

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-830-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-L50-830-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 | 5172 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 115 |
| Total Luminaire Watts | 45 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 4181.193 |
| Maximum Candela Angle | 90H 5V |
| Maximum Candela (<90 Degrees Vertical) | 4181.193 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 5V |
| Maximum Candela At 90 Degrees Vertical | 1.432 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 26.624 (0.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-830-XXX-DIM-UNV-W-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1357.3 | N.A. | 26.2 |
| FM - Front-Medium (30-60) | 1050.4 | N.A. | 20.3 |
| FH - Front-High (60-80) | 172.9 | N.A. | 3.3 |
| FVH - Front-Very High (80-90) | 4.8 | N.A. | 0.1 |
| BL - Back-Low (0-30) | 1357.3 | N.A. | 26.2 |
| BM - Back-Medium (30-60) | 1050.4 | N.A. | 20.3 |
| BH - Back-High (60-80) | 172.9 | N.A. | 3.3 |
| BVH - Back-Very High (80-90) | 4.8 | N.A. | 0.1 |
| UL - Uplight-Low (90-100) | 1.4 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.1 | N.A. | 0.0 |
| Total | 5172.3 | 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 | 4144.854 | 4144.854 | 4144.854 | 4144.854 | 4144.854 |
| 1 | 4148.806 | 4149.668 | 4155.138 | 4154.776 | 4152.843 |
| 2 | 4137.089 | 4141.852 | 4154.016 | 4159.296 | 4157.071 |
| 3 | 4119.213 | 4128.307 | 4154.724 | 4168.649 | 4168.114 |
| 4 | 4095.747 | 4112.018 | 4154.258 | 4180.054 | 4179.968 |
| 5 | 4064.222 | 4090.605 | 4147.615 | 4180.900 | 4181.193 |
| 6 | 4029.799 | 4061.876 | 4130.257 | 4167.958 | 4167.027 |
| 7 | 3988.577 | 4026.072 | 4098.715 | 4137.693 | 4134.777 |
| 8 | 3943.352 | 3981.986 | 4055.353 | 4094.401 | 4086.999 |
| 9 | 3891.570 | 3930.946 | 4001.898 | 4039.030 | 4030.351 |
| 10 | 3835.527 | 3875.334 | 3939.366 | 3974.152 | 3966.715 |
| 11 | 3777.499 | 3813.182 | 3866.896 | 3898.852 | 3893.279 |
| 12 | 3716.813 | 3745.905 | 3791.734 | 3817.237 | 3809.472 |
| 13 | 3656.042 | 3675.384 | 3714.743 | 3736.208 | 3720.661 |
| 14 | 3589.749 | 3605.209 | 3636.854 | 3652.194 | 3632.368 |
| 15 | 3521.644 | 3534.602 | 3559.070 | 3569.336 | 3550.408 |
| 16 | 3451.365 | 3462.097 | 3482.165 | 3487.807 | 3471.967 |
| 17 | 3379.447 | 3392.008 | 3408.262 | 3405.829 | 3396.098 |
| 18 | 3313.758 | 3323.299 | 3338.156 | 3330.339 | 3324.162 |
| 19 | 3249.104 | 3254.953 | 3266.945 | 3257.282 | 3251.416 |
| 20 | 3188.729 | 3192.801 | 3199.548 | 3193.560 | 3180.067 |
| 21 | 3130.804 | 3131.305 | 3135.273 | 3131.874 | 3116.086 |
| 22 | 3077.763 | 3071.689 | 3074.381 | 3072.017 | 3061.854 |
| 23 | 3026.792 | 3016.819 | 3019.890 | 3015.680 | 3008.951 |
