

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: P1061737

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D935-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

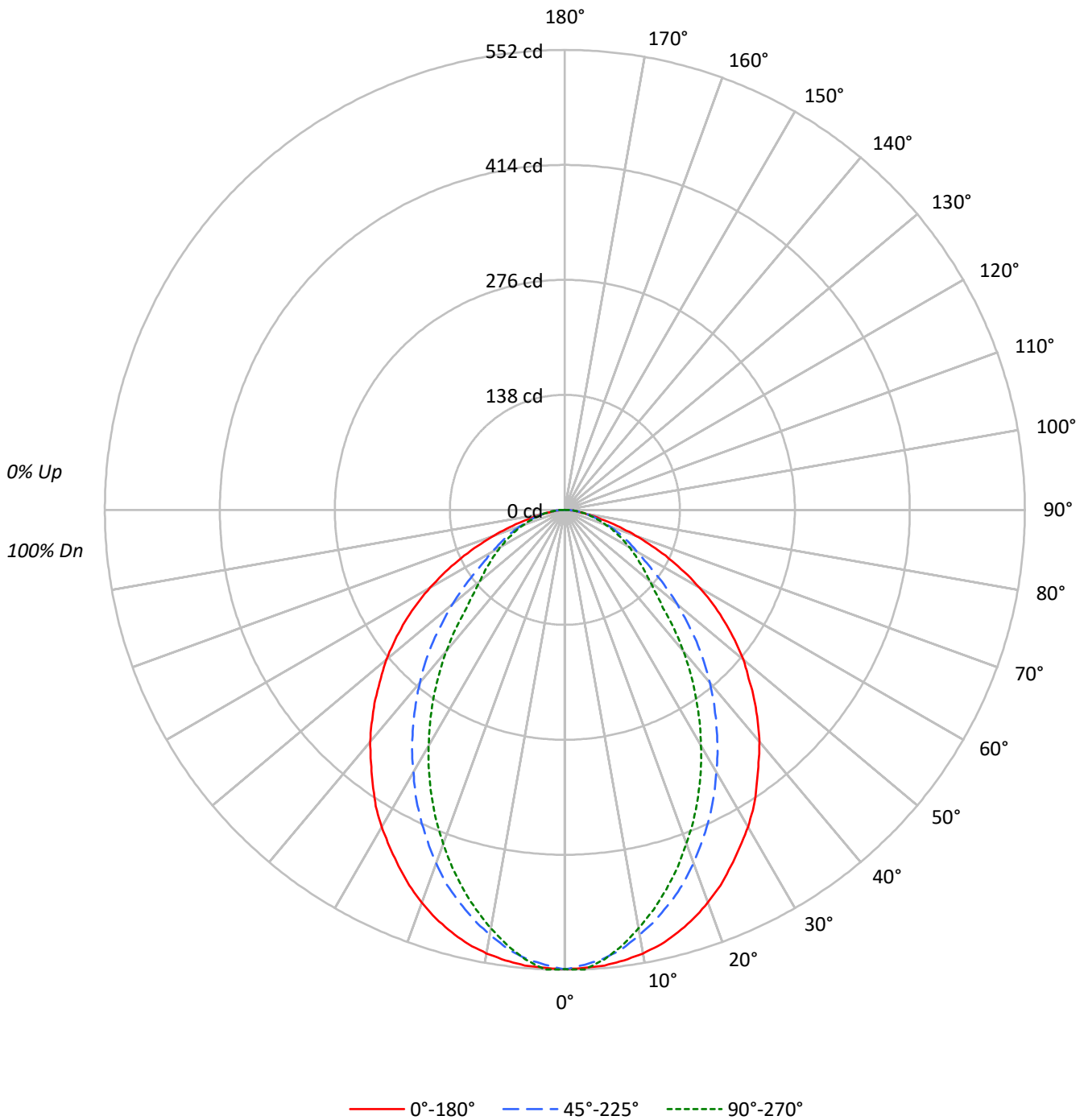
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.5 lumens  
Efficiency: N/A  
Efficacy: 53.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
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 |  |  |  |  |  |  |  |  |    |   |
| 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  | 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 |    |    |    |    | 100 |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |    |    | 87  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 80  | 77  | 75  |    |    |    |    | 75  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 93  | 84  | 77  | 71  | 91  | 82  | 76  | 70  | 80  | 74  | 69  | 77  | 72  | 68  | 74  | 70  | 67  | 65  |    |    |    |    | 65  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 86  | 76  | 68  | 61  | 84  | 74  | 67  | 61  | 72  | 65  | 60  | 70  | 64  | 59  | 67  | 63  | 59  | 57  |    |    |    |    | 57  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 59  | 54  | 65  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 52  | 50  |    |    |    |    | 50  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 74  | 62  | 54  | 48  | 73  | 61  | 53  | 48  | 59  | 53  | 47  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |    |    | 40  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |    |    | 36  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 61  | 48  | 41  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 33  |    |    |    |    | 33  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 42  | 36  | 32  | 30  |    |    |    |    | 30  |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3797 | 3797 | 3797 |
| 5°  | 3794 | 3736 | 3745 |
| 10° | 3780 | 3621 | 3566 |
| 15° | 3742 | 3478 | 3359 |
| 20° | 3676 | 3307 | 3124 |
| 25° | 3584 | 3111 | 2875 |
| 30° | 3493 | 2889 | 2599 |
| 35° | 3376 | 2667 | 2305 |
| 40° | 3266 | 2432 | 1985 |
| 45° | 3131 | 2174 | 1626 |
| 50° | 2995 | 1885 | 1424 |
| 55° | 2810 | 1574 | 1316 |
| 60° | 2564 | 1377 | 1228 |
| 65° | 2243 | 1258 | 1140 |
| 70° | 1820 | 1133 | 1061 |
| 75° | 1306 | 1035 | 987  |
| 80° | 900  | 924  | 924  |
| 85° | 664  | 806  | 853  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3131 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.3   | 4.9       |
| 10°-20°   | 138.7  | 13.3      |
| 20°-30°   | 191.7  | 18.3      |
| 30°-40°   | 204.1  | 19.5      |
| 40°-50°   | 179.3  | 17.2      |
| 50°-60°   | 136.0  | 13.0      |
| 60°-70°   | 88.3   | 8.5       |
