

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: P1061672

Luminaire Tested: S125RDRP-S375D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061672
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-S375D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

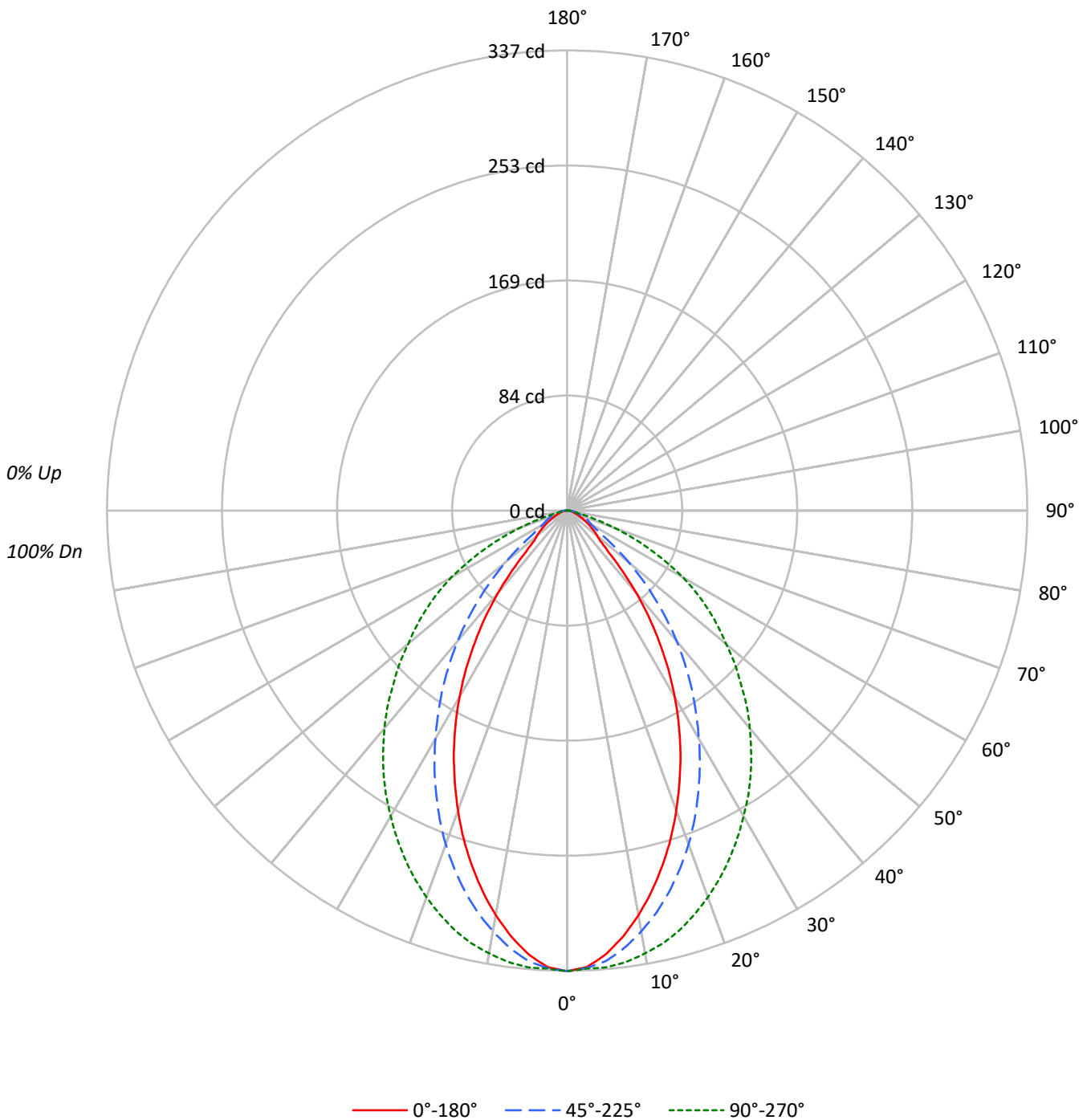
Lumens per Lamp: N/A
Luminaire Lumens: 487.0 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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° | 2322 | 2322 | 2322 |
| 5° | 2254 | 2287 | 2320 |
| 10° | 2104 | 2188 | 2302 |
| 15° | 1920 | 2059 | 2267 |
| 20° | 1712 | 1906 | 2208 |
| 25° | 1493 | 1727 | 2137 |
| 30° | 1253 | 1534 | 2055 |
| 35° | 988 | 1335 | 1971 |
| 40° | 708 | 1122 | 1870 |
| 45° | 417 | 880 | 1753 |
| 50° | 308 | 634 | 1628 |
| 55° | 259 | 384 | 1513 |
| 60° | 209 | 281 | 1350 |
| 65° | 163 | 267 | 1082 |
| 70° | 137 | 250 | 733 |
| 75° | 128 | 223 | 319 |
| 80° | 127 | 222 | 206 |
| 85° | 158 | 284 | 221 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1753 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.1 | 6.4 |
| 10°-20° | 81.7 | 16.8 |
| 20°-30° | 106.7 | 21.9 |
| 30°-40° | 103.9 | 21.3 |
| 40°-50° | 77.6 | 15.9 |
| 50°-60° | 48.1 | 9.9 |
| 60°-70° | 25.3 | 5.2 |
| 70°-80° | 9.2 | 1.9 |
| 80°-90° | 3.5 | 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° | 219.4 | 45.1 |
| 0°-40° | 323.3 | 66.4 |
| 0°-60° | 449.0 | 92.2 |
| 0°-90° | 487.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 487.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 337 | 337 | 337 | 337 | 337 | |
| 5° | 326 | 330 | 331 | 333 | 336 | 30 |
| 15° | 269 | 277 | 289 | 306 | 318 | 75 |
| 25° | 196 | 206 | 227 | 258 | 281 | 90 |
| 35° | 118 | 130 | 159 | 201 | 234 | 73 |
| 45° | 43 | 56 | 90 | 141 | 180 | 36 |
