

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: NEO-RAY

Report Number: P1051094

Luminaire Tested: S122DP-B290DB2750-4F0-XX-W2A-W\_3500K

Issue Date: 7/9/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1051094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-143-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/9/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DP-B290DB2750-4F0-XX-W2A-W\_3500K  
Description: Define 2 Direct Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1325.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 0.9 / 1.12  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

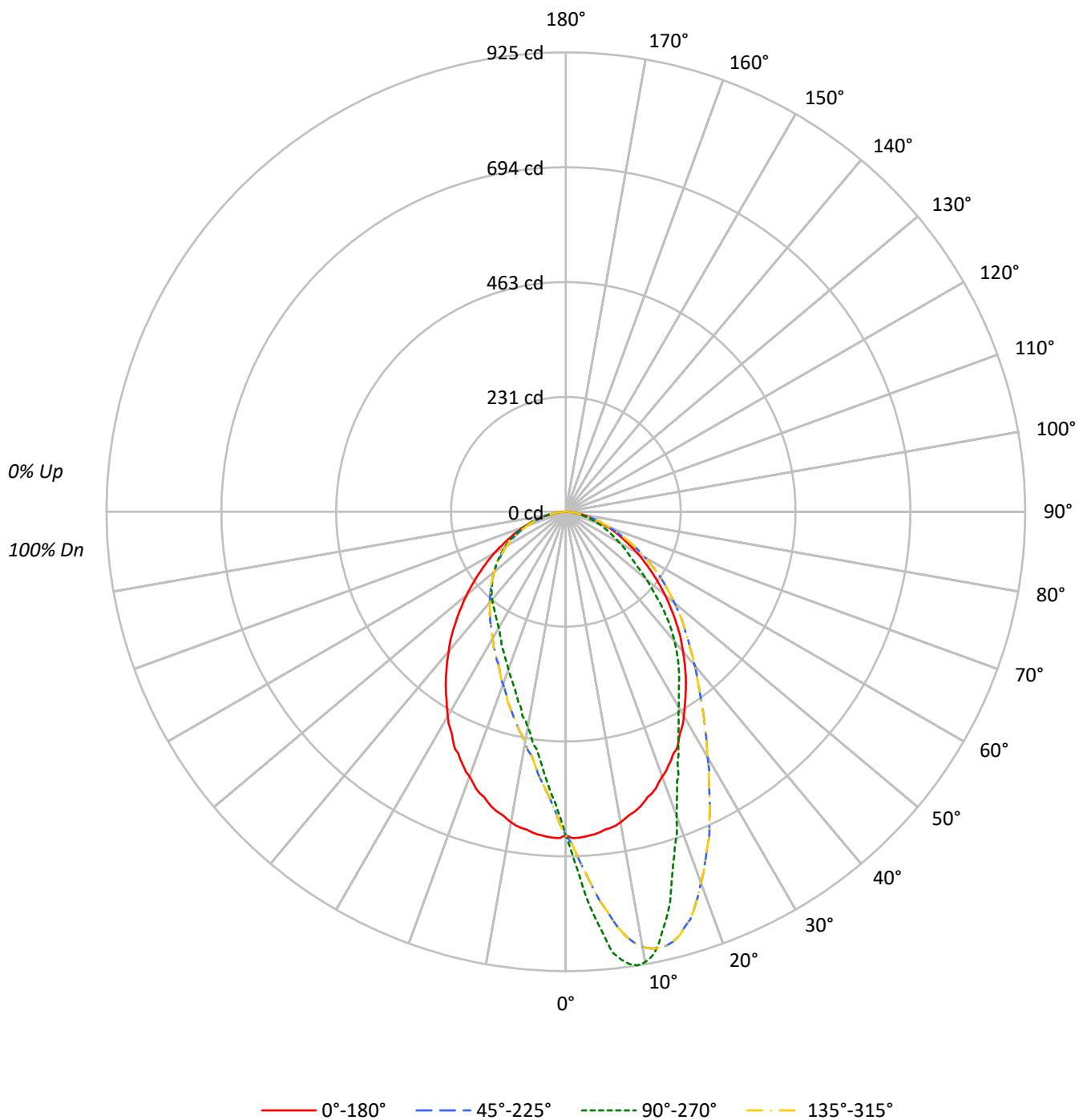
Input Watts (W): 13  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P1051094

CATALOG NUMBER: S122DP-B290DB2750-4F0-XX-W2A-W\_3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P1051094

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### COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|---|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 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   |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |   |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |  |  |   |
| 2   | 101 | 94  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |  |  |   |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |  |  |   |
| 4   | 86  | 75  | 67  | 60  | 83  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 56  |  |  |   |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 49  |  |  |   |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 46  | 44  |  |  |   |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |  |  |   |
| 8   | 64  | 51  | 43  | 38  | 63  | 51  | 43  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |  |  |   |
| 9   | 60  | 48  | 40  | 35  | 59  | 47  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |  |  |   |
| 10  | 57  | 44  | 37  | 32  | 55  | 44  | 36  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 30  |  |  |   |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10308 | 10308 | 10308 | 10308 |
| 5°  | 10362 | 13519 | 10362 | 8293  |
| 10° | 10208 | 14799 | 10208 | 7079  |
| 15° | 9931  | 13312 | 9931  | 6278  |
| 20° | 9553  | 10985 | 9553  | 5692  |
