

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1062047

Luminaire Tested: S125RDRP-H375D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062047
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: S125RDRP-H375D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

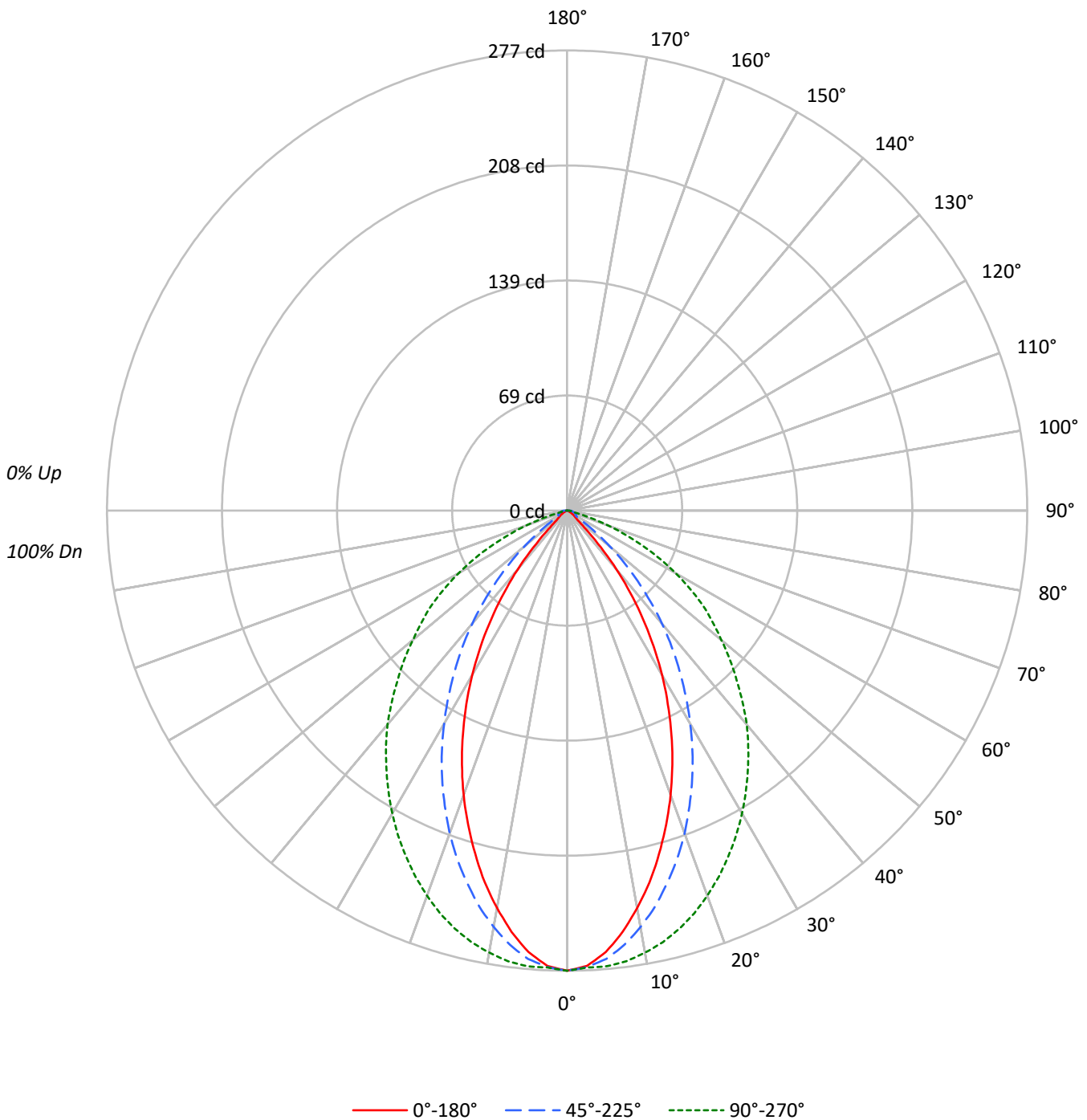
Lumens per Lamp: N/A
Luminaire Lumens: 356.3 lumens
Efficiency: N/A
Efficacy: 30.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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 | 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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | 90 | | | |
| 2 | 105 | 98 | 93 | 89 | 102 | 97 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 85 | 82 | 81 | | | | | 81 | | | |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | | | | 65 | | | |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | | | 59 | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 | | | | | 54 | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 51 | 49 | | | | | 49 | | | |
| 8 | 71 | 60 | 52 | 47 | 69 | 59 | 52 | 47 | 58 | 52 | 47 | 57 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 9 | 67 | 55 | 48 | 44 | 66 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 42 | | | | | 42 | | | |
| 10 | 63 | 52 | 45 | 41 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 39 | | | | | 39 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1907 | 1907 | 1907 |
| 5° | 1844 | 1872 | 1903 |
| 10° | 1698 | 1779 | 1889 |
| 15° | 1525 | 1656 | 1858 |
| 20° | 1335 | 1515 | 1808 |
| 25° | 1127 | 1353 | 1744 |
| 30° | 909 | 1177 | 1674 |
| 35° | 668 | 992 | 1594 |
| 40° | 417 | 800 | 1512 |
| 45° | 156 | 584 | 1405 |
| 50° | 73 | 365 | 1297 |
| 55° | 53 | 151 | 1200 |
| 60° | 37 | 80 | 1038 |
| 65° | 23 | 94 | 823 |
| 70° | 20 | 111 | 521 |
| 75° | 27 | 109 | 162 |
| 80° | 40 | 135 | 123 |
| 85° | 79 | 213 | 158 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1405 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.4 | 7.1 |
| 10°-20° | 65.8 | 18.5 |
| 20°-30° | 83.8 | 23.5 |
| 30°-40° | 78.0 | 21.9 |
| 40°-50° | 53.4 | 15.0 |
