

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: P1061574

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061574
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: S125RDR-S1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

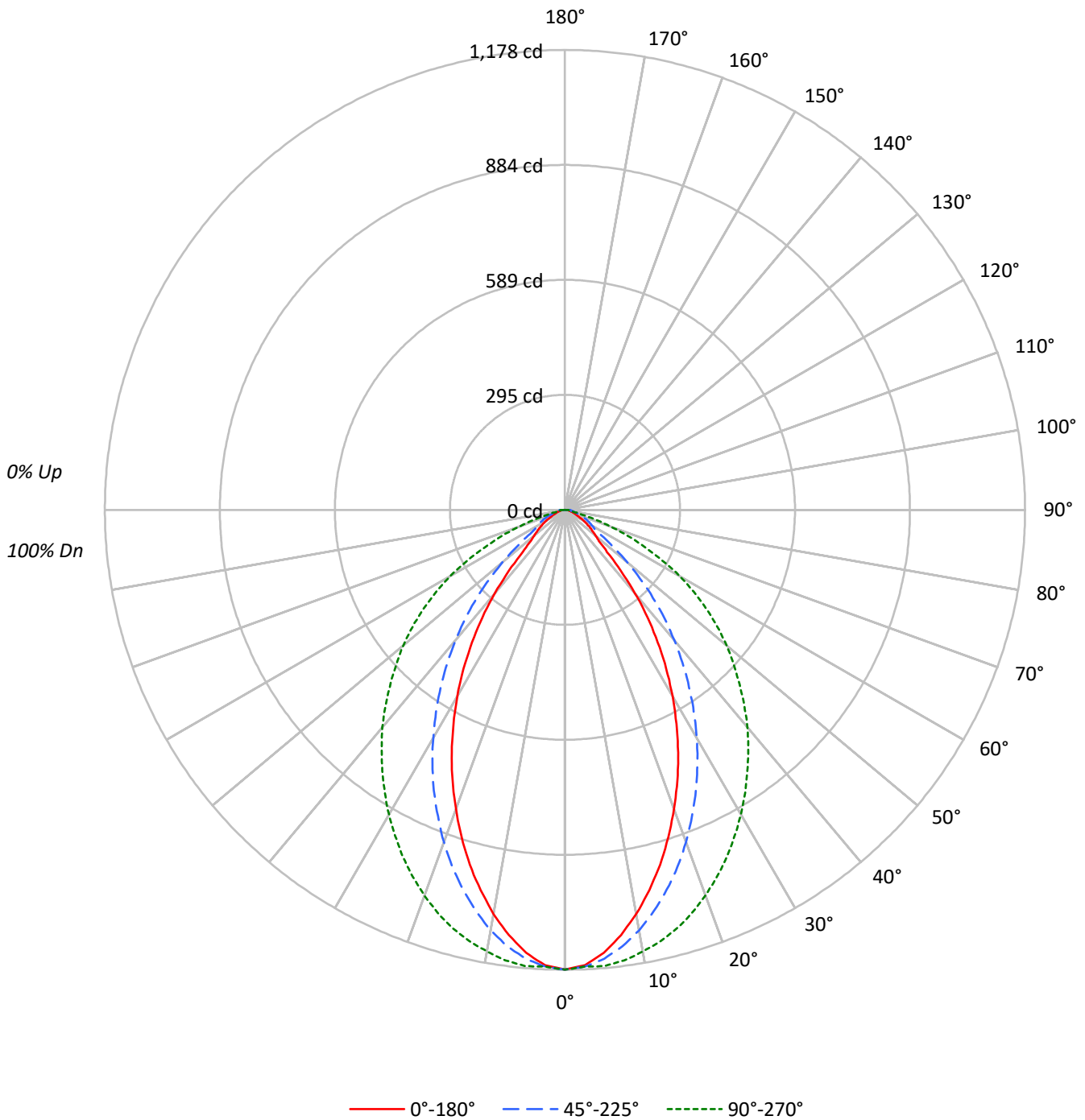
Lumens per Lamp: N/A
Luminaire Lumens: 1705.7 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| 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 | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 92 | 91 | 89 | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 66 | 62 | 58 | 56 | | |
| 6 | 78 | 67 | 59 | 54 | 77 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 53 | 51 | | |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 42 | | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8108 | 8108 | 8108 |
| 5° | 7871 | 7975 | 8104 |
| 10° | 7349 | 7647 | 8032 |
| 15° | 6708 | 7181 | 7912 |
| 20° | 5978 | 6638 | 7702 |
| 25° | 5210 | 6027 | 7453 |
| 30° | 4377 | 5363 | 7163 |
| 35° | 3481 | 4660 | 6848 |
| 40° | 2509 | 3914 | 6535 |
| 45° | 1487 | 3107 | 6154 |
| 50° | 1099 | 2212 | 5791 |
| 55° | 932 | 1367 | 5302 |
| 60° | 759 | 1103 | 4670 |
| 65° | 591 | 1020 | 3690 |
| 70° | 503 | 882 | 2468 |
| 75° | 466 | 766 | 998 |
| 80° | 496 | 793 | 694 |
| 85° | 592 | 1185 | 790 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6154 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.5 | 6.4 |
| 10°-20° | 285.1 | 16.7 |
| 20°-30° | 372.6 | 21.8 |
| 30°-40° | 362.9 | 21.3 |
| 40°-50° | 272.2 | 16.0 |
| 50°-60° | 170.7 | 10.0 |
| 60°-70° | 88.8 | 5.2 |
| 70°-80° | 32.1 | 1.9 |
| 80°-90° | 12.7 | 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° | 766.2 | 44.9 |
| 0°-40° | 1129.1 | 66.2 |
| 0°-60° | 1572.0 | 92.2 |
| 0°-90° | 1705.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1705.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1178 | 1178 | 1178 | 1178 | 1178 | |
| 5° | 1139 | 1154 | 1154 | 1163 | 1173 | 106 |
| 15° | 941 | 969 | 1007 | 1070 | 1110 | 262 |
| 25° | 686 | 723 | 793 | 901 | 981 | 313 |
