

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: P1061576

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061576
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-S1270D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

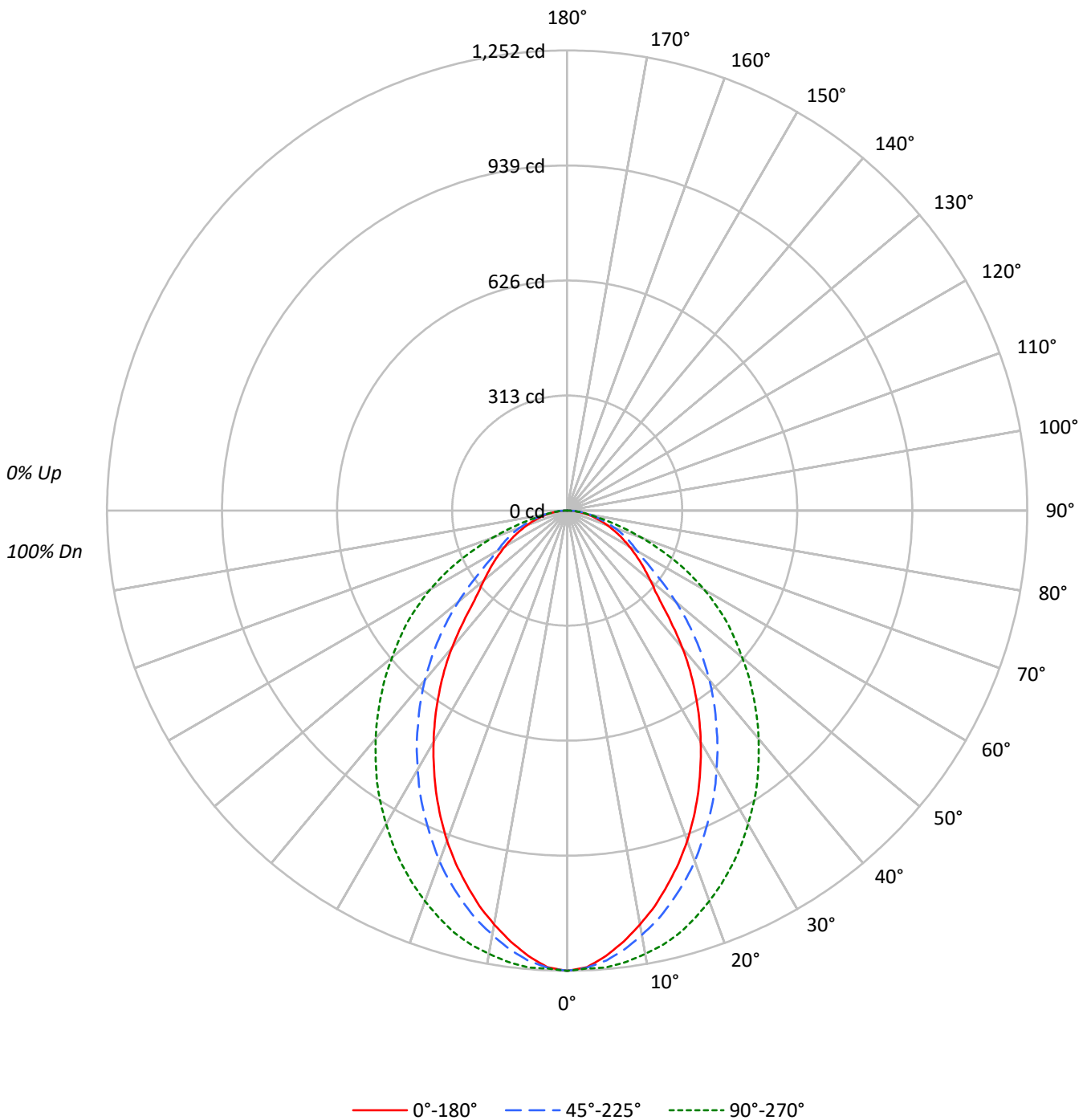
Lumens per Lamp: N/A
Luminaire Lumens: 2347.4 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





