

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: P1061582

Luminaire Tested: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061582
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-S1270D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

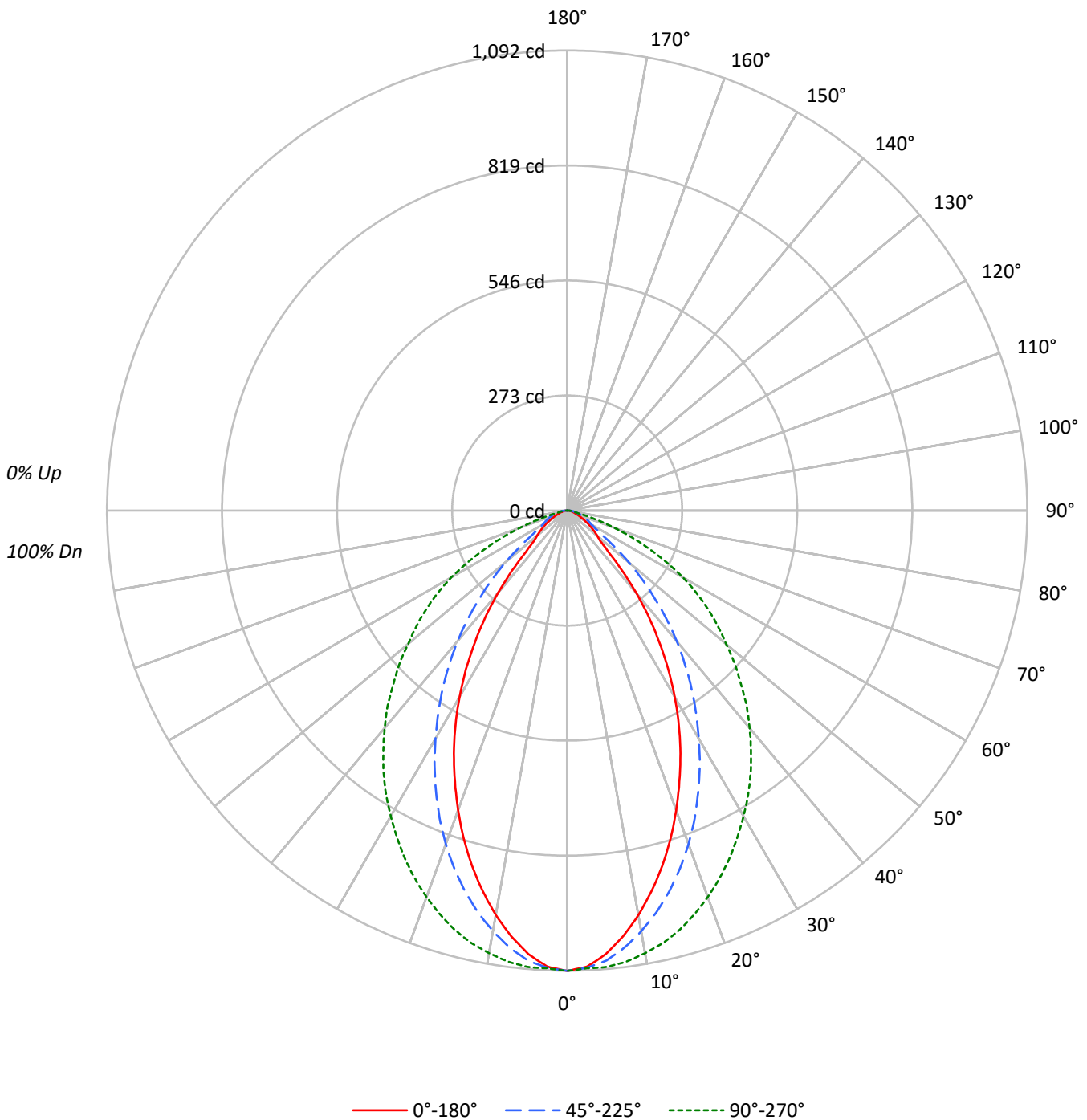
Lumens per Lamp: N/A
Luminaire Lumens: 1577.4 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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

