

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P937322

Luminaire Tested: SQ4-FB-075U-125D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937322  
REPORT IS A COMBINATION OF REPORTS P933504 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-125D-927-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

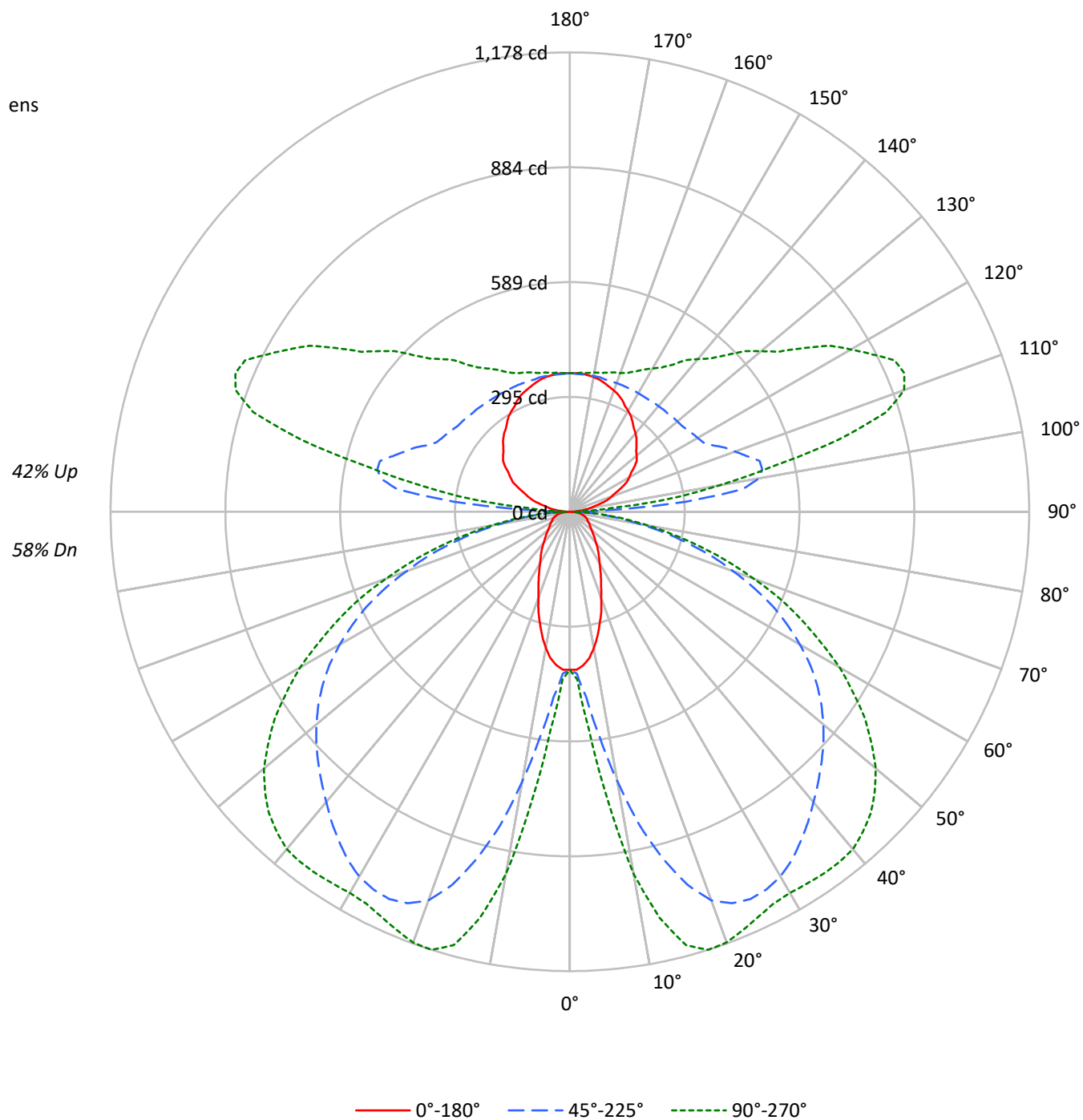
Lumens per Lamp: N/A  
Luminaire Lumens: 5441.6 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P937322

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 |
| 1   | 99  | 94  | 90  | 86  | 92  | 88  | 84  | 81  | 76 | 73 | 71 | 65 | 63 | 61 | 55 | 53 | 52 |
| 2   | 89  | 82  | 75  | 69  | 83  | 76  | 70  | 65  | 66 | 61 | 57 | 56 | 53 | 50 | 47 | 45 | 43 |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 54  | 57 | 52 | 47 | 49 | 45 | 41 | 41 | 38 | 36 |
| 4   | 74  | 62  | 54  | 48  | 68  | 58  | 51  | 45  | 50 | 45 | 40 | 43 | 39 | 35 | 36 | 33 | 30 |
| 5   | 68  | 55  | 47  | 40  | 63  | 52  | 44  | 38  | 45 | 39 | 34 | 38 | 34 | 30 | 33 | 29 | 26 |
| 6   | 62  | 49  | 41  | 35  | 57  | 46  | 38  | 33  | 40 | 34 | 29 | 34 | 29 | 26 | 29 | 25 | 22 |
| 7   | 57  | 44  | 36  | 30  | 53  | 41  | 34  | 28  | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 |
| 8   | 53  | 40  | 32  | 26  | 49  | 37  | 30  | 25  | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 |
| 9   | 49  | 36  | 28  | 23  | 46  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 |
| 10  | 46  | 33  | 26  | 21  | 43  | 31  | 24  | 20  | 27 | 22 | 18 | 24 | 19 | 16 | 20 | 16 | 14 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 3760 | 3760  | 3760  |
| 5°  | 3669 | 4343  | 5054  |
| 10° | 3325 | 6325  | 8379  |
| 15° | 2823 | 8258  | 10118 |
| 20° | 2295 | 9563  | 10312 |
| 25° | 1913 | 10000 | 10102 |
| 30° | 1611 | 10055 | 10083 |
| 35° | 1422 | 9880  | 10343 |
| 40° | 1237 | 9655  | 10612 |
| 45° | 1118 | 9488  | 10655 |
| 50° | 1023 | 9335  | 10478 |
| 55° | 976  | 9116  | 10014 |
| 60° | 998  | 8704  | 9280  |
| 65° | 1032 | 8083  | 8271  |
| 70° | 1092 | 7035  | 6990  |
| 75° | 1197 | 5721  | 5454  |
| 80° | 1278 | 3953  | 3676  |
| 85° | 1076 | 2087  | 1881  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10655 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.4   | 1.0       |
| 10°-20°   | 232.3  | 4.3       |
| 20°-30°   | 406.3  | 7.5       |