| 24 | 2978.237 | 2968.713 | 2971.111 | 2961.362 | 2956.047 |
| 25 | 2932.650 | 2921.382 | 2920.520 | 2908.234 | 2899.383 |
| 26 | 2882.645 | 2873.621 | 2866.322 | 2851.397 | 2839.526 |
| 27 | 2826.257 | 2814.541 | 2801.703 | 2785.138 | 2771.283 |
| 28 | 2754.287 | 2740.776 | 2720.381 | 2698.312 | 2691.289 |
| 29 | 2660.921 | 2644.874 | 2617.369 | 2590.452 | 2584.603 |
| 30 | 2539.378 | 2519.207 | 2489.408 | 2458.280 | 2449.394 |
| 31 | 2386.655 | 2365.259 | 2333.838 | 2303.004 | 2291.719 |
| 32 | 2207.239 | 2188.897 | 2162.118 | 2134.976 | 2128.695 |
| 33 | 2006.134 | 1993.607 | 1977.474 | 1959.787 | 1965.637 |
| 34 | 1797.109 | 1791.553 | 1789.707 | 1786.911 | 1800.318 |
| 35 | 1594.641 | 1594.710 | 1605.028 | 1617.710 | 1635.690 |
| 36 | 1410.583 | 1414.983 | 1435.499 | 1456.947 | 1476.566 |
| 37 | 1249.354 | 1257.481 | 1283.311 | 1309.090 | 1328.226 |
| 38 | 1117.751 | 1128.467 | 1155.091 | 1180.197 | 1196.278 |
| 39 | 1019.261 | 1030.839 | 1054.253 | 1074.700 | 1087.762 |
| 40 | 948.516 | 958.127 | 976.417 | 990.825 | 1001.712 |
| 41 | 898.874 | 906.069 | 918.717 | 927.499 | 935.385 |
| 42 | 863.984 | 867.487 | 875.718 | 880.670 | 884.673 |
| 43 | 836.204 | 837.464 | 842.623 | 844.676 | 844.745 |
| 44 | 811.409 | 811.719 | 814.618 | 814.566 | 812.651 |
| 45 | 788.443 | 788.029 | 789.409 | 788.080 | 785.872 |
