

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: P1061962

Luminaire Tested: S125RDRP-H1270D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

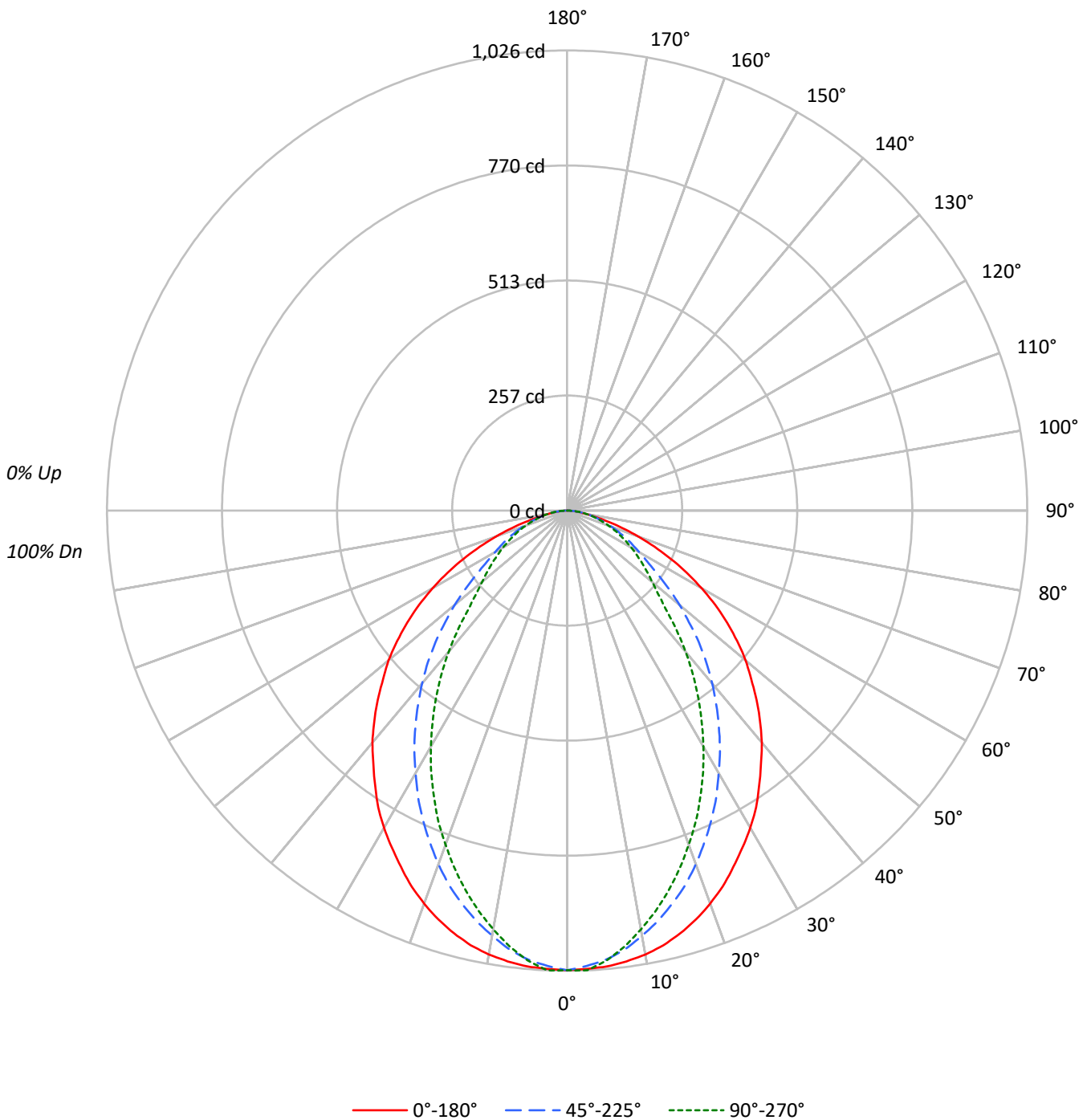
Lumens per Lamp: N/A
Luminaire Lumens: 1941.5 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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 | 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 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 80 | 77 | 75 |
| 3 | 93 | 84 | 77 | 71 | 91 | 82 | 76 | 70 | 80 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 67 | 65 |
| 4 | 86 | 76 | 68 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 70 | 64 | 59 | 67 | 63 | 59 | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 54 | 65 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 52 | 50 |
| 6 | 74 | 62 | 54 | 48 | 73 | 61 | 53 | 48 | 59 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 47 | 45 |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 40 |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 36 |
| 9 | 61 | 48 | 41 | 35 | 60 | 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° | 7057 | 7057 | 7057 |
| 5° | 7053 | 6945 | 6961 |
| 10° | 7026 | 6730 | 6629 |
| 15° | 6956 | 6464 | 6243 |
| 20° | 6833 | 6147 | 5805 |
| 25° | 6662 | 5783 | 5343 |
| 30° | 6494 | 5370 | 4831 |
| 35° | 6276 | 4957 | 4284 |
| 40° | 6071 | 4521 | 3690 |
| 45° | 5819 | 4042 | 3023 |
| 50° | 5567 | 3505 | 2646 |
| 55° | 5223 | 2925 | 2444 |
| 60° | 4766 | 2559 | 2283 |
| 65° | 4169 | 2340 | 2121 |
| 70° | 3382 | 2106 | 1971 |
| 75° | 2426 | 1923 | 1836 |
| 80° | 1677 | 1721 | 1721 |
| 85° | 1232 | 1493 | 1580 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5819 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.3 | 4.9 |
| 10°-20° | 257.7 | 13.3 |
| 20°-30° | 356.2 | 18.3 |
| 30°-40° | 379.5 | 19.5 |
| 40°-50° | 333.3 | 17.2 |
| 50°-60° | 252.8 | 13.0 |
| 60°-70° | 164.1 | 8.5 |
| 70°-80° | 81.3 | 4.2 |
| 80°-90° | 21.3 | 1.1 |
| 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° | 709.3 | 36.5 |
| 0°-40° | 1088.7 | 56.1 |