TEST NUMBER: P1061582

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061582

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-S

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° | 7521 | 7521 | 7521 |
| 5° | 7299 | 7407 | 7514 |
| 10° | 6813 | 7084 | 7456 |
| 15° | 6216 | 6669 | 7343 |
| 20° | 5545 | 6172 | 7150 |
| 25° | 4834 | 5591 | 6921 |
| 30° | 4059 | 4966 | 6655 |
| 35° | 3202 | 4324 | 6383 |
| 40° | 2295 | 3634 | 6056 |
| 45° | 1351 | 2852 | 5678 |
| 50° | 999 | 2054 | 5274 |
| 55° | 840 | 1245 | 4900 |
| 60° | 678 | 910 | 4372 |
| 65° | 528 | 865 | 3504 |
| 70° | 443 | 809 | 2373 |
| 75° | 415 | 724 | 1035 |
| 80° | 412 | 718 | 666 |
| 85° | 513 | 924 | 719 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5678 cd/sqm



TEST NUMBER: P1061582

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.6 | 6.4 |
| 10°-20° | 264.4 | 16.8 |
| 20°-30° | 345.6 | 21.9 |
| 30°-40° | 336.4 | 21.3 |
| 40°-50° | 251.4 | 15.9 |
| 50°-60° | 155.9 | 9.9 |
| 60°-70° | 81.9 | 5.2 |
| 70°-80° | 29.8 | 1.9 |
| 80°-90° | 11.3 | 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° | 710.6 | 45.1 |
| 0°-40° | 1047.0 | 66.4 |
| 0°-60° | 1454.3 | 92.2 |
| 0°-90° | 1577.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1577.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1092 | 1092 | 1092 | 1092 | 1092 | |
| 5° | 1056 | 1070 | 1072 | 1078 | 1087 | 98 |
| 15° | 872 | 898 | 936 | 993 | 1030 | 243 |
| 25° | 636 | 669 | 736 | 836 | 911 | 291 |
| 35° | 381 | 422 | 514 | 652 | 759 | 237 |
| 45° | 139 | 181 | 293 | 457 | 583 | 117 |
| 55° | 70 | 74 | 104 | 270 | 408 | 63 |
| 65° | 32 | 35 | 53 | 114 | 215 | 34 |
| 75° | 16 | 18 | 27 | 30 | 39 | 17 |
| 85° | 6 | 12 | 12 | 12 | 9 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061582

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 |
| 2.5° | 1083.3 | 1092.4 | 1085.9 | 1085.9 | 1087.2 |
| 5° | 1056.1 | 1070.4 | 1071.7 | 1078.1 | 1087.2 |
| 7.5° | 1018.5 | 1035.4 | 1045.7 | 1065.2 | 1079.4 |
| 10° | 974.5 | 993.9 | 1013.3 | 1045.7 | 1066.5 |
| 12.5° | 925.2 | 948.6 | 977.1 | 1021.1 | 1050.9 |
| 15° | 872.1 | 898.0 | 935.6 | 992.6 | 1030.2 |
| 17.5° | 816.4 | 843.6 | 890.2 | 958.9 | 1004.3 |
| 20° | 756.8 | 786.6 | 842.3 | 920.0 | 975.8 |
| 22.5° | 695.9 | 729.6 | 790.5 | 878.6 | 944.7 |
| 25° | 636.3 | 668.7 | 736.0 | 835.8 | 911.0 |
| 27.5° | 574.1 | 607.7 | 681.6 | 791.8 | 874.7 |
| 30° | 510.6 | 546.8 | 624.6 | 746.4 | 837.1 |
| 32.5° | 447.1 | 484.6 | 568.9 | 699.8 | 799.5 |
| 35° | 381.0 | 422.4 | 514.4 | 651.8 | 759.4 |
| 37.5° | 318.8 | 362.8 | 458.7 | 602.6 | 716.6 |
| 40° | 255.3 | 300.6 | 404.3 | 554.6 | 673.8 |
| 42.5° | 193.1 | 239.7 | 348.6 | 505.4 | 631.1 |
| 45° | 138.7 | 181.4 | 292.9 | 457.4 | 583.1 |
| 47.5° | 106.3 | 130.9 | 241.0 | 408.2 | 540.4 |
| 50° | 93.3 | 101.1 | 191.8 | 360.2 | 492.4 |
| 52.5° | 81.6 | 86.8 | 142.5 | 313.6 | 451.0 |
| 55° | 70.0 | 73.9 | 103.7 | 269.5 | 408.2 |
| 57.5° | 59.6 | 63.5 | 79.0 | 229.4 | 364.1 |
| 60° | 49.2 | 53.1 | 66.1 | 189.2 | 317.5 |
| 62.5° | 41.5 | 42.8 | 59.6 | 151.6 | 265.6 |
| 65° | 32.4 | 35.0 | 53.1 | 114.0 | 215.1 |
| 67.5° | 27.2 | 28.5 | 46.7 | 81.6 | 165.9 |
| 70° | 22.0 | 23.3 | 40.2 | 57.0 | 117.9 |
| 72.5° | 19.4 | 19.4 | 33.7 | 41.5 | 75.2 |
| 75° | 15.6 | 18.1 | 27.2 | 29.8 | 38.9 |
| 77.5° | 13.0 | 18.1 | 23.3 | 22.0 | 20.7 |
| 80° | 10.4 | 16.8 | 18.1 | 18.1 | 16.8 |
| 82.5° | 9.1 | 14.3 | 15.6 | 14.3 | 13.0 |
| 85° | 6.5 | 11.7 | 11.7 | 11.7 | 9.1 |
| 87.5° | 5.2 | 10.4 | 9.1 | 9.1 | 6.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P1061582
 CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-S

