

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: P1061681

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D830-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

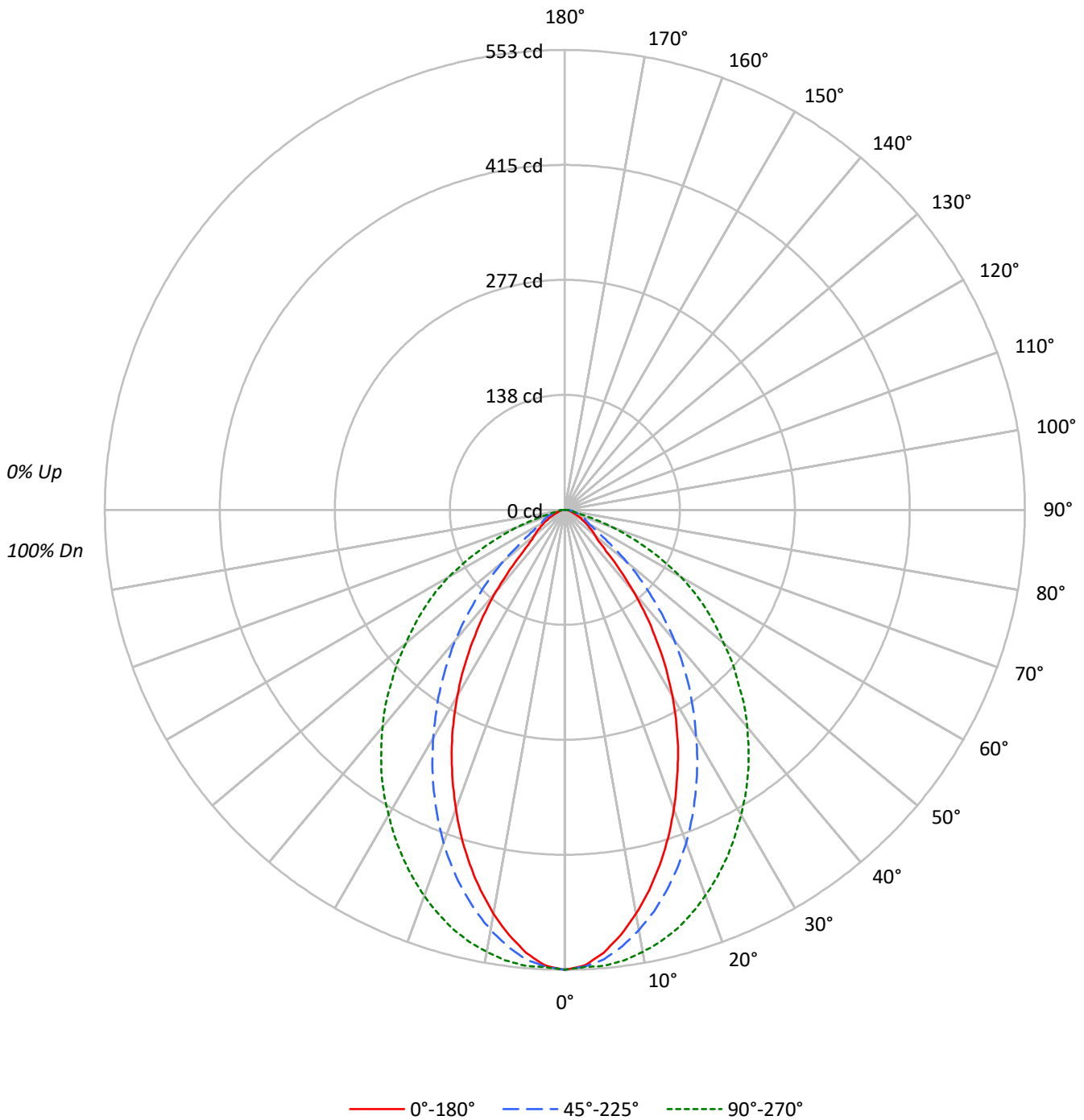
Lumens per Lamp: N/A
Luminaire Lumens: 798.3 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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 | | | | | 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 | 104 | 101 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 91 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 87 | 80 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | 70 |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 63 | | | | 63 |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 56 | | | | 56 |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 53 | 63 | 57 | 53 | 62 | 57 | 53 | 51 | | | | 51 |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | | 46 |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 42 | | | | 42 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 41 | 39 | | | | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 41 | 38 | 36 | | | | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3807 | 3807 | 3807 |
| 5° | 3694 | 3749 | 3803 |
| 10° | 3448 | 3586 | 3774 |
| 15° | 3146 | 3375 | 3717 |
| 20° | 2806 | 3124 | 3619 |
| 25° | 2446 | 2830 | 3503 |
| 30° | 2054 | 2513 | 3369 |
| 35° | 1621 | 2189 | 3230 |
| 40° | 1161 | 1839 | 3065 |
| 45° | 684 | 1443 | 2873 |
| 50° | 506 | 1040 | 2669 |
| 55° | 425 | 630 | 2480 |
| 60° | 343 | 460 | 2213 |
| 65° | 267 | 438 | 1774 |
| 70° | 223 | 409 | 1202 |
| 75° | 210 | 367 | 524 |
| 80° | 206 | 365 | 337 |
| 85° | 261 | 466 | 363 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2873 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.9 | 6.4 |
| 10°-20° | 133.8 | 16.8 |
| 20°-30° | 174.9 | 21.9 |
| 30°-40° | 170.3 | 21.3 |
| 40°-50° | 127.2 | 15.9 |
| 50°-60° | 78.9 | 9.9 |
| 60°-70° | 41.4 | 5.2 |
| 70°-80° | 15.1 | 1.9 |
| 80°-90° | 5.7 | 0.7 |
| 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° | 359.7 | 45.1 |
| 0°-40° | 529.9 | 66.4 |
| 0°-60° | 736.1 | 92.2 |
| 0°-90° | 798.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 798.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 553 | 553 | 553 | 553 | 553 | |
| 5° | 534 | 542 | 542 | 546 | 550 | 50 |
| 15° | 441 | 454 | 474 | 502 | 521 | 123 |
| 25° | 322 | 338 | 372 | 423 | 461 | 147 |
| 35° | 193 | 214 | 260 | 330 | 384 | 120 |
| 45° | 70 | 92 | 148 | 232 | 295 | 59 |
| 55° | 35 | 37 | 52 | 136 | 207 | 32 |
| 65° | 16 | 18 | 27 | 58 | 109 | 17 |
| 75° | 8 | 9 | 14 | 15 | 20 | 9 |
| 85° | 3 | 6 | 6 | 6 | 5 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061681

