

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: P1191230

Luminaire Tested: SQ2-FA-025U-050D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1191230  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/23/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-FA-025U-050D-L930-UNV-STD-W-4  
Description: CORELITE SQ2 LED LUMINAIRE  
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

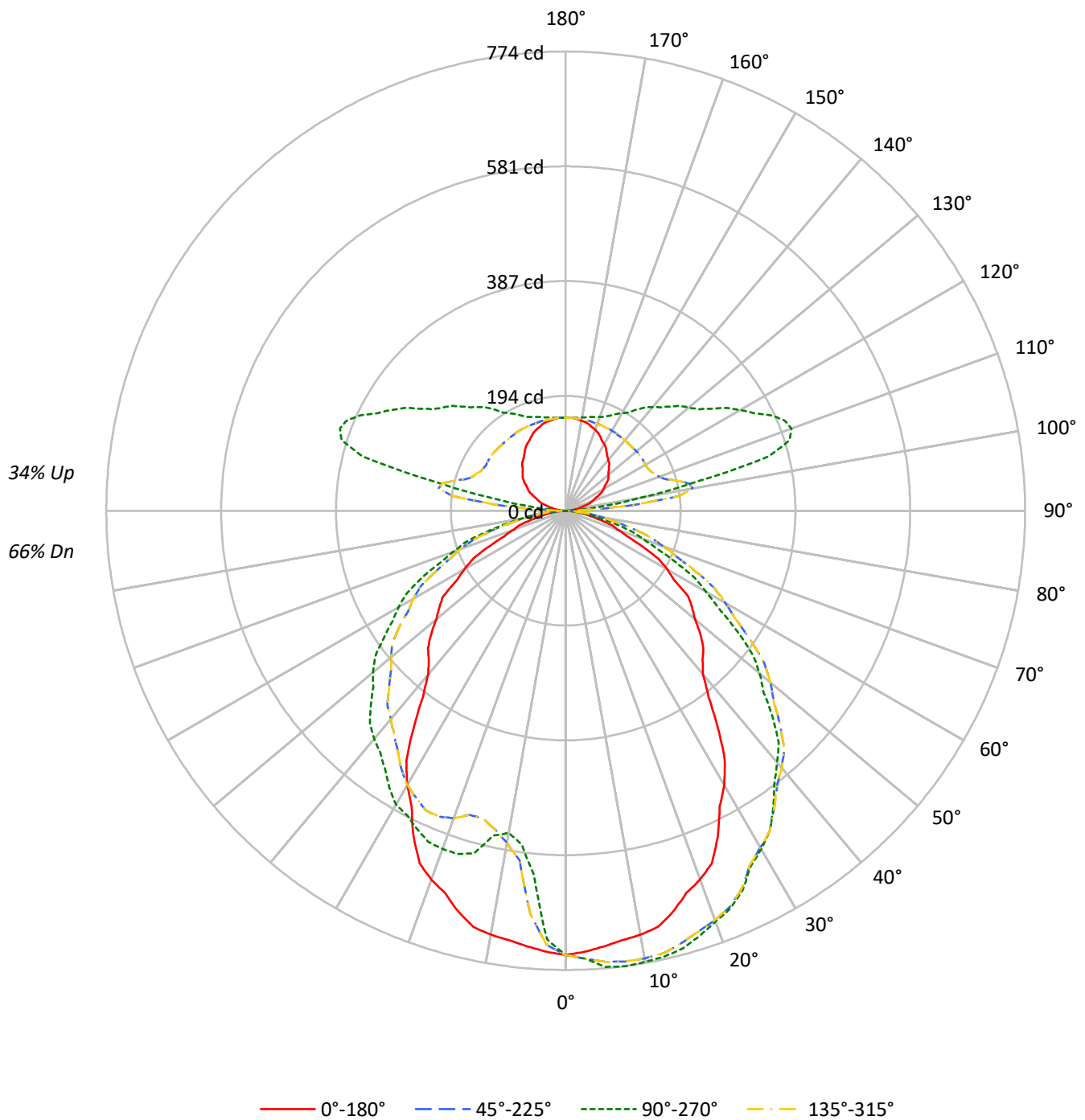
Lumens per Lamp: N/A  
Luminaire Lumens: 2832.5 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 25.2  
Input Voltage (V): 120  
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: P1191230

CATALOG NUMBER: SQ2-FA-025U-050D-L930-UNV-STD-W-4

### Luminous Intensity Polar Plot



TEST NUMBER: P1191230

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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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 |
| 1   | 101 | 97  | 93  | 90  | 95  | 92  | 88  | 85  | 81 | 78 | 76 | 71 | 70 | 68 | 63 | 61 | 60 |
| 2   | 92  | 85  | 79  | 73  | 87  | 80  | 75  | 70  | 71 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 51 |
| 3   | 84  | 75  | 67  | 61  | 79  | 71  | 64  | 58  | 63 | 58 | 53 | 56 | 51 | 48 | 49 | 46 | 43 |
| 4   | 77  | 66  | 58  | 52  | 72  | 63  | 55  | 50  | 56 | 50 | 45 | 50 | 45 | 41 | 44 | 40 | 37 |
| 5   | 71  | 59  | 51  | 45  | 67  | 56  | 48  | 43  | 50 | 44 | 39 | 45 | 40 | 36 | 39 | 35 | 32 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 28 |
| 7   | 61  | 48  | 40  | 34  | 57  | 46  | 38  | 33  | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 28 | 25 |
| 8   | 56  | 44  | 36  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 34 | 28 | 25 | 30 | 26 | 23 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 20 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 12088 | 12088 | 12088 | 12088 |
| 5°  | 11947 | 12511 | 11947 | 9971  |
| 10° | 11895 | 12655 | 11895 | 9040  |
| 15° | 11689 | 12757 | 11689 | 9992  |
| 20° | 11368 | 12665 | 11368 | 10421 |
| 25° | 10805 | 12563 | 10805 | 10546 |
| 30° | 9954  | 12281 | 9954  | 10659 |
| 35° | 8809  | 12012 | 8809  | 10466 |
| 40° | 7583  | 11683 | 7583  | 10581 |
| 45° | 7487  | 11264 | 7487  | 10602 |
| 50° | 7144  | 10716 | 7144  | 10643 |
| 55° | 7108  | 9883  | 7108  | 10536 |
| 60° | 6371  | 8809  | 6371  | 10495 |
| 65° | 5433  | 7759  | 5433  | 10201 |
| 70° | 4386  | 6576  | 4386  | 9451  |
