

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: P1061579

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D940-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

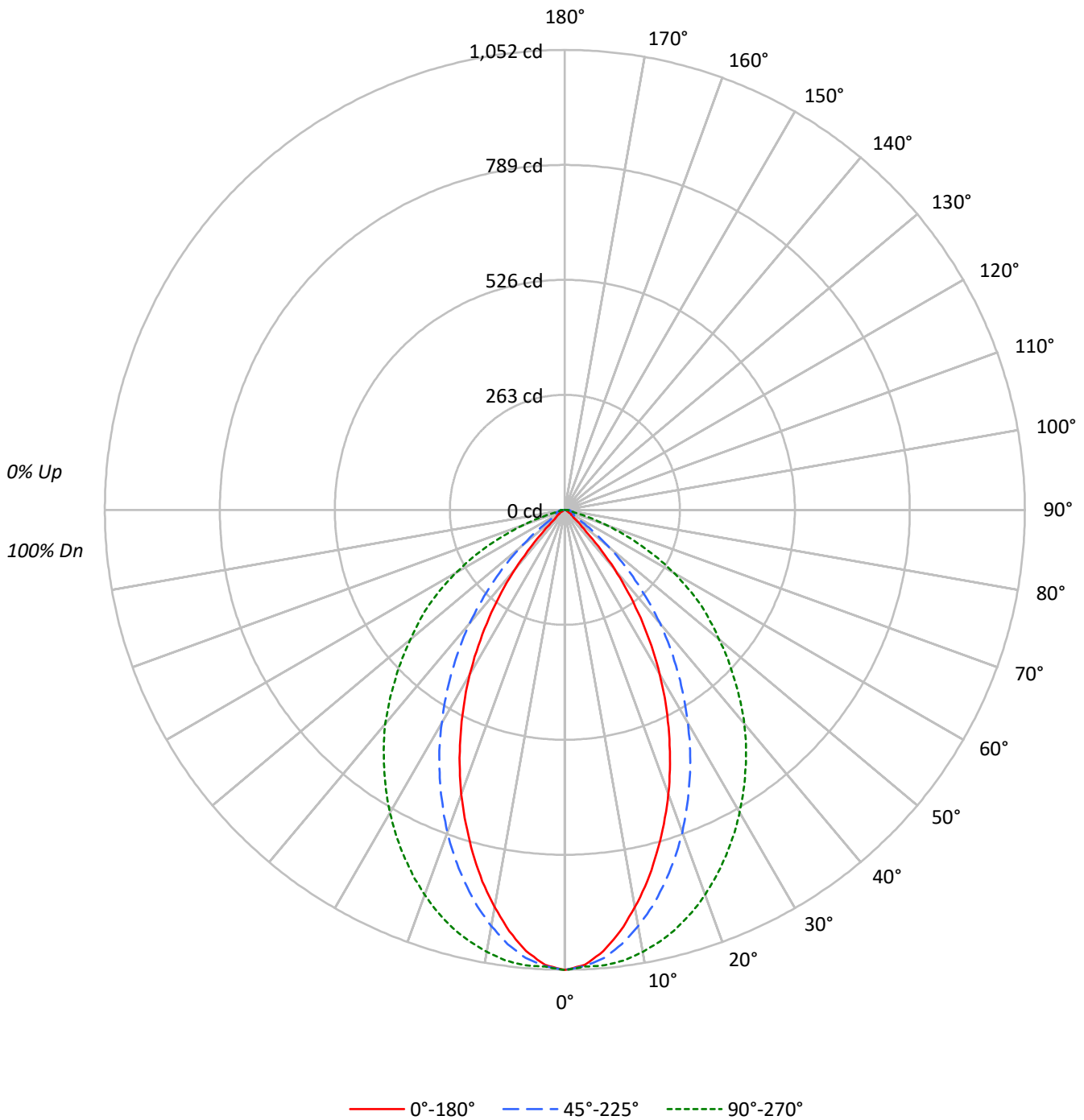
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1353.6 lumens  
Efficiency: N/A  
Efficacy: 32.4 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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  | 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    | 90  |   |
| 2   | 105 | 98  | 93  | 89  | 102 | 97  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 85  | 82  | 81  |    |    | 81  |   |
| 3   | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    | 72  |   |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 65  |    |    | 65  |   |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    | 59  |   |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |    |    | 54  |   |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    | 49  |   |
| 8   | 71  | 60  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 55  | 50  | 47  | 45  |    |    | 45  |   |
| 9   | 67  | 55  | 48  | 44  | 66  | 55  | 48  | 44  | 54  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 42  |    |    | 42  |   |
| 10  | 63  | 52  | 45  | 41  | 62  | 51  | 45  | 40  | 50  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 39  |    |    | 39  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7246 | 7246 | 7246 |
| 5°  | 7005 | 7113 | 7229 |
| 10° | 6452 | 6759 | 7177 |
| 15° | 5792 | 6291 | 7058 |
| 20° | 5071 | 5755 | 6866 |
| 25° | 4283 | 5139 | 6626 |
| 30° | 3452 | 4472 | 6358 |
| 35° | 2538 | 3769 | 6057 |
| 40° | 1585 | 3041 | 5742 |
| 45° | 593  | 2221 | 5338 |
| 50° | 277  | 1388 | 4928 |
| 55° | 202  | 576  | 4558 |
| 60° | 143  | 303  | 3944 |
| 65° | 85   | 358  | 3125 |
| 70° | 79   | 417  | 1983 |
| 75° | 104  | 415  | 620  |
| 80° | 155  | 515  | 464  |
| 85° | 308  | 822  | 616  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5338 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.5   | 7.1       |
| 10°-20°   | 249.8  | 18.5      |
| 20°-30°   | 318.3  | 23.5      |
| 30°-40°   | 296.2  | 21.9      |
| 40°-50°   | 203.0  | 15.0      |
| 50°-60°   | 111.8  | 8.3       |
| 60°-70°   | 52.9   | 3.9       |
| 70°-80°   | 16.6   | 1.2       |
| 80°-90°   | 8.5    | 0.6       |
| 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°    | 664.6  | 49.1      |
| 0°-40°    | 960.8  | 71.0      |
| 0°-60°    | 1275.5 | 94.2      |
| 0°-90°    | 1353.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1353.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1052 | 1052  | 1052 | 1052  | 1052 |      |
