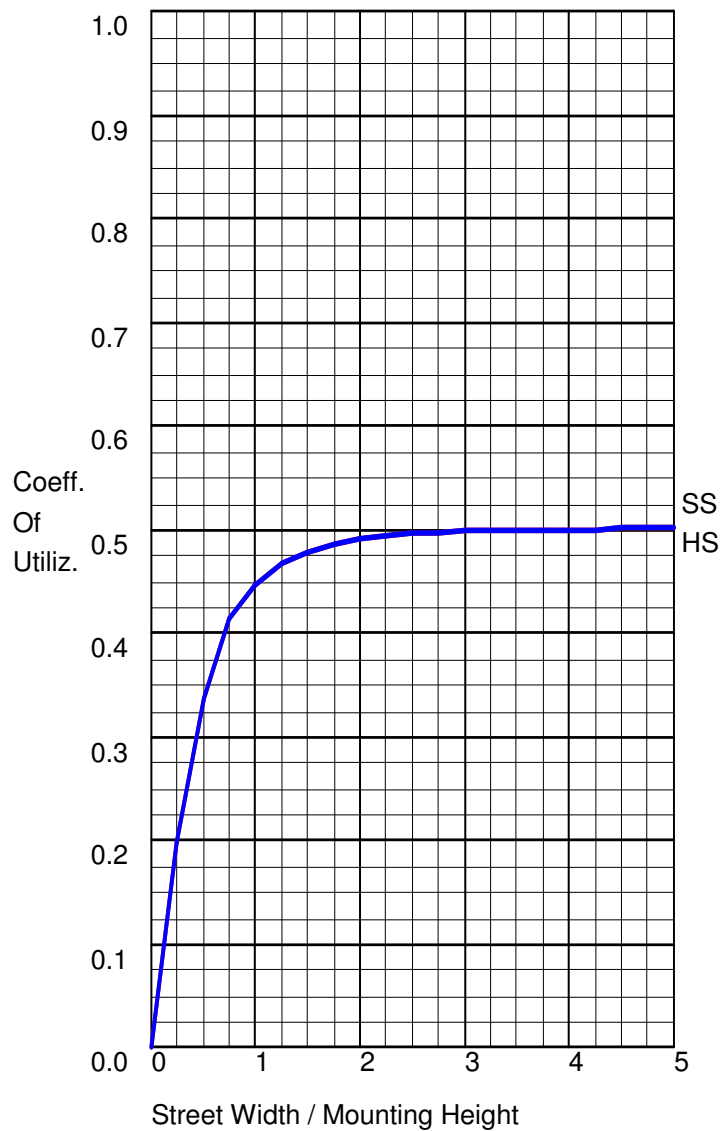
CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 109 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-950-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 |

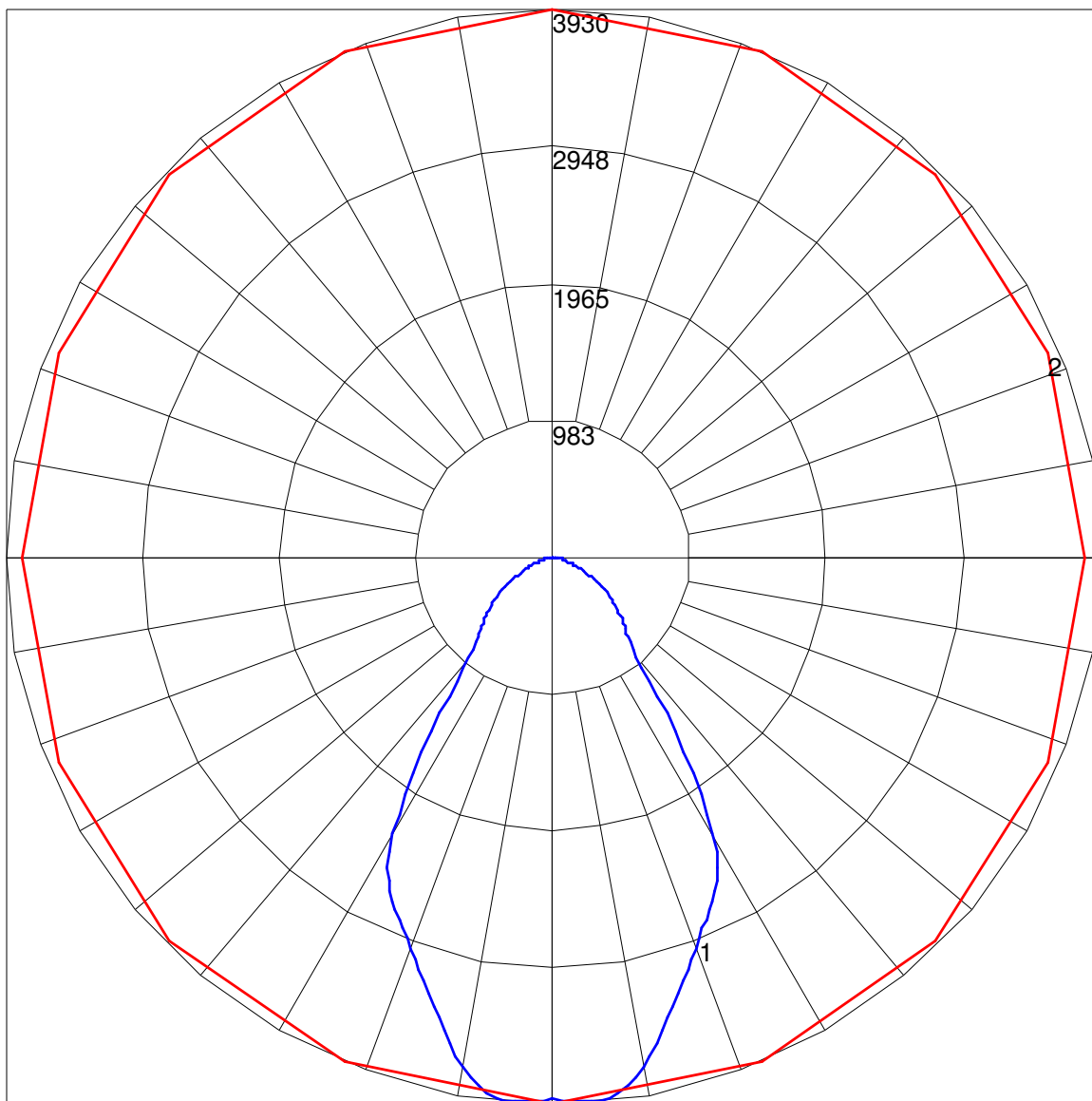
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