| 50°-60° | 29.4 | 8.3 |
| 60°-70° | 13.9 | 3.9 |
| 70°-80° | 4.4 | 1.2 |
| 80°-90° | 2.2 | 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° | 174.9 | 49.1 |
| 0°-40° | 252.9 | 71.0 |
| 0°-60° | 335.7 | 94.2 |
| 0°-90° | 356.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 356.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 277 | 277 | 277 | 277 | 277 | |
| 5° | 267 | 270 | 271 | 273 | 275 | 25 |
| 15° | 214 | 221 | 232 | 250 | 261 | 60 |
| 25° | 148 | 158 | 178 | 207 | 230 | 68 |
| 35° | 80 | 91 | 118 | 157 | 190 | 49 |
| 45° | 16 | 27 | 60 | 106 | 144 | 15 |
| 55° | 4 | 5 | 13 | 59 | 100 | 4 |
| 65° | 1 | 2 | 6 | 22 | 50 | 2 |
| 75° | 1 | 2 | 4 | 4 | 6 | 1 |
| 85° | 1 | 2 | 3 | 2 | 2 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 277.0 | 277.0 | 277.0 | 277.0 | 277.0 |
| 2.5° | 274.3 | 277.0 | 275.0 | 275.0 | 275.3 |
| 5° | 266.8 | 270.2 | 270.9 | 272.9 | 275.3 |
| 7.5° | 255.9 | 260.3 | 263.7 | 269.5 | 273.6 |
| 10° | 242.9 | 248.4 | 254.5 | 264.1 | 270.2 |
| 12.5° | 229.3 | 235.1 | 244.3 | 257.6 | 266.1 |
| 15° | 213.9 | 220.7 | 232.3 | 249.7 | 260.6 |
| 17.5° | 198.2 | 205.7 | 220.0 | 240.5 | 254.2 |
| 20° | 182.2 | 190.0 | 206.7 | 229.6 | 246.7 |
| 22.5° | 165.5 | 174.0 | 192.4 | 218.3 | 238.5 |
| 25° | 148.4 | 157.6 | 178.1 | 206.7 | 229.6 |
| 27.5° | 131.3 | 140.9 | 163.4 | 194.8 | 220.4 |
| 30° | 114.3 | 124.2 | 148.1 | 182.5 | 210.5 |
| 32.5° | 96.9 | 107.8 | 133.0 | 170.2 | 200.3 |
| 35° | 79.5 | 90.7 | 118.0 | 156.9 | 189.7 |
| 37.5° | 62.4 | 74.0 | 103.4 | 144.3 | 179.1 |
| 40° | 46.4 | 58.0 | 89.0 | 131.7 | 168.2 |
| 42.5° | 30.0 | 42.3 | 74.0 | 118.7 | 156.2 |
| 45° | 16.0 | 27.0 | 60.0 | 106.4 | 144.3 |
| 47.5° | 8.5 | 14.3 | 46.7 | 94.2 | 133.0 |
| 50° | 6.8 | 7.8 | 34.1 | 81.9 | 121.1 |
| 52.5° | 5.5 | 6.1 | 21.8 | 69.3 | 110.5 |
| 55° | 4.4 | 5.1 | 12.6 | 59.4 | 100.0 |
| 57.5° | 3.4 | 4.1 | 7.2 | 49.5 | 87.7 |
| 60° | 2.7 | 3.1 | 5.8 | 39.6 | 75.4 |
| 62.5° | 1.7 | 2.4 | 5.8 | 30.7 | 63.1 |
| 65° | 1.4 | 1.7 | 5.8 | 21.8 | 50.5 |
| 67.5° | 1.4 | 1.4 | 5.8 | 14.3 | 37.9 |
| 70° | 1.0 | 1.0 | 5.5 | 9.2 | 25.9 |