| 46 | 765.097 | 764.545 | 765.356 | 763.337 | 760.731 |
| 47 | 741.026 | 740.474 | 740.526 | 738.628 | 736.005 |
| 48 | 716.404 | 715.714 | 715.403 | 713.401 | 710.796 |
| 49 | 690.918 | 689.918 | 690.107 | 687.709 | 685.224 |
| 50 | 664.415 | 663.638 | 663.707 | 661.482 | 659.031 |
| 51 | 637.601 | 637.118 | 637.031 | 634.840 | 632.718 |
| 52 | 610.493 | 610.200 | 610.166 | 608.130 | 605.955 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-830-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|---------|---------|---------|---------|---------|
| 53 | 583.835 | 583.352 | 583.334 | 581.471 | 579.210 |
| 54 | 557.228 | 556.641 | 556.382 | 554.277 | 551.965 |
| 55 | 530.207 | 529.206 | 529.085 | 526.583 | 524.426 |
| 56 | 501.150 | 500.494 | 500.304 | 497.785 | 495.663 |
| 57 | 472.351 | 471.333 | 470.988 | 468.469 | 466.381 |
| 58 | 443.691 | 442.587 | 442.121 | 439.653 | 437.997 |
| 59 | 415.134 | 414.099 | 413.581 | 411.131 | 409.561 |
| 60 | 387.406 | 386.301 | 385.870 | 383.454 | 381.936 |
| 61 | 360.264 | 359.142 | 358.970 | 356.571 | 355.312 |
| 62 | 334.140 | 333.001 | 332.742 | 330.637 | 329.429 |
| 63 | 308.568 | 307.637 | 307.360 | 305.514 | 304.375 |
| 64 | 283.704 | 283.014 | 282.824 | 281.168 | 280.219 |
| 65 | 260.186 | 259.547 | 259.496 | 258.012 | 257.425 |
| 66 | 237.168 | 236.874 | 236.892 | 235.460 | 234.925 |