| 25° | 9217  | 9388  | 9217  | 5276  |
| 30° | 8688  | 8304  | 8688  | 4941  |
| 35° | 8147  | 7679  | 8147  | 4800  |
| 40° | 7584  | 7030  | 7584  | 4771  |
| 45° | 7014  | 6192  | 7014  | 4710  |
| 50° | 6425  | 5213  | 6425  | 4652  |
| 55° | 5807  | 4385  | 5807  | 4570  |
| 60° | 5271  | 3954  | 5271  | 4477  |
| 65° | 4693  | 3588  | 4693  | 4394  |
| 70° | 4226  | 3230  | 4226  | 4165  |
| 75° | 3615  | 2819  | 3615  | 3804  |
| 80° | 2935  | 2370  | 2935  | 3181  |
| 85° | 2198  | 1780  | 2198  | 2270  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $22.5^\circ$

Vertical Angle:  $45^\circ$

Luminance: 11182 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.1   | 4.8       |
| 10°-20°   | 175.9  | 13.3      |
| 20°-30°   | 230.7  | 17.4      |
| 30°-40°   | 243.8  | 18.4      |
| 40°-50°   | 226.4  | 17.1      |
| 50°-60°   | 181.2  | 13.7      |
| 60°-70°   | 123.9  | 9.4       |
| 70°-80°   | 63.9   | 4.8       |
| 80°-90°   | 15.2   | 1.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 470.6  | 35.5      |
| 0°-40°    | 714.4  | 53.9      |
| 0°-60°    | 1122.0 | 84.7      |
| 0°-90°    | 1325.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1325.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 651 | 651 | 651  | 651  | 651  |      |
| 5°  | 652 | 851 | 652  | 522  | 652  | 62   |
| 15° | 606 | 812 | 606  | 383  | 606  | 170  |
| 25° | 528 | 538 | 528  | 302  | 528  | 241  |
| 35° | 422 | 397 | 422  | 248  | 422  | 263  |
| 45° | 313 | 277 | 313  | 210  | 313  | 242  |
| 55° | 210 | 159 | 210  | 166  | 210  | 189  |
| 65° | 125 | 96  | 125  | 117  | 125  | 125  |
| 75° | 59  | 46  | 59   | 62   | 59   | 63   |
| 85° | 12  | 10  | 12   | 12   | 12   | 15   |
| 90° | 0   | 0   | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 651.2 | 651.2 | 651.2 | 651.2 | 651.2 | 651.2  | 651.2 | 651.2  | 651.2 | 651.2  | 651.2 |
| 1°    | 657.0 | 668.7 | 667.8 | 683.4 | 687.0 | 683.4  | 667.8 | 668.7  | 657.0 | 644.1  | 632.0 |
| 2°    | 657.0 | 683.4 | 695.5 | 720.1 | 727.3 | 720.1  | 695.5 | 683.4  | 657.0 | 629.3  | 604.2 |
| 3°    | 656.1 | 696.4 | 725.1 | 759.1 | 776.1 | 759.1  | 725.1 | 696.4  | 656.1 | 615.9  | 581.4 |
| 4°    | 653.9 | 709.9 | 755.1 | 800.3 | 815.5 | 800.3  | 755.1 | 709.9  | 653.9 | 602.9  | 563.9 |
