

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: P1062071

Luminaire Tested: S125RDRP-H375D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H375D940-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

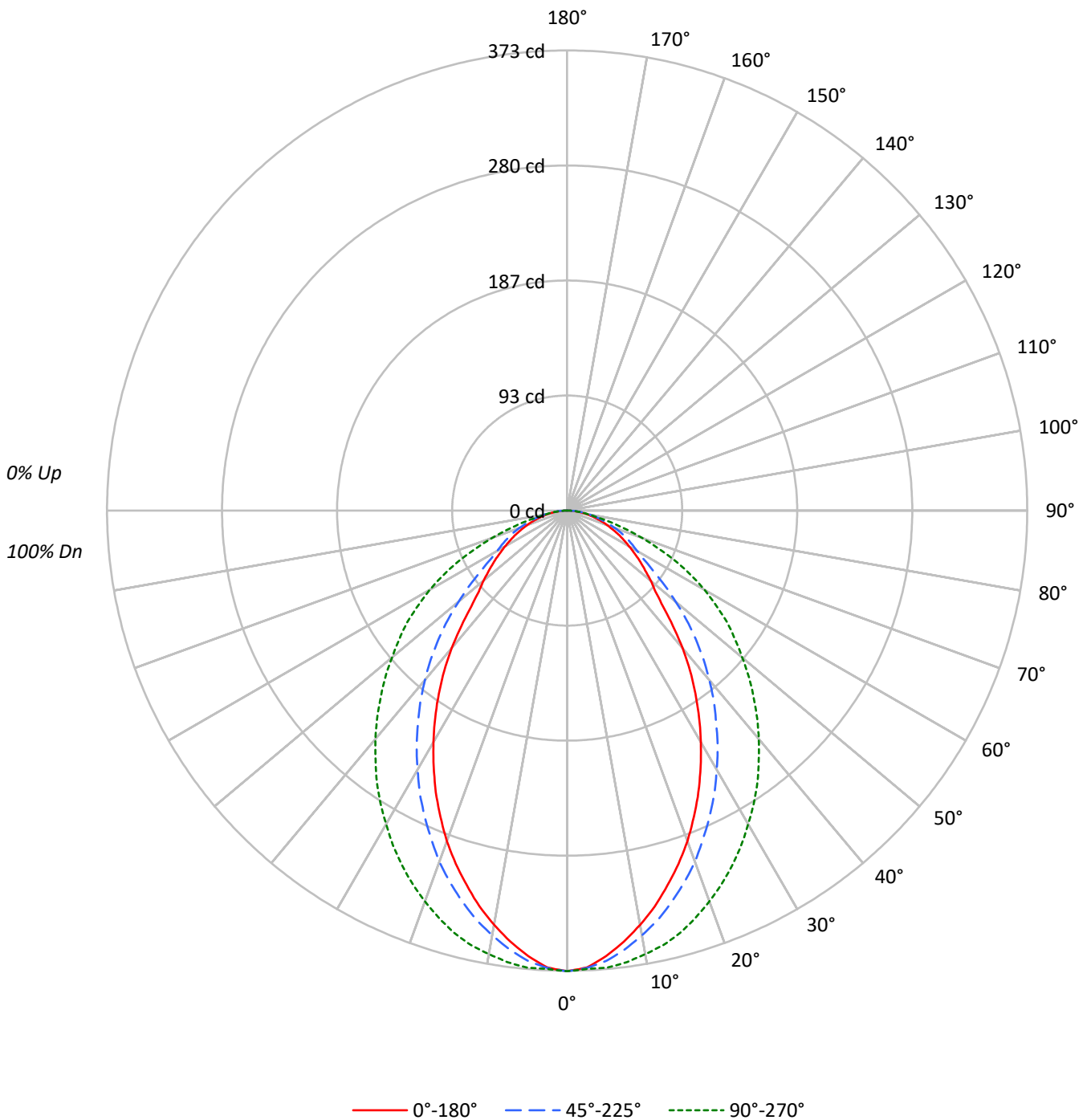
Lumens per Lamp: N/A
Luminaire Lumens: 699.9 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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 | 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 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 86 | 82 | 89 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | | | | | 74 | | | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | | | | | 64 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | | 56 | | | | |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | | | | | 50 | | | | |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 48 | 59 | 52 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | | | | | 44 | | | | |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | | | | | 40 | | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | | | | | 36 | | | | |
| 9 | 61 | 48 | 41 | 35 | 59 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | | | | | 33 | | | | |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 42 | 36 | 32 | | | | | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2571 | 2571 | 2571 |
| 5° | 2505 | 2532 | 2570 |
| 10° | 2383 | 2444 | 2553 |
| 15° | 2241 | 2339 | 2525 |
| 20° | 2088 | 2219 | 2471 |
| 25° | 1913 | 2077 | 2408 |
| 30° | 1723 | 1927 | 2333 |
| 35° | 1524 | 1771 | 2260 |
| 40° | 1308 | 1612 | 2172 |
| 45° | 1068 | 1434 | 2081 |
| 50° | 947 | 1231 | 1986 |
| 55° | 869 | 1020 | 1903 |
| 60° | 801 | 903 | 1772 |
| 65° | 748 | 868 | 1580 |
| 70° | 699 | 825 | 1292 |
| 75° | 644 | 774 | 952 |
| 80° | 607 | 726 | 694 |
| 85° | 561 | 711 | 592 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2081 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.5 | 4.9 |
| 10°-20° | 93.1 | 13.3 |
| 20°-30° | 127.9 | 18.3 |
| 30°-40° | 135.6 | 19.4 |
| 40°-50° | 118.3 | 16.9 |
| 50°-60° | 89.9 | 12.8 |