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 552.9 | 552.9 | 552.9 | 552.9 | 552.9 |
| 2.5° | 548.3 | 552.9 | 549.6 | 549.6 | 550.3 |
| 5° | 534.5 | 541.7 | 542.4 | 545.7 | 550.3 |
| 7.5° | 515.5 | 524.0 | 529.3 | 539.1 | 546.3 |
| 10° | 493.2 | 503.0 | 512.9 | 529.3 | 539.8 |
| 12.5° | 468.3 | 480.1 | 494.5 | 516.8 | 531.9 |
| 15° | 441.4 | 454.5 | 473.5 | 502.4 | 521.4 |
| 17.5° | 413.2 | 427.0 | 450.6 | 485.3 | 508.3 |
| 20° | 383.0 | 398.1 | 426.3 | 465.7 | 493.9 |
| 22.5° | 352.2 | 369.2 | 400.1 | 444.7 | 478.1 |
| 25° | 322.0 | 338.4 | 372.5 | 423.0 | 461.1 |
| 27.5° | 290.5 | 307.6 | 345.0 | 400.7 | 442.7 |
| 30° | 258.4 | 276.8 | 316.1 | 377.8 | 423.7 |
| 32.5° | 226.3 | 245.3 | 287.9 | 354.2 | 404.7 |
| 35° | 192.8 | 213.8 | 260.4 | 329.9 | 384.3 |
| 37.5° | 161.3 | 183.6 | 232.2 | 305.0 | 362.7 |
| 40° | 129.2 | 152.2 | 204.6 | 280.7 | 341.0 |
| 42.5° | 97.7 | 121.3 | 176.4 | 255.8 | 319.4 |
| 45° | 70.2 | 91.8 | 148.2 | 231.5 | 295.1 |
| 47.5° | 53.8 | 66.2 | 122.0 | 206.6 | 273.5 |
| 50° | 47.2 | 51.2 | 97.1 | 182.3 | 249.2 |
| 52.5° | 41.3 | 43.9 | 72.1 | 158.7 | 228.2 |
| 55° | 35.4 | 37.4 | 52.5 | 136.4 | 206.6 |
| 57.5° | 30.2 | 32.1 | 40.0 | 116.1 | 184.3 |
| 60° | 24.9 | 26.9 | 33.4 | 95.8 | 160.7 |
| 62.5° | 21.0 | 21.6 | 30.2 | 76.7 | 134.4 |
| 65° | 16.4 | 17.7 | 26.9 | 57.7 | 108.9 |
| 67.5° | 13.8 | 14.4 | 23.6 | 41.3 | 83.9 |
| 70° | 11.1 | 11.8 | 20.3 | 28.9 | 59.7 |
| 72.5° | 9.8 | 9.8 | 17.1 | 21.0 | 38.0 |
| 75° | 7.9 | 9.2 | 13.8 | 15.1 | 19.7 |
| 77.5° | 6.6 | 9.2 | 11.8 | 11.1 | 10.5 |
| 80° | 5.2 | 8.5 | 9.2 | 9.2 | 8.5 |
| 82.5° | 4.6 | 7.2 | 7.9 | 7.2 | 6.6 |
| 85° | 3.3 | 5.9 | 5.9 | 5.9 | 4.6 |
| 87.5° | 2.6 | 5.2 | 4.6 | 4.6 | 3.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)