

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



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1217484

Luminaire Tested: S125DRP-S1005D850-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217484  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2511-596-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-S1005D850-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

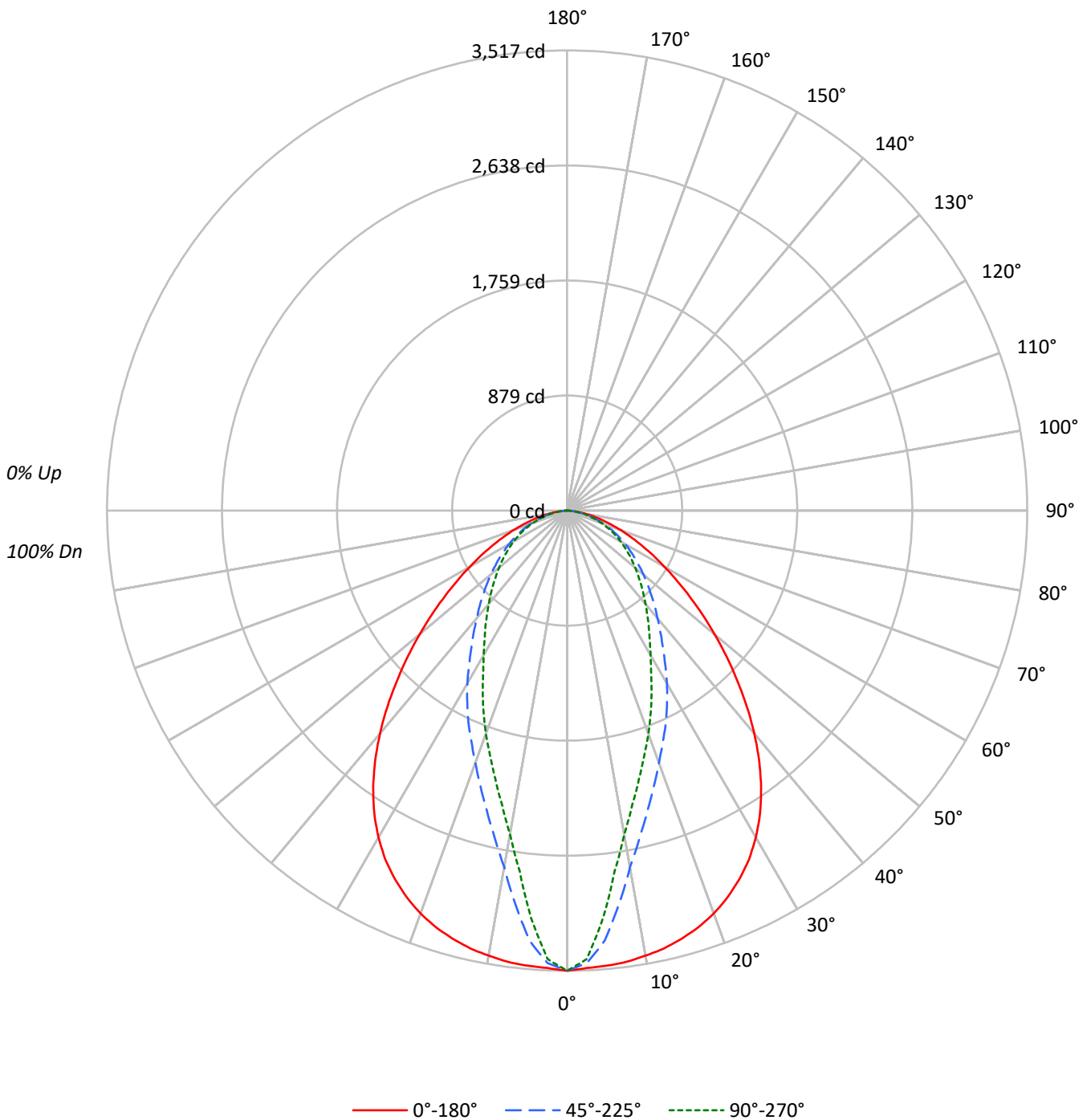
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5009.7 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87  
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.9  
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