| 75° | 3799  | 5434  | 3799  | 8690  |
| 80° | 3236  | 4045  | 3236  | 7011  |
| 85° | 2149  | 2149  | 2149  | 4298  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11661 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.4   | 2.4       |
| 10°-20°   | 188.2  | 6.6       |
| 20°-30°   | 285.9  | 10.1      |
| 30°-40°   | 335.6  | 11.8      |
| 40°-50°   | 340.5  | 12.0      |
| 50°-60°   | 298.3  | 10.5      |
| 60°-70°   | 211.6  | 7.5       |
| 70°-80°   | 109.0  | 3.8       |
| 80°-90°   | 23.2   | 0.8       |
| 90°-100°  | 63.4   | 2.2       |
| 100°-110° | 197.3  | 7.0       |
| 110°-120° | 193.0  | 6.8       |
| 120°-130° | 157.6  | 5.6       |
| 130°-140° | 128.9  | 4.6       |
| 140°-150° | 100.6  | 3.6       |
| 150°-160° | 72.6   | 2.6       |
| 160°-170° | 44.4   | 1.6       |
| 170°-180° | 15.0   | 0.5       |
| 0°-30°    | 541.5  | 19.1      |
| 0°-40°    | 877.1  | 31.0      |
| 0°-60°    | 1515.9 | 53.5      |
| 0°-90°    | 1859.8 | 65.7      |
| 90°-120°  | 453.7  | 16.0      |
| 90°-150°  | 840.8  | 29.7      |
| 90°-180°  | 973.0  | 34.4      |
| 0°-180°   | 2832.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 749 | 749 | 749  | 749  | 749  |      |
| 5°   | 737 | 772 | 737  | 615  | 737  | 70   |
| 15°  | 699 | 763 | 699  | 598  | 699  | 196  |
| 25°  | 606 | 705 | 606  | 592  | 606  | 277  |
| 35°  | 447 | 609 | 447  | 531  | 447  | 278  |
| 45°  | 328 | 493 | 328  | 464  | 328  | 251  |
| 55°  | 252 | 351 | 252  | 374  | 252  | 218  |
| 65°  | 142 | 203 | 142  | 267  | 142  | 142  |
| 75°  | 61  | 87  | 61   | 139  | 61   | 66   |
| 85°  | 12  | 12  | 12   | 23   | 12   | 15   |
| 90°  | 0   | 3   | 0    | 3    | 0    | 1    |
| 95°  | 9   | 28  | 9    | 28   | 9    | 10   |
| 105° | 35  | 354 | 35   | 354  | 35   | 37   |
| 115° | 62  | 381 | 62   | 381  | 62   | 61   |
| 125° | 86  | 300 | 86   | 300  | 86   | 76   |
| 135° | 103 | 248 | 103  | 248  | 103  | 80   |
| 145° | 120 | 208 | 120  | 208  | 120  | 75   |
| 155° | 138 | 177 | 138  | 177  | 138  | 63   |
| 165° | 151 | 164 | 151  | 164  | 151  | 42   |
| 175° | 157 | 157 | 157  | 157  | 157  | 15   |
| 180° | 157 | 157 | 157  | 157  | 157  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°     | 748.7 | 748.7 | 748.7 | 748.7 | 748.7 | 748.7  | 748.7 | 748.7  | 748.7 | 748.7  | 748.7 |
| 2.5°   | 744.0 | 755.4 | 755.6 | 755.6 | 755.6 | 755.6  | 755.6 | 755.4  | 744.0 | 744.0  | 732.4 |