| 5°    | 652.1 | 726.9 | 786.4 | 841.0 | 850.8 | 841.0  | 786.4 | 726.9  | 652.1 | 590.3  | 546.9 |
| 6°    | 649.0 | 743.9 | 811.4 | 871.4 | 891.6 | 871.4  | 811.4 | 743.9  | 649.0 | 578.3  | 531.7 |
| 7°    | 645.0 | 755.1 | 839.6 | 895.6 | 908.1 | 895.6  | 839.6 | 755.1  | 645.0 | 564.4  | 512.5 |
| 8°    | 643.2 | 773.4 | 862.0 | 914.8 | 919.8 | 914.8  | 862.0 | 773.4  | 643.2 | 551.4  | 495.5 |
| 9°    | 640.0 | 781.0 | 878.1 | 920.7 | 924.7 | 920.7  | 878.1 | 781.0  | 640.0 | 544.7  | 487.0 |
| 10°   | 635.1 | 792.7 | 889.8 | 922.4 | 920.7 | 922.4  | 889.8 | 792.7  | 635.1 | 530.8  | 472.6 |
| 11°   | 628.8 | 806.1 | 896.0 | 915.7 | 911.3 | 915.7  | 896.0 | 806.1  | 628.8 | 519.6  | 459.7 |
| 12°   | 623.0 | 815.5 | 898.7 | 903.2 | 893.4 | 903.2  | 898.7 | 815.5  | 623.0 | 509.8  | 450.7 |
| 13°   | 619.4 | 819.5 | 896.9 | 887.5 | 865.6 | 887.5  | 896.9 | 819.5  | 619.4 | 498.6  | 439.5 |
| 14°   | 613.2 | 828.5 | 892.0 | 863.4 | 840.5 | 863.4  | 892.0 | 828.5  | 613.2 | 486.1  | 429.2 |
| 15°   | 606.0 | 831.1 | 884.0 | 838.8 | 812.3 | 838.8  | 884.0 | 831.1  | 606.0 | 475.8  | 418.5 |
| 16°   | 597.5 | 834.3 | 869.2 | 808.3 | 773.0 | 808.3  | 869.2 | 834.3  | 597.5 | 464.1  | 408.6 |
| 17°   | 593.0 | 836.1 | 858.0 | 778.3 | 740.3 | 778.3  | 858.0 | 836.1  | 593.0 | 455.2  | 400.1 |
| 18°   | 585.9 | 834.7 | 837.9 | 753.3 | 710.3 | 753.3  | 837.9 | 834.7  | 585.9 | 444.9  | 387.6 |
| 19°   | 576.0 | 831.6 | 817.7 | 721.5 | 686.6 | 721.5  | 831.6 | 576.0  | 435.0 | 378.2  | 378.2 |
| 20°   | 567.1 | 830.2 | 795.3 | 692.4 | 652.1 | 692.4  | 795.3 | 830.2  | 567.1 | 426.1  | 369.2 |
| 21°   | 560.8 | 825.8 | 774.7 | 664.6 | 623.5 | 664.6  | 774.7 | 825.8  | 560.8 | 417.6  | 362.5 |
| 22.5° | 546.9 | 817.3 | 740.3 | 622.1 | 585.9 | 622.1  | 740.3 | 817.3  | 546.9 | 403.3  | 347.8 |
| 23°   | 542.9 | 814.6 | 731.3 | 612.3 | 581.4 | 612.3  | 731.3 | 814.6  | 542.9 | 400.1  | 342.8 |
| 24°   | 532.6 | 806.1 | 710.3 | 585.9 | 553.2 | 585.9  | 710.3 | 806.1  | 532.6 | 390.3  | 334.8 |
| 25°   | 527.7 | 798.0 | 684.3 | 564.4 | 537.5 | 564.4  | 684.3 | 798.0  | 527.7 | 381.3  | 329.4 |
| 26°   | 516.9 | 786.4 | 661.1 | 546.5 | 515.6 | 546.5  | 661.1 | 786.4  | 516.9 | 373.3  | 320.9 |