| 55° | 22 | 23 | 32 | 83 | 126 | 19 |
| 65° | 10 | 11 | 16 | 35 | 66 | 10 |
| 75° | 5 | 6 | 8 | 9 | 12 | 5 |
| 85° | 2 | 4 | 4 | 4 | 3 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061672

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 337.3 | 337.3 | 337.3 | 337.3 | 337.3 |
| 2.5° | 334.5 | 337.3 | 335.3 | 335.3 | 335.7 |
| 5° | 326.1 | 330.5 | 330.9 | 332.9 | 335.7 |
| 7.5° | 314.5 | 319.7 | 322.9 | 328.9 | 333.3 |
| 10° | 300.9 | 306.9 | 312.9 | 322.9 | 329.3 |
| 12.5° | 285.7 | 292.9 | 301.7 | 315.3 | 324.5 |
| 15° | 269.3 | 277.3 | 288.9 | 306.5 | 318.1 |
| 17.5° | 252.1 | 260.5 | 274.9 | 296.1 | 310.1 |
| 20° | 233.7 | 242.9 | 260.1 | 284.1 | 301.3 |
| 22.5° | 214.9 | 225.3 | 244.1 | 271.3 | 291.7 |
| 25° | 196.5 | 206.5 | 227.3 | 258.1 | 281.3 |
| 27.5° | 177.2 | 187.7 | 210.5 | 244.5 | 270.1 |
| 30° | 157.6 | 168.8 | 192.9 | 230.5 | 258.5 |
| 32.5° | 138.0 | 149.6 | 175.6 | 216.1 | 246.9 |
| 35° | 117.6 | 130.4 | 158.8 | 201.3 | 234.5 |
| 37.5° | 98.4 | 112.0 | 141.6 | 186.0 | 221.3 |
| 40° | 78.8 | 92.8 | 124.8 | 171.2 | 208.1 |
| 42.5° | 59.6 | 74.0 | 107.6 | 156.0 | 194.9 |
| 45° | 42.8 | 56.0 | 90.4 | 141.2 | 180.0 |
| 47.5° | 32.8 | 40.4 | 74.4 | 126.0 | 166.8 |
| 50° | 28.8 | 31.2 | 59.2 | 111.2 | 152.0 |
| 52.5° | 25.2 | 26.8 | 44.0 | 96.8 | 139.2 |
| 55° | 21.6 | 22.8 | 32.0 | 83.2 | 126.0 |
| 57.5° | 18.4 | 19.6 | 24.4 | 70.8 | 112.4 |
| 60° | 15.2 | 16.4 | 20.4 | 58.4 | 98.0 |
| 62.5° | 12.8 | 13.2 | 18.4 | 46.8 | 82.0 |
| 65° | 10.0 | 10.8 | 16.4 | 35.2 | 66.4 |
| 67.5° | 8.4 | 8.8 | 14.4 | 25.2 | 51.2 |
| 70° | 6.8 | 7.2 | 12.4 | 17.6 | 36.4 |
| 72.5° | 6.0 | 6.0 | 10.4 | 12.8 | 23.2 |
| 75° | 4.8 | 5.6 | 8.4 | 9.2 | 12.0 |
| 77.5° | 4.0 | 5.6 | 7.2 | 6.8 | 6.4 |
| 80° | 3.2 | 5.2 | 5.6 | 5.6 | 5.2 |
