

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: P1061495

Luminaire Tested: S125RDR-S1090D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

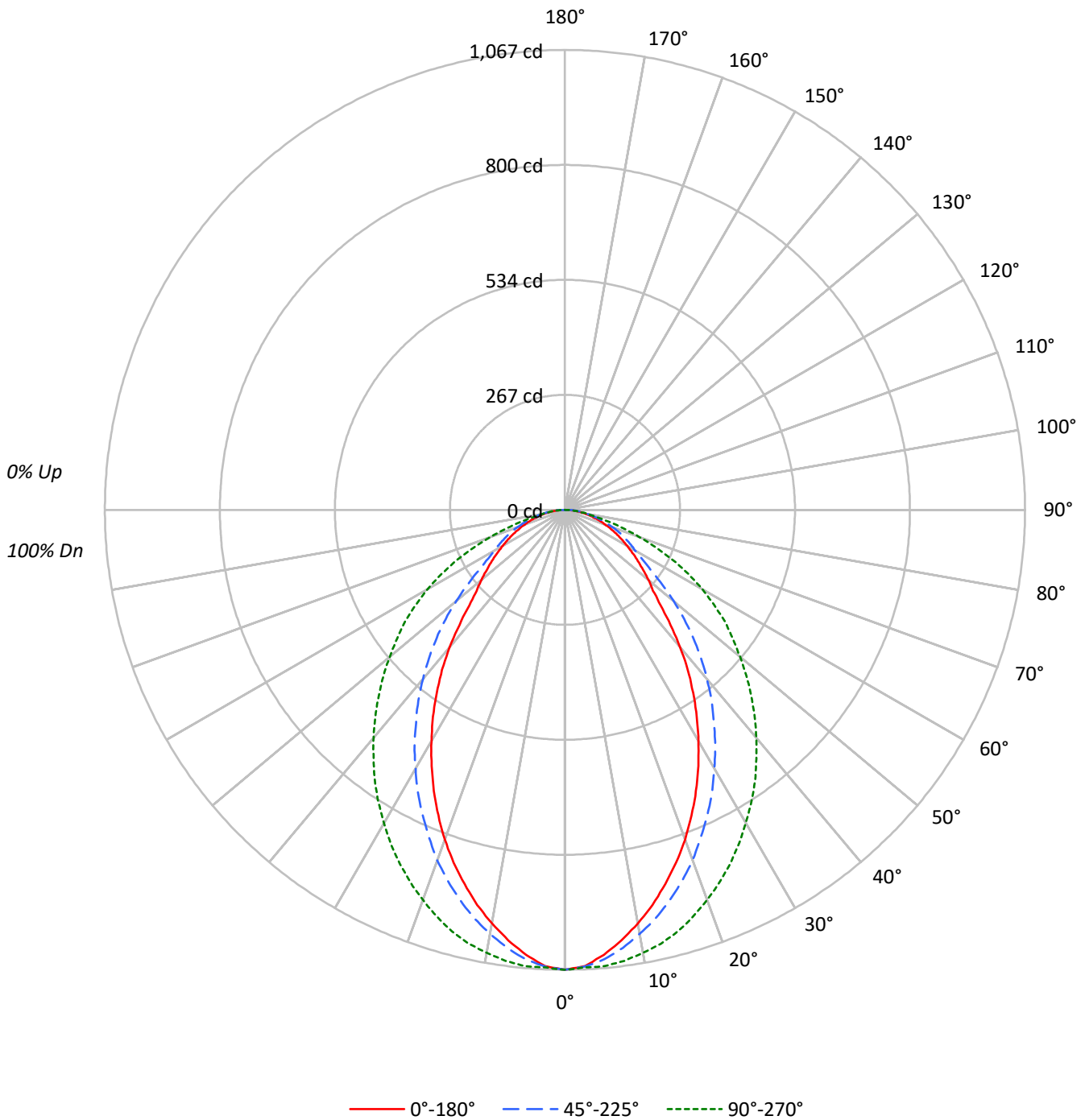
Lumens per Lamp: N/A
Luminaire Lumens: 2000.1 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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