| 5°     | 737.1 | 756.9 | 763.2 | 766.2 | 771.9 | 766.2  | 763.2 | 756.9  | 737.1 | 728.6  | 681.9 |
| 7.5°   | 730.1 | 756.8 | 766.1 | 771.4 | 774.2 | 771.4  | 766.1 | 756.8  | 730.1 | 692.1  | 594.3 |
| 10°    | 725.5 | 756.7 | 766.1 | 769.1 | 771.9 | 769.1  | 766.1 | 756.7  | 725.5 | 648.9  | 568.8 |
| 12.5°  | 718.5 | 752.0 | 763.8 | 766.7 | 769.6 | 766.7  | 763.8 | 752.0  | 718.5 | 610.1  | 550.2 |
| 15°    | 699.3 | 744.7 | 754.5 | 760.4 | 763.2 | 760.4  | 754.5 | 744.7  | 699.3 | 577.3  | 536.8 |
| 17.5°  | 675.6 | 730.6 | 743.5 | 748.7 | 751.0 | 748.7  | 743.5 | 730.6  | 675.6 | 547.9  | 537.4 |
| 20°    | 661.6 | 721.2 | 734.2 | 737.1 | 737.1 | 737.1  | 734.2 | 721.2  | 661.6 | 533.9  | 551.4 |
| 22.5°  | 643.1 | 709.4 | 722.6 | 723.2 | 725.5 | 723.2  | 722.6 | 709.4  | 643.1 | 517.6  | 558.3 |
| 25°    | 606.5 | 683.1 | 702.3 | 699.5 | 705.2 | 699.5  | 702.3 | 683.1  | 606.5 | 495.8  | 557.2 |
| 27.5°  | 561.8 | 658.3 | 672.1 | 675.0 | 675.0 | 675.0  | 672.1 | 658.3  | 561.8 | 474.4  | 545.5 |
| 30°    | 533.9 | 641.8 | 655.8 | 658.7 | 658.7 | 658.7  | 655.8 | 641.8  | 533.9 | 460.2  | 533.9 |
| 32.5°  | 499.1 | 627.4 | 639.6 | 640.2 | 640.2 | 640.2  | 639.6 | 627.4  | 499.1 | 445.8  | 515.4 |
| 35°    | 446.9 | 602.9 | 612.3 | 612.2 | 609.4 | 612.2  | 612.3 | 602.9  | 446.9 | 424.2  | 493.3 |
| 37.5°  | 394.7 | 571.7 | 584.4 | 580.3 | 577.5 | 580.3  | 584.4 | 571.7  | 394.7 | 402.0  | 474.7 |
| 40°    | 359.8 | 552.8 | 565.9 | 557.1 | 554.3 | 557.1  | 565.9 | 552.8  | 359.8 | 385.4  | 458.5 |
| 42.5°  | 341.3 | 531.9 | 545.0 | 533.9 | 531.0 | 533.9  | 545.0 | 531.9  | 341.3 | 369.1  | 444.6 |
| 45°    | 327.9 | 498.2 | 510.7 | 499.0 | 493.3 | 499.0  | 510.7 | 498.2  | 327.9 | 344.9  | 420.8 |
| 47.5°  | 307.6 | 457.4 | 475.3 | 457.8 | 452.1 | 457.8  | 475.3 | 457.4  | 307.6 | 320.1  | 399.3 |
| 50°    | 284.4 | 431.9 | 449.8 | 432.2 | 426.6 | 432.2  | 449.8 | 431.9  | 284.4 | 301.4  | 383.0 |
| 52.5°  | 268.1 | 406.6 | 421.9 | 402.1 | 396.4 | 402.1  | 421.9 | 406.6  | 268.1 | 278.3  | 369.1 |
| 55°    | 252.5 | 368.8 | 380.1 | 359.6 | 351.1 | 359.6  | 380.1 | 368.8  | 252.5 | 243.9  | 342.4 |
| 57.5°  | 215.9 | 326.6 | 338.4 | 314.9 | 305.3 | 314.9  | 338.4 | 326.6  | 215.9 | 208.5  | 314.6 |
| 60°    | 197.3 | 296.6 | 310.5 | 287.0 | 272.8 | 287.0  | 310.5 | 296.6  | 197.3 | 183.1  | 296.0 |
