

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: P1059062

Luminaire Tested: S123RDR-S1000D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

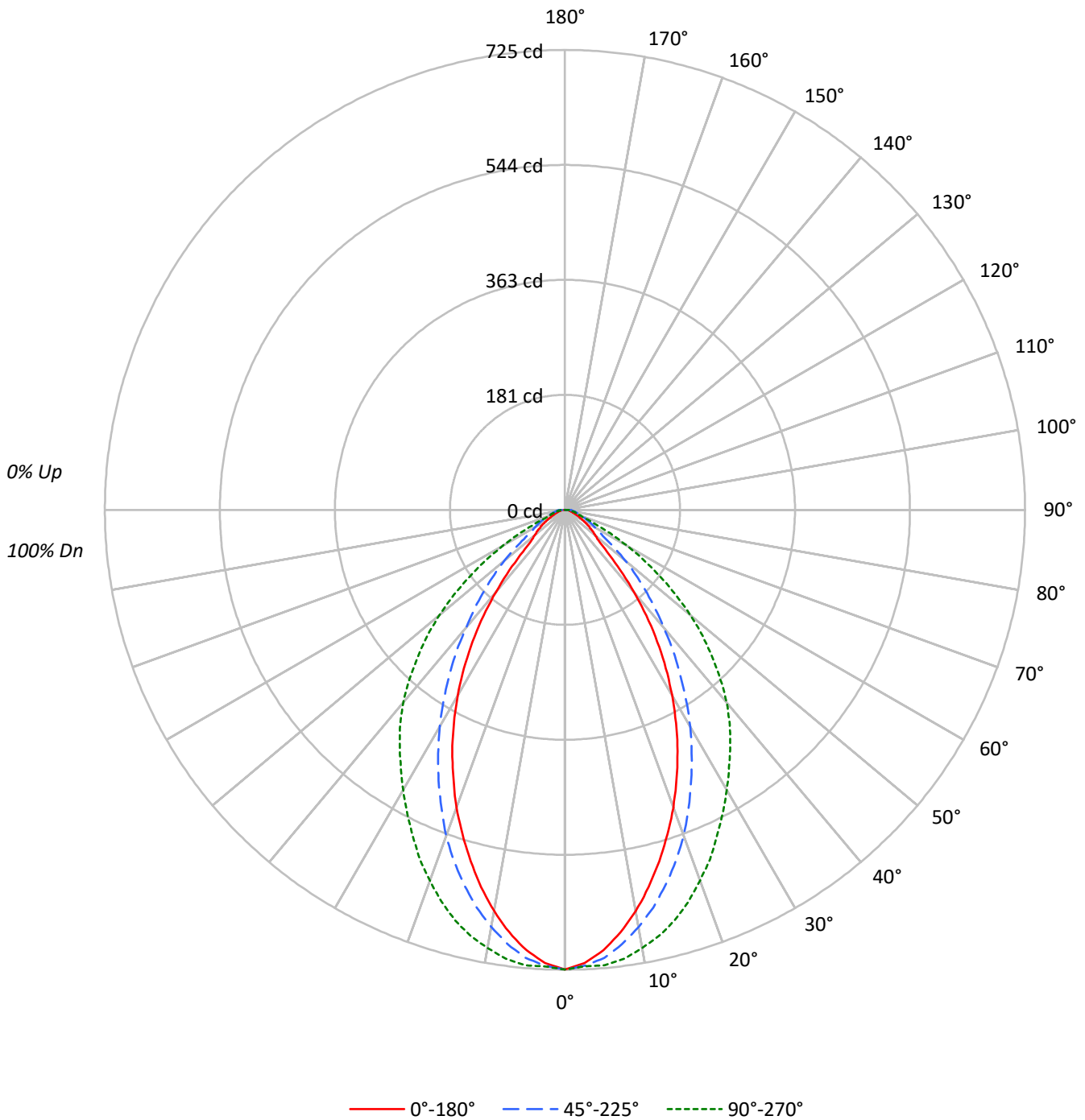
Lumens per Lamp: N/A
Luminaire Lumens: 970.5 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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 | 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 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | | 89 |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | 79 |
| 3 | 97 | 89 | 82 | 77 | 95 | 87 | 81 | 77 | 84 | 79 | 75 | 82 | 78 | 74 | 79 | 76 | 73 | 71 | | | | 71 |
| 4 | 91 | 81 | 74 | 69 | 88 | 80 | 73 | 68 | 77 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 | | | | 64 |
| 5 | 85 | 74 | 67 | 61 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 59 | 58 | | | | 58 |
| 6 | 79 | 68 | 61 | 56 | 78 | 67 | 60 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 52 | | | | 52 |
| 7 | 74 | 63 | 56 | 51 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 | | | | 48 |
| 8 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 56 | 50 | 46 | 54 | 49 | 45 | 44 | | | | 44 |
| 9 | 66 | 54 | 47 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8509 | 8509 | 8509 |
| 5° | 8217 | 8355 | 8492 |
| 10° | 7656 | 7959 | 8363 |
| 15° | 6971 | 7446 | 8140 |
| 20° | 6239 | 6834 | 7773 |
| 25° | 5442 | 6099 | 7346 |
| 30° | 4576 | 5350 | 6914 |
| 35° | 3640 | 4534 | 6505 |
| 40° | 2595 | 3697 | 6081 |
| 45° | 1546 | 2969 | 5445 |
| 50° | 1140 | 2262 | 4715 |
| 55° | 952 | 1537 | 3746 |
| 60° | 770 | 1268 | 2633 |
| 65° | 617 | 1086 | 1411 |
| 70° | 508 | 944 | 872 |
| 75° | 481 | 912 | 817 |
| 80° | 500 | 1001 | 784 |
| 85° | 714 | 1428 | 997 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5445 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.6 | 6.9 |
| 10°-20° | 172.9 | 17.8 |
| 20°-30° | 220.6 | 22.7 |
| 30°-40° | 207.5 | 21.4 |
| 40°-50° | 149.1 | 15.4 |
| 50°-60° | 85.5 | 8.8 |
| 60°-70° | 39.1 | 4.0 |
| 70°-80° | 19.7 | 2.0 |
| 80°-90° | 9.6 | 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° | 460.1 | 47.4 |
| 0°-40° | 667.6 | 68.8 |
| 0°-60° | 902.2 | 93.0 |
| 0°-90° | 970.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 970.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 725 | 725 | 725 | 725 | 725 | |
| 5° | 697 | 711 | 709 | 714 | 720 | 65 |
| 15° | 573 | 594 | 612 | 645 | 670 | 160 |
| 25° | 420 | 439 | 471 | 522 | 567 | 192 |
| 35° | 254 | 272 | 316 | 388 | 454 | 157 |
| 45° | 93 | 113 | 179 | 263 | 328 | 78 |
| 55° | 46 | 48 | 75 | 139 | 183 | 42 |
| 65° | 22 | 31 | 39 | 43 | 51 | 22 |
| 75° | 11 | 21 | 20 | 18 | 18 | 12 |
| 85° | 5 | 11 | 11 | 10 | 7 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1059062