| 82.5° | 2.8 | 4.4 | 4.8 | 4.4 | 4.0 |
| 85° | 2.0 | 3.6 | 3.6 | 3.6 | 2.8 |
| 87.5° | 1.6 | 3.2 | 2.8 | 2.8 | 2.0 |
| 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 | 2.71 | 4.06 | 3.08 | 4.37 | 4.69 | 12.42 | 13.77 | 12.78 | 14.08 | 14.39 |
| | 3H | 3.55 | 4.75 | 3.93 | 5.08 | 5.44 | 13.33 | 14.53 | 13.71 | 14.86 | 15.22 |
| | 4H | 3.91 | 5.03 | 4.31 | 5.38 | 5.76 | 13.43 | 14.54 | 13.83 | 14.89 | 15.28 |
| | 6H | 4.28 | 5.31 | 4.70 | 5.68 | 6.07 | 13.41 | 14.44 | 13.83 | 14.81 | 15.20 |
| | 8H | 4.46 | 5.44 | 4.89 | 5.83 | 6.23 | 13.40 | 14.37 | 13.83 | 14.76 | 15.17 |
| | 12H | 4.63 | 5.56 | 5.06 | 5.94 | 6.37 | 13.39 | 14.32 | 13.82 | 14.70 | 15.13 |
| 4H | 2H | 3.54 | 4.66 | 3.94 | 5.01 | 5.39 | 12.27 | 13.38 | 12.67 | 13.73 | 14.12 |
| | 3H | 4.60 | 5.51 | 5.01 | 5.92 | 6.32 | 13.26 | 14.17 | 13.67 | 14.57 | 14.98 |
| | 4H | 5.05 | 5.87 | 5.49 | 6.29 | 6.73 | 13.39 | 14.20 | 13.82 | 14.62 | 15.06 |
| | 6H | 5.61 | 6.32 | 6.07 | 6.76 | 7.23 | 13.42 | 14.12 | 13.88 | 14.57 | 15.04 |
| | 8H | 5.87 | 6.53 | 6.34 | 6.98 | 7.45 | 13.42 | 14.08 | 13.89 | 14.52 | 14.99 |
| | 12H | 6.11 | 6.70 | 6.60 | 7.18 | 7.65 | 13.43 | 14.01 | 13.91 | 14.49 | 14.97 |
| 8H | 4H | 5.61 | 6.27 | 6.08 | 6.72 | 7.19 | 13.31 | 13.97 | 13.78 | 14.42 | 14.89 |
| | 6H | 6.39 | 6.93 | 6.89 | 7.42 | 7.90 | 13.37 | 13.91 | 13.87 | 14.41 | 14.89 |
| | 8H | 6.80 | 7.29 | 7.33 | 7.80 | 8.29 | 13.40 | 13.88 | 13.92 | 14.40 | 14.89 |
| | 12H | 7.22 | 7.65 | 7.74 | 8.14 | 8.71 | 13.45 | 13.88 | 13.97 | 14.38 | 14.95 |
| 12H | 4H | 5.67 | 6.25 | 6.16 | 6.74 | 7.21 | 13.28 | 13.86 | 13.76 | 14.34 | 14.82 |
| | 6H | 6.53 | 7.02 | 7.05 | 7.53 | 8.02 | 13.34 | 13.82 | 13.86 | 14.34 | 14.83 |
| | 8H | 7.06 | 7.49 | 7.57 | 7.98 | 8.55 | 13.40 | 13.83 | 13.92 | 14.32 | 14.89 |