

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: P1061990

Luminaire Tested: S125RDRP-H1270D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061990
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-H1270D940-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

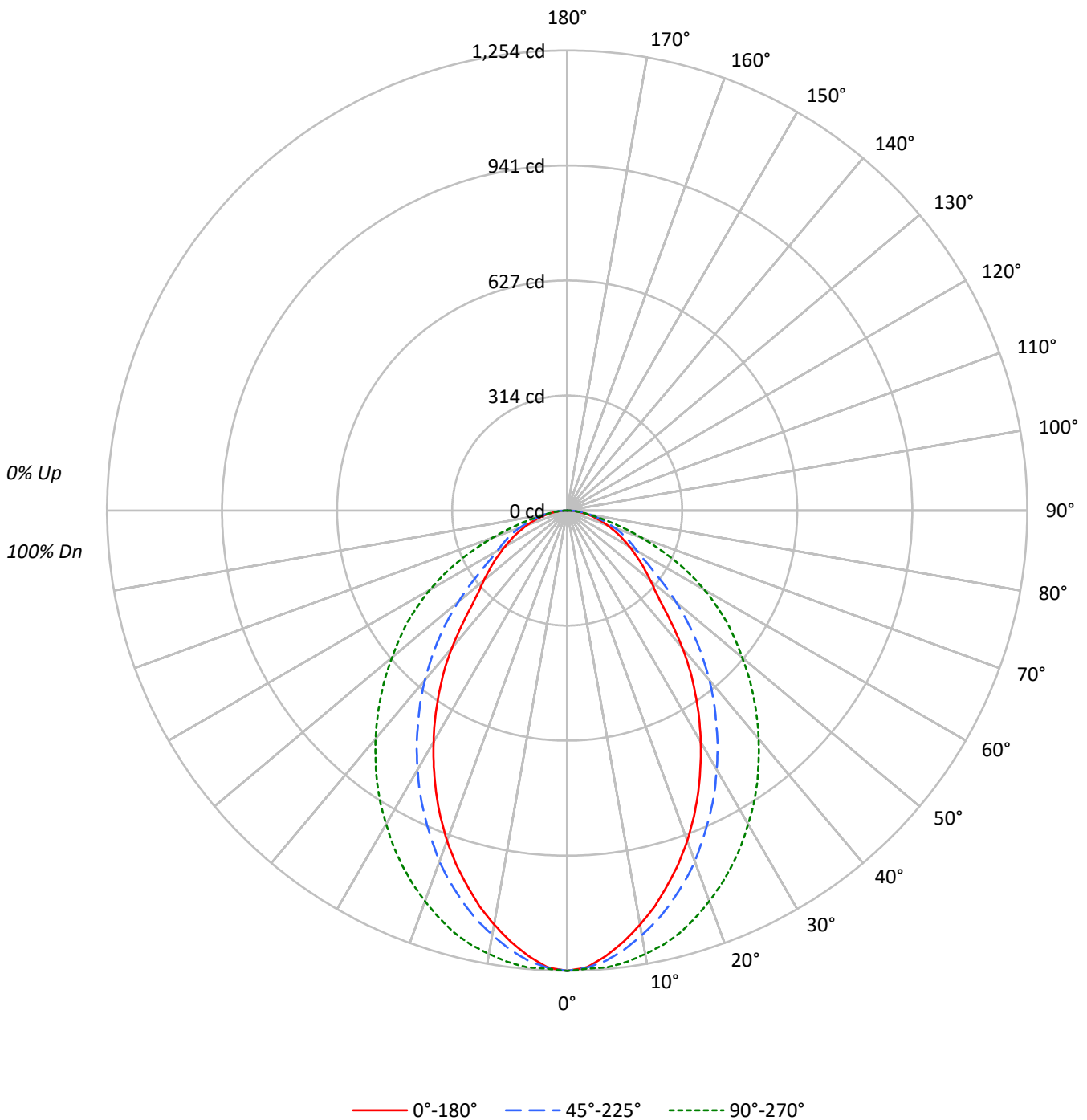
Lumens per Lamp: N/A
Luminaire Lumens: 2351.7 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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 | 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° | 8638 | 8638 | 8638 |
| 5° | 8419 | 8505 | 8635 |
| 10° | 8008 | 8210 | 8578 |
| 15° | 7530 | 7861 | 8486 |
| 20° | 7015 | 7456 | 8301 |
| 25° | 6426 | 6979 | 8092 |
| 30° | 5789 | 6476 | 7841 |
| 35° | 5120 | 5952 | 7595 |
| 40° | 4392 | 5418 | 7299 |
| 45° | 3587 | 4820 | 6992 |
| 50° | 3181 | 4135 | 6671 |
| 55° | 2918 | 3430 | 6393 |
| 60° | 2692 | 3038 | 5954 |
| 65° | 2511 | 2920 | 5308 |
| 70° | 2345 | 2776 | 4340 |
| 75° | 2168 | 2599 | 3200 |
| 80° | 2038 | 2435 | 2335 |
| 85° | 1880 | 2378 | 1983 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6992 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.1 | 4.9 |
| 10°-20° | 312.7 | 13.3 |
| 20°-30° | 429.8 | 18.3 |
| 30°-40° | 455.5 | 19.4 |
| 40°-50° | 397.6 | 16.9 |
| 50°-60° | 302.0 | 12.8 |
| 60°-70° | 202.4 | 8.6 |
| 70°-80° | 104.4 | 4.4 |
| 80°-90° | 31.3 | 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° | 858.6 | 36.5 |
| 0°-40° | 1314.0 | 55.9 |
| 0°-60° | 2013.6 | 85.6 |
| 0°-90° | 2351.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2351.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1254 | 1254 | 1254 | 1254 | 1254 | |
| 5° | 1218 | 1231 | 1231 | 1239 | 1249 | 114 |
| 15° | 1056 | 1076 | 1103 | 1152 | 1190 | 296 |
| 25° | 846 | 872 | 919 | 995 | 1065 | 388 |
| 35° | 609 | 644 | 708 | 808 | 904 | 380 |
| 45° | 368 | 405 | 495 | 613 | 718 | 291 |
