

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1062131

Luminaire Tested: S125RDRP-H610D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062131
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: S125RDRP-H610D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

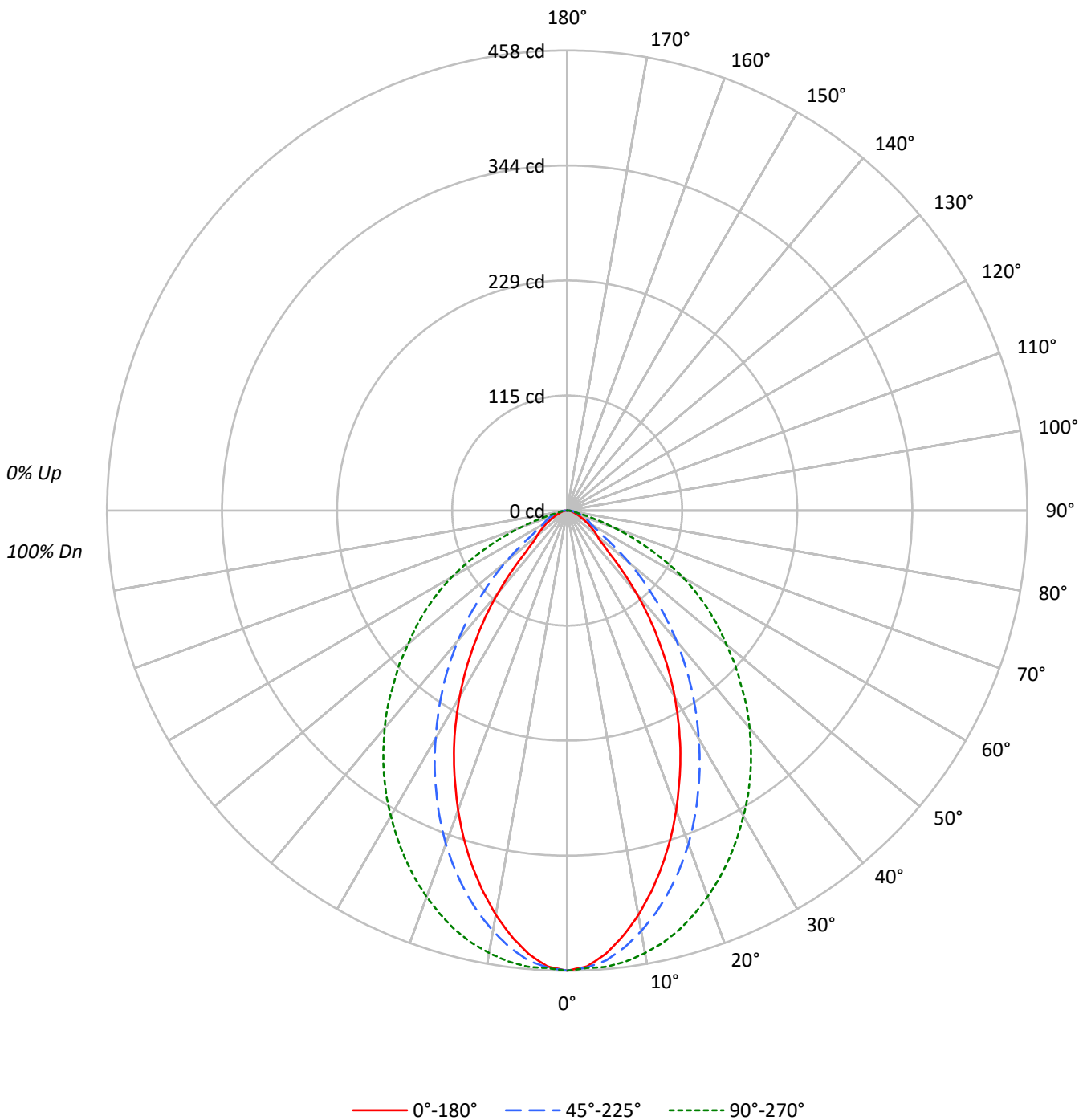
Lumens per Lamp: N/A
Luminaire Lumens: 661.2 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (A_{in}): 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 | 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° | 3153 | 3153 | 3153 |
| 5° | 3060 | 3105 | 3150 |
| 10° | 2856 | 2970 | 3126 |
| 15° | 2606 | 2796 | 3078 |
| 20° | 2324 | 2587 | 2997 |
| 25° | 2026 | 2344 | 2901 |
| 30° | 1701 | 2081 | 2790 |
| 35° | 1342 | 1812 | 2675 |
| 40° | 962 | 1523 | 2539 |
| 45° | 566 | 1196 | 2380 |
| 50° | 419 | 861 | 2211 |
| 55° | 352 | 522 | 2054 |
| 60° | 284 | 381 | 1833 |
| 65° | 222 | 363 | 1470 |
| 70° | 185 | 338 | 994 |
| 75° | 173 | 303 | 434 |
| 80° | 170 | 301 | 282 |
| 85° | 213 | 387 | 300 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2380 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.2 | 6.4 |
| 10°-20° | 110.8 | 16.8 |
| 20°-30° | 144.9 | 21.9 |
| 30°-40° | 141.0 | 21.3 |
| 40°-50° | 105.4 | 15.9 |
| 50°-60° | 65.4 | 9.9 |
| 60°-70° | 34.3 | 5.2 |
| 70°-80° | 12.5 | 1.9 |
| 80°-90° | 4.7 | 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° | 297.9 | 45.1 |
| 0°-40° | 438.9 | 66.4 |
| 0°-60° | 609.6 | 92.2 |
| 0°-90° | 661.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 661.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 458 | 458 | 458 | 458 | 458 | |
| 5° | 443 | 449 | 449 | 452 | 456 | 41 |
| 15° | 366 | 376 | 392 | 416 | 432 | 102 |
| 25° | 267 | 280 | 308 | 350 | 382 | 122 |
| 35° | 160 | 177 | 216 | 273 | 318 | 99 |