| 27°   | 504.4 | 777.9 | 636.9 | 525.5 | 499.5 | 525.5  | 636.9 | 777.9  | 504.4 | 364.8  | 314.2 |
| 28°   | 495.5 | 764.0 | 613.6 | 508.9 | 483.8 | 508.9  | 613.6 | 764.0  | 495.5 | 355.4  | 309.3 |
| 29°   | 487.0 | 753.3 | 594.8 | 489.6 | 467.7 | 489.6  | 594.8 | 753.3  | 487.0 | 347.3  | 301.7 |
| 30°   | 475.3 | 738.9 | 571.1 | 474.4 | 454.3 | 474.4  | 571.1 | 738.9  | 475.3 | 337.9  | 295.0 |
| 32.5° | 447.6 | 704.9 | 522.8 | 440.4 | 423.4 | 440.4  | 522.8 | 704.9  | 447.6 | 319.1  | 278.8 |
| 35°   | 421.6 | 666.9 | 478.5 | 408.6 | 397.4 | 408.6  | 478.5 | 666.9  | 421.6 | 299.0  | 265.9 |
| 37.5° | 394.3 | 627.0 | 438.2 | 380.9 | 370.1 | 380.9  | 438.2 | 627.0  | 394.3 | 280.6  | 251.1 |
| 40°   | 367.0 | 587.7 | 403.7 | 354.5 | 340.2 | 354.5  | 403.7 | 587.7  | 367.0 | 262.7  | 238.1 |
| 42.5° | 341.5 | 541.6 | 370.1 | 326.7 | 310.2 | 326.7  | 370.1 | 541.6  | 341.5 | 245.7  | 225.6 |
| 45°   | 313.3 | 499.5 | 340.2 | 297.6 | 276.6 | 297.6  | 340.2 | 499.5  | 313.3 | 229.6  | 213.0 |
| 47.5° | 286.4 | 456.1 | 314.2 | 268.5 | 241.7 | 268.5  | 314.2 | 456.1  | 286.4 | 213.5  | 201.0 |
| 50°   | 260.9 | 414.0 | 285.1 | 235.9 | 211.7 | 235.9  | 285.1 | 414.0  | 260.9 | 198.7  | 188.4 |
| 52.5° | 235.0 | 374.6 | 259.6 | 206.3 | 182.2 | 206.3  | 259.6 | 374.6  | 235.0 | 185.3  | 176.3 |
| 55°   | 210.4 | 333.4 | 234.1 | 177.7 | 158.9 | 177.7  | 234.1 | 333.4  | 210.4 | 169.6  | 162.5 |
| 57.5° | 187.5 | 294.1 | 209.0 | 155.3 | 142.8 | 155.3  | 209.0 | 294.1  | 187.5 | 154.4  | 149.9 |
| 60°   | 166.5 | 257.8 | 184.4 | 134.7 | 124.9 | 134.7  | 184.4 | 257.8  | 166.5 | 139.6  | 137.4 |
| 62.5° | 143.7 | 225.1 | 161.1 | 117.3 | 108.8 | 117.3  | 161.1 | 225.1  | 143.7 | 125.3  | 124.4 |
| 65°   | 125.3 | 192.0 | 137.0 | 101.6 | 95.8  | 101.6  | 137.0 | 192.0  | 125.3 | 111.0  | 110.6 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°  | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225° |
|-------|-------|-------|-------|-------|------|--------|-------|--------|-------|--------|------|
| 67.5° | 107.0 | 160.7 | 115.9 | 86.8  | 82.4 | 86.8   | 115.9 | 160.7  | 107.0 | 96.7   | 96.7 |
| 70°   | 91.3  | 132.5 | 95.8  | 73.4  | 69.8 | 73.4   | 95.8  | 132.5  | 91.3  | 82.4   | 82.8 |
