

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: P1061807

Luminaire Tested: S125RDR-S850D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061807
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-S850D930-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, 90 CRI LEDS
Ballast/Driver: -

Summary

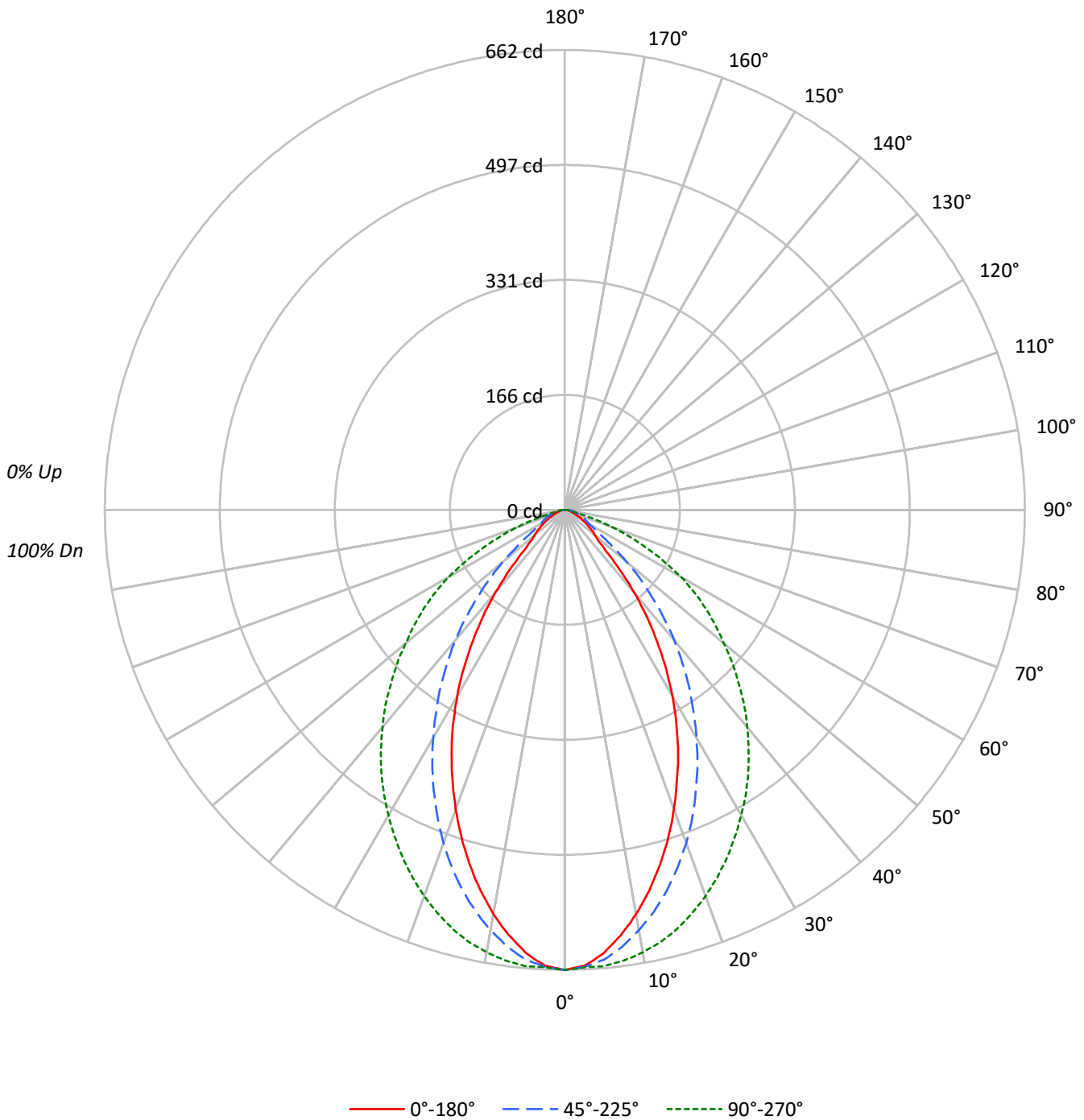
Lumens per Lamp: N/A
Luminaire Lumens: 956.3 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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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CATALOG NUMBER: S125RDR-S850D930-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot