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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  | 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 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 90  | 89  | 87  |
| 2   | 102 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 67  | 62  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 46  |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 41  | 36  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 34  |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 24865 | 24865 | 24865 |
| 5°  | 24777 | 23405 | 22229 |
| 10° | 24798 | 19873 | 18034 |
| 15° | 24787 | 17373 | 15535 |
| 20° | 24655 | 15423 | 13654 |
| 25° | 24269 | 13919 | 11896 |
| 30° | 23544 | 12449 | 10399 |
| 35° | 22307 | 10994 | 9396  |
| 40° | 20540 | 9913  | 8605  |
| 45° | 18403 | 9065  | 7970  |
| 50° | 16171 | 8378  | 7457  |
| 55° | 14053 | 7781  | 7046  |
| 60° | 12137 | 7240  | 6672  |
| 65° | 10453 | 6734  | 6276  |
| 70° | 8954  | 6157  | 5792  |
| 75° | 7479  | 5367  | 5146  |
| 80° | 5899  | 4393  | 4262  |
| 85° | 3788  | 3001  | 3001  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18403 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 301.9  | 6.0       |
| 10°-20°   | 713.0  | 14.2      |
| 20°-30°   | 905.8  | 18.1      |
| 30°-40°   | 922.5  | 18.4      |
| 40°-50°   | 816.0  | 16.3      |
| 50°-60°   | 639.5  | 12.8      |
| 60°-70°   | 436.2  | 8.7       |
| 70°-80°   | 224.6  | 4.5       |
| 80°-90°   | 50.2   | 1.0       |
| 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°    | 1920.6 | 38.3      |
| 0°-40°    | 2843.2 | 56.8      |
| 0°-60°    | 4298.7 | 85.8      |
| 0°-90°    | 5009.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5009.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3517 | 3517  | 3517 | 3517  | 3517 |      |
| 5°  | 3492 | 3474  | 3298 | 3169  | 3132 | 332  |
| 15° | 3387 | 2865  | 2374 | 2163  | 2123 | 955  |
| 25° | 3111 | 2210  | 1784 | 1572  | 1525 | 1430 |
| 35° | 2585 | 1672  | 1274 | 1113  | 1089 | 1609 |
| 45° | 1841 | 1184  | 907  | 808   | 797  | 1420 |
| 55° | 1140 | 791   | 631  | 573   | 572  | 1026 |
| 65° | 625  | 482   | 403  | 372   | 375  | 626  |
| 75° | 274  | 230   | 196  | 184   | 188  | 295  |
| 85° | 47   | 44    | 37   | 34    | 37   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3517.3 | 3517.3 | 3517.3 | 3517.3 | 3517.3 |
| 2.5°  | 3499.5 | 3526.9 | 3460.9 | 3443.2 | 3430.3 |
| 5°    | 3491.5 | 3473.8 | 3298.2 | 3169.4 | 3132.4 |
| 7.5°  | 3478.6 | 3380.4 | 3034.1 | 2815.1 | 2781.3 |
| 10°   | 3454.5 | 3233.8 | 2768.4 | 2554.2 | 2512.3 |
| 12.5° | 3427.1 | 3058.3 | 2559.0 | 2341.6 | 2301.4 |
| 15°   | 3386.8 | 2865.0 | 2373.8 | 2162.9 | 2122.6 |
| 17.5° | 3338.5 | 2681.4 | 2206.3 | 1998.6 | 1959.9 |
| 20°   | 3277.3 | 2513.9 | 2050.1 | 1853.6 | 1815.0 |
| 22.5° | 3201.6 | 2356.1 | 1911.6 | 1710.3 | 1668.4 |
| 25°   | 3111.4 | 2209.6 | 1784.4 | 1571.8 | 1525.1 |
| 27.5° | 3008.4 | 2069.4 | 1653.9 | 1433.3 | 1388.2 |
| 30°   | 2884.3 | 1932.6 | 1525.1 | 1310.9 | 1273.9 |
| 32.5° | 2744.2 | 1800.5 | 1393.1 | 1204.6 | 1174.0 |
| 35°   | 2584.8 | 1671.7 | 1273.9 | 1112.8 | 1088.7 |
| 37.5° | 2410.9 | 1544.4 | 1170.8 | 1027.5 | 1006.5 |
| 40°   | 2225.7 | 1420.4 | 1074.2 | 948.6  | 932.5  |
| 42.5° | 2034.0 | 1301.3 | 990.4  | 877.7  | 863.2  |
| 45°   | 1840.8 | 1183.7 | 906.7  | 808.5  | 797.2  |
