

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: P1175361

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

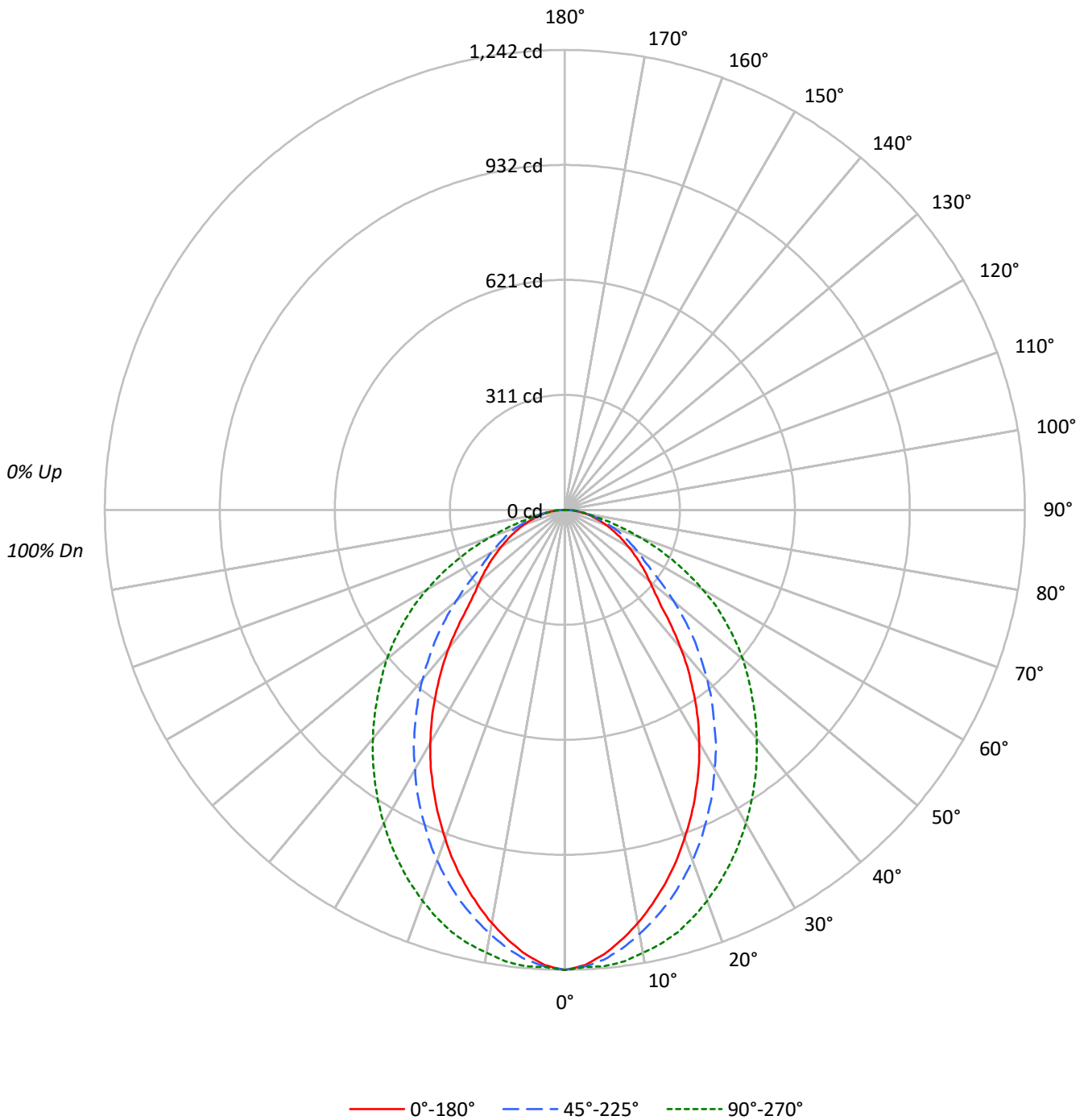
Lumens per Lamp: N/A
Luminaire Lumens: 2340.6 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | |
| 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 | 73 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | 64 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 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 | 47 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 46 | 44 | | | | |
| 7 | 69 | 57 | 48 | 43 | 68 | 56 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | |
| 9 | 61 | 48 | 40 | 35 | 59 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | | | | |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8554 | 8554 | 8554 |
| 5° | 8332 | 8427 | 8550 |
| 10° | 7927 | 8133 | 8495 |
| 15° | 7450 | 7788 | 8413 |
| 20° | 6924 | 7388 | 8230 |
| 25° | 6362 | 6922 | 8013 |
| 30° | 5769 | 6431 | 7773 |
| 35° | 5106 | 5913 | 7517 |
| 40° | 4380 | 5375 | 7243 |
| 45° | 3594 | 4786 | 6963 |
| 50° | 3197 | 4112 | 6721 |
| 55° | 2949 | 3444 | 6380 |
| 60° | 2716 | 3137 | 5910 |
| 65° | 2525 | 2955 | 5223 |
| 70° | 2357 | 2760 | 4268 |
| 75° | 2216 | 2554 | 3198 |
| 80° | 2090 | 2343 | 2300 |
| 85° | 1920 | 2330 | 1920 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6963 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.0 | 4.9 |
| 10°-20° | 310.0 | 13.2 |
| 20°-30° | 426.5 | 18.2 |
| 30°-40° | 452.4 | 19.3 |
| 40°-50° | 395.9 | 16.9 |
| 50°-60° | 303.8 | 13.0 |
| 60°-70° | 202.4 | 8.6 |
| 70°-80° | 103.8 | 4.4 |
| 80°-90° | 30.8 | 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° | 851.5 | 36.4 |
| 0°-40° | 1303.9 | 55.7 |
| 0°-60° | 2003.6 | 85.6 |
| 0°-90° | 2340.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2340.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1242 | 1242 | 1242 | 1242 | 1242 | |
| 5° | 1206 | 1221 | 1219 | 1228 | 1237 | 113 |
| 15° | 1045 | 1069 | 1093 | 1144 | 1180 | 293 |
| 25° | 837 | 866 | 911 | 988 | 1055 | 385 |
| 35° | 608 | 636 | 704 | 807 | 894 | 379 |
| 45° | 369 | 400 | 492 | 614 | 715 | 292 |
| 55° | 246 | 251 | 287 | 426 | 532 | 220 |
| 65° | 155 | 156 | 181 | 238 | 321 | 154 |
| 75° | 83 | 89 | 96 | 101 | 120 | 89 |
| 85° | 24 | 27 | 30 | 28 | 24 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1175361