| 62.5°  | 176.4 | 264.4 | 282.6 | 259.1 | 244.9 | 259.1  | 282.6 | 264.4  | 176.4 | 166.8  | 275.1 |
| 65°    | 142.2 | 218.8 | 240.9 | 217.3 | 203.1 | 217.3  | 240.9 | 218.8  | 142.2 | 147.9  | 240.9 |
| 67.5°  | 111.4 | 177.3 | 202.0 | 176.2 | 164.8 | 176.2  | 202.0 | 177.3  | 111.4 | 130.2  | 209.5 |
| 70°    | 92.9  | 149.6 | 174.1 | 150.6 | 139.3 | 150.6  | 174.1 | 149.6  | 92.9  | 118.4  | 188.6 |
| 72.5°  | 81.3  | 124.4 | 150.9 | 125.2 | 116.1 | 125.2  | 150.9 | 124.4  | 81.3  | 106.8  | 163.1 |
| 75°    | 60.9  | 86.5  | 116.1 | 92.7  | 87.1  | 92.7   | 116.1 | 86.5   | 60.9  | 86.5   | 127.7 |
| 77.5°  | 44.1  | 56.0  | 81.8  | 62.0  | 59.8  | 62.0   | 81.8  | 56.0   | 44.1  | 65.1   | 92.9  |
| 80°    | 34.8  | 37.7  | 60.9  | 43.5  | 43.5  | 43.5   | 60.9  | 37.7   | 34.8  | 49.0   | 69.6  |
| 82.5°  | 23.2  | 26.1  | 42.4  | 29.5  | 27.3  | 29.5   | 42.4  | 26.1   | 23.2  | 35.1   | 48.8  |
| 85°    | 11.6  | 11.6  | 17.4  | 11.6  | 11.6  | 11.6   | 17.4  | 11.6   | 11.6  | 17.3   | 23.2  |
| 87.5°  | 2.3   | 2.5   | 5.2   | 2.9   | 2.9   | 2.9    | 5.2   | 2.5    | 2.3   | 4.8    | 5.2   |
| 90°    | 0.0   | 0.9   | 2.9   | 2.9   | 2.9   | 2.9    | 2.9   | 0.9    | 0.0   | 0.9    | 2.9   |
| 92.5°  | 3.1   | 10.8  | 36.7  | 12.1  | 9.8   | 12.1   | 36.7  | 10.8   | 3.1   | 10.8   | 36.7  |
| 95°    | 8.7   | 25.6  | 116.3 | 42.9  | 27.9  | 42.9   | 116.3 | 25.6   | 8.7   | 25.6   | 116.3 |
| 97.5°  | 15.8  | 33.3  | 192.7 | 119.9 | 75.6  | 119.9  | 192.7 | 33.3   | 15.8  | 33.3   | 192.7 |
| 100°   | 21.2  | 37.1  | 217.3 | 203.3 | 135.6 | 203.3  | 217.3 | 37.1   | 21.2  | 37.1   | 217.3 |
| 102.5° | 26.5  | 41.8  | 212.7 | 290.3 | 227.9 | 290.3  | 212.7 | 41.8   | 26.5  | 41.8   | 212.7 |
| 105°   | 34.6  | 48.7  | 194.2 | 370.7 | 353.8 | 370.7  | 194.2 | 48.7   | 34.6  | 48.7   | 194.2 |
| 107.5° | 42.7  | 55.9  | 176.5 | 376.9 | 395.6 | 376.9  | 176.5 | 55.9   | 42.7  | 55.9   | 176.5 |
| 110°   | 48.1  | 61.2  | 167.3 | 368.1 | 404.8 | 368.1  | 167.3 | 61.2   | 48.1  | 61.2   | 167.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 53.5  | 65.9  | 162.7 | 352.2 | 398.6 | 352.2  | 162.7 | 65.9   | 53.5  | 65.9   | 162.7 |
| 115°   | 61.5  | 72.8  | 157.7 | 325.3 | 380.7 | 325.3  | 157.7 | 72.8   | 61.5  | 72.8   | 157.7 |
| 117.5° | 69.4  | 79.8  | 155.6 | 299.5 | 356.3 | 299.5  | 155.6 | 79.8   | 69.4  | 79.8   | 155.6 |