| 72.5° | 73.8  | 106.5 | 77.9  | 60.0  | 56.8 | 60.0   | 77.9  | 106.5  | 73.8  | 68.9   | 70.3 |
| 75°   | 59.1  | 84.1  | 61.3  | 48.3  | 46.1 | 48.3   | 61.3  | 84.1   | 59.1  | 55.1   | 56.8 |
| 77.5° | 45.2  | 61.8  | 45.2  | 37.1  | 35.4 | 37.1   | 45.2  | 61.8   | 45.2  | 43.0   | 44.8 |
| 80°   | 32.2  | 43.4  | 32.2  | 26.4  | 26.0 | 26.4   | 32.2  | 43.4   | 32.2  | 30.9   | 33.1 |
| 82.5° | 21.5  | 27.7  | 21.0  | 17.9  | 17.0 | 17.9   | 21.0  | 27.7   | 21.5  | 21.0   | 21.9 |
| 85°   | 12.1  | 15.2  | 11.6  | 10.3  | 9.8  | 10.3   | 11.6  | 15.2   | 12.1  | 12.1   | 13.0 |
| 87.5° | 5.4   | 5.8   | 4.9   | 4.5   | 4.0  | 4.5    | 4.9   | 5.8    | 5.4   | 5.8    | 5.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 651.2  | 651.2 | 651.2  | 651.2 | 651.2  | 651.2 |
| 1°    | 624.4  | 618.1 | 624.4  | 632.0 | 644.1  | 657.0 |
| 2°    | 597.5  | 589.0 | 597.5  | 604.2 | 629.3  | 657.0 |
| 3°    | 569.3  | 568.0 | 569.3  | 581.4 | 615.9  | 656.1 |
| 4°    | 551.0  | 544.7 | 551.0  | 563.9 | 602.9  | 653.9 |
| 5°    | 529.0  | 521.9 | 529.0  | 546.9 | 590.3  | 652.1 |
| 6°    | 510.2  | 500.4 | 510.2  | 531.7 | 578.3  | 649.0 |
| 7°    | 489.2  | 482.0 | 489.2  | 512.5 | 564.4  | 645.0 |
| 8°    | 481.1  | 472.6 | 481.1  | 495.5 | 551.4  | 643.2 |
| 9°    | 463.2  | 453.8 | 463.2  | 487.0 | 544.7  | 640.0 |
| 10°   | 452.0  | 440.4 | 452.0  | 472.6 | 530.8  | 635.1 |
| 11°   | 438.6  | 427.4 | 438.6  | 459.7 | 519.6  | 628.8 |
| 12°   | 430.6  | 420.7 | 430.6  | 450.7 | 509.8  | 623.0 |
| 13°   | 416.2  | 403.7 | 416.2  | 439.5 | 498.6  | 619.4 |
| 14°   | 405.9  | 395.2 | 405.9  | 429.2 | 486.1  | 613.2 |
| 15°   | 393.0  | 383.1 | 393.0  | 418.5 | 475.8  | 606.0 |
| 16°   | 384.5  | 371.5 | 384.5  | 408.6 | 464.1  | 597.5 |
| 17°   | 371.5  | 363.0 | 371.5  | 400.1 | 455.2  | 593.0 |
| 18°   | 362.1  | 354.0 | 362.1  | 387.6 | 444.9  | 585.9 |
| 19°   | 355.4  | 346.0 | 355.4  | 378.2 | 435.0  | 576.0 |
| 20°   | 346.0  | 337.9 | 346.0  | 369.2 | 426.1  | 567.1 |
| 21°   | 337.0  | 329.9 | 337.0  | 362.5 | 417.6  | 560.8 |
| 22.5° | 328.5  | 318.7 | 328.5  | 347.8 | 403.3  | 546.9 |
| 23°   | 323.6  | 315.5 | 323.6  | 342.8 | 400.1  | 542.9 |
| 24°   | 317.8  | 308.4 | 317.8  | 334.8 | 390.3  | 532.6 |
