

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: P1061484

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

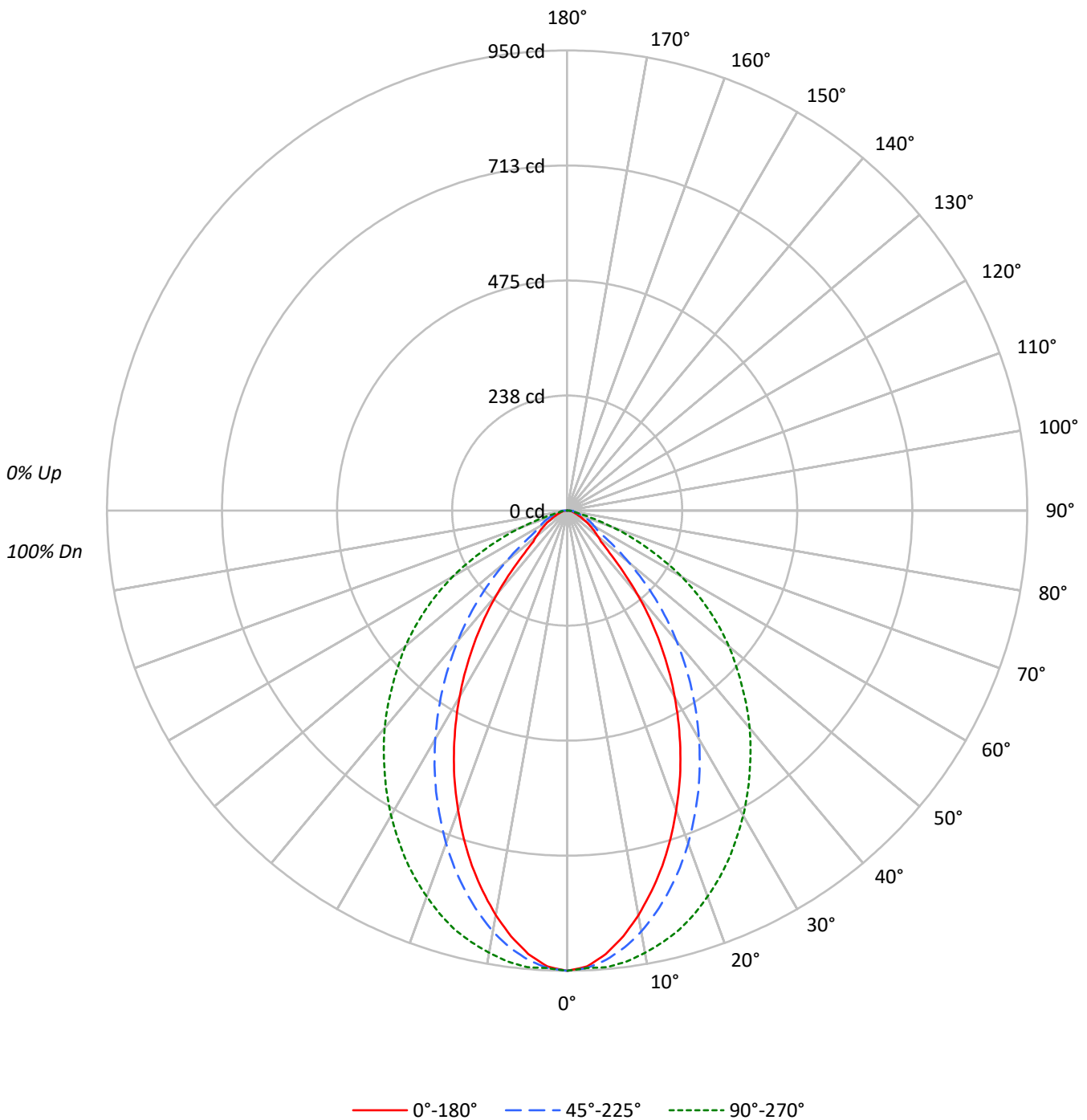
Lumens per Lamp: N/A
Luminaire Lumens: 1376.2 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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 | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 66 | 62 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 67 | 59 | 54 | 77 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | 51 | | | |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | 46 | | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 42 | | | | | 42 | | | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | 39 | | | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 | | | | | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6542 | 6542 | 6542 |
| 5° | 6350 | 6434 | 6539 |
| 10° | 5929 | 6170 | 6480 |
| 15° | 5412 | 5794 | 6384 |
| 20° | 4823 | 5356 | 6214 |
| 25° | 4203 | 4864 | 6014 |
| 30° | 3532 | 4327 | 5780 |
| 35° | 2809 | 3760 | 5525 |
| 40° | 2024 | 3158 | 5272 |
| 45° | 1200 | 2507 | 4965 |
| 50° | 887 | 1785 | 4672 |
| 55° | 751 | 1103 | 4278 |
| 60° | 611 | 890 | 3768 |
| 65° | 477 | 823 | 2978 |
| 70° | 407 | 711 | 1993 |
| 75° | 375 | 617 | 806 |
| 80° | 400 | 642 | 559 |
| 85° | 482 | 956 | 640 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4965 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.6 | 6.4 |
| 10°-20° | 230.0 | 16.7 |
| 20°-30° | 300.6 | 21.8 |
| 30°-40° | 292.8 | 21.3 |
| 40°-50° | 219.6 | 16.0 |
| 50°-60° | 137.7 | 10.0 |
| 60°-70° | 71.7 | 5.2 |
| 70°-80° | 25.9 | 1.9 |
| 80°-90° | 10.3 | 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° | 618.2 | 44.9 |
| 0°-40° | 911.0 | 66.2 |
| 0°-60° | 1268.3 | 92.2 |
| 0°-90° | 1376.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1376.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 950 | 950 | 950 | 950 | 950 | |