CATALOG NUMBER: S123RDR-S1000D935-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 724.6 | 724.6 | 724.6 | 724.6 | 724.6 |
| 2.5° | 715.1 | 725.7 | 719.3 | 719.3 | 720.4 |
| 5° | 697.1 | 710.9 | 708.8 | 714.1 | 720.4 |
| 7.5° | 671.7 | 686.5 | 690.8 | 703.5 | 714.1 |
| 10° | 642.1 | 659.0 | 667.5 | 687.6 | 701.4 |
| 12.5° | 609.3 | 628.4 | 642.1 | 667.5 | 687.6 |
| 15° | 573.4 | 593.5 | 612.5 | 645.3 | 669.6 |
| 17.5° | 536.3 | 556.4 | 580.8 | 618.8 | 647.4 |
| 20° | 499.3 | 519.4 | 546.9 | 587.1 | 622.0 |
| 22.5° | 459.1 | 479.2 | 508.8 | 554.3 | 596.6 |
| 25° | 420.0 | 439.0 | 470.7 | 521.5 | 567.0 |
| 27.5° | 378.7 | 397.8 | 432.7 | 487.7 | 538.4 |
| 30° | 337.5 | 356.5 | 394.6 | 453.8 | 509.9 |
| 32.5° | 296.2 | 314.2 | 355.4 | 421.0 | 481.3 |
| 35° | 253.9 | 271.9 | 316.3 | 388.2 | 453.8 |
| 37.5° | 210.5 | 228.5 | 280.3 | 358.6 | 426.3 |
| 40° | 169.3 | 189.4 | 241.2 | 329.0 | 396.7 |
| 42.5° | 129.1 | 150.2 | 209.5 | 297.3 | 362.8 |
| 45° | 93.1 | 113.2 | 178.8 | 263.4 | 327.9 |
| 47.5° | 70.9 | 81.5 | 151.3 | 229.6 | 294.1 |
| 50° | 62.4 | 63.5 | 123.8 | 198.9 | 258.1 |
| 52.5° | 54.0 | 55.0 | 96.3 | 169.3 | 220.0 |
| 55° | 46.5 | 47.6 | 75.1 | 138.6 | 183.0 |
| 57.5° | 39.1 | 41.3 | 61.4 | 110.0 | 147.0 |
| 60° | 32.8 | 37.0 | 54.0 | 83.6 | 112.1 |
| 62.5° | 26.4 | 33.9 | 46.5 | 61.4 | 80.4 |
| 65° | 22.2 | 30.7 | 39.1 | 43.4 | 50.8 |
| 67.5° | 18.0 | 28.6 | 32.8 | 30.7 | 30.7 |
| 70° | 14.8 | 25.4 | 27.5 | 25.4 | 25.4 |
| 72.5° | 12.7 | 24.3 | 23.3 | 21.2 | 21.2 |
| 75° | 10.6 | 21.2 | 20.1 | 18.0 | 18.0 |
| 77.5° | 9.5 | 18.0 | 16.9 | 15.9 | 14.8 |
| 80° | 7.4 | 14.8 | 14.8 | 13.8 | 11.6 |
| 82.5° | 6.3 | 12.7 | 12.7 | 11.6 | 9.5 |
| 85° | 5.3 | 10.6 | 10.6 | 9.5 | 7.4 |
| 87.5° | 4.2 | 9.5 | 9.5 | 8.5 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)