| 67 | 215.530 | 215.271 | 215.082 | 213.926 | 213.563 |
| 68 | 194.773 | 194.462 | 194.428 | 193.444 | 193.220 |
| 69 | 174.740 | 174.533 | 174.550 | 173.722 | 173.756 |
| 70 | 155.949 | 155.846 | 155.708 | 155.104 | 155.156 |
| 71 | 138.125 | 138.108 | 137.883 | 137.521 | 137.590 |
| 72 | 121.457 | 121.474 | 121.371 | 120.974 | 121.302 |
| 73 | 105.824 | 105.807 | 105.772 | 105.462 | 105.755 |
| 74 | 91.347 | 91.278 | 91.347 | 91.157 | 91.399 |
| 75 | 77.923 | 77.906 | 77.975 | 77.871 | 78.026 |
| 76 | 65.448 | 65.413 | 65.534 | 65.448 | 65.620 |
| 77 | 54.042 | 54.025 | 54.266 | 54.128 | 54.318 |
| 78 | 43.637 | 43.603 | 43.896 | 43.845 | 44.034 |
| 79 | 34.354 | 34.320 | 34.596 | 34.717 | 34.786 |
| 80 | 26.124 | 26.158 | 26.452 | 26.572 | 26.624 |
| 81 | 18.946 | 19.015 | 19.239 | 19.446 | 19.498 |
| 82 | 12.493 | 12.596 | 12.855 | 13.045 | 13.183 |
| 83 | 8.558 | 8.645 | 9.076 | 9.318 | 9.421 |
| 84 | 7.937 | 7.937 | 7.954 | 7.972 | 7.903 |
| 85 | 7.351 | 7.351 | 7.351 | 7.351 | 7.282 |
| 86 | 6.591 | 6.591 | 6.574 | 6.557 | 6.505 |
| 87 | 5.539 | 5.556 | 5.539 | 5.539 | 5.470 |
| 88 | 4.227 | 4.210 | 4.193 | 4.193 | 4.141 |
| 89 | 2.571 | 2.571 | 2.554 | 2.571 | 2.519 |
| 90 | 1.035 | 1.122 | 1.329 | 1.432 | 1.432 |
| 91 | 0.932 | 0.949 | 0.949 | 0.966 | 0.932 |
| 92 | 1.001 | 1.001 | 1.001 | 1.001 | 0.984 |
| 93 | 1.053 | 1.053 | 1.070 | 1.053 | 1.035 |