| 70°-80°   | 43.7   | 4.2       |
| 80°-90°   | 11.5   | 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°    | 381.6  | 36.5      |
| 0°-40°    | 585.7  | 56.1      |
| 0°-60°    | 901.0  | 86.3      |
| 0°-90°    | 1044.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1044.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 551 | 551   | 551 | 551   | 551 |      |
| 5°  | 549 | 548   | 541 | 542   | 542 | 52   |
| 15° | 525 | 513   | 488 | 477   | 471 | 148  |
| 25° | 472 | 446   | 410 | 388   | 378 | 217  |
| 35° | 402 | 365   | 317 | 289   | 274 | 251  |
| 45° | 322 | 277   | 223 | 183   | 167 | 248  |
| 55° | 234 | 188   | 131 | 113   | 110 | 209  |
| 65° | 138 | 102   | 77  | 71    | 70  | 136  |
| 75° | 49  | 43    | 39  | 38    | 37  | 55   |
| 85° | 8   | 10    | 10  | 10    | 11  | 10   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 551.4 | 551.4 | 551.4 | 551.4 | 551.4 |
| 2.5°  | 550.2 | 551.4 | 546.6 | 550.8 | 552.0 |
| 5°    | 549.0 | 547.8 | 540.6 | 542.4 | 541.8 |
| 7.5°  | 545.4 | 543.0 | 531.0 | 529.8 | 527.4 |
| 10°   | 540.6 | 534.6 | 517.9 | 513.7 | 510.1 |
| 12.5° | 534.0 | 524.4 | 504.1 | 495.7 | 491.5 |
| 15°   | 525.0 | 513.1 | 487.9 | 476.6 | 471.2 |
| 17.5° | 514.3 | 497.5 | 471.2 | 455.6 | 449.6 |
| 20°   | 501.7 | 481.9 | 451.4 | 433.4 | 426.3 |
| 22.5° | 487.9 | 464.6 | 430.5 | 411.3 | 403.5 |
| 25°   | 471.8 | 446.0 | 409.5 | 388.5 | 378.4 |
| 27.5° | 455.6 | 426.9 | 387.3 | 364.0 | 353.2 |
| 30°   | 439.4 | 406.5 | 363.4 | 338.3 | 326.9 |
| 32.5° | 422.1 | 385.6 | 341.2 | 313.7 | 300.5 |
| 35°   | 401.7 | 364.6 | 317.3 | 288.6 | 274.2 |
| 37.5° | 382.0 | 342.4 | 294.0 | 261.6 | 247.9 |
| 40°   | 363.4 | 321.5 | 270.6 | 235.3 | 220.9 |
| 42.5° | 342.4 | 299.3 | 247.3 | 210.1 | 194.0 |
| 45°   | 321.5 | 276.6 | 223.3 | 183.2 | 167.0 |
| 47.5° | 299.3 | 255.0 | 198.2 | 158.7 | 147.9 |
| 50°   | 279.6 | 232.9 | 176.0 | 140.1 | 132.9 |
| 52.5° | 256.8 | 211.3 | 153.3 | 125.7 | 120.9 |
| 55°   | 234.1 | 188.0 | 131.1 | 113.2 | 109.6 |
| 57.5° | 210.7 | 167.0 | 113.7 | 102.4 | 98.8  |
| 60°   | 186.2 | 145.5 | 100.0 | 91.0  | 89.2  |
| 62.5° | 161.6 | 123.3 | 88.0  | 81.4  | 79.0  |
| 65°   | 137.7 | 102.4 | 77.2  | 71.2  | 70.0  |
| 67.5° | 113.2 | 83.2  | 66.5  | 62.3  | 61.7  |
| 70°   | 90.4  | 67.7  | 56.3  | 53.9  | 52.7  |
| 72.5° | 69.4  | 53.9  | 47.3  | 45.5  | 44.9  |
| 75°   | 49.1  | 43.1  | 38.9  | 37.7  | 37.1  |
| 77.5° | 32.9  | 32.9  | 31.1  | 29.9  | 30.5  |
| 80°   | 22.7  | 23.9  | 23.3  | 23.3  | 23.3  |
| 82.5° | 15.0  | 16.2  | 16.8  | 16.8  | 16.8  |
| 85°   | 8.4   | 9.6   | 10.2  | 10.2  | 10.8  |
| 87.5° | 3.0   | 3.6   | 4.2   | 4.8   | 4.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)