

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: P1061486

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

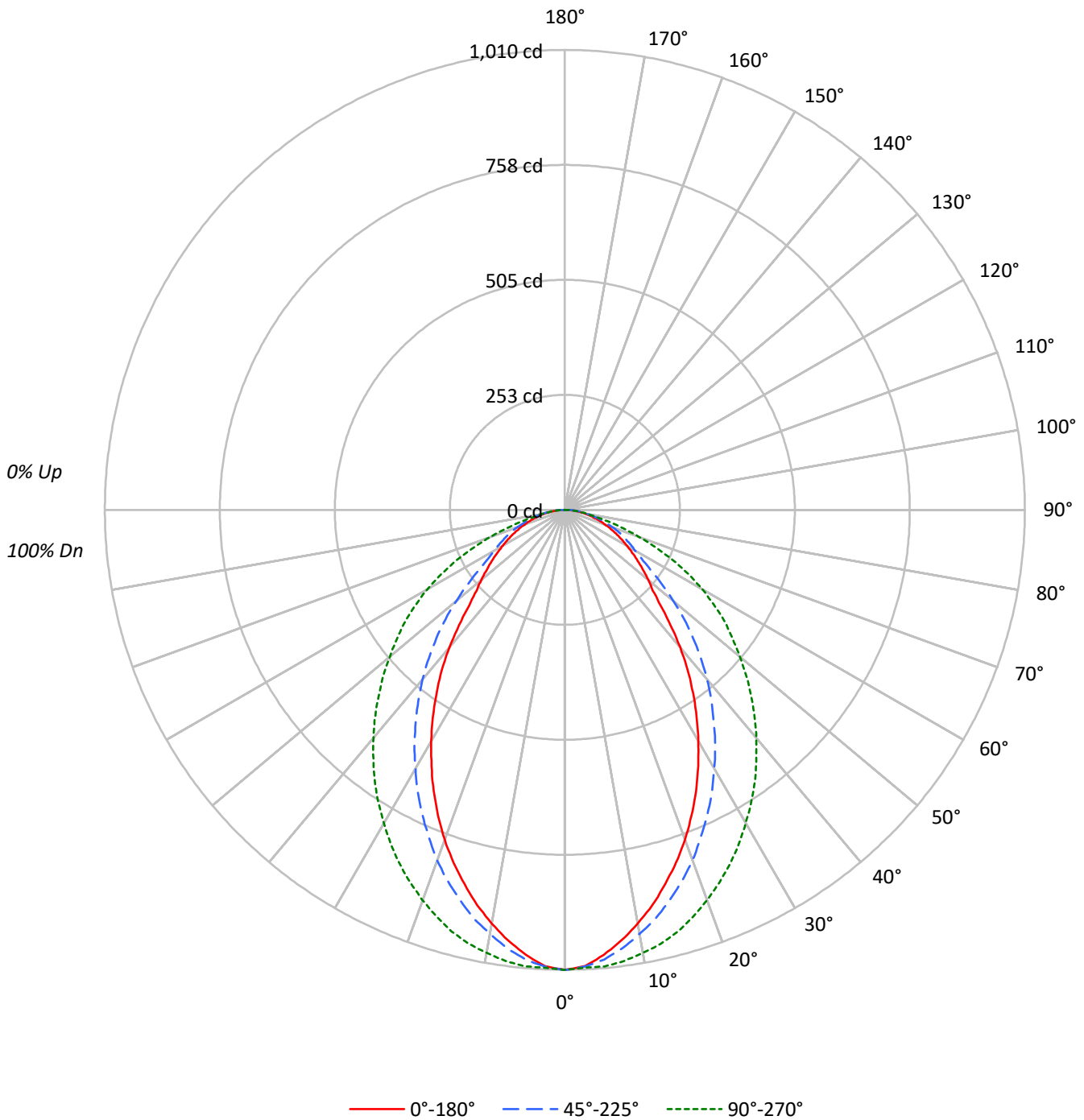
Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 86 | 82 | 89 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 56 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 48 | 59 | 52 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 44 |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 |
| 9 | 61 | 48 | 41 | 35 | 59 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 42 | 36 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6956 | 6956 | 6956 |
| 5° | 6780 | 6850 | 6955 |
| 10° | 6450 | 6612 | 6908 |
| 15° | 6065 | 6331 | 6834 |
| 20° | 5650 | 6005 | 6685 |
| 25° | 5176 | 5620 | 6517 |
| 30° | 4662 | 5215 | 6315 |
| 35° | 4123 | 4794 | 6117 |
| 40° | 3538 | 4364 | 5878 |
| 45° | 2889 | 3882 | 5631 |
| 50° | 2562 | 3330 | 5373 |
| 55° | 2350 | 2762 | 5150 |
| 60° | 2169 | 2446 | 4795 |
| 65° | 2022 | 2351 | 4275 |
| 70° | 1890 | 2235 | 3495 |
| 75° | 1745 | 2094 | 2578 |
| 80° | 1642 | 1963 | 1879 |
| 85° | 1517 | 1912 | 1596 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5631 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.5 | 4.9 |
| 10°-20° | 251.8 | 13.3 |
| 20°-30° | 346.1 | 18.3 |
| 30°-40° | 366.8 | 19.4 |
| 40°-50° | 320.2 | 16.9 |
| 50°-60° | 243.3 | 12.8 |
| 60°-70° | 163.0 | 8.6 |
| 70°-80° | 84.0 | 4.4 |
| 80°-90° | 25.2 | 1.3 |
| 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° | 691.5 | 36.5 |
| 0°-40° | 1058.3 | 55.9 |
| 0°-60° | 1621.8 | 85.6 |
| 0°-90° | 1894.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1894.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1010 | 1010 | 1010 | 1010 | 1010 | |
| 5° | 981 | 991 | 991 | 998 | 1006 | 92 |
| 15° | 851 | 867 | 888 | 928 | 959 | 239 |
| 25° | 681 | 702 | 740 | 801 | 858 | 312 |
| 35° | 490 | 519 | 570 | 651 | 728 | 306 |
| 45° | 297 | 326 | 399 | 494 | 578 | 234 |
| 55° | 196 | 202 | 230 | 338 | 429 | 176 |
| 65° | 124 | 127 | 144 | 193 | 262 | 123 |
| 75° | 66 | 70 | 79 | 84 | 97 | 70 |
| 85° | 19 | 24 | 24 | 22 | 20 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061486