| 30°-40°   | 523.1  | 9.6       |
| 40°-50°   | 584.3  | 10.7      |
| 50°-60°   | 559.6  | 10.3      |
| 60°-70°   | 443.5  | 8.1       |
| 70°-80°   | 260.8  | 4.8       |
| 80°-90°   | 73.8   | 1.4       |
| 90°-100°  | 173.4  | 3.2       |
| 100°-110° | 455.8  | 8.4       |
| 110°-120° | 472.6  | 8.7       |
| 120°-130° | 379.1  | 7.0       |
| 130°-140° | 297.5  | 5.5       |
| 140°-150° | 228.3  | 4.2       |
| 150°-160° | 164.4  | 3.0       |
| 160°-170° | 100.6  | 1.8       |
| 170°-180° | 34.0   | 0.6       |
| 0°-30°    | 691.1  | 12.7      |
| 0°-40°    | 1214.1 | 22.3      |
| 0°-60°    | 2358.0 | 43.3      |
| 0°-90°    | 3136.0 | 57.6      |
| 90°-120°  | 1101.7 | 20.2      |
| 90°-150°  | 2006.6 | 36.9      |
| 90°-180°  | 2306.0 | 42.4      |
| 0°-180°   | 5441.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 405 | 405   | 405  | 405   | 405  |      |
| 5°   | 395 | 423   | 477  | 539   | 559  | 36   |
| 15°  | 296 | 546   | 920  | 1115  | 1150 | 82   |
| 25°  | 189 | 619   | 1096 | 1144  | 1145 | 87   |
| 35°  | 128 | 592   | 1032 | 1091  | 1134 | 80   |
| 45°  | 87  | 472   | 912  | 1045  | 1092 | 68   |
| 55°  | 62  | 300   | 774  | 899   | 924  | 57   |
| 65°  | 50  | 159   | 575  | 646   | 655  | 49   |
| 75°  | 36  | 98    | 315  | 347   | 348  | 38   |
| 85°  | 13  | 30    | 78   | 86    | 87   | 14   |
| 90°  | 2   | 7     | 18   | 9     | 9    | 3    |
| 95°  | 23  | 90    | 299  | 154   | 105  | 25   |
| 105° | 82  | 124   | 504  | 765   | 714  | 87   |
| 115° | 146 | 177   | 404  | 805   | 919  | 144  |
| 125° | 203 | 228   | 367  | 620   | 732  | 180  |
| 135° | 242 | 266   | 356  | 501   | 568  | 187  |
| 145° | 280 | 298   | 351  | 427   | 461  | 176  |
| 155° | 317 | 326   | 351  | 386   | 397  | 146  |
| 165° | 342 | 347   | 351  | 365   | 370  | 97   |
| 175° | 356 | 356   | 354  | 358   | 358  | 34   |
| 180° | 356 | 356   | 356  | 356   | 356  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 405.2 | 405.2 | 405.2 | 405.2 | 405.2 | 405.2  | 405.2  | 405.2  | 405.2  | 405.2  | 405.2  |
| 2.5°   | 405.2 | 405.2 | 407.8 | 409.1 | 411.7 | 413.0  | 415.6  | 418.3  | 426.0  | 427.4  | 430.0  |
| 5°     | 394.8 | 400.0 | 417.0 | 423.4 | 441.7 | 466.5  | 476.9  | 493.8  | 529.0  | 539.4  | 545.9  |