| 5°  | 1014 | 1026  | 1029 | 1037  | 1046 | 94   |
| 15° | 813  | 838   | 883  | 949   | 990  | 227  |
| 25° | 564  | 599   | 676  | 785   | 872  | 257  |
| 35° | 302  | 345   | 448  | 596   | 721  | 187  |
| 45° | 61   | 102   | 228  | 404   | 548  | 58   |
| 55° | 17   | 19    | 48   | 226   | 380  | 15   |
| 65° | 5    | 6     | 22   | 83    | 192  | 6    |
| 75° | 4    | 6     | 16   | 17    | 23   | 4    |
| 85° | 4    | 9     | 10   | 9     | 8    | 4    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1052.4 | 1052.4 | 1052.4 | 1052.4 | 1052.4 |
| 2.5°  | 1042.0 | 1052.4 | 1044.6 | 1044.6 | 1045.9 |
| 5°    | 1013.5 | 1026.5 | 1029.1 | 1036.8 | 1045.9 |
| 7.5°  | 972.0  | 988.9  | 1001.8 | 1023.9 | 1039.4 |
| 10°   | 922.8  | 943.5  | 966.8  | 1003.1 | 1026.5 |
| 12.5° | 870.9  | 893.0  | 928.0  | 978.5  | 1010.9 |
| 15°   | 812.6  | 838.5  | 882.6  | 948.7  | 990.2  |
| 17.5° | 753.0  | 781.5  | 835.9  | 913.7  | 965.6  |
| 20°   | 692.1  | 721.9  | 785.4  | 872.2  | 937.0  |
| 22.5° | 628.6  | 661.0  | 731.0  | 829.5  | 905.9  |
| 25°   | 563.8  | 598.8  | 676.5  | 785.4  | 872.2  |
| 27.5° | 499.0  | 535.3  | 620.8  | 740.0  | 837.2  |
| 30°   | 434.2  | 471.8  | 562.5  | 693.4  | 799.7  |
| 32.5° | 368.1  | 409.5  | 505.5  | 646.7  | 760.8  |
| 35°   | 302.0  | 344.7  | 448.4  | 596.2  | 720.6  |
| 37.5° | 237.2  | 281.2  | 392.7  | 548.2  | 680.4  |
| 40°   | 176.3  | 220.3  | 338.3  | 500.3  | 638.9  |
| 42.5° | 114.1  | 160.7  | 281.2  | 451.0  | 593.6  |
| 45°   | 60.9   | 102.4  | 228.1  | 404.4  | 548.2  |
| 47.5° | 32.4   | 54.4   | 177.6  | 357.7  | 505.5  |
| 50°   | 25.9   | 29.8   | 129.6  | 311.1  | 460.1  |
| 52.5° | 20.7   | 23.3   | 82.9   | 263.1  | 419.9  |
| 55°   | 16.8   | 19.4   | 48.0   | 225.5  | 379.7  |
| 57.5° | 13.0   | 15.6   | 27.2   | 187.9  | 333.1  |
| 60°   | 10.4   | 11.7   | 22.0   | 150.3  | 286.4  |
| 62.5° | 6.5    | 9.1    | 22.0   | 116.6  | 239.8  |
| 65°   | 5.2    | 6.5    | 22.0   | 82.9   | 191.8  |
| 67.5° | 5.2    | 5.2    | 22.0   | 54.4   | 143.9  |
| 70°   | 3.9    | 3.9    | 20.7   | 35.0   | 98.5   |
| 72.5° | 3.9    | 3.9    | 18.1   | 23.3   | 57.0   |
| 75°   | 3.9    | 6.5    | 15.6   | 16.8   | 23.3   |
| 77.5° | 3.9    | 10.4   | 14.3   | 14.3   | 13.0   |
| 80°   | 3.9    | 10.4   | 13.0   | 11.7   | 11.7   |
| 82.5° | 3.9    | 10.4   | 10.4   | 10.4   | 9.1    |
| 85°   | 3.9    | 9.1    | 10.4   | 9.1    | 7.8    |
| 87.5° | 3.9    | 9.1    | 9.1    | 9.1    | 5.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)