

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: P1062049

Luminaire Tested: S125RDRP-H375D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H375D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

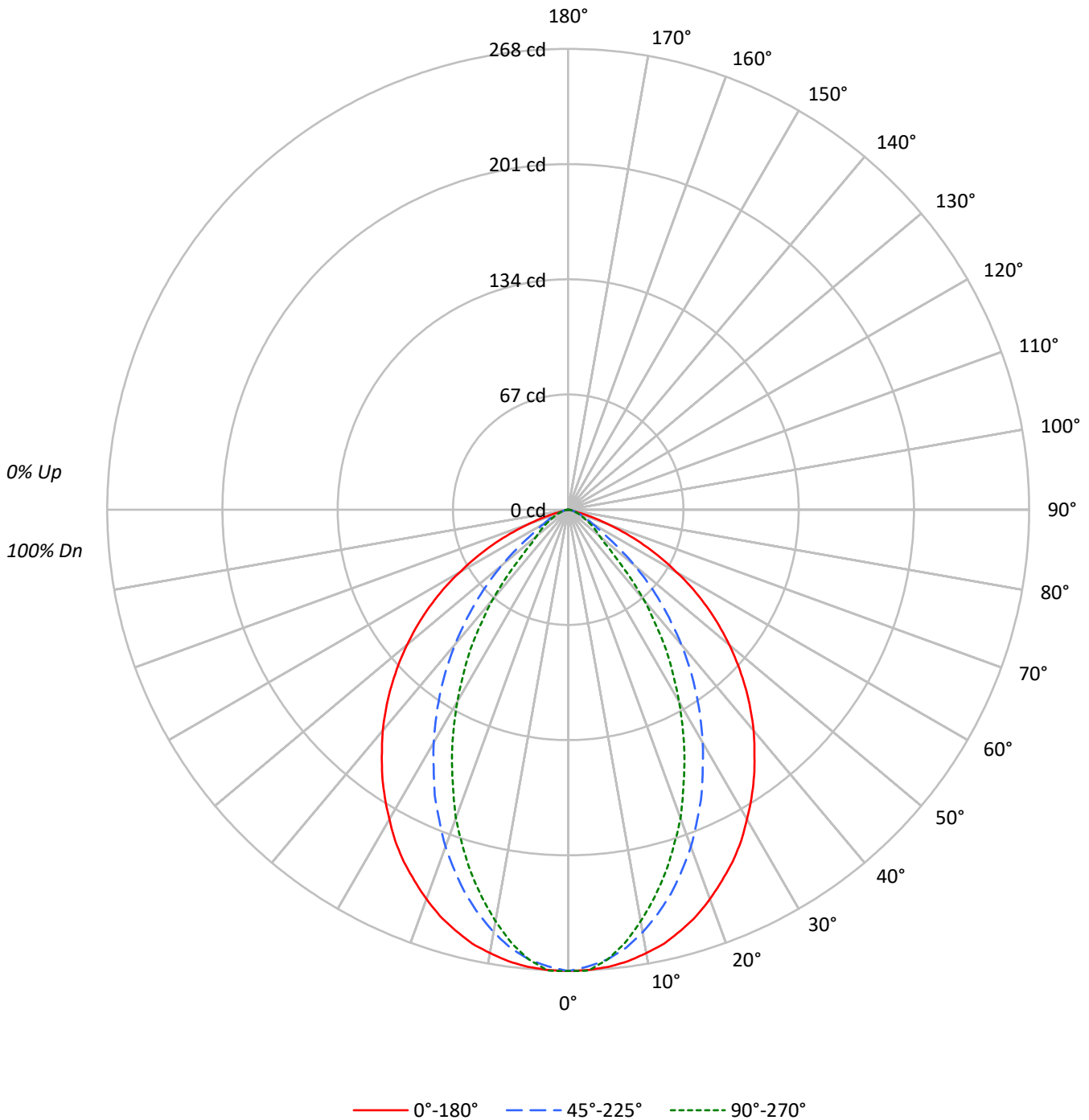
Lumens per Lamp: N/A
Luminaire Lumens: 387.9 lumens
Efficiency: N/A
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (A_{in}): 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 | 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 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | 90 | 86 | 83 | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 82 | 77 | 95 | 87 | 81 | 77 | 84 | 79 | 75 | 82 | 78 | 74 | 79 | 76 | 73 | 71 |
| 4 | 90 | 81 | 74 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 63 | 59 | 57 |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 52 |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 62 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1847 | 1847 | 1847 |
| 5° | 1845 | 1814 | 1814 |
| 10° | 1830 | 1744 | 1699 |
| 15° | 1806 | 1647 | 1557 |
| 20° | 1766 | 1528 | 1399 |
| 25° | 1717 | 1393 | 1215 |
| 30° | 1653 | 1244 | 1024 |
| 35° | 1584 | 1088 | 831 |
| 40° | 1507 | 919 | 616 |
| 45° | 1417 | 737 | 372 |
| 50° | 1311 | 540 | 256 |
| 55° | 1182 | 331 | 212 |
| 60° | 1004 | 226 | 169 |
| 65° | 793 | 173 | 134 |
| 70° | 501 | 123 | 111 |
| 75° | 162 | 90 | 90 |
| 80° | 56 | 67 | 79 |
| 85° | 24 | 55 | 55 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1417 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.8 | 6.4 |
| 10°-20° | 65.5 | 16.9 |
| 20°-30° | 86.2 | 22.2 |
| 30°-40° | 84.7 | 21.8 |
| 40°-50° | 64.1 | 16.5 |
| 50°-60° | 38.8 | 10.0 |
| 60°-70° | 18.3 | 4.7 |
| 70°-80° | 4.8 | 1.2 |
| 80°-90° | 0.7 | 0.2 |
| 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° | 176.5 | 45.5 |
| 0°-40° | 261.2 | 67.3 |
| 0°-60° | 364.1 | 93.9 |
| 0°-90° | 387.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 387.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 268 | 268 | 268 | 268 | 268 | |