| 7.5°   | 379.1 | 390.9 | 432.6 | 443.0 | 488.6 | 553.7  | 581.1  | 617.6  | 673.6  | 700.9  | 723.1  |
| 10°    | 354.4 | 379.1 | 453.4 | 478.2 | 552.4 | 651.4  | 702.2  | 753.1  | 837.8  | 875.6  | 889.9  |
| 12.5°  | 327.0 | 367.4 | 475.6 | 509.4 | 616.3 | 760.9  | 822.1  | 878.2  | 974.6  | 1025.4 | 1033.2 |
| 15°    | 295.8 | 350.5 | 496.4 | 545.9 | 684.0 | 852.1  | 919.8  | 988.9  | 1078.8 | 1115.3 | 1124.4 |
| 17.5°  | 268.4 | 337.5 | 516.0 | 568.1 | 736.1 | 934.2  | 1003.2 | 1060.6 | 1133.5 | 1158.3 | 1164.8 |
| 20°    | 234.5 | 316.6 | 529.0 | 596.8 | 790.9 | 994.1  | 1060.6 | 1104.9 | 1154.4 | 1170.0 | 1172.6 |
| 22.5°  | 209.7 | 294.4 | 536.8 | 607.1 | 827.4 | 1030.6 | 1086.6 | 1121.8 | 1155.7 | 1160.9 | 1162.2 |
| 25°    | 189.0 | 269.7 | 535.5 | 618.8 | 858.6 | 1052.7 | 1095.8 | 1121.8 | 1141.4 | 1144.0 | 1144.0 |
| 27.5°  | 169.4 | 242.3 | 530.3 | 621.5 | 882.0 | 1058.0 | 1091.9 | 1110.1 | 1119.2 | 1124.4 | 1124.4 |
| 30°    | 152.5 | 216.3 | 517.3 | 616.3 | 892.5 | 1052.7 | 1080.1 | 1089.2 | 1098.3 | 1106.2 | 1110.1 |
| 32.5°  | 139.4 | 191.5 | 497.7 | 605.8 | 893.8 | 1039.7 | 1059.3 | 1064.4 | 1077.5 | 1095.8 | 1102.3 |
| 35°    | 127.7 | 166.8 | 475.6 | 591.5 | 886.0 | 1018.9 | 1031.9 | 1037.1 | 1063.1 | 1090.6 | 1099.6 |
| 37.5°  | 116.0 | 148.5 | 446.9 | 566.8 | 874.3 | 994.1  | 1003.2 | 1012.4 | 1052.7 | 1085.3 | 1095.8 |
| 40°    | 104.3 | 132.9 | 413.0 | 539.4 | 856.0 | 964.1  | 972.0  | 986.3  | 1039.7 | 1077.5 | 1087.9 |
| 42.5°  | 95.1  | 119.9 | 376.5 | 510.7 | 832.5 | 930.3  | 942.0  | 962.9  | 1024.1 | 1064.4 | 1076.2 |
| 45°    | 87.3  | 106.9 | 337.5 | 471.6 | 802.6 | 895.1  | 912.1  | 940.7  | 1005.9 | 1045.0 | 1055.4 |
| 47.5°  | 79.5  | 97.7  | 297.1 | 431.3 | 770.0 | 859.9  | 882.0  | 914.7  | 981.1  | 1018.9 | 1028.0 |
| 50°    | 73.0  | 88.6  | 256.6 | 388.2 | 734.8 | 822.1  | 848.2  | 882.0  | 949.8  | 985.0  | 996.8  |
| 52.5°  | 67.8  | 80.8  | 218.9 | 345.3 | 694.5 | 783.0  | 813.0  | 848.2  | 912.1  | 945.9  | 953.7  |
| 55°    | 62.5  | 74.2  | 186.3 | 299.7 | 652.7 | 741.4  | 773.9  | 807.8  | 870.3  | 899.0  | 904.2  |
| 57.5°  | 59.9  | 69.1  | 158.9 | 256.6 | 608.5 | 694.5  | 731.0  | 762.2  | 820.8  | 843.0  | 848.2  |
| 60°    | 56.1  | 65.1  | 138.1 | 220.2 | 560.3 | 650.2  | 681.4  | 712.7  | 762.2  | 780.5  | 784.3  |
| 62.5°  | 52.1  | 62.5  | 122.5 | 185.0 | 510.7 | 598.1  | 629.3  | 658.0  | 699.7  | 712.7  | 717.9  |