| 120°   | 74.0  | 84.4  | 154.8 | 284.9 | 339.4 | 284.9  | 154.8 | 84.4   | 74.0  | 84.4   | 154.8 |
| 122.5° | 78.6  | 89.0  | 155.6 | 272.5 | 322.5 | 272.5  | 155.6 | 89.0   | 78.6  | 89.0   | 155.6 |
| 125°   | 85.6  | 95.0  | 155.8 | 255.8 | 300.0 | 255.8  | 155.8 | 95.0   | 85.6  | 95.0   | 155.8 |
| 127.5° | 91.1  | 100.7 | 155.8 | 243.3 | 280.9 | 243.3  | 155.8 | 100.7  | 91.1  | 100.7  | 155.8 |
| 130°   | 94.2  | 104.6 | 155.8 | 236.3 | 270.2 | 236.3  | 155.8 | 104.6  | 94.2  | 104.6  | 155.8 |
| 132.5° | 98.1  | 108.4 | 155.0 | 230.1 | 261.7 | 230.1  | 155.0 | 108.4  | 98.1  | 108.4  | 155.0 |
| 135°   | 102.9 | 114.2 | 154.8 | 220.8 | 248.1 | 220.8  | 154.8 | 114.2  | 102.9 | 114.2  | 154.8 |
| 137.5° | 108.5 | 118.8 | 154.8 | 211.5 | 236.3 | 211.5  | 154.8 | 118.8  | 108.5 | 118.8  | 154.8 |
| 140°   | 111.5 | 121.9 | 154.8 | 205.3 | 227.9 | 205.3  | 154.8 | 121.9  | 111.5 | 121.9  | 154.8 |
| 142.5° | 115.4 | 125.0 | 154.8 | 199.1 | 219.4 | 199.1  | 154.8 | 125.0  | 115.4 | 125.0  | 154.8 |
| 145°   | 120.2 | 129.6 | 154.8 | 190.8 | 207.7 | 190.8  | 154.8 | 129.6  | 120.2 | 129.6  | 154.8 |
| 147.5° | 126.0 | 134.0 | 155.8 | 183.0 | 196.3 | 183.0  | 155.8 | 134.0  | 126.0 | 134.0  | 155.8 |
| 150°   | 129.8 | 136.4 | 155.8 | 179.1 | 189.4 | 179.1  | 155.8 | 136.4  | 129.8 | 136.4  | 155.8 |
| 152.5° | 132.9 | 138.7 | 155.8 | 175.2 | 184.0 | 175.2  | 155.8 | 138.7  | 132.9 | 138.7  | 155.8 |
| 155°   | 137.5 | 142.2 | 155.8 | 171.3 | 176.9 | 171.3  | 155.8 | 142.2  | 137.5 | 142.2  | 155.8 |
| 157.5° | 142.1 | 145.7 | 155.8 | 167.8 | 171.3 | 167.8  | 155.8 | 145.7  | 142.1 | 145.7  | 155.8 |
| 160°   | 145.2 | 148.0 | 155.8 | 165.4 | 168.3 | 165.4  | 155.8 | 148.0  | 145.2 | 148.0  | 155.8 |
| 162.5° | 147.5 | 149.6 | 155.8 | 163.9 | 166.0 | 163.9  | 155.8 | 149.6  | 147.5 | 149.6  | 155.8 |
| 165°   | 151.0 | 151.9 | 156.7 | 161.6 | 163.5 | 161.6  | 156.7 | 151.9  | 151.0 | 151.9  | 156.7 |
| 167.5° | 153.1 | 153.3 | 155.8 | 160.2 | 161.1 | 160.2  | 155.8 | 153.3  | 153.1 | 153.3  | 155.8 |
| 170°   | 153.8 | 154.8 | 155.8 | 158.7 | 159.6 | 158.7  | 155.8 | 154.8  | 153.8 | 154.8  | 155.8 |
| 172.5° | 155.4 | 155.6 | 156.5 | 157.9 | 158.1 | 157.9  | 156.5 | 155.6  | 155.4 | 155.6  | 156.5 |
| 175°   | 156.7 | 156.7 | 156.7 | 157.7 | 156.7 | 157.7  | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 |
| 177.5° | 156.7 | 156.7 | 156.7 | 156.7 | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 |