| 5° | 919 | 931 | 931 | 938 | 946 | 85 |
| 15° | 759 | 782 | 813 | 863 | 896 | 212 |
| 25° | 553 | 584 | 640 | 727 | 792 | 253 |
| 35° | 334 | 370 | 447 | 566 | 657 | 208 |
| 45° | 123 | 160 | 258 | 398 | 510 | 104 |
| 55° | 63 | 66 | 92 | 240 | 356 | 56 |
| 65° | 29 | 31 | 50 | 97 | 183 | 30 |
| 75° | 14 | 19 | 23 | 24 | 30 | 15 |
| 85° | 6 | 10 | 12 | 11 | 8 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 950.1 | 950.1 | 950.1 | 950.1 | 950.1 |
| 2.5° | 942.1 | 951.1 | 945.1 | 945.1 | 945.1 |
| 5° | 918.8 | 930.9 | 930.9 | 938.0 | 946.1 |
| 7.5° | 886.5 | 900.7 | 909.7 | 926.9 | 939.0 |
| 10° | 848.1 | 865.3 | 882.5 | 910.8 | 926.9 |
| 12.5° | 804.7 | 824.9 | 849.2 | 888.5 | 912.8 |
| 15° | 759.3 | 781.5 | 812.8 | 863.3 | 895.6 |
| 17.5° | 709.8 | 736.1 | 773.4 | 834.0 | 873.4 |
| 20° | 658.3 | 684.6 | 731.0 | 799.7 | 848.1 |
| 22.5° | 606.8 | 635.1 | 685.6 | 763.3 | 820.9 |
| 25° | 553.3 | 583.6 | 640.2 | 727.0 | 791.6 |
| 27.5° | 498.8 | 530.1 | 592.7 | 689.6 | 759.3 |
| 30° | 444.3 | 476.6 | 544.2 | 649.2 | 727.0 |
| 32.5° | 389.7 | 424.1 | 495.8 | 607.8 | 692.7 |
| 35° | 334.2 | 369.6 | 447.3 | 566.4 | 657.3 |
| 37.5° | 280.7 | 316.0 | 398.8 | 524.0 | 622.0 |
| 40° | 225.2 | 263.5 | 351.4 | 481.6 | 586.6 |
| 42.5° | 170.6 | 210.0 | 303.9 | 439.2 | 548.3 |
| 45° | 123.2 | 159.5 | 257.5 | 397.8 | 509.9 |
| 47.5° | 94.9 | 115.1 | 210.0 | 355.4 | 472.5 |
| 50° | 82.8 | 88.9 | 166.6 | 316.0 | 436.2 |
| 52.5° | 71.7 | 75.7 | 125.2 | 279.7 | 396.8 |
| 55° | 62.6 | 65.6 | 91.9 | 240.3 | 356.4 |
| 57.5° | 52.5 | 56.5 | 72.7 | 201.9 | 315.0 |
| 60° | 44.4 | 46.4 | 64.6 | 166.6 | 273.6 |
| 62.5° | 36.3 | 38.4 | 57.6 | 131.3 | 227.2 |
| 65° | 29.3 | 31.3 | 50.5 | 96.9 | 182.8 |
| 67.5° | 24.2 | 25.2 | 42.4 | 68.7 | 140.3 |
| 70° | 20.2 | 21.2 | 35.3 | 47.5 | 99.0 |
| 72.5° | 17.2 | 20.2 | 28.3 | 34.3 | 62.6 |
| 75° | 14.1 | 19.2 | 23.2 | 24.2 | 30.3 |