| 60°-70° | 60.2 | 8.6 |
| 70°-80° | 31.0 | 4.4 |
| 80°-90° | 9.3 | 1.3 |
| 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° | 255.5 | 36.5 |
| 0°-40° | 391.1 | 55.9 |
| 0°-60° | 599.3 | 85.6 |
| 0°-90° | 699.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 699.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 373 | 373 | 373 | 373 | 373 | |
| 5° | 362 | 366 | 366 | 369 | 372 | 34 |
| 15° | 314 | 320 | 328 | 343 | 354 | 88 |
| 25° | 252 | 260 | 273 | 296 | 317 | 115 |
| 35° | 181 | 192 | 211 | 241 | 269 | 113 |
| 45° | 110 | 120 | 147 | 182 | 214 | 87 |
| 55° | 72 | 75 | 85 | 125 | 158 | 65 |
| 65° | 46 | 47 | 53 | 71 | 97 | 46 |
| 75° | 24 | 26 | 29 | 31 | 36 | 26 |
| 85° | 7 | 9 | 9 | 8 | 8 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 373.4 | 373.4 | 373.4 | 373.4 | 373.4 |
| 2.5° | 370.7 | 373.4 | 371.1 | 371.1 | 371.9 |
| 5° | 362.5 | 366.3 | 366.3 | 368.9 | 371.9 |
| 7.5° | 352.5 | 356.6 | 358.8 | 364.8 | 369.2 |
| 10° | 340.9 | 345.4 | 349.5 | 358.4 | 365.1 |
| 12.5° | 328.6 | 333.4 | 339.8 | 351.3 | 360.7 |
| 15° | 314.4 | 320.4 | 328.2 | 342.8 | 354.3 |
| 17.5° | 300.2 | 306.2 | 315.9 | 333.1 | 346.1 |
| 20° | 285.0 | 291.3 | 302.9 | 321.5 | 337.2 |
| 22.5° | 268.5 | 275.6 | 287.9 | 309.2 | 327.5 |
| 25° | 251.8 | 259.6 | 273.4 | 296.1 | 317.0 |
| 27.5° | 234.2 | 243.6 | 258.5 | 282.7 | 305.8 |
| 30° | 216.7 | 226.0 | 242.4 | 268.9 | 293.5 |
| 32.5° | 199.2 | 209.2 | 227.1 | 255.1 | 281.6 |
| 35° | 181.3 | 191.7 | 210.7 | 240.6 | 268.9 |
| 37.5° | 163.7 | 174.2 | 195.4 | 226.4 | 255.1 |
| 40° | 145.5 | 156.3 | 179.4 | 211.9 | 241.7 |
| 42.5° | 126.8 | 138.4 | 163.4 | 196.9 | 227.9 |
| 45° | 109.7 | 120.5 | 147.3 | 182.4 | 213.7 |
| 47.5° | 97.0 | 104.1 | 131.3 | 167.5 | 199.9 |
| 50° | 88.4 | 92.1 | 114.9 | 152.9 | 185.4 |
| 52.5° | 79.8 | 82.8 | 99.6 | 138.0 | 171.6 |
| 55° | 72.4 | 74.6 | 85.0 | 124.9 | 158.5 |
| 57.5° | 64.9 | 67.1 | 73.8 | 111.9 | 143.2 |
| 60° | 58.2 | 60.0 | 65.6 | 98.1 | 128.7 |
| 62.5° | 51.8 | 53.3 | 59.3 | 85.0 | 113.0 |
| 65° | 45.9 | 47.0 | 53.3 | 71.2 | 97.0 |
| 67.5° | 39.9 | 41.0 | 47.4 | 58.2 | 79.8 |