| 180°   | 156.7 | 156.7 | 156.7 | 156.7 | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|-------|--------|-------|--------|-------|
| 0°     | 748.7  | 748.7 | 748.7  | 748.7 | 748.7  | 748.7 |
| 2.5°   | 725.4  | 723.1 | 725.4  | 732.4 | 744.0  | 744.0 |
| 5°     | 629.4  | 615.2 | 629.4  | 681.9 | 728.6  | 737.1 |
| 7.5°   | 572.1  | 567.6 | 572.1  | 594.3 | 692.1  | 730.1 |
| 10°    | 551.4  | 551.4 | 551.4  | 568.8 | 648.9  | 725.5 |
| 12.5°  | 549.3  | 560.6 | 549.3  | 550.2 | 610.1  | 718.5 |
| 15°    | 583.6  | 597.8 | 583.6  | 536.8 | 577.3  | 699.3 |
| 17.5°  | 595.1  | 606.5 | 595.1  | 537.4 | 547.9  | 675.6 |
| 20°    | 595.1  | 606.5 | 595.1  | 551.4 | 533.9  | 661.6 |
| 22.5°  | 592.8  | 604.2 | 592.8  | 558.3 | 517.6  | 643.1 |
| 25°    | 586.3  | 592.0 | 586.3  | 557.2 | 495.8  | 606.5 |
| 27.5°  | 574.7  | 578.6 | 574.7  | 545.5 | 474.4  | 561.8 |
| 30°    | 563.2  | 571.7 | 563.2  | 533.9 | 460.2  | 533.9 |
| 32.5°  | 551.4  | 553.1 | 551.4  | 515.4 | 445.8  | 499.1 |
| 35°    | 533.9  | 531.0 | 533.9  | 493.3 | 424.2  | 446.9 |
| 37.5°  | 510.2  | 513.6 | 510.2  | 474.7 | 402.0  | 394.7 |
| 40°    | 496.3  | 502.0 | 496.3  | 458.5 | 385.4  | 359.8 |
| 42.5°  | 482.4  | 488.1 | 482.4  | 444.6 | 369.1  | 341.3 |
| 45°    | 461.5  | 464.3 | 461.5  | 420.8 | 344.9  | 327.9 |
| 47.5°  | 437.1  | 439.9 | 437.1  | 399.3 | 320.1  | 307.6 |
| 50°    | 420.8  | 423.7 | 420.8  | 383.0 | 301.4  | 284.4 |
| 52.5°  | 402.3  | 405.1 | 402.3  | 369.1 | 278.3  | 268.1 |
| 55°    | 374.3  | 374.3 | 374.3  | 342.4 | 243.9  | 252.5 |
| 57.5°  | 342.5  | 345.9 | 342.5  | 314.6 | 208.5  | 215.9 |
| 60°    | 319.3  | 325.0 | 319.3  | 296.0 | 183.1  | 197.3 |
| 62.5°  | 298.4  | 301.8 | 298.4  | 275.1 | 166.8  | 176.4 |
| 65°    | 264.1  | 267.0 | 264.1  | 240.9 | 147.9  | 142.2 |
| 67.5°  | 225.8  | 228.1 | 225.8  | 209.5 | 130.2  | 111.4 |
| 70°    | 200.2  | 200.2 | 200.2  | 188.6 | 118.4  | 92.9  |
| 72.5°  | 174.7  | 177.0 | 174.7  | 163.1 | 106.8  | 81.3  |
| 75°    | 136.5  | 139.3 | 136.5  | 127.7 | 86.5   | 60.9  |
| 77.5°  | 98.1   | 101.0 | 98.1   | 92.9  | 65.1   | 44.1  |
| 80°    | 72.6   | 75.4  | 72.6   | 69.6  | 49.0   | 34.8  |
| 82.5°  | 51.7   | 52.2  | 51.7   | 48.8  | 35.1   | 23.2  |
| 85°    | 23.2   | 23.2  | 23.2   | 23.2  | 17.3   | 11.6  |
| 87.5°  | 5.2    | 5.2   | 5.2    | 5.2   | 4.8    | 2.3   |