| 25°   | 310.2  | 302.1 | 310.2  | 329.4 | 381.3  | 527.7 |
| 26°   | 303.5  | 295.8 | 303.5  | 320.9 | 373.3  | 516.9 |
| 27°   | 296.7  | 287.3 | 296.7  | 314.2 | 364.8  | 504.4 |
| 28°   | 290.9  | 282.0 | 290.9  | 309.3 | 355.4  | 495.5 |
| 29°   | 283.3  | 274.8 | 283.3  | 301.7 | 347.3  | 487.0 |
| 30°   | 277.9  | 270.3 | 277.9  | 295.0 | 337.9  | 475.3 |
| 32.5° | 263.2  | 258.7 | 263.2  | 278.8 | 319.1  | 447.6 |
| 35°   | 250.6  | 248.4 | 250.6  | 265.9 | 299.0  | 421.6 |
| 37.5° | 241.2  | 239.5 | 241.2  | 251.1 | 280.6  | 394.3 |
| 40°   | 230.5  | 230.9 | 230.5  | 238.1 | 262.7  | 367.0 |
| 42.5° | 220.2  | 221.1 | 220.2  | 225.6 | 245.7  | 341.5 |
| 45°   | 210.4  | 210.4 | 210.4  | 213.0 | 229.6  | 313.3 |
| 47.5° | 199.2  | 200.1 | 199.2  | 201.0 | 213.5  | 286.4 |
| 50°   | 188.0  | 188.9 | 188.0  | 188.4 | 198.7  | 260.9 |
| 52.5° | 176.3  | 177.2 | 176.3  | 176.3 | 185.3  | 235.0 |
| 55°   | 163.8  | 165.6 | 163.8  | 162.5 | 169.6  | 210.4 |
| 57.5° | 150.8  | 153.1 | 150.8  | 149.9 | 154.4  | 187.5 |
| 60°   | 139.2  | 141.4 | 139.2  | 137.4 | 139.6  | 166.5 |
| 62.5° | 127.1  | 129.3 | 127.1  | 124.4 | 125.3  | 143.7 |
| 65°   | 114.6  | 117.3 | 114.6  | 110.6 | 111.0  | 125.3 |



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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315° | 337.5° | 360°  |
|-------|--------|-------|--------|------|--------|-------|
| 67.5° | 101.2  | 103.4 | 101.2  | 96.7 | 96.7   | 107.0 |
| 70°   | 88.2   | 90.0  | 88.2   | 82.8 | 82.4   | 91.3  |
| 72.5° | 74.7   | 76.5  | 74.7   | 70.3 | 68.9   | 73.8  |
| 75°   | 60.9   | 62.2  | 60.9   | 56.8 | 55.1   | 59.1  |
| 77.5° | 48.3   | 48.3  | 48.3   | 44.8 | 43.0   | 45.2  |
| 80°   | 34.9   | 34.9  | 34.9   | 33.1 | 30.9   | 32.2  |
| 82.5° | 23.3   | 23.3  | 23.3   | 21.9 | 21.0   | 21.5  |
| 85°   | 13.0   | 12.5  | 13.0   | 13.0 | 12.1   | 12.1  |
| 87.5° | 4.9    | 5.4   | 4.9    | 5.8  | 5.8    | 5.4   |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0  | 0.0    | 0.0   |

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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 | 18.97            | 20.49 | 19.33 | 20.80 | 21.12 | 16.28          | 17.81 | 16.65 | 18.12 | 18.43 |