| 35° | 414 | 458 | 554 | 702 | 815 | 257 |
| 45° | 153 | 198 | 319 | 493 | 632 | 128 |
| 55° | 78 | 81 | 114 | 298 | 442 | 69 |
| 65° | 36 | 39 | 63 | 120 | 226 | 37 |
| 75° | 18 | 24 | 29 | 30 | 38 | 19 |
| 85° | 8 | 12 | 15 | 14 | 10 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1177.6 | 1177.6 | 1177.6 | 1177.6 | 1177.6 |
| 2.5° | 1167.6 | 1178.8 | 1171.3 | 1171.3 | 1171.3 |
| 5° | 1138.8 | 1153.8 | 1153.8 | 1162.6 | 1172.6 |
| 7.5° | 1098.7 | 1116.3 | 1127.5 | 1148.8 | 1163.8 |
| 10° | 1051.2 | 1072.5 | 1093.7 | 1128.8 | 1148.8 |
| 12.5° | 997.4 | 1022.4 | 1052.4 | 1101.2 | 1131.3 |
| 15° | 941.1 | 968.6 | 1007.4 | 1070.0 | 1110.0 |
| 17.5° | 879.7 | 912.3 | 958.6 | 1033.7 | 1082.5 |
| 20° | 815.9 | 848.5 | 906.0 | 991.1 | 1051.2 |
| 22.5° | 752.1 | 787.1 | 849.7 | 946.1 | 1017.4 |
| 25° | 685.8 | 723.3 | 793.4 | 901.0 | 981.1 |
| 27.5° | 618.2 | 657.0 | 734.6 | 854.7 | 941.1 |
| 30° | 550.6 | 590.7 | 674.5 | 804.7 | 901.0 |
| 32.5° | 483.0 | 525.6 | 614.4 | 753.3 | 858.5 |
| 35° | 414.2 | 458.0 | 554.4 | 702.0 | 814.7 |
| 37.5° | 347.9 | 391.7 | 494.3 | 649.5 | 770.9 |
| 40° | 279.1 | 326.6 | 435.5 | 596.9 | 727.1 |
| 42.5° | 211.5 | 260.3 | 376.7 | 544.4 | 679.5 |
| 45° | 152.7 | 197.7 | 319.1 | 493.1 | 632.0 |
| 47.5° | 117.6 | 142.7 | 260.3 | 440.5 | 585.7 |
| 50° | 102.6 | 110.1 | 206.5 | 391.7 | 540.6 |
| 52.5° | 88.8 | 93.9 | 155.2 | 346.6 | 491.8 |
| 55° | 77.6 | 81.3 | 113.9 | 297.8 | 441.7 |
| 57.5° | 65.1 | 70.1 | 90.1 | 250.3 | 390.4 |
| 60° | 55.1 | 57.6 | 80.1 | 206.5 | 339.1 |
| 62.5° | 45.1 | 47.6 | 71.3 | 162.7 | 281.6 |
| 65° | 36.3 | 38.8 | 62.6 | 120.1 | 226.5 |
| 67.5° | 30.0 | 31.3 | 52.6 | 85.1 | 173.9 |
| 70° | 25.0 | 26.3 | 43.8 | 58.8 | 122.6 |
| 72.5° | 21.3 | 25.0 | 35.0 | 42.5 | 77.6 |
| 75° | 17.5 | 23.8 | 28.8 | 30.0 | 37.5 |
| 77.5° | 15.0 | 22.5 | 23.8 | 23.8 | 21.3 |
| 80° | 12.5 | 18.8 | 20.0 | 18.8 | 17.5 |
| 82.5° | 10.0 | 15.0 | 16.3 | 16.3 | 13.8 |
| 85° | 7.5 | 12.5 | 15.0 | 13.8 | 10.0 |
| 87.5° | 5.0 | 11.3 | 12.5 | 11.3 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)