| 90°    | 2.9    | 2.9   | 2.9    | 2.9   | 0.9    | 0.0   |
| 92.5°  | 12.1   | 9.8   | 12.1   | 36.7  | 10.8   | 3.1   |
| 95°    | 42.9   | 27.9  | 42.9   | 116.3 | 25.6   | 8.7   |
| 97.5°  | 119.9  | 75.6  | 119.9  | 192.7 | 33.3   | 15.8  |
| 100°   | 203.3  | 135.6 | 203.3  | 217.3 | 37.1   | 21.2  |
| 102.5° | 290.3  | 227.9 | 290.3  | 212.7 | 41.8   | 26.5  |
| 105°   | 370.7  | 353.8 | 370.7  | 194.2 | 48.7   | 34.6  |
| 107.5° | 376.9  | 395.6 | 376.9  | 176.5 | 55.9   | 42.7  |
| 110°   | 368.1  | 404.8 | 368.1  | 167.3 | 61.2   | 48.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 352.2  | 398.6 | 352.2  | 162.7 | 65.9   | 53.5  |
| 115°   | 325.3  | 380.7 | 325.3  | 157.7 | 72.8   | 61.5  |
| 117.5° | 299.5  | 356.3 | 299.5  | 155.6 | 79.8   | 69.4  |
| 120°   | 284.9  | 339.4 | 284.9  | 154.8 | 84.4   | 74.0  |
| 122.5° | 272.5  | 322.5 | 272.5  | 155.6 | 89.0   | 78.6  |
| 125°   | 255.8  | 300.0 | 255.8  | 155.8 | 95.0   | 85.6  |
| 127.5° | 243.3  | 280.9 | 243.3  | 155.8 | 100.7  | 91.1  |
| 130°   | 236.3  | 270.2 | 236.3  | 155.8 | 104.6  | 94.2  |
| 132.5° | 230.1  | 261.7 | 230.1  | 155.0 | 108.4  | 98.1  |
| 135°   | 220.8  | 248.1 | 220.8  | 154.8 | 114.2  | 102.9 |
| 137.5° | 211.5  | 236.3 | 211.5  | 154.8 | 118.8  | 108.5 |
| 140°   | 205.3  | 227.9 | 205.3  | 154.8 | 121.9  | 111.5 |
| 142.5° | 199.1  | 219.4 | 199.1  | 154.8 | 125.0  | 115.4 |
| 145°   | 190.8  | 207.7 | 190.8  | 154.8 | 129.6  | 120.2 |
| 147.5° | 183.0  | 196.3 | 183.0  | 155.8 | 134.0  | 126.0 |
| 150°   | 179.1  | 189.4 | 179.1  | 155.8 | 136.4  | 129.8 |
| 152.5° | 175.2  | 184.0 | 175.2  | 155.8 | 138.7  | 132.9 |
| 155°   | 171.3  | 176.9 | 171.3  | 155.8 | 142.2  | 137.5 |
| 157.5° | 167.8  | 171.3 | 167.8  | 155.8 | 145.7  | 142.1 |
| 160°   | 165.4  | 168.3 | 165.4  | 155.8 | 148.0  | 145.2 |
| 162.5° | 163.9  | 166.0 | 163.9  | 155.8 | 149.6  | 147.5 |
| 165°   | 161.6  | 163.5 | 161.6  | 156.7 | 151.9  | 151.0 |
| 167.5° | 160.2  | 161.1 | 160.2  | 155.8 | 153.3  | 153.1 |
| 170°   | 158.7  | 159.6 | 158.7  | 155.8 | 154.8  | 153.8 |
| 172.5° | 157.9  | 158.1 | 157.9  | 156.5 | 155.6  | 155.4 |
| 175°   | 157.7  | 156.7 | 157.7  | 156.7 | 156.7  | 156.7 |
| 177.5° | 156.7  | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 |
| 180°   | 156.7  | 156.7 | 156.7  | 156.7 | 156.7  | 156.7 |