TEST NUMBER: P1061807

CATALOG NUMBER: S125RDR-S850D930-X4F0-XX-UDD-SVL-S

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 | 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 | 111 | 108 | 104 | 101 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 91 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 87 | 80 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 53 | 63 | 57 | 53 | 62 | 57 | 53 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 41 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 41 | 38 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4560 | 4560 | 4560 |
| 5° | 4425 | 4490 | 4555 |
| 10° | 4131 | 4295 | 4520 |
| 15° | 3769 | 4043 | 4452 |
| 20° | 3362 | 3741 | 4335 |
| 25° | 2930 | 3390 | 4196 |
| 30° | 2461 | 3011 | 4035 |
| 35° | 1942 | 2622 | 3870 |
| 40° | 1391 | 2203 | 3672 |
| 45° | 819 | 1728 | 3442 |
| 50° | 606 | 1246 | 3197 |
| 55° | 509 | 754 | 2971 |
| 60° | 412 | 552 | 2651 |
| 65° | 319 | 525 | 2124 |
| 70° | 270 | 491 | 1439 |
| 75° | 250 | 439 | 628 |
| 80° | 250 | 436 | 404 |
| 85° | 308 | 561 | 434 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3442 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.0 | 6.4 |
| 10°-20° | 160.3 | 16.8 |
| 20°-30° | 209.5 | 21.9 |
| 30°-40° | 203.9 | 21.3 |
| 40°-50° | 152.4 | 15.9 |
| 50°-60° | 94.5 | 9.9 |
| 60°-70° | 49.6 | 5.2 |
| 70°-80° | 18.1 | 1.9 |
| 80°-90° | 6.8 | 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° | 430.8 | 45.1 |
| 0°-40° | 634.8 | 66.4 |
| 0°-60° | 881.7 | 92.2 |
| 0°-90° | 956.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 956.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 662 | 662 | 662 | 662 | 662 | |
| 5° | 640 | 649 | 650 | 654 | 659 | 60 |
| 15° | 529 | 544 | 567 | 602 | 624 | 148 |
| 25° | 386 | 405 | 446 | 507 | 552 | 176 |
| 35° | 231 | 256 | 312 | 395 | 460 | 144 |
| 45° | 84 | 110 | 178 | 277 | 354 | 71 |
| 55° | 42 | 45 | 63 | 163 | 248 | 38 |
| 65° | 20 | 21 | 32 | 69 | 130 | 20 |
| 75° | 9 | 11 | 16 | 18 | 24 | 10 |
| 85° | 4 | 7 | 7 | 7 | 6 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061807

CATALOG NUMBER: S125RDR-S850D930-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 662.3 | 662.3 | 662.3 | 662.3 | 662.3 |
| 2.5° | 656.8 | 662.3 | 658.3 | 658.3 | 659.1 |
| 5° | 640.3 | 648.9 | 649.7 | 653.6 | 659.1 |
| 7.5° | 617.5 | 627.7 | 634.0 | 645.8 | 654.4 |
| 10° | 590.8 | 602.5 | 614.3 | 634.0 | 646.5 |
| 12.5° | 560.9 | 575.1 | 592.3 | 619.0 | 637.1 |
| 15° | 528.7 | 544.4 | 567.2 | 601.8 | 624.5 |
| 17.5° | 494.9 | 511.4 | 539.7 | 581.3 | 608.8 |
| 20° | 458.8 | 476.9 | 510.6 | 557.8 | 591.6 |
| 22.5° | 421.9 | 442.3 | 479.2 | 532.6 | 572.7 |
| 25° | 385.7 | 405.4 | 446.2 | 506.7 | 552.3 |
| 27.5° | 348.0 | 368.4 | 413.2 | 480.0 | 530.3 |
| 30° | 309.5 | 331.5 | 378.7 | 452.5 | 507.5 |
| 32.5° | 271.0 | 293.8 | 344.9 | 424.2 | 484.7 |
| 35° | 231.0 | 256.1 | 311.9 | 395.2 | 460.4 |
| 37.5° | 193.3 | 220.0 | 278.1 | 365.3 | 434.4 |
| 40° | 154.8 | 182.3 | 245.1 | 336.2 | 408.5 |
| 42.5° | 117.1 | 145.3 | 211.3 | 306.4 | 382.6 |
| 45° | 84.1 | 110.0 | 177.5 | 277.3 | 353.5 |
| 47.5° | 64.4 | 79.3 | 146.1 | 247.5 | 327.6 |
| 50° | 56.6 | 61.3 | 116.3 | 218.4 | 298.5 |
| 52.5° | 49.5 | 52.6 | 86.4 | 190.1 | 273.4 |
| 55° | 42.4 | 44.8 | 62.8 | 163.4 | 247.5 |
| 57.5° | 36.1 | 38.5 | 47.9 | 139.0 | 220.8 |
| 60° | 29.9 | 32.2 | 40.1 | 114.7 | 192.5 |
| 62.5° | 25.1 | 25.9 | 36.1 | 91.9 | 161.0 |
| 65° | 19.6 | 21.2 | 32.2 | 69.1 | 130.4 |
| 67.5° | 16.5 | 17.3 | 28.3 | 49.5 | 100.6 |
| 70° | 13.4 | 14.1 | 24.4 | 34.6 | 71.5 |
| 72.5° | 11.8 | 11.8 | 20.4 | 25.1 | 45.6 |
| 75° | 9.4 | 11.0 | 16.5 | 18.1 | 23.6 |
| 77.5° | 7.9 | 11.0 | 14.1 | 13.4 | 12.6 |
| 80° | 6.3 | 10.2 | 11.0 | 11.0 | 10.2 |
| 82.5° | 5.5 | 8.6 | 9.4 | 8.6 | 7.9 |
| 85° | 3.9 | 7.1 | 7.1 | 7.1 | 5.5 |
| 87.5° | 3.1 | 6.3 | 5.5 | 5.5 | 3.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)