

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: P1060350

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 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

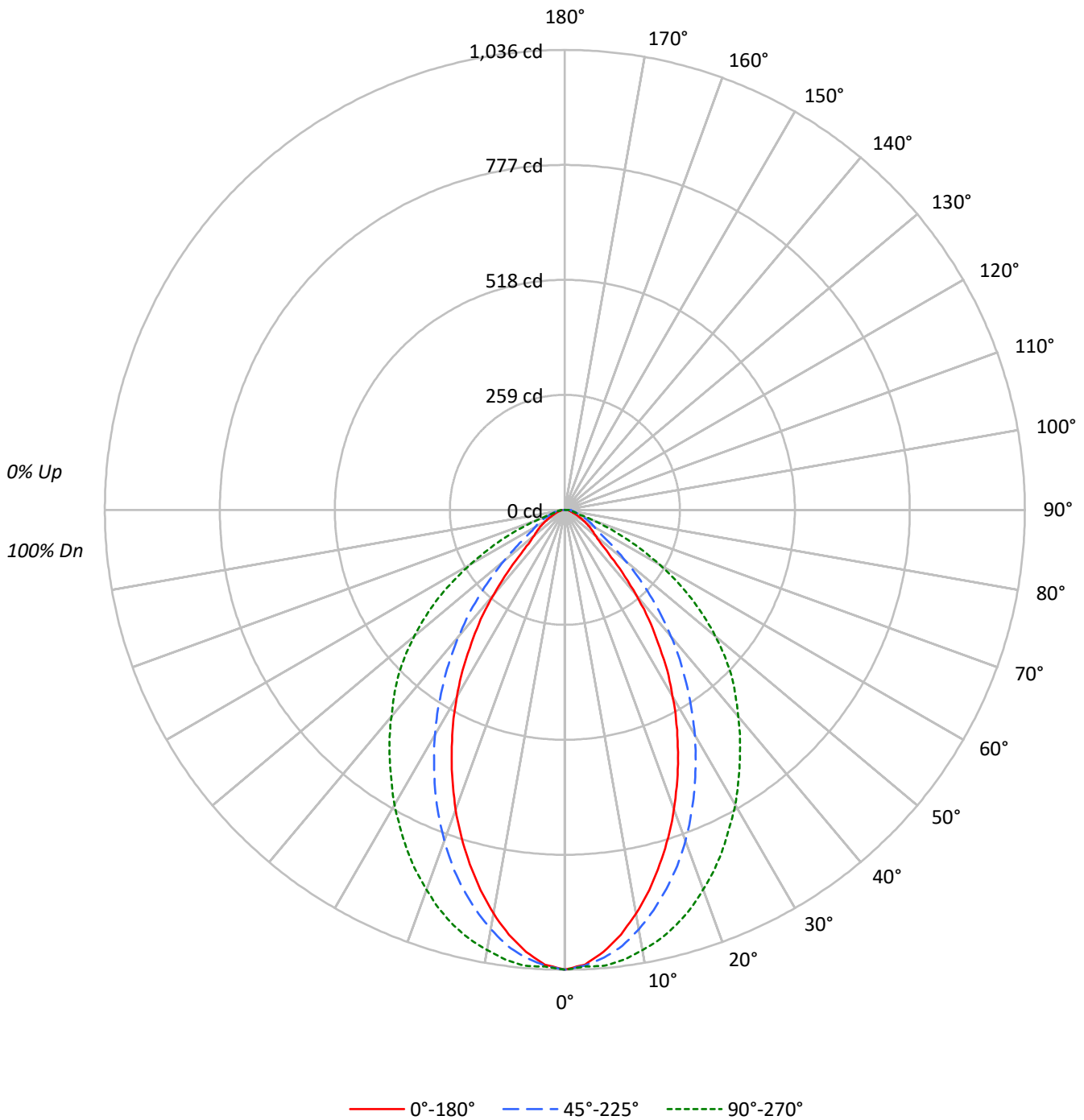
Lumens per Lamp: N/A
Luminaire Lumens: 1465.9 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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 | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | 89 | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | 79 | |
| 3 | 97 | 88 | 82 | 77 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | 70 | |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 77 | 71 | 66 | 75 | 70 | 66 | 73 | 68 | 65 | 63 | | | 63 | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 60 | 69 | 63 | 59 | 67 | 62 | 58 | 57 | | | 57 | |
| 6 | 79 | 67 | 60 | 54 | 77 | 67 | 59 | 54 | 65 | 59 | 54 | 63 | 58 | 53 | 62 | 57 | 53 | 51 | | | 51 | |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 54 | 49 | 59 | 53 | 49 | 57 | 52 | 48 | 47 | | | 47 | |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 53 | 48 | 44 | 43 | | | 43 | |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | 39 | |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | 36 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8919 | 8919 | 8919 |
| 5° | 8643 | 8753 | 8913 |
| 10° | 8075 | 8389 | 8803 |
| 15° | 7366 | 7882 | 8635 |
| 20° | 6586 | 7275 | 8346 |
| 25° | 5728 | 6575 | 8005 |
| 30° | 4832 | 5823 | 7629 |
| 35° | 3844 | 5012 | 7226 |
| 40° | 2797 | 4176 | 6830 |
| 45° | 1692 | 3298 | 6469 |
| 50° | 1210 | 2387 | 5923 |
| 55° | 1025 | 1615 | 5229 |
| 60° | 837 | 1316 | 4225 |
| 65° | 660 | 1180 | 3042 |
| 70° | 554 | 989 | 1601 |
| 75° | 499 | 925 | 808 |
| 80° | 516 | 917 | 803 |
| 85° | 682 | 1373 | 919 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6469 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.3 | 6.5 |
| 10°-20° | 249.9 | 17.0 |
| 20°-30° | 324.1 | 22.1 |
| 30°-40° | 312.0 | 21.3 |
| 40°-50° | 232.1 | 15.8 |
| 50°-60° | 142.7 | 9.7 |
| 60°-70° | 70.1 | 4.8 |
| 70°-80° | 27.3 | 1.9 |
| 80°-90° | 12.5 | 0.9 |
| 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° | 669.3 | 45.7 |
| 0°-40° | 981.3 | 66.9 |
| 0°-60° | 1356.1 | 92.5 |
