

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: P1061651

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

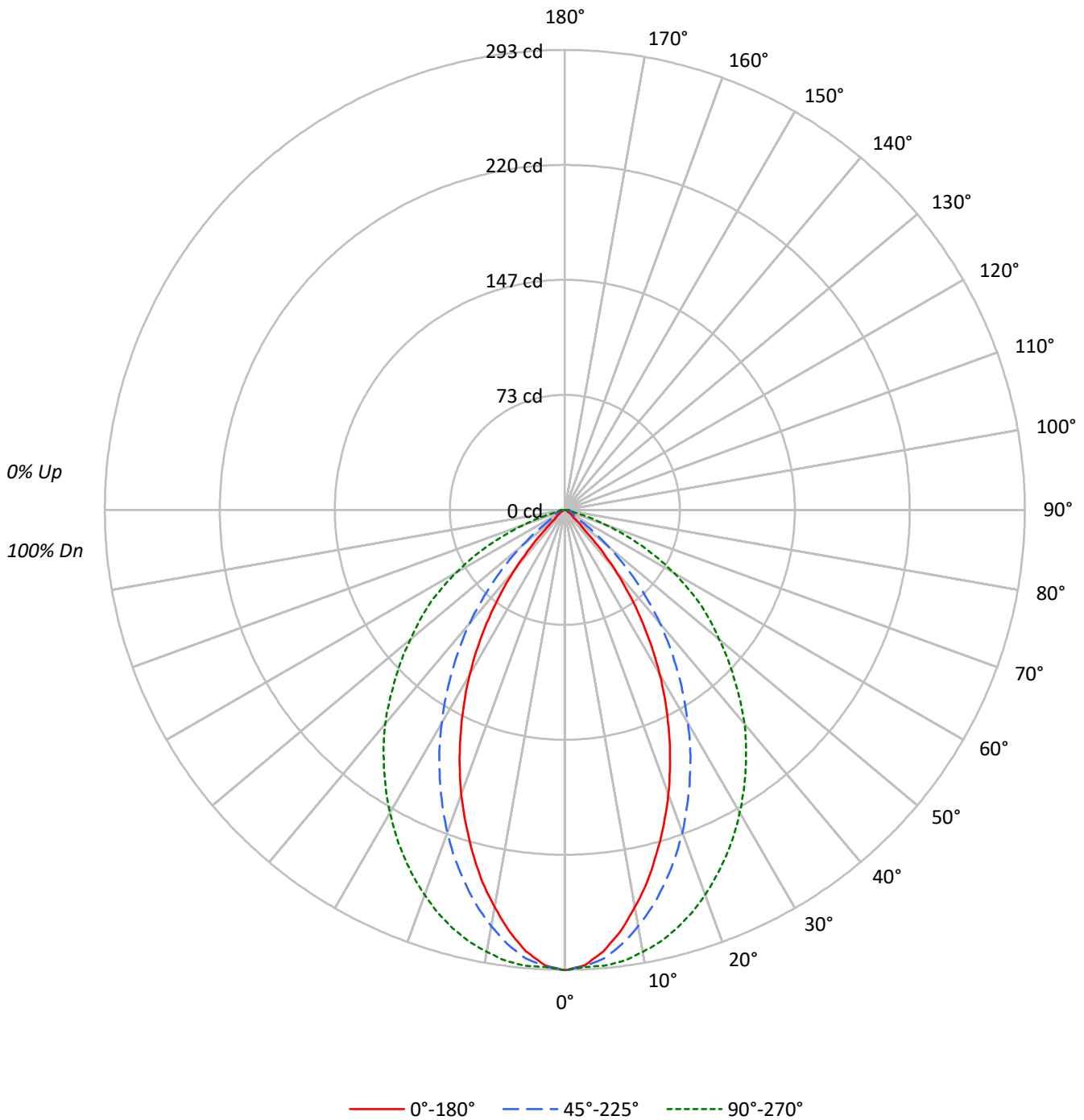
Lumens per Lamp: N/A
Luminaire Lumens: 377.2 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | |
| 2 | 105 | 98 | 93 | 89 | 102 | 97 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 85 | 82 | 81 | | | | |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | | | |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 | | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 51 | 49 | | | | |
| 8 | 71 | 60 | 52 | 47 | 69 | 59 | 52 | 47 | 58 | 52 | 47 | 57 | 51 | 47 | 55 | 50 | 47 | 45 | | | | |
| 9 | 67 | 55 | 48 | 44 | 66 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 42 | | | | |
| 10 | 63 | 52 | 45 | 41 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 39 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2019 | 2019 | 2019 |
| 5° | 1952 | 1982 | 2015 |
| 10° | 1798 | 1883 | 2000 |
| 15° | 1614 | 1754 | 1967 |
| 20° | 1413 | 1604 | 1913 |
| 25° | 1193 | 1432 | 1847 |
| 30° | 962 | 1246 | 1771 |
| 35° | 708 | 1051 | 1688 |
| 40° | 441 | 848 | 1601 |
| 45° | 166 | 619 | 1488 |
| 50° | 77 | 387 | 1373 |
| 55° | 56 | 161 | 1270 |
| 60° | 40 | 84 | 1099 |
| 65° | 23 | 99 | 872 |
| 70° | 22 | 117 | 552 |
| 75° | 29 | 114 | 173 |
| 80° | 44 | 143 | 131 |
| 85° | 87 | 229 | 174 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1488 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.9 | 7.1 |
| 10°-20° | 69.6 | 18.5 |
| 20°-30° | 88.7 | 23.5 |
| 30°-40° | 82.5 | 21.9 |
| 40°-50° | 56.6 | 15.0 |
| 50°-60° | 31.1 | 8.3 |
| 60°-70° | 14.7 | 3.9 |
| 70°-80° | 4.6 | 1.2 |
| 80°-90° | 2.4 | 0.6 |
| 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° | 185.2 | 49.1 |
| 0°-40° | 267.7 | 71.0 |
| 0°-60° | 355.5 | 94.2 |
| 0°-90° | 377.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 377.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 293 | 293 | 293 | 293 | 293 | |
| 5° | 282 | 286 | 287 | 289 | 292 | 26 |
| 15° | 226 | 234 | 246 | 264 | 276 | 63 |
| 25° | 157 | 167 | 188 | 219 | 243 | 72 |
| 35° | 84 | 96 | 125 | 166 | 201 | 52 |
| 45° | 17 | 28 | 64 | 113 | 153 | 16 |
| 55° | 5 | 5 | 13 | 63 | 106 | 4 |
| 65° | 1 | 2 | 6 | 23 | 54 | 2 |
| 75° | 1 | 2 | 4 | 5 | 6 | 1 |
| 85° | 1 | 2 | 3 | 2 | 2 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1061651