| 0°-60° | 1674.8 | 86.3 |
| 0°-90° | 1941.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1941.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1025 | 1025 | 1025 | 1025 | 1025 | |
| 5° | 1020 | 1018 | 1005 | 1008 | 1007 | 97 |
| 15° | 976 | 954 | 907 | 886 | 876 | 275 |
| 25° | 877 | 829 | 761 | 722 | 703 | 404 |
| 35° | 747 | 678 | 590 | 536 | 510 | 467 |
| 45° | 598 | 514 | 415 | 340 | 310 | 461 |
| 55° | 435 | 349 | 244 | 210 | 204 | 388 |
| 65° | 256 | 190 | 144 | 132 | 130 | 253 |
| 75° | 91 | 80 | 72 | 70 | 69 | 102 |
| 85° | 16 | 18 | 19 | 19 | 20 | 19 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061962

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1024.9 | 1024.9 | 1024.9 | 1024.9 | 1024.9 |
| 2.5° | 1022.7 | 1024.9 | 1016.0 | 1023.8 | 1026.0 |
| 5° | 1020.4 | 1018.2 | 1004.9 | 1008.2 | 1007.1 |
| 7.5° | 1013.8 | 1009.3 | 987.0 | 984.8 | 980.4 |
| 10° | 1004.9 | 993.7 | 962.6 | 954.8 | 948.1 |
| 12.5° | 992.6 | 974.8 | 937.0 | 921.4 | 913.6 |
| 15° | 975.9 | 953.7 | 906.9 | 885.8 | 875.8 |
| 17.5° | 955.9 | 924.7 | 875.8 | 846.8 | 835.7 |
| 20° | 932.5 | 895.8 | 839.0 | 805.7 | 792.3 |
| 22.5° | 906.9 | 863.5 | 800.1 | 764.5 | 750.0 |
| 25° | 876.9 | 829.0 | 761.2 | 722.2 | 703.3 |
| 27.5° | 846.8 | 793.4 | 720.0 | 676.6 | 656.5 |
| 30° | 816.8 | 755.6 | 675.5 | 628.7 | 607.6 |
| 32.5° | 784.5 | 716.6 | 634.3 | 583.1 | 558.6 |
| 35° | 746.7 | 677.7 | 589.8 | 536.4 | 509.7 |
| 37.5° | 710.0 | 636.5 | 546.4 | 486.3 | 460.7 |
| 40° | 675.5 | 597.6 | 503.0 | 437.3 | 410.6 |
| 42.5° | 636.5 | 556.4 | 459.6 | 390.6 | 360.5 |
| 45° | 597.6 | 514.1 | 415.1 | 340.5 | 310.5 |
| 47.5° | 556.4 | 474.1 | 368.3 | 294.9 | 274.9 |
| 50° | 519.7 | 432.9 | 327.2 | 260.4 | 247.0 |
| 52.5° | 477.4 | 392.8 | 284.9 | 233.7 | 224.8 |
| 55° | 435.1 | 349.4 | 243.7 | 210.3 | 203.6 |
| 57.5° | 391.7 | 310.5 | 211.4 | 190.3 | 183.6 |
| 60° | 346.1 | 270.4 | 185.8 | 169.1 | 165.8 |
| 62.5° | 300.5 | 229.2 | 163.6 | 151.3 | 146.9 |
| 65° | 255.9 | 190.3 | 143.6 | 132.4 | 130.2 |
| 67.5° | 210.3 | 154.7 | 123.5 | 115.7 | 114.6 |
