

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: P1061563

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

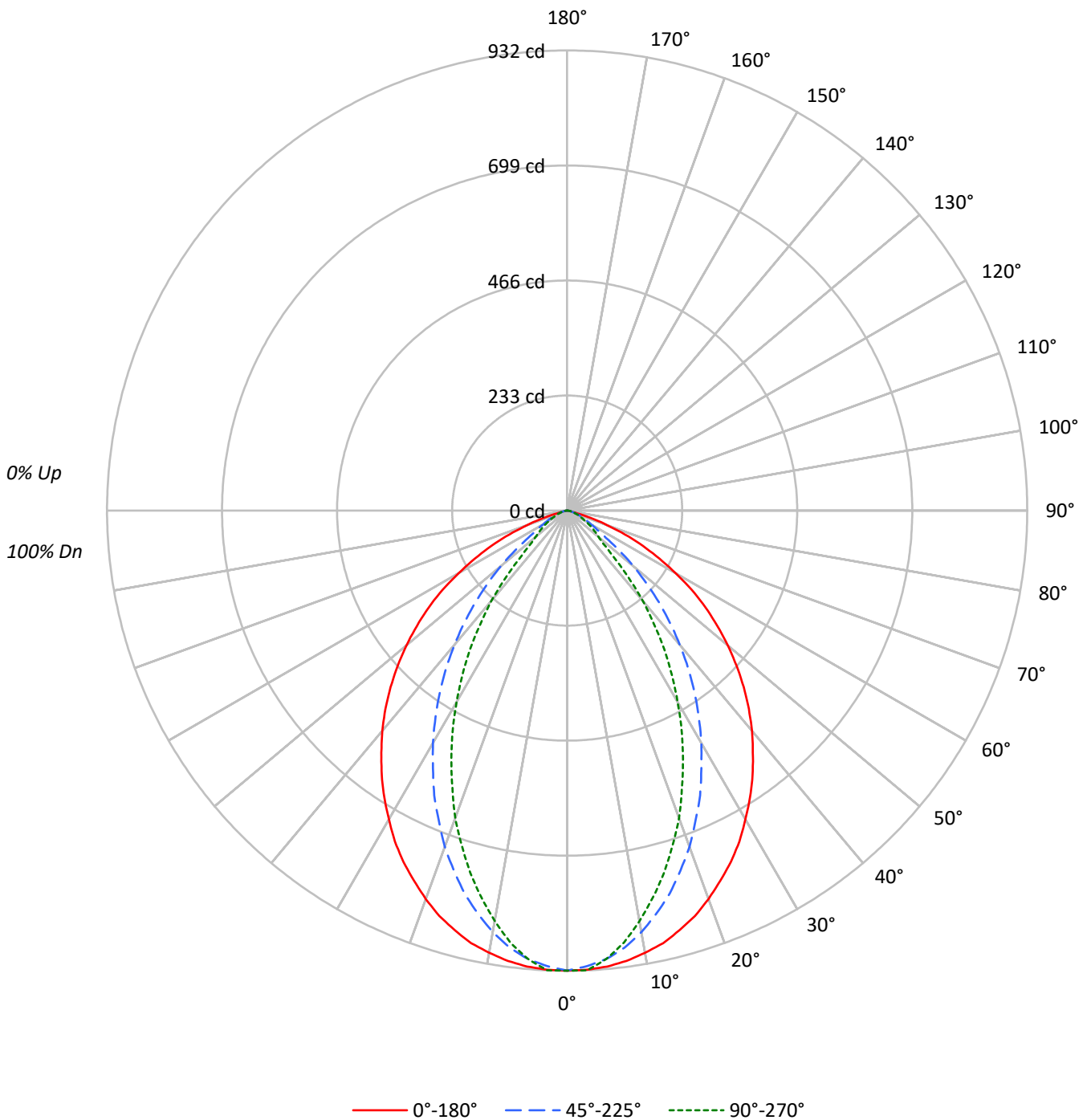
Lumens per Lamp: N/A
Luminaire Lumens: 1347.6 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | 90 | 86 | 83 | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 82 | 77 | 95 | 87 | 81 | 77 | 84 | 79 | 75 | 82 | 78 | 74 | 79 | 76 | 73 | 71 |
| 4 | 90 | 81 | 74 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 63 | 59 | 57 |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 52 |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 62 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6416 | 6416 | 6416 |
| 5° | 6408 | 6301 | 6301 |
| 10° | 6357 | 6059 | 5902 |
| 15° | 6271 | 5722 | 5410 |
| 20° | 6134 | 5309 | 4858 |
| 25° | 5964 | 4839 | 4219 |
| 30° | 5742 | 4320 | 3558 |
| 35° | 5503 | 3782 | 2886 |
| 40° | 5236 | 3193 | 2139 |
| 45° | 4923 | 2559 | 1291 |
| 50° | 4552 | 1877 | 888 |
| 55° | 4108 | 1151 | 739 |
| 60° | 3489 | 782 | 587 |
| 65° | 2758 | 598 | 463 |
| 70° | 1739 | 429 | 380 |
| 75° | 567 | 314 | 314 |
| 80° | 186 | 234 | 282 |
| 85° | 95 | 190 | 190 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4923 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.2 | 6.4 |
| 10°-20° | 227.6 | 16.9 |
| 20°-30° | 299.4 | 22.2 |
| 30°-40° | 294.2 | 21.8 |
| 40°-50° | 222.5 | 16.5 |
| 50°-60° | 134.9 | 10.0 |
| 60°-70° | 63.7 | 4.7 |
| 70°-80° | 16.6 | 1.2 |
| 80°-90° | 2.5 | 0.2 |
| 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° | 613.1 | 45.5 |
| 0°-40° | 907.3 | 67.3 |
| 0°-60° | 1264.7 | 93.9 |
| 0°-90° | 1347.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1347.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 932 | 932 | 932 | 932 | 932 | |
| 5° | 927 | 925 | 912 | 913 | 912 | 88 |
| 15° | 880 | 856 | 803 | 772 | 759 | 248 |