| 65°    | 49.5  | 59.9  | 110.7 | 158.9 | 459.9 | 543.3  | 574.6  | 599.4  | 633.2  | 646.3  | 648.9  |
| 67.5°  | 46.9  | 57.4  | 101.6 | 136.8 | 409.1 | 488.6  | 512.1  | 535.5  | 561.6  | 574.6  | 575.9  |
| 70°    | 43.0  | 54.7  | 93.8  | 121.2 | 357.0 | 426.0  | 445.6  | 470.3  | 491.2  | 497.7  | 501.7  |
| 72.5°  | 40.4  | 50.8  | 88.6  | 109.4 | 303.6 | 366.1  | 384.4  | 398.7  | 417.0  | 423.4  | 423.4  |
| 75°    | 36.5  | 45.6  | 83.4  | 97.7  | 248.9 | 299.7  | 315.3  | 329.6  | 344.0  | 346.6  | 342.7  |
| 77.5°  | 32.6  | 40.4  | 71.7  | 82.1  | 194.1 | 237.2  | 250.2  | 258.0  | 269.7  | 272.3  | 273.6  |
| 80°    | 27.3  | 35.2  | 56.1  | 63.8  | 140.7 | 174.6  | 183.7  | 190.2  | 200.7  | 200.7  | 203.3  |
| 82.5°  | 20.9  | 27.3  | 40.4  | 45.6  | 95.1  | 119.9  | 127.7  | 131.6  | 138.1  | 138.1  | 138.1  |
| 85°    | 13.0  | 16.9  | 26.0  | 30.0  | 57.4  | 73.0   | 78.2   | 79.5   | 84.7   | 86.0   | 86.0   |
| 87.5°  | 6.5   | 9.1   | 16.9  | 18.2  | 30.0  | 37.8   | 37.8   | 40.4   | 40.4   | 39.1   | 37.8   |
| 90°    | 2.4   | 4.3   | 6.2   | 6.7   | 10.5  | 15.6   | 18.2   | 16.2   | 12.1   | 9.1    | 9.1    |
| 92.5°  | 9.5   | 25.8  | 42.0  | 46.0  | 64.8  | 89.7   | 102.2  | 89.6   | 64.3   | 45.4   | 43.6   |
| 95°    | 22.9  | 52.7  | 82.4  | 89.8  | 159.4 | 252.2  | 298.6  | 266.4  | 202.1  | 153.9  | 148.5  |
| 97.5°  | 39.7  | 65.8  | 92.0  | 98.6  | 214.7 | 369.4  | 446.8  | 426.5  | 385.9  | 355.4  | 345.0  |
| 100°   | 52.5  | 76.2  | 100.0 | 106.0 | 234.8 | 406.6  | 492.4  | 493.9  | 496.9  | 499.1  | 486.7  |
| 102.5° | 63.5  | 85.7  | 107.8 | 113.3 | 244.0 | 418.3  | 505.4  | 531.2  | 583.0  | 621.8  | 611.1  |
| 105°   | 82.1  | 100.9 | 119.7 | 124.4 | 250.9 | 419.6  | 503.9  | 561.9  | 678.0  | 765.0  | 759.3  |
| 107.5° | 101.2 | 118.7 | 136.2 | 140.6 | 252.2 | 400.9  | 475.2  | 556.2  | 718.0  | 839.5  | 840.8  |
| 110°   | 114.1 | 129.9 | 145.8 | 149.7 | 250.2 | 384.3  | 451.4  | 541.8  | 722.8  | 858.6  | 864.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 126.7 | 141.8 | 156.8 | 160.6 | 250.3 | 369.9 | 429.7 | 522.3 | 707.5 | 846.4 | 855.5 |
| 115°   | 145.8 | 159.7 | 173.6 | 177.1 | 252.6 | 353.3 | 403.6 | 492.9 | 671.3 | 805.1 | 817.7 |
| 117.5° | 164.7 | 177.3 | 190.0 | 193.1 | 257.3 | 342.9 | 385.7 | 466.2 | 627.2 | 748.1 | 762.1 |