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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 | 16.34            | 17.36 | 17.15 | 18.19 | 19.22 | 17.57          | 18.59 | 18.38 | 19.42 | 20.45 |
|                 | 3H   | 17.44            | 18.36 | 18.27 | 19.20 | 20.26 | 18.82          | 19.74 | 19.65 | 20.58 | 21.64 |
|                 | 4H   | 17.80            | 18.67 | 18.64 | 19.52 | 20.59 | 19.22          | 20.08 | 20.06 | 20.93 | 22.00 |
|                 | 6H   | 17.98            | 18.77 | 18.83 | 19.63 | 20.71 | 19.39          | 20.18 | 20.24 | 21.04 | 22.12 |
|                 | 8H   | 18.01            | 18.77 | 18.88 | 19.65 | 20.73 | 19.42          | 20.18 | 20.28 | 21.05 | 22.13 |
|                 | 12H  | 18.02            | 18.74 | 18.88 | 19.61 | 20.72 | 19.41          | 20.13 | 20.28 | 21.00 | 22.11 |
| 4H              | 2H   | 17.29            | 18.15 | 18.14 | 19.00 | 20.07 | 18.20          | 19.06 | 19.05 | 19.91 | 20.98 |
|                 | 3H   | 18.67            | 19.39 | 19.53 | 20.27 | 21.36 | 19.67          | 20.39 | 20.52 | 21.27 | 22.35 |
|                 | 4H   | 19.13            | 19.78 | 19.99 | 20.66 | 21.77 | 20.14          | 20.79 | 21.01 | 21.67 | 22.79 |
|                 | 6H   | 19.36            | 19.93 | 20.25 | 20.83 | 21.94 | 20.37          | 20.94 | 21.26 | 21.84 | 22.95 |
|                 | 8H   | 19.42            | 19.95 | 20.31 | 20.85 | 21.98 | 20.42          | 20.95 | 21.31 | 21.85 | 22.98 |
|                 | 12H  | 19.43            | 19.91 | 20.34 | 20.82 | 21.96 | 20.42          | 20.89 | 21.33 | 21.81 | 22.94 |
| 8H              | 4H   | 19.54            | 20.06 | 20.43 | 20.96 | 22.09 | 20.36          | 20.89 | 21.25 | 21.79 | 22.92 |
|                 | 6H   | 19.89            | 20.32 | 20.80 | 21.27 | 22.39 | 20.68          | 21.12 | 21.60 | 22.06 | 23.18 |
|                 | 8H   | 20.01            | 20.39 | 20.93 | 21.32 | 22.47 | 20.78          | 21.16 | 21.70 | 22.09 | 23.24 |
|                 | 12H  | 20.05            | 20.39 | 20.98 | 21.31 | 22.51 | 20.80          | 21.14 | 21.72 | 22.06 | 23.26 |
| 12H             | 4H   | 19.55            | 20.02 | 20.46 | 20.94 | 22.07 | 20.34          | 20.81 | 21.25 | 21.73 | 22.86 |
|                 | 6H   | 19.96            | 20.35 | 20.89 | 21.28 | 22.43 | 20.70          | 21.09 | 21.63 | 22.02 | 23.17 |
|                 | 8H   | 20.11            | 20.45 | 21.04 | 21.38 | 22.57 | 20.82          | 21.16 | 21.75 | 22.09 | 23.28 |