TEST NUMBER: P1061576

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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 | 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 | 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° | 8622 | 8622 | 8622 |
| 5° | 8404 | 8490 | 8620 |
| 10° | 7993 | 8195 | 8562 |
| 15° | 7517 | 7847 | 8471 |
| 20° | 7003 | 7442 | 8286 |
| 25° | 6415 | 6966 | 8078 |
| 30° | 5778 | 6464 | 7827 |
| 35° | 5110 | 5941 | 7581 |
| 40° | 4385 | 5408 | 7286 |
| 45° | 3581 | 4811 | 6980 |
| 50° | 3176 | 4127 | 6659 |
| 55° | 2913 | 3424 | 6381 |
| 60° | 2687 | 3032 | 5943 |
| 65° | 2507 | 2915 | 5298 |
| 70° | 2341 | 2770 | 4332 |
| 75° | 2163 | 2596 | 3195 |
| 80° | 2034 | 2431 | 2331 |
| 85° | 1880 | 2370 | 1975 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6980 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.9 | 4.9 |
| 10°-20° | 312.1 | 13.3 |
| 20°-30° | 429.0 | 18.3 |
| 30°-40° | 454.6 | 19.4 |
| 40°-50° | 396.9 | 16.9 |
| 50°-60° | 301.5 | 12.8 |
| 60°-70° | 202.0 | 8.6 |
| 70°-80° | 104.1 | 4.4 |
| 80°-90° | 31.2 | 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° | 857.0 | 36.5 |
| 0°-40° | 1311.6 | 55.9 |
| 0°-60° | 2010.0 | 85.6 |
| 0°-90° | 2347.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2347.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1252 | 1252 | 1252 | 1252 | 1252 | |
| 5° | 1216 | 1228 | 1228 | 1237 | 1247 | 114 |
| 15° | 1054 | 1074 | 1101 | 1150 | 1188 | 296 |
| 25° | 844 | 871 | 917 | 993 | 1063 | 387 |
| 35° | 608 | 643 | 707 | 807 | 902 | 379 |
| 45° | 368 | 404 | 494 | 612 | 717 | 290 |
| 55° | 243 | 250 | 285 | 419 | 532 | 218 |
| 65° | 154 | 158 | 179 | 239 | 325 | 153 |
| 75° | 81 | 86 | 98 | 104 | 120 | 87 |
| 85° | 24 | 30 | 30 | 28 | 25 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061576