| 120°   | 175.7 | 187.6 | 199.4 | 202.4 | 261.1 | 339.4 | 378.5 | 452.1 | 599.3 | 709.6 | 723.3 |
| 122.5° | 186.4 | 198.4 | 210.4 | 213.4 | 266.6 | 337.6 | 373.1 | 439.3 | 571.8 | 671.2 | 684.7 |
| 125°   | 202.9 | 213.8 | 224.8 | 227.5 | 274.0 | 336.1 | 367.1 | 423.4 | 536.0 | 620.4 | 632.8 |
| 127.5° | 216.3 | 227.3 | 238.3 | 241.1 | 281.4 | 335.3 | 362.1 | 410.5 | 507.1 | 579.6 | 590.1 |
| 130°   | 223.5 | 235.3 | 247.2 | 250.2 | 286.8 | 335.7 | 360.2 | 403.2 | 489.3 | 553.8 | 563.4 |
| 132.5° | 230.8 | 242.7 | 254.6 | 257.6 | 291.2 | 336.1 | 358.5 | 397.0 | 474.1 | 531.8 | 540.5 |
| 135°   | 241.8 | 252.6 | 263.4 | 266.1 | 296.0 | 335.8 | 355.7 | 387.9 | 452.5 | 500.8 | 508.3 |
| 137.5° | 253.0 | 263.7 | 274.4 | 277.1 | 303.1 | 337.9 | 355.2 | 382.5 | 437.0 | 477.9 | 483.9 |
| 140°   | 262.3 | 272.2 | 282.1 | 284.5 | 307.5 | 338.2 | 353.5 | 377.1 | 424.1 | 459.5 | 465.2 |
| 142.5° | 269.5 | 278.6 | 287.7 | 290.0 | 311.2 | 339.4 | 353.5 | 374.2 | 415.6 | 446.6 | 451.5 |
| 145°   | 280.4 | 288.4 | 296.4 | 298.4 | 315.9 | 339.4 | 351.1 | 368.1 | 401.9 | 427.3 | 431.0 |
| 147.5° | 291.4 | 299.1 | 306.9 | 308.8 | 322.9 | 341.7 | 351.1 | 364.4 | 391.1 | 411.0 | 414.1 |
| 150°   | 298.6 | 305.6 | 312.6 | 314.4 | 326.6 | 343.0 | 351.1 | 362.4 | 384.8 | 401.7 | 404.2 |
| 152.5° | 306.0 | 311.3 | 316.6 | 317.9 | 329.0 | 343.7 | 351.1 | 360.7 | 379.9 | 394.3 | 396.2 |
| 155°   | 317.0 | 320.9 | 324.8 | 325.8 | 334.3 | 345.5 | 351.1 | 358.7 | 374.0 | 385.5 | 386.7 |
| 157.5° | 325.1 | 328.9 | 332.8 | 333.7 | 339.5 | 347.3 | 351.1 | 357.0 | 368.9 | 377.8 | 378.7 |
| 160°   | 330.6 | 333.6 | 336.5 | 337.3 | 341.9 | 348.0 | 351.1 | 356.2 | 366.4 | 374.1 | 374.5 |
| 162.5° | 336.1 | 338.3 | 340.6 | 341.1 | 344.4 | 348.9 | 351.1 | 355.4 | 364.0 | 370.4 | 370.9 |
| 165°   | 342.0 | 344.0 | 346.0 | 346.6 | 348.1 | 350.1 | 351.1 | 354.2 | 360.4 | 365.0 | 365.5 |
| 167.5° | 347.5 | 348.4 | 349.4 | 349.7 | 351.0 | 352.7 | 353.5 | 355.5 | 359.6 | 362.6 | 362.8 |
| 170°   | 351.1 | 352.0 | 353.0 | 353.3 | 353.4 | 353.4 | 353.5 | 355.5 | 359.6 | 362.6 | 362.6 |
| 172.5° | 353.0 | 353.3 | 353.4 | 353.5 | 353.5 | 353.5 | 353.5 | 355.1 | 358.3 | 360.7 | 360.5 |
| 175°   | 355.7 | 355.7 | 355.7 | 355.7 | 355.0 | 354.0 | 353.5 | 354.5 | 356.5 | 358.0 | 358.0 |
| 177.5° | 355.7 | 355.7 | 355.7 | 355.7 | 355.1 | 354.4 | 354.0 | 354.7 | 356.4 | 357.6 | 357.4 |