| 94 | 1.122 | 1.122 | 1.122 | 1.122 | 1.122 |
| 95 | 1.191 | 1.191 | 1.208 | 1.208 | 1.191 |
| 96 | 1.260 | 1.277 | 1.277 | 1.277 | 1.260 |
| 97 | 1.346 | 1.346 | 1.363 | 1.363 | 1.346 |
| 98 | 1.449 | 1.432 | 1.432 | 1.449 | 1.449 |
| 99 | 1.570 | 1.536 | 1.536 | 1.553 | 1.518 |
| 100 | 1.605 | 1.622 | 1.622 | 1.639 | 1.605 |
| 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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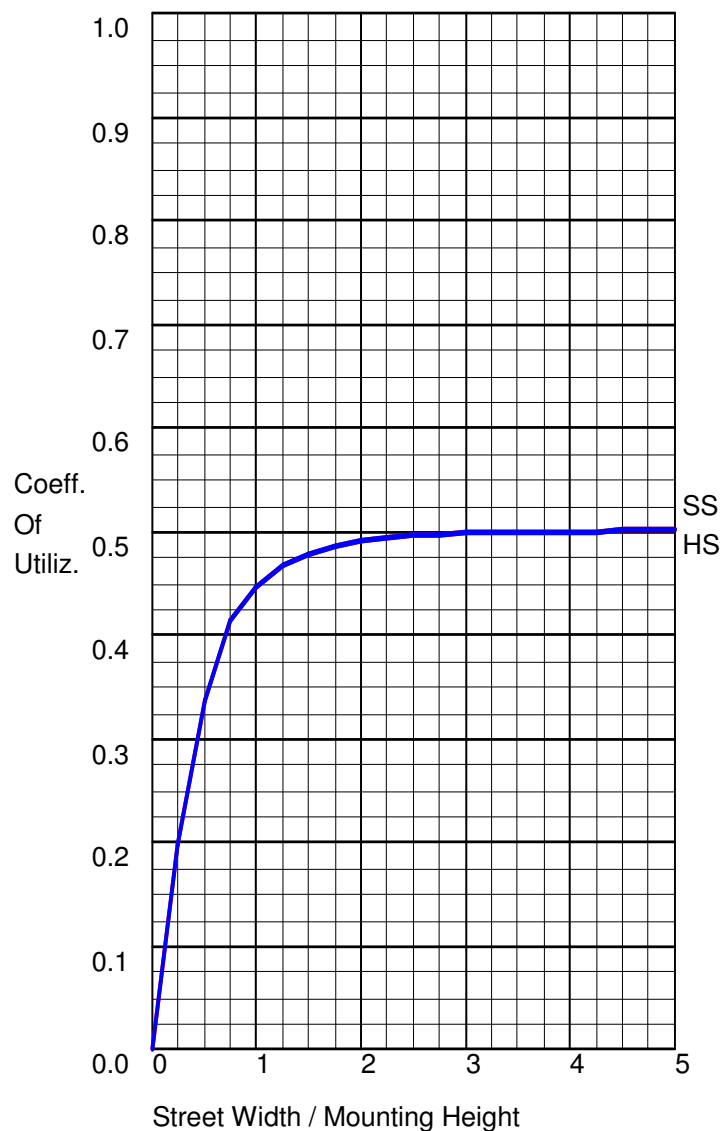
CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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-L50-830-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 |

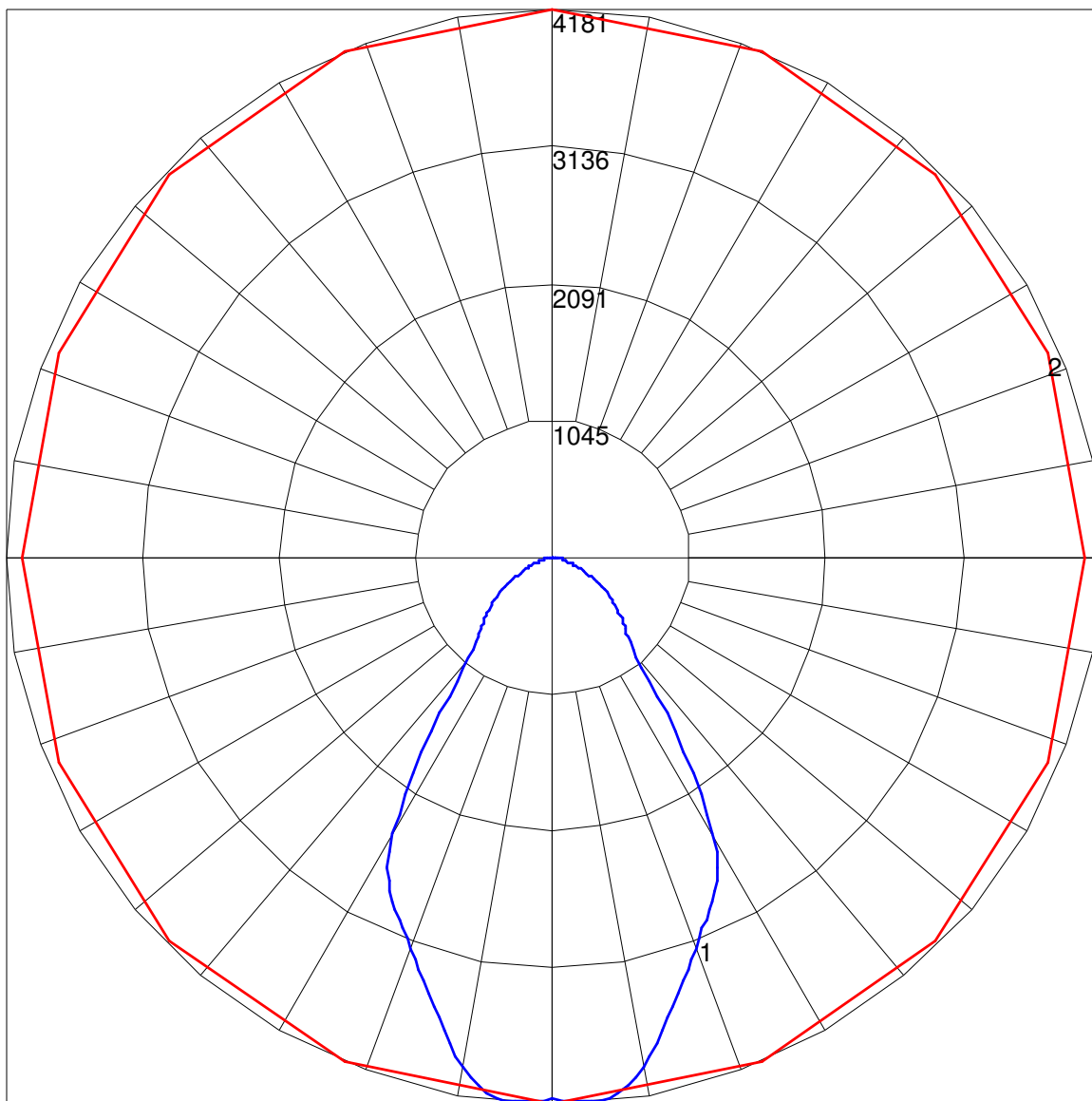
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

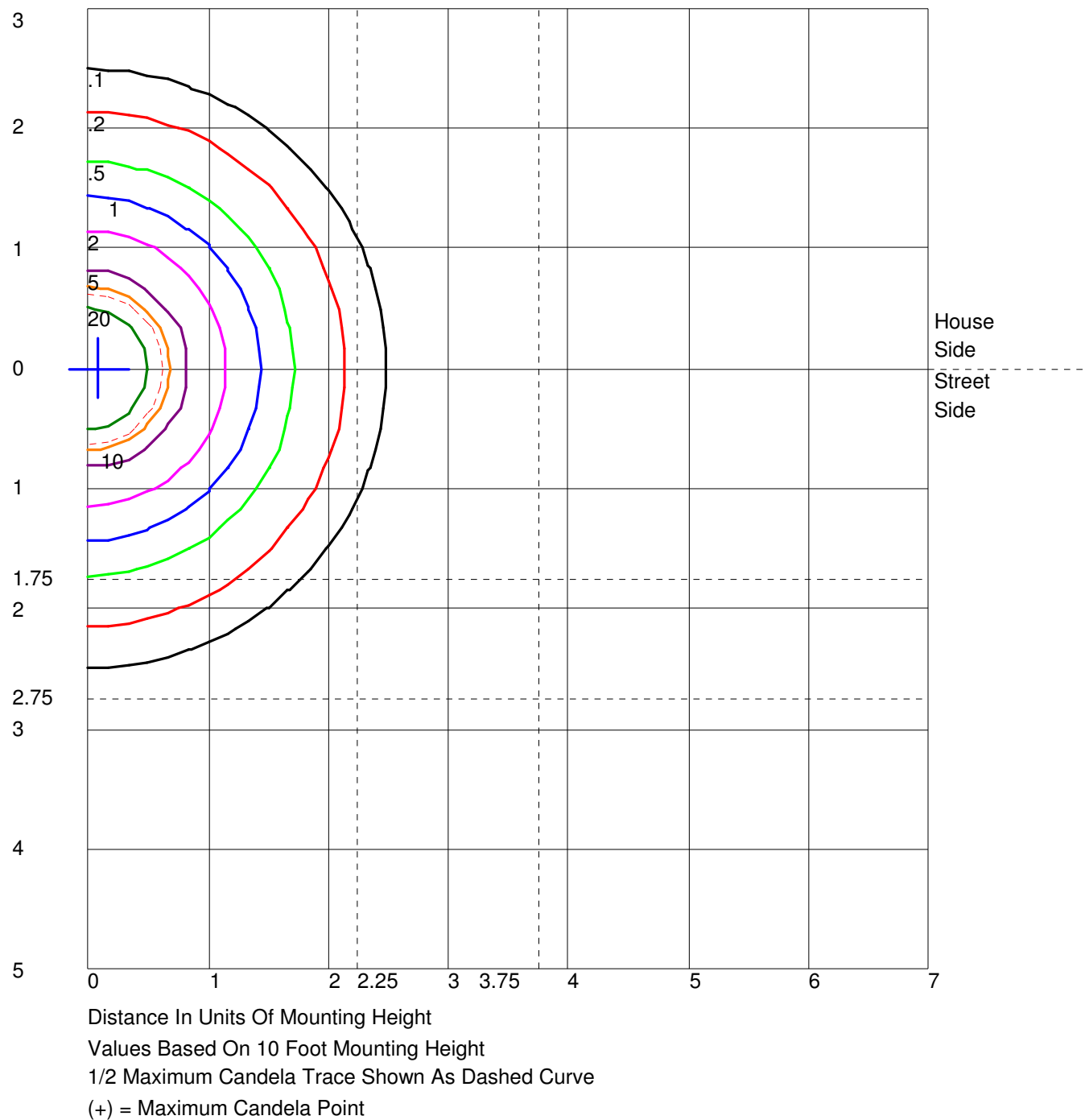
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 2585.5 | 50.0 |
| Downward House Side | 2585.5 | 50.0 |
| Downward Total | 5171.0 | 100.0 |
| Upward Street Side | 0.7 | 0.0 |
| Upward House Side | 0.7 | 0.0 |
| Upward Total | 1.4 | 0.0 |
| Total Flux | 5172.4 | 100.0 |

POLAR GRAPH

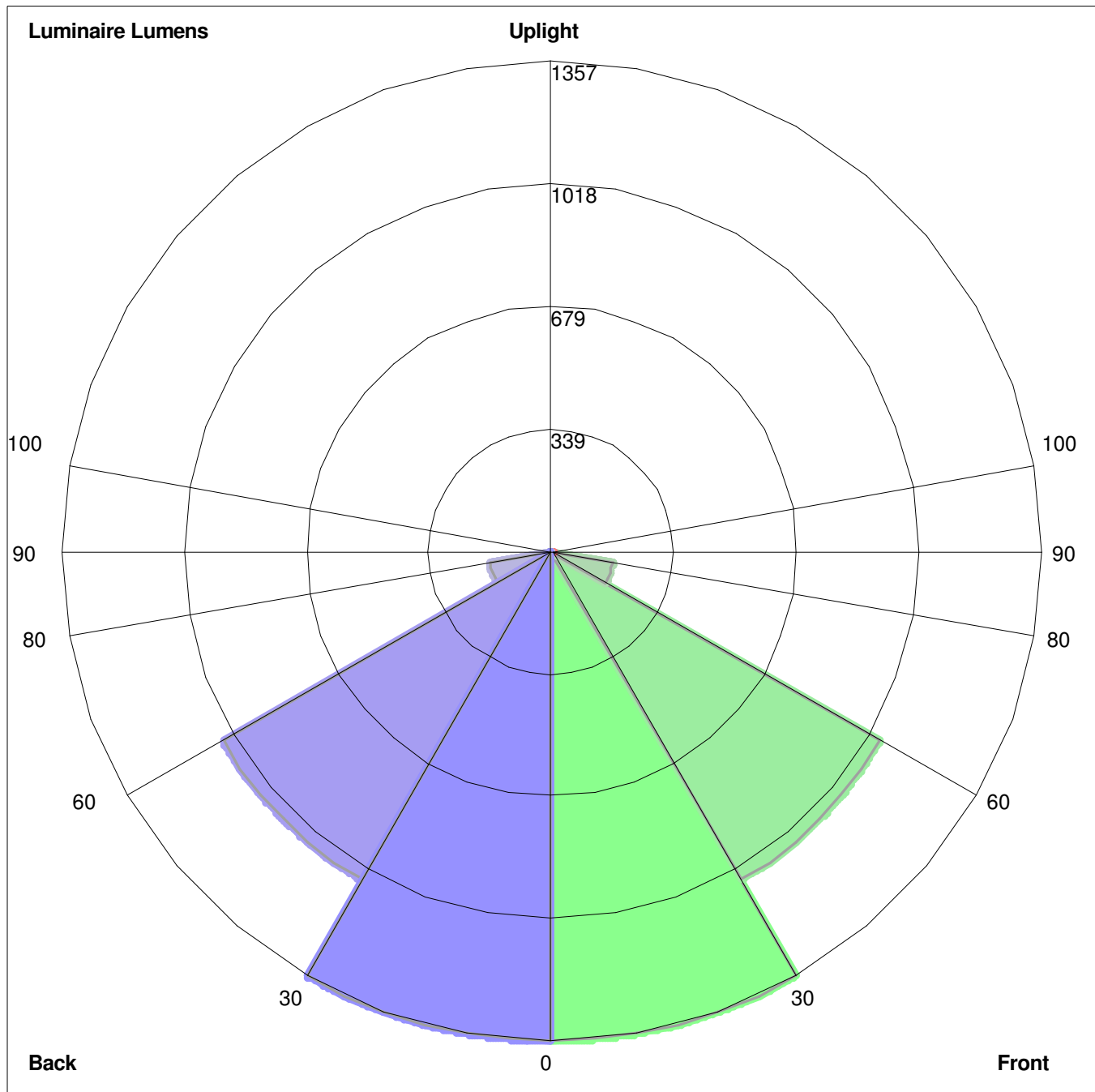


Maximum Candela = 4181.193 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1357.3, Medium=1050.4, High=172.9, Very High=4.8
Back: Low=1357.3, Medium=1050.4, High=172.9, Very High=4.8
Uplight: Low=1.4, High=0.1

BUG Rating : B3-U1-G0