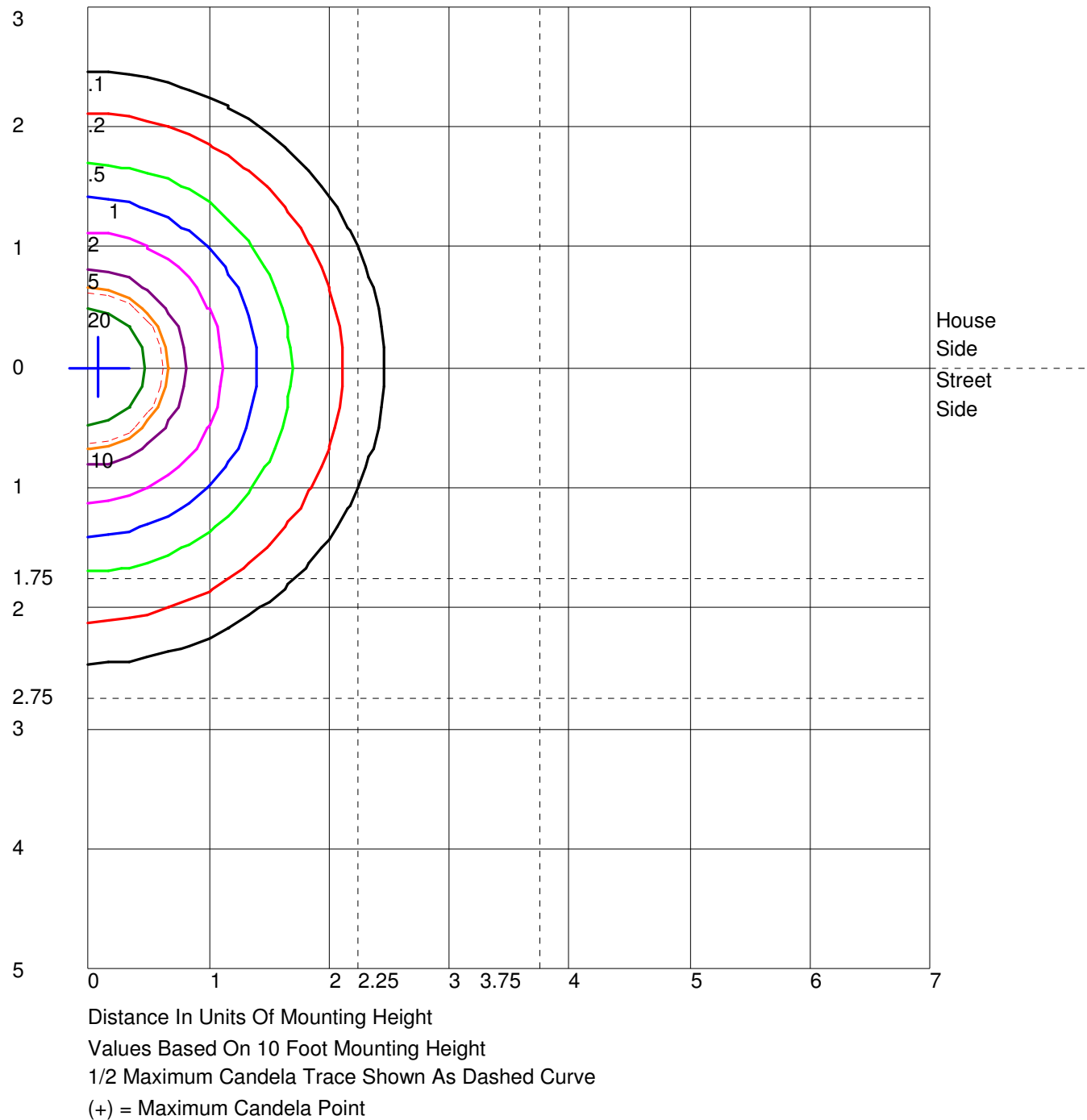
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 2430.3 | 50.0 |
| Downward House Side | 2430.3 | 50.0 |
| Downward Total | 4860.6 | 100.0 |
| Upward Street Side | 0.7 | 0.0 |
| Upward House Side | 0.7 | 0.0 |
| Upward Total | 1.4 | 0.0 |
| Total Flux | 4862.0 | 100.0 |