| 70° | 168.0 | 125.7 | 104.6 | 100.2 | 97.9 |
| 72.5° | 129.1 | 100.2 | 87.9 | 84.6 | 83.5 |
| 75° | 91.2 | 80.1 | 72.3 | 70.1 | 69.0 |
| 77.5° | 61.2 | 61.2 | 57.9 | 55.6 | 56.8 |
| 80° | 42.3 | 44.5 | 43.4 | 43.4 | 43.4 |
| 82.5° | 27.8 | 30.0 | 31.2 | 31.2 | 31.2 |
| 85° | 15.6 | 17.8 | 18.9 | 18.9 | 20.0 |
| 87.5° | 5.6 | 6.7 | 7.8 | 8.9 | 8.9 |
| 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 | 17.34 | 18.83 | 17.71 | 19.15 | 19.46 | 13.58 | 15.08 | 13.95 | 15.39 | 15.70 |
| | 3H | 18.65 | 19.99 | 19.03 | 20.32 | 20.68 | 15.17 | 16.50 | 15.54 | 16.83 | 17.19 |
| | 4H | 19.02 | 20.28 | 19.42 | 20.62 | 21.00 | 15.77 | 17.02 | 16.17 | 17.37 | 17.75 |
| | 6H | 19.20 | 20.35 | 19.61 | 20.72 | 21.11 | 16.24 | 17.40 | 16.65 | 17.76 | 18.16 |
| | 8H | 19.24 | 20.34 | 19.66 | 20.73 | 21.13 | 16.40 | 17.50 | 16.83 | 17.89 | 18.29 |
| | 12H | 19.25 | 20.30 | 19.68 | 20.68 | 21.11 | 16.51 | 17.57 | 16.94 | 17.95 | 18.38 |
| 4H | 2H | 17.45 | 18.71 | 17.85 | 19.06 | 19.44 | 14.25 | 15.50 | 14.65 | 15.85 | 16.23 |
| | 3H | 18.94 | 19.98 | 19.35 | 20.38 | 20.78 | 16.03 | 17.06 | 16.44 | 17.47 | 17.87 |
| | 4H | 19.42 | 20.35 | 19.85 | 20.77 | 21.21 | 16.74 | 17.68 | 17.18 | 18.09 | 18.53 |
| | 6H | 19.70 | 20.51 | 20.16 | 20.96 | 21.42 | 17.33 | 18.14 | 17.79 | 18.59 | 19.05 |
| | 8H | 19.77 | 20.53 | 20.24 | 20.97 | 21.44 | 17.54 | 18.30 | 18.00 | 18.74 | 19.21 |
| | 12H | 19.81 | 20.49 | 20.29 | 20.97 | 21.44 | 17.69 | 18.37 | 18.18 | 18.85 | 19.32 |
| 8H | 4H | 19.50 | 20.26 | 19.96 | 20.70 | 21.17 | 17.06 | 17.81 | 17.52 | 18.26 | 18.73 |
| | 6H | 19.86 | 20.49 | 20.36 | 20.98 | 21.46 | 17.76 | 18.39 | 18.26 | 18.88 | 19.36 |
| | 8H | 19.98 | 20.54 | 20.49 | 21.05 | 21.54 | 18.04 | 18.60 | 18.56 | 19.11 | 19.60 |
| | 12H | 20.07 | 20.56 | 20.58 | 21.05 | 21.62 | 18.27 | 18.77 | 18.78 | 19.26 | 19.83 |
| 12H | 4H | 19.49 | 20.17 | 19.98 | 20.65 | 21.12 | 17.08 | 17.76 | 17.56 | 18.24 | 18.71 |
| | 6H | 19.87 | 20.43 | 20.38 | 20.94 | 21.43 | 17.81 | 18.37 | 18.33 | 18.89 | 19.37 |
| | 8H | 20.03 | 20.52 | 20.54 | 21.01 | 21.58 | 18.15 | 18.65 | 18.66 | 19.14 | 19.70 |