| 45° | 58 | 76 | 123 | 192 | 244 | 49 |
| 55° | 29 | 31 | 44 | 113 | 171 | 26 |
| 65° | 14 | 15 | 22 | 48 | 90 | 14 |
| 75° | 6 | 8 | 11 | 12 | 16 | 7 |
| 85° | 3 | 5 | 5 | 5 | 4 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 |
| 2.5° | 454.1 | 457.9 | 455.2 | 455.2 | 455.7 |
| 5° | 442.7 | 448.7 | 449.2 | 451.9 | 455.7 |
| 7.5° | 427.0 | 434.0 | 438.4 | 446.5 | 452.5 |
| 10° | 408.5 | 416.6 | 424.8 | 438.4 | 447.1 |
| 12.5° | 387.8 | 397.6 | 409.6 | 428.0 | 440.5 |
| 15° | 365.6 | 376.4 | 392.2 | 416.1 | 431.8 |
| 17.5° | 342.2 | 353.6 | 373.2 | 402.0 | 421.0 |
| 20° | 317.2 | 329.7 | 353.1 | 385.7 | 409.0 |
| 22.5° | 291.7 | 305.8 | 331.4 | 368.3 | 396.0 |
| 25° | 266.7 | 280.3 | 308.5 | 350.4 | 381.9 |
| 27.5° | 240.6 | 254.8 | 285.7 | 331.9 | 366.7 |
| 30° | 214.0 | 229.2 | 261.8 | 312.9 | 350.9 |
| 32.5° | 187.4 | 203.2 | 238.5 | 293.3 | 335.2 |
| 35° | 159.7 | 177.1 | 215.6 | 273.2 | 318.3 |
| 37.5° | 133.6 | 152.1 | 192.3 | 252.6 | 300.4 |
| 40° | 107.0 | 126.0 | 169.5 | 232.5 | 282.5 |
| 42.5° | 80.9 | 100.5 | 146.1 | 211.8 | 264.5 |
| 45° | 58.1 | 76.0 | 122.8 | 191.7 | 244.4 |
| 47.5° | 44.5 | 54.9 | 101.0 | 171.1 | 226.5 |
| 50° | 39.1 | 42.4 | 80.4 | 151.0 | 206.4 |
| 52.5° | 34.2 | 36.4 | 59.8 | 131.5 | 189.0 |
| 55° | 29.3 | 31.0 | 43.5 | 113.0 | 171.1 |
| 57.5° | 25.0 | 26.6 | 33.1 | 96.1 | 152.6 |
| 60° | 20.6 | 22.3 | 27.7 | 79.3 | 133.1 |
| 62.5° | 17.4 | 17.9 | 25.0 | 63.6 | 111.4 |
| 65° | 13.6 | 14.7 | 22.3 | 47.8 | 90.2 |
| 67.5° | 11.4 | 12.0 | 19.6 | 34.2 | 69.5 |
| 70° | 9.2 | 9.8 | 16.8 | 23.9 | 49.4 |
| 72.5° | 8.1 | 8.1 | 14.1 | 17.4 | 31.5 |
| 75° | 6.5 | 7.6 | 11.4 | 12.5 | 16.3 |
| 77.5° | 5.4 | 7.6 | 9.8 | 9.2 | 8.7 |
| 80° | 4.3 | 7.1 | 7.6 | 7.6 | 7.1 |
| 82.5° | 3.8 | 6.0 | 6.5 | 6.0 | 5.4 |