CATALOG NUMBER: S125RDR-S1270D930-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1242.4 | 1242.4 | 1242.4 | 1242.4 | 1242.4 |
| 2.5° | 1230.8 | 1243.4 | 1233.9 | 1235.0 | 1236.1 |
| 5° | 1205.5 | 1221.3 | 1219.2 | 1227.6 | 1237.1 |
| 7.5° | 1171.7 | 1188.6 | 1193.9 | 1215.0 | 1229.7 |
| 10° | 1133.8 | 1152.7 | 1163.3 | 1194.9 | 1215.0 |
| 12.5° | 1090.5 | 1112.7 | 1129.5 | 1170.7 | 1200.2 |
| 15° | 1045.2 | 1069.4 | 1092.6 | 1144.3 | 1180.2 |
| 17.5° | 996.7 | 1020.9 | 1051.5 | 1110.6 | 1153.8 |
| 20° | 945.0 | 971.3 | 1008.3 | 1071.5 | 1123.2 |
| 22.5° | 892.2 | 919.7 | 961.8 | 1031.5 | 1090.5 |
| 25° | 837.4 | 865.9 | 911.2 | 988.2 | 1054.7 |
| 27.5° | 783.6 | 810.0 | 862.7 | 945.0 | 1017.7 |
| 30° | 725.6 | 753.0 | 808.9 | 899.6 | 977.7 |
| 32.5° | 667.6 | 695.0 | 759.4 | 854.3 | 936.5 |
| 35° | 607.5 | 636.0 | 703.5 | 806.8 | 894.3 |
| 37.5° | 547.4 | 576.9 | 651.8 | 758.3 | 851.1 |
| 40° | 487.3 | 518.9 | 598.0 | 709.8 | 805.8 |
| 42.5° | 426.1 | 459.8 | 543.1 | 662.3 | 761.5 |
| 45° | 369.1 | 399.7 | 491.5 | 613.8 | 715.1 |
| 47.5° | 328.0 | 345.9 | 436.6 | 564.2 | 670.8 |
| 50° | 298.5 | 306.9 | 383.9 | 516.8 | 627.5 |
| 52.5° | 272.1 | 277.4 | 332.2 | 472.5 | 580.1 |
| 55° | 245.7 | 251.0 | 286.9 | 426.1 | 531.5 |
| 57.5° | 220.4 | 223.6 | 253.1 | 379.7 | 483.0 |
| 60° | 197.2 | 199.3 | 227.8 | 333.3 | 429.2 |
| 62.5° | 176.1 | 177.2 | 203.5 | 285.8 | 375.5 |
| 65° | 155.0 | 156.1 | 181.4 | 238.4 | 320.6 |
| 67.5° | 136.1 | 136.1 | 160.3 | 195.1 | 267.9 |
| 70° | 117.1 | 117.1 | 137.1 | 158.2 | 212.0 |
| 72.5° | 100.2 | 102.3 | 116.0 | 127.6 | 165.6 |
| 75° | 83.3 | 88.6 | 96.0 | 101.2 | 120.2 |
| 77.5° | 67.5 | 73.8 | 77.0 | 79.1 | 80.2 |
| 80° | 52.7 | 57.0 | 59.1 | 60.1 | 58.0 |
| 82.5° | 39.0 | 42.2 | 43.2 | 43.2 | 40.1 |
| 85° | 24.3 | 27.4 | 29.5 | 28.5 | 24.3 |
| 87.5° | 11.6 | 15.8 | 16.9 | 14.8 | 11.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)