

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061976

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

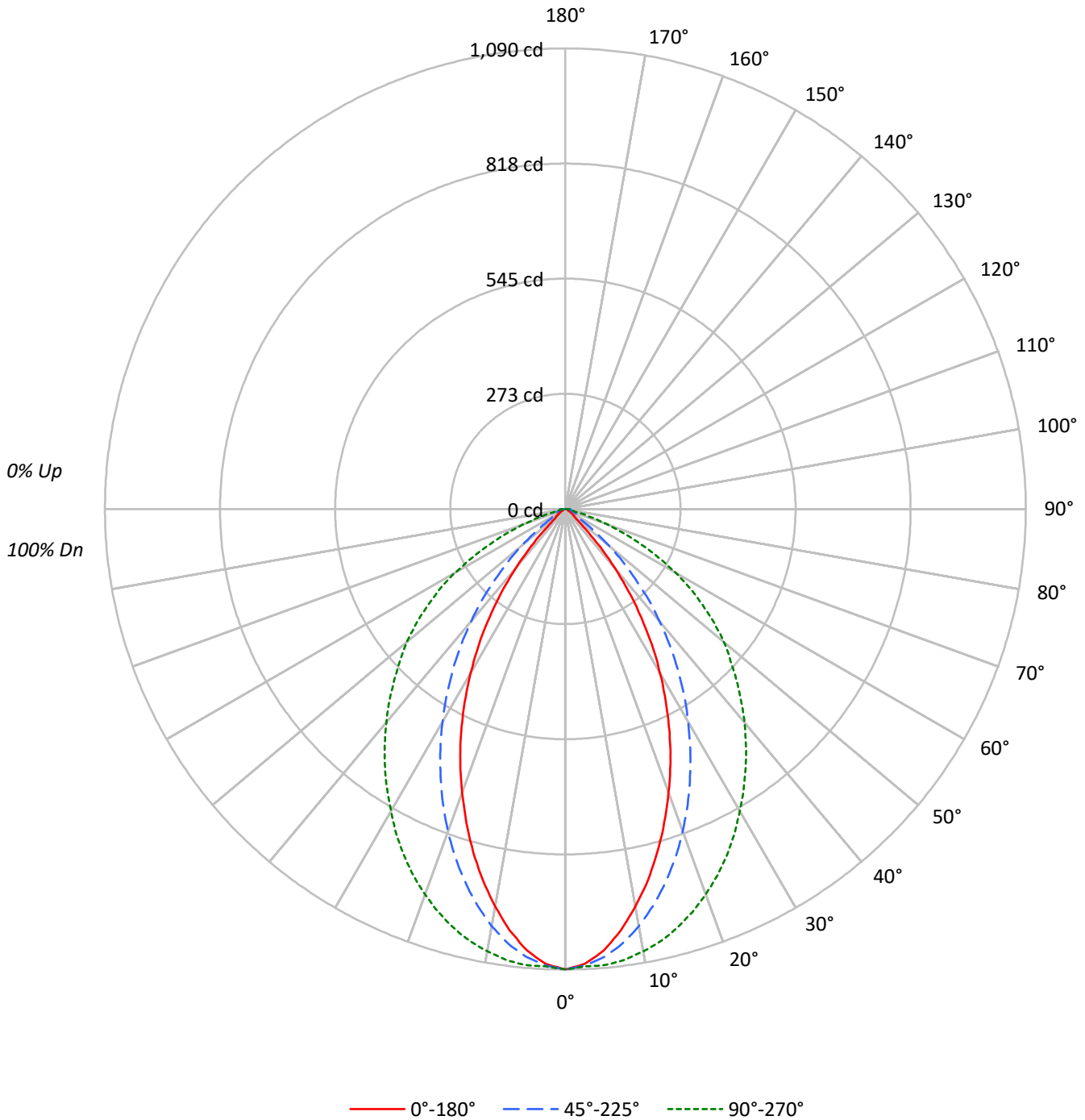
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1409.8 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
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 (Ain): 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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | 90 | |
| 2 | 104 | 98 | 93 | 89 | 102 | 97 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 85 | 82 | 80 | | | 80 | |
| 3 | 98 | 89 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | 72 | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 | | | 65 | |
| 5 | 85 | 75 | 68 | 63 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 60 | 59 | | | 59 | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 53 | | | 53 | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 | | | 49 | |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 45 | | | 45 | |
| 9 | 67 | 55 | 48 | 44 | 65 | 55 | 48 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | 41 | |
| 10 | 63 | 52 | 45 | 40 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 49 | 44 | 40 | 38 | | | 38 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7502 | 7502 | 7502 |
| 5° | 7247 | 7355 | 7489 |
| 10° | 6678 | 7009 | 7432 |
| 15° | 5998 | 6524 | 7310 |
| 20° | 5234 | 5953 | 7115 |
| 25° | 4434 | 5307 | 6871 |
| 30° | 3562 | 4620 | 6565 |
| 35° | 2636 | 3898 | 6259 |
| 40° | 1632 | 3113 | 5930 |
| 45° | 637 | 2276 | 5576 |
| 50° | 298 | 1427 | 5252 |
| 55° | 218 | 610 | 4767 |
| 60° | 150 | 434 | 4135 |
| 65° | 99 | 453 | 3214 |
| 70° | 97 | 415 | 2023 |
| 75° | 128 | 418 | 644 |
| 80° | 190 | 480 | 432 |
| 85° | 284 | 956 | 671 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5576 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.9 | 7.1 |
| 10°-20° | 258.9 | 18.4 |
| 20°-30° | 329.8 | 23.4 |
| 30°-40° | 306.9 | 21.8 |
| 40°-50° | 211.3 | 15.0 |
| 50°-60° | 119.6 | 8.5 |
| 60°-70° | 56.5 | 4.0 |
| 70°-80° | 17.6 | 1.3 |