| 55° | 243 | 251 | 286 | 420 | 533 | 218 |
| 65° | 154 | 158 | 179 | 239 | 326 | 153 |
| 75° | 82 | 86 | 98 | 104 | 120 | 87 |
| 85° | 24 | 30 | 30 | 28 | 25 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P1061990

CATALOG NUMBER: S125RDRP-H1270D940-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 |
| 2.5° | 1245.7 | 1254.5 | 1246.9 | 1246.9 | 1249.4 |
| 5° | 1218.1 | 1230.6 | 1230.6 | 1239.4 | 1249.4 |
| 7.5° | 1184.3 | 1198.1 | 1205.6 | 1225.6 | 1240.7 |
| 10° | 1145.4 | 1160.5 | 1174.3 | 1204.3 | 1226.9 |
| 12.5° | 1104.1 | 1120.4 | 1141.7 | 1180.5 | 1211.8 |
| 15° | 1056.4 | 1076.5 | 1102.8 | 1151.7 | 1190.5 |
| 17.5° | 1008.8 | 1028.9 | 1061.5 | 1119.1 | 1163.0 |
| 20° | 957.4 | 978.8 | 1017.6 | 1080.3 | 1132.9 |
| 22.5° | 902.3 | 926.1 | 967.5 | 1038.9 | 1100.3 |
| 25° | 845.9 | 872.2 | 918.6 | 995.0 | 1065.2 |
| 27.5° | 787.0 | 818.3 | 868.5 | 949.9 | 1027.6 |
| 30° | 728.1 | 759.4 | 814.6 | 903.6 | 986.3 |
| 32.5° | 669.2 | 703.0 | 763.2 | 857.2 | 946.2 |
| 35° | 609.1 | 644.1 | 708.1 | 808.3 | 903.6 |
| 37.5° | 550.2 | 585.2 | 656.7 | 760.7 | 857.2 |
| 40° | 488.7 | 525.1 | 602.8 | 711.8 | 812.1 |
| 42.5° | 426.1 | 464.9 | 548.9 | 661.7 | 765.7 |
| 45° | 368.4 | 404.8 | 495.0 | 612.8 | 718.1 |
| 47.5° | 325.8 | 349.6 | 441.1 | 562.7 | 671.7 |
| 50° | 297.0 | 309.5 | 386.0 | 513.8 | 622.8 |
| 52.5° | 268.2 | 278.2 | 334.6 | 463.7 | 576.5 |
| 55° | 243.1 | 250.6 | 285.7 | 419.8 | 532.6 |
| 57.5° | 218.1 | 225.6 | 248.1 | 376.0 | 481.2 |
| 60° | 195.5 | 201.8 | 220.6 | 329.6 | 432.4 |
| 62.5° | 174.2 | 179.2 | 199.3 | 285.7 | 379.7 |
| 65° | 154.1 | 157.9 | 179.2 | 239.4 | 325.8 |
| 67.5° | 134.1 | 137.9 | 159.2 | 195.5 | 268.2 |
| 70° | 116.5 | 117.8 | 137.9 | 159.2 | 215.6 |
| 72.5° | 99.0 | 100.3 | 116.5 | 129.1 | 165.4 |
| 75° | 81.5 | 86.5 | 97.7 | 104.0 | 120.3 |
| 77.5° | 66.4 | 72.7 | 79.0 | 81.5 | 81.5 |