TEST NUMBER: P1061495

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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 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | | | | 86 | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 86 | 82 | 89 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | | | | 74 | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | | | | 64 | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | 56 | |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | | | | 50 | |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 48 | 59 | 52 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | | | | 44 | |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | | | | 40 | |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | | | | 36 | |
| 9 | 61 | 48 | 41 | 35 | 59 | 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° | 7346 | 7346 | 7346 |
| 5° | 7160 | 7234 | 7345 |
| 10° | 6811 | 6982 | 7296 |
| 15° | 6405 | 6686 | 7218 |
| 20° | 5966 | 6342 | 7060 |
| 25° | 5466 | 5936 | 6883 |
| 30° | 4924 | 5508 | 6669 |
| 35° | 4354 | 5062 | 6459 |
| 40° | 3736 | 4608 | 6208 |
| 45° | 3052 | 4099 | 5947 |
| 50° | 2706 | 3517 | 5674 |
| 55° | 2482 | 2917 | 5438 |
| 60° | 2290 | 2583 | 5063 |
| 65° | 2136 | 2483 | 4514 |
| 70° | 1995 | 2359 | 3690 |
| 75° | 1844 | 2211 | 2721 |
| 80° | 1733 | 2070 | 1986 |
| 85° | 1604 | 2022 | 1683 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5947 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.7 | 4.9 |
| 10°-20° | 266.0 | 13.3 |
| 20°-30° | 365.5 | 18.3 |
| 30°-40° | 387.4 | 19.4 |
| 40°-50° | 338.2 | 16.9 |
| 50°-60° | 256.9 | 12.8 |
| 60°-70° | 172.1 | 8.6 |
| 70°-80° | 88.7 | 4.4 |
| 80°-90° | 26.6 | 1.3 |
| 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° | 730.2 | 36.5 |
| 0°-40° | 1117.6 | 55.9 |
| 0°-60° | 1712.7 | 85.6 |
| 0°-90° | 2000.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2000.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1067 | 1067 | 1067 | 1067 | 1067 | |
| 5° | 1036 | 1047 | 1047 | 1054 | 1063 | 97 |
| 15° | 898 | 916 | 938 | 980 | 1013 | 252 |
| 25° | 720 | 742 | 781 | 846 | 906 | 330 |
| 35° | 518 | 548 | 602 | 688 | 768 | 323 |
| 45° | 313 | 344 | 421 | 521 | 611 | 247 |
| 55° | 207 | 213 | 243 | 357 | 453 | 185 |
| 65° | 131 | 134 | 152 | 204 | 277 | 130 |
| 75° | 69 | 74 | 83 | 88 | 102 | 74 |
| 85° | 20 | 26 | 26 | 23 | 21 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061495

CATALOG NUMBER: S125RDR-S1090D935-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1066.9 | 1066.9 | 1066.9 | 1066.9 | 1066.9 |
| 2.5° | 1059.5 | 1066.9 | 1060.5 | 1060.5 | 1062.7 |
| 5° | 1036.0 | 1046.7 | 1046.7 | 1054.1 | 1062.7 |
| 7.5° | 1007.2 | 1019.0 | 1025.4 | 1042.4 | 1055.2 |
| 10° | 974.2 | 987.0 | 998.7 | 1024.3 | 1043.5 |
| 12.5° | 939.0 | 952.9 | 971.0 | 1004.0 | 1030.7 |
| 15° | 898.5 | 915.6 | 938.0 | 979.5 | 1012.6 |
| 17.5° | 858.0 | 875.1 | 902.8 | 951.8 | 989.1 |
| 20° | 814.3 | 832.4 | 865.5 | 918.8 | 963.5 |
| 22.5° | 767.4 | 787.7 | 822.9 | 883.6 | 935.8 |
| 25° | 719.5 | 741.8 | 781.3 | 846.3 | 906.0 |
| 27.5° | 669.4 | 696.0 | 738.6 | 807.9 | 874.0 |
| 30° | 619.3 | 645.9 | 692.8 | 768.5 | 838.8 |
| 32.5° | 569.2 | 598.0 | 649.1 | 729.1 | 804.7 |
| 35° | 518.0 | 547.9 | 602.2 | 687.5 | 768.5 |
| 37.5° | 467.9 | 497.8 | 558.5 | 647.0 | 729.1 |
| 40° | 415.7 | 446.6 | 512.7 | 605.4 | 690.7 |
| 42.5° | 362.4 | 395.4 | 466.9 | 562.8 | 651.2 |
| 45° | 313.4 | 344.3 | 421.0 | 521.2 | 610.7 |
| 47.5° | 277.1 | 297.4 | 375.2 | 478.6 | 571.3 |
| 50° | 252.6 | 263.3 | 328.3 | 437.0 | 529.7 |
| 52.5° | 228.1 | 236.6 | 284.6 | 394.4 | 490.3 |
| 55° | 206.8 | 213.2 | 243.0 | 357.1 | 453.0 |
| 57.5° | 185.5 | 191.9 | 211.0 | 319.8 | 409.3 |
| 60° | 166.3 | 171.6 | 187.6 | 280.3 | 367.7 |
| 62.5° | 148.2 | 152.4 | 169.5 | 243.0 | 323.0 |
| 65° | 131.1 | 134.3 | 152.4 | 203.6 | 277.1 |
| 67.5° | 114.0 | 117.2 | 135.4 | 166.3 | 228.1 |
| 70° | 99.1 | 100.2 | 117.2 | 135.4 | 183.3 |
| 72.5° | 84.2 | 85.3 | 99.1 | 109.8 | 140.7 |
| 75° | 69.3 | 73.5 | 83.1 | 88.5 | 102.3 |
| 77.5° | 56.5 | 61.8 | 67.1 | 69.3 | 69.3 |
| 80° | 43.7 | 50.1 | 52.2 | 52.2 | 50.1 |
| 82.5° | 32.0 | 37.3 | 38.4 | 36.2 | 34.1 |
| 85° | 20.3 | 25.6 | 25.6 | 23.4 | 21.3 |
| 87.5° | 9.6 | 13.9 | 13.9 | 12.8 | 9.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)