| 180°   | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 405.2  | 405.2  |
| 2.5°   | 432.6  | 430.0  |
| 5°     | 556.3  | 558.9  |
| 7.5°   | 749.2  | 747.9  |
| 10°    | 931.5  | 943.3  |
| 12.5°  | 1064.4 | 1067.1 |
| 15°    | 1145.3 | 1150.5 |
| 17.5°  | 1176.6 | 1177.9 |
| 20°    | 1177.9 | 1175.3 |
| 22.5°  | 1163.5 | 1160.9 |
| 25°    | 1146.5 | 1145.3 |
| 27.5°  | 1130.9 | 1132.2 |
| 30°    | 1124.4 | 1128.4 |
| 32.5°  | 1124.4 | 1130.9 |
| 35°    | 1127.0 | 1133.5 |
| 37.5°  | 1125.7 | 1133.5 |
| 40°    | 1120.5 | 1129.6 |
| 42.5°  | 1106.2 | 1112.6 |
| 45°    | 1084.0 | 1091.9 |
| 47.5°  | 1055.4 | 1060.6 |
| 50°    | 1018.9 | 1024.1 |
| 52.5°  | 973.3  | 974.6  |
| 55°    | 918.5  | 923.8  |
| 57.5°  | 859.9  | 861.2  |
| 60°    | 794.8  | 798.7  |
| 62.5°  | 725.7  | 725.7  |
| 65°    | 652.7  | 655.3  |
| 67.5°  | 577.2  | 583.7  |
| 70°    | 500.3  | 501.7  |
| 72.5°  | 424.7  | 424.7  |
| 75°    | 346.6  | 347.9  |
| 77.5°  | 272.3  | 272.3  |
| 80°    | 202.0  | 203.3  |
| 82.5°  | 139.4  | 142.0  |
| 85°    | 87.3   | 87.3   |
| 87.5°  | 40.4   | 36.5   |
| 90°    | 9.1    | 9.1    |
| 92.5°  | 36.3   | 29.1   |
| 95°    | 126.7  | 104.8  |
| 97.5°  | 303.5  | 261.9  |
| 100°   | 437.2  | 387.6  |
| 102.5° | 568.7  | 526.3  |
| 105°   | 736.5  | 713.7  |
| 107.5° | 846.4  | 851.9  |
| 110°   | 888.3  | 912.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   |
|--------|-------|-------|
| 112.5° | 892.0 | 928.5 |
| 115°   | 868.4 | 919.0 |
| 117.5° | 818.2 | 874.3 |
| 120°   | 777.8 | 832.3 |
| 122.5° | 738.4 | 792.3 |
| 125°   | 682.3 | 731.8 |
| 127.5° | 631.8 | 673.6 |
| 130°   | 602.1 | 640.6 |
| 132.5° | 575.0 | 609.6 |
| 135°   | 538.1 | 567.9 |
| 137.5° | 508.4 | 532.8 |
| 140°   | 488.0 | 510.8 |
| 142.5° | 471.1 | 490.7 |
| 145°   | 445.8 | 460.7 |
| 147.5° | 426.4 | 438.7 |
| 150°   | 414.2 | 424.2 |
| 152.5° | 403.7 | 411.3 |
| 155°   | 391.7 | 396.7 |
| 157.5° | 382.2 | 385.7 |
| 160°   | 376.5 | 378.5 |
| 162.5° | 372.8 | 374.8 |
| 165°   | 367.5 | 369.5 |
| 167.5° | 363.7 | 364.5 |
| 170°   | 362.6 | 362.6 |
| 172.5° | 359.7 | 359.0 |
| 175°   | 358.0 | 358.0 |
| 177.5° | 356.5 | 355.7 |
| 180°   | 355.7 | 355.7 |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 6.26             | 7.24  | 7.14  | 8.15  | 9.30  | 19.40          | 20.38 | 20.28 | 21.29 | 22.44 |