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-BVL-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 293.3 | 293.3 | 293.3 | 293.3 | 293.3 |
| 2.5° | 290.4 | 293.3 | 291.1 | 291.1 | 291.5 |
| 5° | 282.4 | 286.0 | 286.8 | 288.9 | 291.5 |
| 7.5° | 270.9 | 275.6 | 279.2 | 285.3 | 289.7 |
| 10° | 257.1 | 262.9 | 269.4 | 279.5 | 286.0 |
| 12.5° | 242.7 | 248.8 | 258.6 | 272.7 | 281.7 |
| 15° | 226.4 | 233.7 | 246.0 | 264.4 | 275.9 |
| 17.5° | 209.8 | 217.8 | 232.9 | 254.6 | 269.1 |
| 20° | 192.9 | 201.2 | 218.9 | 243.1 | 261.1 |
| 22.5° | 175.2 | 184.2 | 203.7 | 231.1 | 252.5 |
| 25° | 157.1 | 166.9 | 188.5 | 218.9 | 243.1 |
| 27.5° | 139.0 | 149.2 | 173.0 | 206.2 | 233.3 |
| 30° | 121.0 | 131.5 | 156.7 | 193.2 | 222.8 |
| 32.5° | 102.6 | 114.1 | 140.9 | 180.2 | 212.0 |
| 35° | 84.2 | 96.1 | 125.0 | 166.1 | 200.8 |
| 37.5° | 66.1 | 78.4 | 109.4 | 152.8 | 189.6 |
| 40° | 49.1 | 61.4 | 94.3 | 139.4 | 178.1 |
| 42.5° | 31.8 | 44.8 | 78.4 | 125.7 | 165.4 |
| 45° | 17.0 | 28.5 | 63.6 | 112.7 | 152.8 |
| 47.5° | 9.0 | 15.2 | 49.5 | 99.7 | 140.9 |
| 50° | 7.2 | 8.3 | 36.1 | 86.7 | 128.2 |
| 52.5° | 5.8 | 6.5 | 23.1 | 73.3 | 117.0 |
| 55° | 4.7 | 5.4 | 13.4 | 62.8 | 105.8 |
| 57.5° | 3.6 | 4.3 | 7.6 | 52.4 | 92.8 |
| 60° | 2.9 | 3.3 | 6.1 | 41.9 | 79.8 |
| 62.5° | 1.8 | 2.5 | 6.1 | 32.5 | 66.8 |
| 65° | 1.4 | 1.8 | 6.1 | 23.1 | 53.5 |
| 67.5° | 1.4 | 1.4 | 6.1 | 15.2 | 40.1 |
| 70° | 1.1 | 1.1 | 5.8 | 9.8 | 27.4 |
| 72.5° | 1.1 | 1.1 | 5.1 | 6.5 | 15.9 |
| 75° | 1.1 | 1.8 | 4.3 | 4.7 | 6.5 |
| 77.5° | 1.1 | 2.9 | 4.0 | 4.0 | 3.6 |
| 80° | 1.1 | 2.9 | 3.6 | 3.3 | 3.3 |
| 82.5° | 1.1 | 2.9 | 2.9 | 2.9 | 2.5 |
| 85° | 1.1 | 2.5 | 2.9 | 2.5 | 2.2 |
| 87.5° | 1.1 | 2.5 | 2.5 | 2.5 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)