| 77.5° | 12.1 | 18.2 | 19.2 | 19.2 | 17.2 |
| 80° | 10.1 | 15.1 | 16.2 | 15.1 | 14.1 |
| 82.5° | 8.1 | 12.1 | 13.1 | 13.1 | 11.1 |
| 85° | 6.1 | 10.1 | 12.1 | 11.1 | 8.1 |
| 87.5° | 4.0 | 9.1 | 10.1 | 9.1 | 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 | 6.44 | 7.79 | 6.80 | 8.10 | 8.42 | 16.05 | 17.41 | 16.42 | 17.72 | 18.03 |
| | 3H | 7.30 | 8.50 | 7.68 | 8.83 | 9.19 | 16.90 | 18.10 | 17.28 | 18.43 | 18.79 |
| | 4H | 7.72 | 8.84 | 8.12 | 9.19 | 9.57 | 16.97 | 18.09 | 17.37 | 18.44 | 18.82 |
| | 6H | 8.15 | 9.18 | 8.56 | 9.55 | 9.94 | 16.95 | 17.98 | 17.37 | 18.35 | 18.75 |
| | 8H | 8.33 | 9.30 | 8.76 | 9.69 | 10.10 | 16.94 | 17.92 | 17.37 | 18.31 | 18.71 |
| | 12H | 8.49 | 9.42 | 8.92 | 9.81 | 10.24 | 16.93 | 17.86 | 17.36 | 18.24 | 18.67 |
| 4H | 2H | 7.40 | 8.52 | 7.81 | 8.87 | 9.26 | 15.92 | 17.04 | 16.32 | 17.39 | 17.77 |
| | 3H | 8.46 | 9.37 | 8.87 | 9.78 | 10.18 | 16.83 | 17.75 | 17.24 | 18.15 | 18.55 |
| | 4H | 9.02 | 9.84 | 9.45 | 10.26 | 10.70 | 16.93 | 17.75 | 17.37 | 18.17 | 18.61 |
| | 6H | 9.62 | 10.33 | 10.08 | 10.77 | 11.24 | 16.96 | 17.67 | 17.42 | 18.11 | 18.58 |
| | 8H | 9.86 | 10.52 | 10.33 | 10.96 | 11.44 | 16.96 | 17.62 | 17.43 | 18.07 | 18.54 |
| | 12H | 10.08 | 10.67 | 10.57 | 11.15 | 11.63 | 16.97 | 17.56 | 17.46 | 18.04 | 18.51 |
| 8H | 4H | 9.49 | 10.15 | 9.96 | 10.60 | 11.07 | 16.86 | 17.52 | 17.32 | 17.96 | 18.43 |
| | 6H | 10.30 | 10.84 | 10.80 | 11.34 | 11.82 | 16.91 | 17.45 | 17.41 | 17.95 | 18.43 |
| | 8H | 10.68 | 11.17 | 11.20 | 11.68 | 12.18 | 16.94 | 17.43 | 17.46 | 17.94 | 18.43 |
| | 12H | 11.08 | 11.51 | 11.59 | 12.00 | 12.57 | 17.01 | 17.44 | 17.52 | 17.93 | 18.50 |
| 12H | 4H | 9.54 | 10.13 | 10.03 | 10.61 | 11.08 | 16.82 | 17.41 | 17.31 | 17.89 | 18.36 |
| | 6H | 10.43 | 10.91 | 10.95 | 11.43 | 11.92 | 16.88 | 17.36 | 17.40 | 17.88 | 18.37 |
| | 8H | 10.91 | 11.34 | 11.43 | 11.84 | 12.41 | 16.95 | 17.38 | 17.46 | 17.87 | 18.44 |