POLAR GRAPH

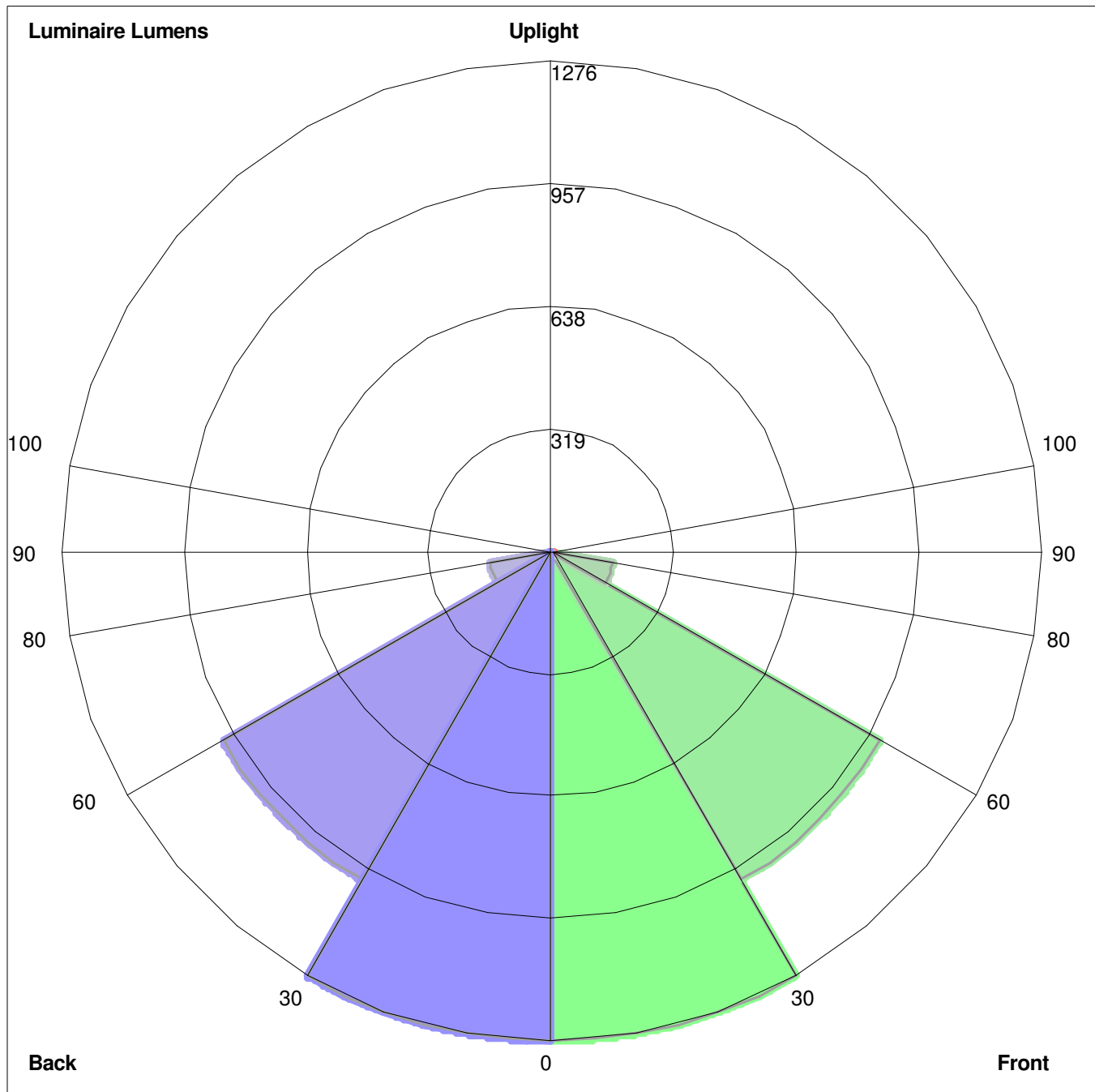


Maximum Candela = 3930.321 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1275.8, Medium=987.4, High=162.5, Very High=4.6
Back: Low=1275.8, Medium=987.4, High=162.5, Very High=4.6
Uplight: Low=1.3, High=0.1

BUG Rating : B3-U1-G0