| 25° | 785 | 726 | 637 | 578 | 555 | 361 |
| 35° | 655 | 567 | 450 | 371 | 343 | 409 |
| 45° | 506 | 398 | 263 | 167 | 133 | 389 |
| 55° | 342 | 234 | 96 | 65 | 62 | 305 |
| 65° | 169 | 86 | 37 | 31 | 28 | 167 |
| 75° | 21 | 14 | 12 | 12 | 12 | 33 |
| 85° | 1 | 1 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061563

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 |
| 2.5° | 930.6 | 930.6 | 923.5 | 931.8 | 931.8 |
| 5° | 927.1 | 924.7 | 911.7 | 912.9 | 911.7 |
| 7.5° | 920.0 | 915.2 | 892.7 | 886.8 | 882.1 |
| 10° | 909.3 | 899.8 | 866.7 | 852.5 | 844.2 |
| 12.5° | 897.5 | 880.9 | 835.9 | 815.8 | 802.7 |
| 15° | 879.7 | 856.0 | 802.7 | 772.0 | 758.9 |
| 17.5° | 860.8 | 826.4 | 763.7 | 727.0 | 710.4 |
| 20° | 837.1 | 796.8 | 724.6 | 679.6 | 663.0 |
| 22.5° | 811.0 | 763.7 | 679.6 | 629.9 | 607.4 |
| 25° | 785.0 | 725.8 | 637.0 | 577.8 | 555.3 |
| 27.5° | 755.4 | 687.9 | 588.4 | 526.9 | 502.0 |
| 30° | 722.2 | 650.0 | 543.4 | 479.5 | 447.5 |
| 32.5° | 689.1 | 610.9 | 496.1 | 426.2 | 394.3 |
| 35° | 654.7 | 567.1 | 449.9 | 370.6 | 343.4 |
| 37.5° | 618.0 | 525.7 | 402.6 | 319.7 | 287.7 |
| 40° | 582.5 | 484.2 | 355.2 | 267.6 | 238.0 |
| 42.5° | 544.6 | 442.8 | 307.8 | 216.7 | 183.5 |
| 45° | 505.6 | 397.8 | 262.8 | 166.9 | 132.6 |
| 47.5° | 465.3 | 357.6 | 217.9 | 123.1 | 99.5 |
| 50° | 425.0 | 314.9 | 175.2 | 91.2 | 82.9 |
| 52.5° | 383.6 | 273.5 | 132.6 | 75.8 | 72.2 |
| 55° | 342.2 | 234.4 | 95.9 | 65.1 | 61.6 |
| 57.5° | 299.5 | 191.8 | 72.2 | 55.6 | 52.1 |
| 60° | 253.4 | 153.9 | 56.8 | 46.2 | 42.6 |
| 62.5° | 210.7 | 120.8 | 46.2 | 37.9 | 35.5 |
| 65° | 169.3 | 86.4 | 36.7 | 30.8 | 28.4 |
| 67.5° | 126.7 | 58.0 | 28.4 | 23.7 | 23.7 |
| 70° | 86.4 | 37.9 | 21.3 | 18.9 | 18.9 |
| 72.5° | 52.1 | 22.5 | 15.4 | 15.4 | 15.4 |
| 75° | 21.3 | 14.2 | 11.8 | 11.8 | 11.8 |
| 77.5° | 7.1 | 8.3 | 8.3 | 9.5 | 9.5 |