| 47.5° | 1652.3 | 1075.8 | 832.6  | 745.6  | 736.0  |
| 50°   | 1470.4 | 974.3  | 761.8  | 684.4  | 678.0  |
| 52.5° | 1299.6 | 879.3  | 692.5  | 628.1  | 624.9  |
| 55°   | 1140.2 | 790.7  | 631.3  | 573.3  | 571.7  |
| 57.5° | 993.7  | 707.0  | 570.1  | 520.2  | 520.2  |
| 60°   | 858.4  | 628.1  | 512.1  | 468.6  | 471.9  |
| 62.5° | 737.6  | 552.4  | 457.4  | 420.3  | 423.6  |
| 65°   | 624.9  | 481.5  | 402.6  | 372.0  | 375.2  |
| 67.5° | 523.4  | 413.9  | 349.5  | 323.7  | 326.9  |
| 70°   | 433.2  | 349.5  | 297.9  | 275.4  | 280.2  |
| 72.5° | 349.5  | 289.9  | 246.4  | 228.7  | 233.5  |
| 75°   | 273.8  | 230.3  | 196.5  | 183.6  | 188.4  |
| 77.5° | 206.1  | 175.5  | 151.4  | 140.1  | 144.9  |
| 80°   | 144.9  | 125.6  | 107.9  | 99.8   | 104.7  |
| 82.5° | 90.2   | 80.5   | 70.9   | 64.4   | 67.6   |
| 85°   | 46.7   | 43.5   | 37.0   | 33.8   | 37.0   |
| 87.5° | 16.1   | 16.1   | 14.5   | 12.9   | 14.5   |
| 90°   | 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 | 20.04            | 21.53 | 20.41 | 21.84 | 22.16 | 17.43          | 18.91 | 17.79 | 19.23 | 19.54 |
|                 | 3H   | 21.63            | 22.96 | 22.01 | 23.29 | 23.65 | 19.07          | 20.40 | 19.45 | 20.73 | 21.09 |
|                 | 4H   | 22.16            | 23.41 | 22.56 | 23.76 | 24.14 | 19.65          | 20.89 | 20.05 | 21.24 | 21.62 |
|                 | 6H   | 22.50            | 23.65 | 22.91 | 24.02 | 24.41 | 20.02          | 21.17 | 20.43 | 21.54 | 21.93 |
|                 | 8H   | 22.58            | 23.68 | 23.00 | 24.06 | 24.47 | 20.12          | 21.21 | 20.54 | 21.60 | 22.00 |
|                 | 12H  | 22.61            | 23.66 | 23.04 | 24.04 | 24.47 | 20.16          | 21.21 | 20.59 | 21.59 | 22.02 |
| 4H              | 2H   | 20.28            | 21.53 | 20.68 | 21.88 | 22.26 | 18.11          | 19.36 | 18.51 | 19.71 | 20.09 |
|                 | 3H   | 22.07            | 23.10 | 22.48 | 23.50 | 23.90 | 19.93          | 20.97 | 20.34 | 21.37 | 21.77 |
|                 | 4H   | 22.71            | 23.64 | 23.15 | 24.06 | 24.50 | 20.60          | 21.53 | 21.03 | 21.95 | 22.38 |
|                 | 6H   | 23.17            | 23.97 | 23.62 | 24.42 | 24.88 | 21.06          | 21.87 | 21.52 | 22.32 | 22.78 |
|                 | 8H   | 23.28            | 24.04 | 23.74 | 24.48 | 24.95 | 21.19          | 21.94 | 21.65 | 22.39 | 22.85 |
|                 | 12H  | 23.34            | 24.01 | 23.82 | 24.49 | 24.97 | 21.26          | 21.93 | 21.74 | 22.41 | 22.88 |
| 8H              | 4H   | 22.82            | 23.58 | 23.28 | 24.02 | 24.49 | 20.89          | 21.65 | 21.36 | 22.10 | 22.56 |
|                 | 6H   | 23.35            | 23.97 | 23.85 | 24.46 | 24.94 | 21.44          | 22.07 | 21.94 | 22.56 | 23.04 |
|                 | 8H   | 23.51            | 24.07 | 24.02 | 24.58 | 25.07 | 21.61          | 22.17 | 22.13 | 22.68 | 23.17 |
|                 | 12H  | 23.62            | 24.11 | 24.13 | 24.60 | 25.17 | 21.73          | 22.22 | 22.24 | 22.71 | 23.28 |
| 12H             | 4H   | 22.81            | 23.48 | 23.29 | 23.96 | 24.44 | 20.92          | 21.59 | 21.40 | 22.07 | 22.54 |
|                 | 6H   | 23.34            | 23.90 | 23.86 | 24.41 | 24.90 | 21.48          | 22.04 | 22.00 | 22.55 | 23.04 |
|                 | 8H   | 23.54            | 24.03 | 24.05 | 24.53 | 25.09 | 21.70          | 22.19 | 22.21 | 22.68 | 23.25 |