|                 | 3H   | 6.97             | 7.86  | 7.87  | 8.77  | 9.95  | 21.23          | 22.11 | 22.12 | 23.03 | 24.21 |
|                 | 4H   | 7.28             | 8.11  | 8.18  | 9.04  | 10.22 | 21.87          | 22.71 | 22.78 | 23.63 | 24.82 |
|                 | 6H   | 7.53             | 8.31  | 8.45  | 9.23  | 10.44 | 22.30          | 23.07 | 23.22 | 24.00 | 25.20 |
|                 | 8H   | 7.61             | 8.34  | 8.53  | 9.29  | 10.49 | 22.41          | 23.15 | 23.34 | 24.10 | 25.30 |
|                 | 12H  | 7.63             | 8.33  | 8.56  | 9.27  | 10.50 | 22.48          | 23.18 | 23.41 | 24.12 | 25.35 |
| 4H              | 2H   | 13.46            | 14.30 | 14.38 | 15.22 | 16.41 | 19.69          | 20.52 | 20.60 | 21.45 | 22.63 |
|                 | 3H   | 15.04            | 15.75 | 15.97 | 16.70 | 17.90 | 21.73          | 22.43 | 22.65 | 23.38 | 24.59 |
|                 | 4H   | 15.15            | 15.79 | 16.08 | 16.73 | 17.96 | 22.49          | 23.13 | 23.43 | 24.08 | 25.31 |
|                 | 6H   | 15.16            | 15.72 | 16.11 | 16.69 | 17.92 | 23.03          | 23.58 | 23.97 | 24.55 | 25.78 |
|                 | 8H   | 15.14            | 15.66 | 16.10 | 16.63 | 17.87 | 23.18          | 23.70 | 24.13 | 24.67 | 25.91 |
|                 | 12H  | 15.11            | 15.58 | 16.08 | 16.56 | 17.81 | 23.28          | 23.74 | 24.25 | 24.73 | 25.98 |
| 8H              | 4H   | 16.59            | 17.11 | 17.54 | 18.07 | 19.32 | 22.56          | 23.08 | 23.51 | 24.05 | 25.29 |
|                 | 6H   | 16.84            | 17.27 | 17.82 | 18.28 | 19.52 | 23.19          | 23.62 | 24.16 | 24.62 | 25.86 |
|                 | 8H   | 16.86            | 17.24 | 17.84 | 18.23 | 19.49 | 23.40          | 23.78 | 24.39 | 24.78 | 26.04 |
|                 | 12H  | 16.83            | 17.17 | 17.82 | 18.16 | 19.46 | 23.54          | 23.88 | 24.53 | 24.87 | 26.17 |
| 12H             | 4H   | 16.74            | 17.20 | 17.71 | 18.19 | 19.44 | 22.52          | 22.99 | 23.49 | 23.97 | 25.22 |
|                 | 6H   | 17.09            | 17.48 | 18.08 | 18.47 | 19.73 | 23.17          | 23.55 | 24.16 | 24.55 | 25.81 |
|                 | 8H   | 17.17            | 17.51 | 18.16 | 18.50 | 19.80 | 23.40          | 23.73 | 24.39 | 24.72 | 26.03 |