| 85° | 2.7 | 4.9 | 4.9 | 4.9 | 3.8 |
| 87.5° | 2.2 | 4.3 | 3.8 | 3.8 | 2.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|------|------|------|------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 3.77 | 5.12 | 4.14 | 5.44 | 5.75 | 13.48 | 14.83 | 13.84 | 15.14 | 15.46 |
| | 3H | 4.62 | 5.81 | 4.99 | 6.14 | 6.51 | 14.39 | 15.59 | 14.77 | 15.92 | 16.28 |
| | 4H | 4.97 | 6.09 | 5.37 | 6.44 | 6.82 | 14.49 | 15.61 | 14.89 | 15.96 | 16.34 |
| | 6H | 5.34 | 6.37 | 5.76 | 6.74 | 7.13 | 14.47 | 15.50 | 14.89 | 15.87 | 16.26 |
| | 8H | 5.52 | 6.49 | 5.95 | 6.89 | 7.29 | 14.46 | 15.43 | 14.89 | 15.83 | 16.23 |
| | 12H | 5.68 | 6.61 | 6.12 | 7.00 | 7.43 | 14.45 | 15.38 | 14.88 | 15.76 | 16.19 |
| | 4H | 2H | 4.61 | 5.72 | 5.01 | 6.07 | 6.46 | 13.33 | 14.45 | 13.73 | 14.80 |
| 3H | | 5.66 | 6.58 | 6.08 | 6.98 | 7.38 | 14.32 | 15.23 | 14.73 | 15.64 | 16.04 |
| 4H | | 6.12 | 6.93 | 6.55 | 7.35 | 7.80 | 14.45 | 15.26 | 14.88 | 15.68 | 16.13 |
| 6H | | 6.67 | 7.38 | 7.13 | 7.82 | 8.29 | 14.48 | 15.19 | 14.94 | 15.63 | 16.10 |
| 8H | | 6.93 | 7.59 | 7.40 | 8.04 | 8.51 | 14.48 | 15.14 | 14.95 | 15.59 | 16.06 |
| 12H | | 7.17 | 7.76 | 7.66 | 8.24 | 8.71 | 14.49 | 15.07 | 14.97 | 15.55 | 16.03 |
| 8H | 4H | 6.67 | 7.33 | 7.14 | 7.78 | 8.25 | 14.37 | 15.03 | 14.84 | 15.48 | 15.95 |
| | 6H | 7.45 | 7.99 | 7.95 | 8.49 | 8.97 | 14.43 | 14.97 | 14.93 | 15.47 | 15.95 |
| | 8H | 7.87 | 8.35 | 8.39 | 8.87 | 9.36 | 14.46 | 14.95 | 14.98 | 15.46 | 15.95 |
| | 12H | 8.29 | 8.71 | 8.80 | 9.21 | 9.78 | 14.51 | 14.94 | 15.03 | 15.44 | 16.01 |
| 12H | 4H | 6.73 | 7.32 | 7.22 | 7.80 | 8.27 | 14.34 | 14.92 | 14.82 | 15.40 | 15.88 |
| | 6H | 7.59 | 8.08 | 8.11 | 8.59 | 9.08 | 14.40 | 14.88 | 14.92 | 15.40 | 15.89 |
| | 8H | 8.12 | 8.55 | 8.64 | 9.05 | 9.62 | 14.46 | 14.89 | 14.98 | 15.39 | 15.96 |