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1010.3 | 1010.3 | 1010.3 | 1010.3 | 1010.3 |
| 2.5° | 1003.2 | 1010.3 | 1004.2 | 1004.2 | 1006.3 |
| 5° | 981.0 | 991.1 | 991.1 | 998.2 | 1006.3 |
| 7.5° | 953.8 | 964.9 | 970.9 | 987.1 | 999.2 |
| 10° | 922.5 | 934.6 | 945.7 | 969.9 | 988.1 |
| 12.5° | 889.2 | 902.3 | 919.5 | 950.8 | 976.0 |
| 15° | 850.8 | 867.0 | 888.2 | 927.5 | 958.8 |
| 17.5° | 812.5 | 828.6 | 854.9 | 901.3 | 936.6 |
| 20° | 771.1 | 788.3 | 819.5 | 870.0 | 912.4 |
| 22.5° | 726.7 | 745.9 | 779.2 | 836.7 | 886.2 |
| 25° | 681.3 | 702.5 | 739.8 | 801.4 | 857.9 |
| 27.5° | 633.8 | 659.1 | 699.4 | 765.0 | 827.6 |
| 30° | 586.4 | 611.6 | 656.0 | 727.7 | 794.3 |
| 32.5° | 539.0 | 566.2 | 614.7 | 690.4 | 762.0 |
| 35° | 490.5 | 518.8 | 570.3 | 651.0 | 727.7 |
| 37.5° | 443.1 | 471.3 | 528.9 | 612.6 | 690.4 |
| 40° | 393.6 | 422.9 | 485.5 | 573.3 | 654.0 |
| 42.5° | 343.2 | 374.4 | 442.1 | 532.9 | 616.7 |
| 45° | 296.7 | 326.0 | 398.7 | 493.5 | 578.3 |
| 47.5° | 262.4 | 281.6 | 355.3 | 453.2 | 541.0 |
| 50° | 239.2 | 249.3 | 310.9 | 413.8 | 501.6 |
| 52.5° | 216.0 | 224.1 | 269.5 | 373.4 | 464.3 |
| 55° | 195.8 | 201.9 | 230.1 | 338.1 | 429.0 |
| 57.5° | 175.6 | 181.7 | 199.8 | 302.8 | 387.6 |
| 60° | 157.5 | 162.5 | 177.6 | 265.4 | 348.2 |
| 62.5° | 140.3 | 144.3 | 160.5 | 230.1 | 305.8 |
| 65° | 124.1 | 127.2 | 144.3 | 192.8 | 262.4 |
| 67.5° | 108.0 | 111.0 | 128.2 | 157.5 | 216.0 |
| 70° | 93.9 | 94.9 | 111.0 | 128.2 | 173.6 |
| 72.5° | 79.7 | 80.7 | 93.9 | 104.0 | 133.2 |
| 75° | 65.6 | 69.6 | 78.7 | 83.8 | 96.9 |
| 77.5° | 53.5 | 58.5 | 63.6 | 65.6 | 65.6 |
| 80° | 41.4 | 47.4 | 49.5 | 49.5 | 47.4 |
| 82.5° | 30.3 | 35.3 | 36.3 | 34.3 | 32.3 |
| 85° | 19.2 | 24.2 | 24.2 | 22.2 | 20.2 |
| 87.5° | 9.1 | 13.1 | 13.1 | 12.1 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)