| 80°-90° | 9.2 | 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° | 688.6 | 48.8 |
| 0°-40° | 995.5 | 70.6 |
| 0°-60° | 1326.4 | 94.1 |
| 0°-90° | 1409.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1409.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1090 | 1090 | 1090 | 1090 | 1090 | |
| 5° | 1048 | 1063 | 1064 | 1074 | 1084 | 97 |
| 15° | 841 | 869 | 915 | 984 | 1026 | 234 |
| 25° | 584 | 621 | 699 | 816 | 904 | 266 |
| 35° | 314 | 357 | 464 | 622 | 745 | 194 |
| 45° | 65 | 104 | 234 | 422 | 573 | 61 |
| 55° | 18 | 21 | 51 | 243 | 397 | 17 |
| 65° | 6 | 7 | 28 | 87 | 197 | 7 |
| 75° | 5 | 11 | 16 | 17 | 24 | 5 |
| 85° | 4 | 10 | 12 | 11 | 8 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061976

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1089.6 | 1089.6 | 1089.6 | 1089.6 | 1089.6 |
| 2.5° | 1077.5 | 1088.4 | 1081.2 | 1082.4 | 1083.6 |
| 5° | 1048.5 | 1063.0 | 1064.2 | 1073.9 | 1083.6 |
| 7.5° | 1006.1 | 1024.3 | 1037.6 | 1060.6 | 1076.3 |
| 10° | 955.2 | 977.0 | 1002.5 | 1040.0 | 1063.0 |
| 12.5° | 900.8 | 926.2 | 961.3 | 1014.6 | 1047.3 |
| 15° | 841.4 | 869.3 | 915.3 | 984.3 | 1025.5 |
| 17.5° | 778.5 | 810.0 | 865.7 | 948.0 | 1000.0 |
| 20° | 714.3 | 748.2 | 812.4 | 906.8 | 971.0 |
| 22.5° | 650.1 | 685.3 | 756.7 | 862.0 | 939.5 |
| 25° | 583.6 | 621.1 | 698.6 | 816.0 | 904.4 |
| 27.5° | 515.8 | 554.5 | 640.5 | 768.8 | 866.9 |
| 30° | 448.0 | 489.1 | 581.1 | 720.4 | 825.7 |
| 32.5° | 381.4 | 422.5 | 523.0 | 671.9 | 785.7 |
| 35° | 313.6 | 357.2 | 463.7 | 622.3 | 744.6 |
| 37.5° | 245.8 | 293.0 | 405.6 | 571.5 | 702.2 |
| 40° | 181.6 | 226.4 | 346.3 | 521.8 | 659.8 |
| 42.5° | 121.1 | 164.7 | 293.0 | 472.2 | 616.2 |
| 45° | 65.4 | 104.1 | 233.7 | 422.5 | 572.7 |
| 47.5° | 35.1 | 55.7 | 182.8 | 374.1 | 530.3 |
| 50° | 27.8 | 31.5 | 133.2 | 329.3 | 490.3 |
| 52.5° | 23.0 | 25.4 | 87.2 | 286.9 | 444.3 |
| 55° | 18.2 | 20.6 | 50.8 | 243.4 | 397.1 |
| 57.5° | 14.5 | 16.9 | 32.7 | 202.2 | 351.1 |
| 60° | 10.9 | 13.3 | 31.5 | 162.2 | 300.3 |
| 62.5° | 8.5 | 9.7 | 29.1 | 124.7 | 247.0 |