| 80° | 4.7 | 4.7 | 5.9 | 7.1 | 7.1 |
| 82.5° | 2.4 | 3.6 | 3.6 | 4.7 | 4.7 |
| 85° | 1.2 | 1.2 | 2.4 | 2.4 | 2.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 |
| 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 | 15.79 | 17.12 | 16.15 | 17.43 | 17.75 | 6.44 | 7.77 | 6.80 | 8.08 | 8.40 |
| | 3H | 16.49 | 17.67 | 16.87 | 18.00 | 18.36 | 7.22 | 8.40 | 7.60 | 8.73 | 9.09 |
| | 4H | 16.51 | 17.60 | 16.91 | 17.96 | 18.34 | 7.47 | 8.56 | 7.87 | 8.91 | 9.30 |
| | 6H | 16.44 | 17.45 | 16.85 | 17.82 | 18.21 | 7.65 | 8.65 | 8.06 | 9.02 | 9.42 |
| | 8H | 16.40 | 17.35 | 16.83 | 17.74 | 18.15 | 7.69 | 8.64 | 8.12 | 9.03 | 9.44 |
| | 12H | 16.36 | 17.27 | 16.79 | 17.65 | 18.08 | 7.70 | 8.61 | 8.13 | 8.99 | 9.42 |
| 4H | 2H | 15.62 | 16.71 | 16.02 | 17.06 | 17.45 | 6.93 | 8.02 | 7.33 | 8.37 | 8.76 |
| | 3H | 16.36 | 17.26 | 16.78 | 17.66 | 18.06 | 7.83 | 8.73 | 8.25 | 9.13 | 9.53 |
| | 4H | 16.38 | 17.18 | 16.82 | 17.60 | 18.04 | 8.15 | 8.94 | 8.58 | 9.36 | 9.80 |
| | 6H | 16.32 | 17.00 | 16.78 | 17.45 | 17.92 | 8.41 | 9.09 | 8.87 | 9.54 | 10.00 |
| | 8H | 16.27 | 16.91 | 16.74 | 17.35 | 17.83 | 8.47 | 9.11 | 8.94 | 9.56 | 10.03 |
| | 12H | 16.23 | 16.79 | 16.71 | 17.27 | 17.75 | 8.50 | 9.06 | 8.98 | 9.54 | 10.02 |
| 8H | 4H | 16.26 | 16.90 | 16.73 | 17.35 | 17.82 | 8.26 | 8.90 | 8.73 | 9.34 | 9.81 |
| | 6H | 16.19 | 16.71 | 16.69 | 17.21 | 17.69 | 8.58 | 9.10 | 9.08 | 9.59 | 10.08 |
| | 8H | 16.14 | 16.60 | 16.66 | 17.12 | 17.61 | 8.68 | 9.15 | 9.20 | 9.66 | 10.16 |
| | 12H | 16.09 | 16.51 | 16.61 | 17.00 | 17.57 | 8.74 | 9.16 | 9.26 | 9.65 | 10.22 |
| 12H | 4H | 16.22 | 16.78 | 16.71 | 17.27 | 17.74 | 8.23 | 8.79 | 8.72 | 9.28 | 9.75 |
| | 6H | 16.13 | 16.60 | 16.65 | 17.11 | 17.61 | 8.55 | 9.02 | 9.07 | 9.53 | 10.02 |
| | 8H | 16.10 | 16.51 | 16.61 | 17.00 | 17.57 | 8.69 | 9.10 | 9.20 | 9.59 | 10.17 |