| 72.5° | 1.0 | 1.0 | 4.8 | 6.1 | 15.0 |
| 75° | 1.0 | 1.7 | 4.1 | 4.4 | 6.1 |
| 77.5° | 1.0 | 2.7 | 3.8 | 3.8 | 3.4 |
| 80° | 1.0 | 2.7 | 3.4 | 3.1 | 3.1 |
| 82.5° | 1.0 | 2.7 | 2.7 | 2.7 | 2.4 |
| 85° | 1.0 | 2.4 | 2.7 | 2.4 | 2.0 |
| 87.5° | 1.0 | 2.4 | 2.4 | 2.4 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|------|------|------|------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.29 | 12.58 | 11.66 | 12.89 | 13.21 |
| | 3H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.08 | 13.22 | 12.46 | 13.55 | 13.91 |
| | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.10 | 13.16 | 12.51 | 13.51 | 13.90 |
| | 6H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.06 | 13.03 | 12.48 | 13.40 | 13.80 |
| | 8H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.04 | 12.96 | 12.47 | 13.35 | 13.75 |
| | 12H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.02 | 12.90 | 12.45 | 13.28 | 13.71 |
| 4H | 2H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.08 | 12.13 | 11.48 | 12.48 | 12.87 |
| | 3H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.90 | 12.76 | 12.32 | 13.17 | 13.57 |
| | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.94 | 12.71 | 12.37 | 13.13 | 13.57 |
| | 6H | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.92 | 12.59 | 12.39 | 13.03 | 13.50 |
| | 8H | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 11.91 | 12.53 | 12.38 | 12.97 | 13.45 |
| | 12H | 0.00 | 0.01 | 0.00 | 0.49 | 0.97 | 11.91 | 12.45 | 12.40 | 12.94 | 13.41 |
| 8H | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 11.82 | 12.44 | 12.29 | 12.89 | 13.36 |
| | 6H | 0.30 | 0.81 | 0.80 | 1.30 | 1.78 | 11.82 | 12.33 | 12.33 | 12.83 | 13.31 |
| | 8H | 1.24 | 1.69 | 1.76 | 2.21 | 2.70 | 11.83 | 12.28 | 12.35 | 12.80 | 13.29 |
| | 12H | 2.17 | 2.57 | 2.69 | 3.07 | 3.64 | 11.87 | 12.28 | 12.39 | 12.77 | 13.34 |
| 12H | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 11.78 | 12.33 | 12.27 | 12.81 | 13.28 |
| | 6H | 0.76 | 1.21 | 1.28 | 1.73 | 2.22 | 11.78 | 12.23 | 12.30 | 12.75 | 13.24 |
| | 8H | 1.88 | 2.28 | 2.39 | 2.77 | 3.34 | 11.82 | 12.22 | 12.33 | 12.71 | 13.29 |