| 70° | 34.7 | 35.1 | 41.0 | 47.4 | 64.2 |
| 72.5° | 29.5 | 29.8 | 34.7 | 38.4 | 49.2 |
| 75° | 24.2 | 25.7 | 29.1 | 31.0 | 35.8 |
| 77.5° | 19.8 | 21.6 | 23.5 | 24.2 | 24.2 |
| 80° | 15.3 | 17.5 | 18.3 | 18.3 | 17.5 |
| 82.5° | 11.2 | 13.1 | 13.4 | 12.7 | 11.9 |
| 85° | 7.1 | 9.0 | 9.0 | 8.2 | 7.5 |
| 87.5° | 3.4 | 4.8 | 4.8 | 4.5 | 3.4 |
| 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 | 9.88 | 11.38 | 10.25 | 11.69 | 12.01 | 13.82 | 15.31 | 14.18 | 15.63 | 15.94 |
| | 3H | 11.46 | 12.80 | 11.83 | 13.13 | 13.49 | 15.24 | 16.58 | 15.62 | 16.91 | 17.27 |
| | 4H | 12.07 | 13.33 | 12.47 | 13.68 | 14.06 | 15.65 | 16.91 | 16.05 | 17.26 | 17.64 |
| | 6H | 12.56 | 13.73 | 12.98 | 14.09 | 14.49 | 15.87 | 17.03 | 16.28 | 17.40 | 17.79 |
| | 8H | 12.74 | 13.85 | 13.17 | 14.24 | 14.64 | 15.93 | 17.03 | 16.35 | 17.42 | 17.82 |
| | 12H | 12.86 | 13.92 | 13.29 | 14.30 | 14.73 | 15.96 | 17.02 | 16.39 | 17.40 | 17.83 |
| 4H | 2H | 10.62 | 11.88 | 11.02 | 12.23 | 12.61 | 13.94 | 15.20 | 14.34 | 15.55 | 15.93 |
| | 3H | 12.40 | 13.45 | 12.81 | 13.85 | 14.25 | 15.55 | 16.60 | 15.96 | 17.00 | 17.40 |
| | 4H | 13.14 | 14.08 | 13.57 | 14.49 | 14.93 | 16.08 | 17.02 | 16.51 | 17.43 | 17.87 |
| | 6H | 13.77 | 14.59 | 14.23 | 15.03 | 15.49 | 16.42 | 17.24 | 16.88 | 17.68 | 18.14 |
| | 8H | 14.00 | 14.77 | 14.46 | 15.21 | 15.68 | 16.52 | 17.28 | 16.98 | 17.73 | 18.20 |
| | 12H | 14.18 | 14.86 | 14.66 | 15.34 | 15.81 | 16.59 | 17.27 | 17.07 | 17.75 | 18.22 |
| 8H | 4H | 13.54 | 14.30 | 14.00 | 14.75 | 15.21 | 16.19 | 16.95 | 16.65 | 17.39 | 17.86 |
| | 6H | 14.32 | 14.96 | 14.82 | 15.45 | 15.92 | 16.62 | 17.25 | 17.12 | 17.75 | 18.22 |
| | 8H | 14.65 | 15.22 | 15.16 | 15.73 | 16.21 | 16.78 | 17.35 | 17.30 | 17.86 | 18.35 |
| | 12H | 14.93 | 15.43 | 15.44 | 15.92 | 16.48 | 16.92 | 17.42 | 17.43 | 17.91 | 18.48 |
| 12H | 4H | 13.58 | 14.26 | 14.06 | 14.74 | 15.21 | 16.19 | 16.87 | 16.67 | 17.35 | 17.82 |
| | 6H | 14.41 | 14.97 | 14.92 | 15.48 | 15.97 | 16.64 | 17.21 | 17.15 | 17.72 | 18.21 |
| | 8H | 14.80 | 15.30 | 15.31 | 15.80 | 16.36 | 16.85 | 17.35 | 17.36 | 17.84 | 18.41 |