| 0°-90° | 1465.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1465.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1036 | 1036 | 1036 | 1036 | 1036 | |
| 5° | 1000 | 1015 | 1013 | 1022 | 1031 | 93 |
| 15° | 826 | 853 | 884 | 937 | 969 | 231 |
| 25° | 603 | 635 | 692 | 779 | 842 | 276 |
| 35° | 366 | 400 | 477 | 596 | 687 | 229 |
| 45° | 139 | 172 | 271 | 418 | 531 | 115 |
| 55° | 68 | 71 | 108 | 245 | 348 | 61 |
| 65° | 32 | 35 | 58 | 93 | 149 | 33 |
| 75° | 15 | 27 | 28 | 26 | 24 | 16 |
| 85° | 7 | 13 | 14 | 14 | 9 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1035.7 | 1035.7 | 1035.7 | 1035.7 | 1035.7 |
| 2.5° | 1025.3 | 1036.9 | 1027.6 | 1028.8 | 1030.0 |
| 5° | 999.9 | 1014.9 | 1012.6 | 1021.9 | 1031.1 |
| 7.5° | 965.1 | 982.5 | 990.6 | 1009.1 | 1021.9 |
| 10° | 923.5 | 943.2 | 959.4 | 989.4 | 1006.8 |
| 12.5° | 877.2 | 900.3 | 923.5 | 964.0 | 990.6 |
| 15° | 826.3 | 852.9 | 884.1 | 937.4 | 968.6 |
| 17.5° | 774.2 | 800.8 | 841.3 | 902.7 | 942.0 |
| 20° | 718.7 | 747.6 | 793.9 | 862.2 | 910.8 |
| 22.5° | 660.8 | 692.0 | 743.0 | 820.5 | 878.4 |
| 25° | 602.9 | 635.3 | 692.0 | 778.8 | 842.5 |
| 27.5° | 545.1 | 576.3 | 637.6 | 734.9 | 804.3 |
| 30° | 486.0 | 518.4 | 585.6 | 687.4 | 767.3 |
| 32.5° | 429.3 | 459.4 | 531.2 | 642.3 | 726.8 |
| 35° | 365.7 | 400.4 | 476.8 | 596.0 | 687.4 |
| 37.5° | 311.3 | 342.5 | 424.7 | 549.7 | 648.1 |
| 40° | 248.8 | 283.5 | 371.5 | 504.6 | 607.6 |
| 42.5° | 190.9 | 225.7 | 320.6 | 459.4 | 569.4 |
| 45° | 138.9 | 172.4 | 270.8 | 417.8 | 531.2 |
| 47.5° | 105.3 | 125.0 | 222.2 | 377.3 | 488.4 |
| 50° | 90.3 | 96.1 | 178.2 | 333.3 | 442.1 |
| 52.5° | 79.9 | 82.2 | 138.9 | 289.3 | 395.8 |
| 55° | 68.3 | 70.6 | 107.6 | 245.3 | 348.3 |
| 57.5° | 57.9 | 59.0 | 86.8 | 203.7 | 297.4 |
| 60° | 48.6 | 49.8 | 76.4 | 163.2 | 245.3 |
| 62.5° | 40.5 | 41.7 | 68.3 | 126.1 | 195.6 |
| 65° | 32.4 | 34.7 | 57.9 | 92.6 | 149.3 |
| 67.5° | 26.6 | 31.2 | 48.6 | 64.8 | 104.2 |
| 70° | 22.0 | 30.1 | 39.3 | 45.1 | 63.6 |
| 72.5° | 18.5 | 27.8 | 33.6 | 32.4 | 31.2 |
| 75° | 15.0 | 26.6 | 27.8 | 25.5 | 24.3 |
| 77.5° | 12.7 | 23.1 | 23.1 | 20.8 | 19.7 |
| 80° | 10.4 | 18.5 | 18.5 | 18.5 | 16.2 |
| 82.5° | 9.3 | 15.0 | 16.2 | 16.2 | 12.7 |
| 85° | 6.9 | 12.7 | 13.9 | 13.9 | 9.3 |
| 87.5° | 4.6 | 11.6 | 12.7 | 11.6 | 6.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)