| 80° | 51.4 | 58.9 | 61.4 | 61.4 | 58.9 |
| 82.5° | 37.6 | 43.9 | 45.1 | 42.6 | 40.1 |
| 85° | 23.8 | 30.1 | 30.1 | 27.6 | 25.1 |
| 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 | 14.10 | 15.60 | 14.46 | 15.91 | 16.22 | 18.03 | 19.52 | 18.39 | 19.84 | 20.15 |
| | 3H | 15.67 | 17.01 | 16.05 | 17.34 | 17.70 | 19.45 | 20.79 | 19.83 | 21.12 | 21.48 |
| | 4H | 16.28 | 17.54 | 16.68 | 17.89 | 18.27 | 19.86 | 21.12 | 20.26 | 21.47 | 21.85 |
| | 6H | 16.78 | 17.94 | 17.19 | 18.31 | 18.70 | 20.08 | 21.24 | 20.49 | 21.61 | 22.00 |
| | 8H | 16.95 | 18.06 | 17.38 | 18.45 | 18.85 | 20.14 | 21.24 | 20.56 | 21.63 | 22.04 |
| | 12H | 17.07 | 18.13 | 17.51 | 18.52 | 18.95 | 20.17 | 21.23 | 20.60 | 21.61 | 22.04 |
| 4H | 2H | 14.84 | 16.09 | 15.24 | 16.44 | 16.82 | 18.15 | 19.41 | 18.55 | 19.76 | 20.14 |
| | 3H | 16.61 | 17.66 | 17.03 | 18.06 | 18.46 | 19.76 | 20.81 | 20.17 | 21.21 | 21.61 |
| | 4H | 17.35 | 18.29 | 17.78 | 18.71 | 19.15 | 20.29 | 21.23 | 20.72 | 21.65 | 22.08 |
| | 6H | 17.99 | 18.80 | 18.44 | 19.25 | 19.71 | 20.63 | 21.45 | 21.09 | 21.89 | 22.35 |
| | 8H | 18.21 | 18.98 | 18.68 | 19.42 | 19.89 | 20.73 | 21.50 | 21.19 | 21.94 | 22.41 |
| | 12H | 18.39 | 19.07 | 18.87 | 19.55 | 20.02 | 20.80 | 21.49 | 21.29 | 21.97 | 22.44 |
| 8H | 4H | 17.75 | 18.52 | 18.21 | 18.96 | 19.43 | 20.40 | 21.16 | 20.86 | 21.60 | 22.07 |
| | 6H | 18.54 | 19.17 | 19.03 | 19.66 | 20.14 | 20.83 | 21.47 | 21.33 | 21.96 | 22.44 |
| | 8H | 18.86 | 19.43 | 19.38 | 19.94 | 20.43 | 20.99 | 21.56 | 21.51 | 22.07 | 22.56 |
| | 12H | 19.14 | 19.64 | 19.65 | 20.13 | 20.69 | 21.13 | 21.63 | 21.64 | 22.12 | 22.69 |
| 12H | 4H | 17.79 | 18.48 | 18.28 | 18.96 | 19.43 | 20.40 | 21.08 | 20.88 | 21.56 | 22.03 |
| | 6H | 18.62 | 19.19 | 19.13 | 19.70 | 20.19 | 20.85 | 21.42 | 21.36 | 21.93 | 22.42 |
| | 8H | 19.02 | 19.52 | 19.53 | 20.01 | 20.57 | 21.06 | 21.56 | 21.57 | 22.05 | 22.62 |