|                 | 3H   | 20.19            | 21.55 | 20.56 | 21.88 | 22.24 | 17.61          | 18.98 | 17.99 | 19.30 | 19.67 |
|                 | 4H   | 20.58            | 21.86 | 20.98 | 22.21 | 22.59 | 18.07          | 19.35 | 18.47 | 19.70 | 20.08 |
|                 | 6H   | 20.82            | 22.01 | 21.23 | 22.37 | 22.77 | 18.37          | 19.56 | 18.78 | 19.92 | 20.31 |
|                 | 8H   | 20.88            | 22.01 | 21.31 | 22.40 | 22.80 | 18.45          | 19.58 | 18.88 | 19.97 | 20.37 |
|                 | 12H  | 20.91            | 21.99 | 21.34 | 22.37 | 22.80 | 18.49          | 19.57 | 18.92 | 19.95 | 20.38 |
| 4H              | 2H   | 19.26            | 20.54 | 19.65 | 20.89 | 21.26 | 17.24          | 18.53 | 17.64 | 18.88 | 19.25 |
|                 | 3H   | 20.75            | 21.82 | 21.16 | 22.22 | 22.62 | 18.71          | 19.78 | 19.12 | 20.18 | 20.58 |
|                 | 4H   | 21.31            | 22.27 | 21.74 | 22.68 | 23.12 | 19.23          | 20.19 | 19.66 | 20.60 | 21.04 |
|                 | 6H   | 21.68            | 22.51 | 22.13 | 22.95 | 23.41 | 19.60          | 20.43 | 20.06 | 20.88 | 21.34 |
|                 | 8H   | 21.77            | 22.55 | 22.23 | 22.99 | 23.46 | 19.70          | 20.48 | 20.16 | 20.92 | 21.39 |
|                 | 12H  | 21.82            | 22.52 | 22.30 | 23.00 | 23.47 | 19.76          | 20.46 | 20.25 | 20.94 | 21.41 |
| 8H              | 4H   | 21.45            | 22.23 | 21.91 | 22.67 | 23.14 | 19.63          | 20.41 | 20.10 | 20.86 | 21.33 |
|                 | 6H   | 21.91            | 22.56 | 22.41 | 23.05 | 23.52 | 20.08          | 20.73 | 20.58 | 21.22 | 21.69 |
|                 | 8H   | 22.06            | 22.64 | 22.57 | 23.15 | 23.63 | 20.23          | 20.80 | 20.74 | 21.31 | 21.80 |
|                 | 12H  | 22.16            | 22.67 | 22.67 | 23.17 | 23.73 | 20.33          | 20.84 | 20.84 | 21.33 | 21.90 |
| 12H             | 4H   | 21.45            | 22.14 | 21.93 | 22.62 | 23.09 | 19.68          | 20.37 | 20.16 | 20.85 | 21.32 |
|                 | 6H   | 21.92            | 22.49 | 22.43 | 23.00 | 23.49 | 20.14          | 20.72 | 20.66 | 21.23 | 21.72 |
|                 | 8H   | 22.11            | 22.62 | 22.62 | 23.11 | 23.67 | 20.33          | 20.84 | 20.84 | 21.33 | 21.90 |