| 65° | 6.1 | 7.3 | 27.8 | 87.2 | 197.3 |
| 67.5° | 4.8 | 6.1 | 25.4 | 55.7 | 147.7 |
| 70° | 4.8 | 4.8 | 20.6 | 36.3 | 100.5 |
| 72.5° | 4.8 | 8.5 | 18.2 | 24.2 | 60.5 |
| 75° | 4.8 | 10.9 | 15.7 | 16.9 | 24.2 |
| 77.5° | 4.8 | 12.1 | 13.3 | 13.3 | 13.3 |
| 80° | 4.8 | 10.9 | 12.1 | 12.1 | 10.9 |
| 82.5° | 4.8 | 9.7 | 10.9 | 12.1 | 9.7 |
| 85° | 3.6 | 9.7 | 12.1 | 10.9 | 8.5 |
| 87.5° | 3.6 | 9.7 | 10.9 | 9.7 | 6.1 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.25 | 17.54 | 16.61 | 17.85 | 18.17 |
| | 3H | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 16.97 | 18.11 | 17.35 | 18.44 | 18.80 |
| | 4H | 0.00 | 0.36 | 0.00 | 0.71 | 1.10 | 16.99 | 18.05 | 17.39 | 18.40 | 18.79 |
| | 6H | 0.56 | 1.53 | 0.97 | 1.90 | 2.30 | 16.94 | 17.92 | 17.36 | 18.29 | 18.68 |
| | 8H | 1.20 | 2.12 | 1.63 | 2.51 | 2.92 | 16.92 | 17.84 | 17.35 | 18.23 | 18.64 |
| | 12H | 1.78 | 2.67 | 2.22 | 3.05 | 3.48 | 16.90 | 17.78 | 17.33 | 18.17 | 18.60 |
| 4H | 2H | 0.74 | 1.81 | 1.15 | 2.16 | 2.54 | 16.04 | 17.10 | 16.44 | 17.45 | 17.84 |
| | 3H | 1.56 | 2.42 | 1.97 | 2.83 | 3.23 | 16.79 | 17.66 | 17.21 | 18.07 | 18.47 |
| | 4H | 2.57 | 3.34 | 3.00 | 3.76 | 4.20 | 16.82 | 17.60 | 17.26 | 18.02 | 18.46 |
| | 6H | 3.84 | 4.51 | 4.31 | 4.96 | 5.42 | 16.80 | 17.47 | 17.26 | 17.92 | 18.38 |
| | 8H | 4.42 | 5.05 | 4.89 | 5.49 | 5.96 | 16.79 | 17.41 | 17.26 | 17.86 | 18.33 |
| | 12H | 4.98 | 5.53 | 5.47 | 6.02 | 6.49 | 16.79 | 17.34 | 17.28 | 17.83 | 18.30 |
| 8H | 4H | 3.98 | 4.61 | 4.45 | 5.05 | 5.53 | 16.71 | 17.33 | 17.18 | 17.78 | 18.25 |
| | 6H | 5.54 | 6.05 | 6.05 | 6.55 | 7.03 | 16.70 | 17.20 | 17.20 | 17.70 | 18.18 |
| | 8H | 6.34 | 6.80 | 6.86 | 7.31 | 7.80 | 16.71 | 17.16 | 17.23 | 17.68 | 18.17 |
| | 12H | 7.18 | 7.58 | 7.69 | 8.08 | 8.65 | 16.77 | 17.17 | 17.28 | 17.67 | 18.24 |
| 12H | 4H | 4.20 | 4.75 | 4.69 | 5.24 | 5.71 | 16.66 | 17.21 | 17.15 | 17.70 | 18.17 |
| | 6H | 5.92 | 6.37 | 6.44 | 6.89 | 7.38 | 16.65 | 17.11 | 17.17 | 17.62 | 18.11 |
| | 8H | 6.91 | 7.31 | 7.42 | 7.81 | 8.38 | 16.70 | 17.10 | 17.21 | 17.60 | 18.17 |