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1252.2 | 1252.2 | 1252.2 | 1252.2 | 1252.2 |
| 2.5° | 1243.4 | 1252.2 | 1244.7 | 1244.7 | 1247.2 |
| 5° | 1215.9 | 1228.4 | 1228.4 | 1237.1 | 1247.2 |
| 7.5° | 1182.1 | 1195.9 | 1203.4 | 1223.4 | 1238.4 |
| 10° | 1143.3 | 1158.3 | 1172.1 | 1202.1 | 1224.6 |
| 12.5° | 1102.0 | 1118.3 | 1139.6 | 1178.4 | 1209.6 |
| 15° | 1054.5 | 1074.5 | 1100.8 | 1149.6 | 1188.4 |
| 17.5° | 1007.0 | 1027.0 | 1059.5 | 1117.1 | 1160.8 |
| 20° | 955.7 | 977.0 | 1015.7 | 1078.3 | 1130.8 |
| 22.5° | 900.7 | 924.4 | 965.7 | 1037.0 | 1098.3 |
| 25° | 844.4 | 870.6 | 916.9 | 993.2 | 1063.3 |
| 27.5° | 785.6 | 816.8 | 866.9 | 948.2 | 1025.7 |
| 30° | 726.8 | 758.0 | 813.1 | 901.9 | 984.5 |
| 32.5° | 668.0 | 701.8 | 761.8 | 855.6 | 944.4 |
| 35° | 607.9 | 643.0 | 706.8 | 806.8 | 901.9 |
| 37.5° | 549.1 | 584.2 | 655.5 | 759.3 | 855.6 |
| 40° | 487.9 | 524.1 | 601.7 | 710.5 | 810.6 |
| 42.5° | 425.3 | 464.1 | 547.9 | 660.5 | 764.3 |
| 45° | 367.8 | 404.0 | 494.1 | 611.7 | 716.8 |
| 47.5° | 325.2 | 349.0 | 440.3 | 561.7 | 670.5 |
| 50° | 296.5 | 309.0 | 385.3 | 512.9 | 621.7 |
| 52.5° | 267.7 | 277.7 | 334.0 | 462.8 | 575.4 |
| 55° | 242.7 | 250.2 | 285.2 | 419.1 | 531.6 |
| 57.5° | 217.7 | 225.2 | 247.7 | 375.3 | 480.3 |
| 60° | 195.1 | 201.4 | 220.2 | 329.0 | 431.6 |
| 62.5° | 173.9 | 178.9 | 198.9 | 285.2 | 379.0 |
| 65° | 153.9 | 157.6 | 178.9 | 238.9 | 325.2 |
| 67.5° | 133.8 | 137.6 | 158.9 | 195.1 | 267.7 |
| 70° | 116.3 | 117.6 | 137.6 | 158.9 | 215.2 |
| 72.5° | 98.8 | 100.1 | 116.3 | 128.8 | 165.1 |
| 75° | 81.3 | 86.3 | 97.6 | 103.8 | 120.1 |
| 77.5° | 66.3 | 72.6 | 78.8 | 81.3 | 81.3 |
| 80° | 51.3 | 58.8 | 61.3 | 61.3 | 58.8 |
| 82.5° | 37.5 | 43.8 | 45.0 | 42.5 | 40.0 |
| 85° | 23.8 | 30.0 | 30.0 | 27.5 | 25.0 |
| 87.5° | 11.3 | 16.3 | 16.3 | 15.0 | 11.3 |
| 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 | 14.09 | 15.59 | 14.46 | 15.90 | 16.22 | 18.02 | 19.52 | 18.38 | 19.83 | 20.14 |
| | 3H | 15.66 | 17.01 | 16.04 | 17.33 | 17.70 | 19.44 | 20.78 | 19.82 | 21.11 | 21.47 |
| | 4H | 16.28 | 17.54 | 16.68 | 17.88 | 18.26 | 19.86 | 21.11 | 20.26 | 21.46 | 21.84 |
| | 6H | 16.77 | 17.93 | 17.18 | 18.30 | 18.69 | 20.07 | 21.24 | 20.49 | 21.60 | 21.99 |
| | 8H | 16.95 | 18.05 | 17.37 | 18.44 | 18.84 | 20.13 | 21.24 | 20.56 | 21.63 | 22.03 |
| | 12H | 17.07 | 18.13 | 17.50 | 18.51 | 18.94 | 20.17 | 21.22 | 20.60 | 21.61 | 22.04 |
| 4H | 2H | 14.83 | 16.09 | 15.23 | 16.44 | 16.82 | 18.15 | 19.40 | 18.55 | 19.75 | 20.13 |
| | 3H | 16.61 | 17.65 | 17.02 | 18.05 | 18.45 | 19.75 | 20.80 | 20.17 | 21.20 | 21.60 |
| | 4H | 17.34 | 18.28 | 17.78 | 18.70 | 19.14 | 20.28 | 21.22 | 20.71 | 21.64 | 22.08 |
| | 6H | 17.98 | 18.80 | 18.44 | 19.24 | 19.70 | 20.62 | 21.44 | 21.08 | 21.89 | 22.35 |
| | 8H | 18.21 | 18.97 | 18.67 | 19.42 | 19.88 | 20.72 | 21.49 | 21.19 | 21.93 | 22.40 |
| | 12H | 18.38 | 19.06 | 18.86 | 19.54 | 20.01 | 20.80 | 21.48 | 21.28 | 21.96 | 22.43 |
| 8H | 4H | 17.74 | 18.51 | 18.21 | 18.95 | 19.42 | 20.39 | 21.15 | 20.85 | 21.60 | 22.07 |
| | 6H | 18.53 | 19.16 | 19.03 | 19.65 | 20.13 | 20.83 | 21.46 | 21.32 | 21.95 | 22.43 |
| | 8H | 18.85 | 19.42 | 19.37 | 19.93 | 20.42 | 20.99 | 21.55 | 21.50 | 22.06 | 22.55 |
| | 12H | 19.13 | 19.63 | 19.64 | 20.12 | 20.69 | 21.12 | 21.62 | 21.63 | 22.11 | 22.68 |
| 12H | 4H | 17.79 | 18.47 | 18.27 | 18.95 | 19.42 | 20.39 | 21.07 | 20.87 | 21.55 | 22.02 |
| | 6H | 18.61 | 19.18 | 19.13 | 19.69 | 20.18 | 20.84 | 21.41 | 21.36 | 21.92 | 22.41 |
| | 8H | 19.01 | 19.51 | 19.52 | 20.00 | 20.57 | 21.05 | 21.55 | 21.56 | 22.05 | 22.61 |