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 | 6.80 | 8.15 | 7.16 | 8.46 | 8.77 | 16.50 | 17.85 | 16.87 | 18.16 | 18.48 |
| | 3H | 7.63 | 8.83 | 8.01 | 9.16 | 9.53 | 17.41 | 18.61 | 17.79 | 18.94 | 19.31 |
| | 4H | 7.99 | 9.11 | 8.40 | 9.46 | 9.84 | 17.51 | 18.63 | 17.91 | 18.98 | 19.36 |
| | 6H | 8.37 | 9.40 | 8.78 | 9.77 | 10.16 | 17.50 | 18.52 | 17.91 | 18.89 | 19.29 |
| | 8H | 8.55 | 9.52 | 8.98 | 9.91 | 10.32 | 17.49 | 18.46 | 17.91 | 18.85 | 19.25 |
| | 12H | 8.71 | 9.64 | 9.15 | 10.03 | 10.46 | 17.47 | 18.40 | 17.90 | 18.78 | 19.22 |
| 4H | 2H | 7.63 | 8.74 | 8.03 | 9.09 | 9.48 | 16.35 | 17.47 | 16.75 | 17.82 | 18.20 |
| | 3H | 8.68 | 9.60 | 9.09 | 10.00 | 10.40 | 17.34 | 18.26 | 17.75 | 18.66 | 19.06 |
| | 4H | 9.14 | 9.95 | 9.57 | 10.37 | 10.82 | 17.47 | 18.29 | 17.90 | 18.71 | 19.15 |
| | 6H | 9.69 | 10.40 | 10.16 | 10.85 | 11.31 | 17.50 | 18.21 | 17.96 | 18.65 | 19.12 |
| | 8H | 9.96 | 10.62 | 10.42 | 11.06 | 11.53 | 17.50 | 18.16 | 17.97 | 18.61 | 19.08 |
| | 12H | 10.20 | 10.78 | 10.69 | 11.27 | 11.74 | 17.51 | 18.10 | 18.00 | 18.58 | 19.05 |
| 8H | 4H | 9.69 | 10.35 | 10.16 | 10.80 | 11.27 | 17.40 | 18.05 | 17.86 | 18.50 | 18.97 |
| | 6H | 10.47 | 11.01 | 10.97 | 11.50 | 11.98 | 17.45 | 17.99 | 17.96 | 18.49 | 18.97 |
| | 8H | 10.89 | 11.37 | 11.41 | 11.89 | 12.38 | 17.48 | 17.97 | 18.00 | 18.48 | 18.97 |
| | 12H | 11.31 | 11.74 | 11.82 | 12.23 | 12.80 | 17.54 | 17.97 | 18.05 | 18.46 | 19.03 |
| 12H | 4H | 9.75 | 10.34 | 10.24 | 10.82 | 11.29 | 17.36 | 17.94 | 17.85 | 18.43 | 18.90 |
| | 6H | 10.61 | 11.10 | 11.13 | 11.61 | 12.10 | 17.42 | 17.91 | 17.94 | 18.42 | 18.91 |
| | 8H | 11.14 | 11.57 | 11.66 | 12.07 | 12.64 | 17.49 | 17.91 | 18.00 | 18.41 | 18.98 |