| 5° | 267 | 266 | 262 | 263 | 262 | 25 |
| 15° | 253 | 246 | 231 | 222 | 218 | 71 |
| 25° | 226 | 209 | 183 | 166 | 160 | 104 |
| 35° | 188 | 163 | 130 | 107 | 99 | 118 |
| 45° | 146 | 114 | 76 | 48 | 38 | 112 |
| 55° | 98 | 68 | 28 | 19 | 18 | 88 |
| 65° | 49 | 25 | 11 | 9 | 8 | 48 |
| 75° | 6 | 4 | 3 | 3 | 3 | 9 |
| 85° | 0 | 0 | 1 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 268.3 | 268.3 | 268.3 | 268.3 | 268.3 |
| 2.5° | 267.9 | 267.9 | 265.9 | 268.3 | 268.3 |
| 5° | 266.9 | 266.2 | 262.5 | 262.8 | 262.5 |
| 7.5° | 264.9 | 263.5 | 257.0 | 255.3 | 253.9 |
| 10° | 261.8 | 259.1 | 249.5 | 245.4 | 243.0 |
| 12.5° | 258.4 | 253.6 | 240.7 | 234.9 | 231.1 |
| 15° | 253.3 | 246.4 | 231.1 | 222.2 | 218.5 |
| 17.5° | 247.8 | 237.9 | 219.9 | 209.3 | 204.5 |
| 20° | 241.0 | 229.4 | 208.6 | 195.7 | 190.9 |
| 22.5° | 233.5 | 219.9 | 195.7 | 181.3 | 174.9 |
| 25° | 226.0 | 208.9 | 183.4 | 166.3 | 159.9 |
| 27.5° | 217.5 | 198.0 | 169.4 | 151.7 | 144.5 |
| 30° | 207.9 | 187.1 | 156.5 | 138.1 | 128.8 |
| 32.5° | 198.4 | 175.9 | 142.8 | 122.7 | 113.5 |
| 35° | 188.5 | 163.3 | 129.5 | 106.7 | 98.9 |
| 37.5° | 177.9 | 151.3 | 115.9 | 92.0 | 82.8 |
| 40° | 167.7 | 139.4 | 102.3 | 77.0 | 68.5 |
| 42.5° | 156.8 | 127.5 | 88.6 | 62.4 | 52.8 |
| 45° | 145.5 | 114.5 | 75.7 | 48.1 | 38.2 |
| 47.5° | 134.0 | 102.9 | 62.7 | 35.4 | 28.6 |
| 50° | 122.4 | 90.7 | 50.4 | 26.2 | 23.9 |
| 52.5° | 110.4 | 78.7 | 38.2 | 21.8 | 20.8 |
| 55° | 98.5 | 67.5 | 27.6 | 18.7 | 17.7 |
| 57.5° | 86.2 | 55.2 | 20.8 | 16.0 | 15.0 |
| 60° | 72.9 | 44.3 | 16.4 | 13.3 | 12.3 |
| 62.5° | 60.7 | 34.8 | 13.3 | 10.9 | 10.2 |
| 65° | 48.7 | 24.9 | 10.6 | 8.9 | 8.2 |
| 67.5° | 36.5 | 16.7 | 8.2 | 6.8 | 6.8 |
| 70° | 24.9 | 10.9 | 6.1 | 5.5 | 5.5 |
| 72.5° | 15.0 | 6.5 | 4.4 | 4.4 | 4.4 |
| 75° | 6.1 | 4.1 | 3.4 | 3.4 | 3.4 |
| 77.5° | 2.0 | 2.4 | 2.4 | 2.7 | 2.7 |
| 80° | 1.4 | 1.4 | 1.7 | 2.0 | 2.0 |
| 82.5° | 0.7 | 1.0 | 1.0 | 1.4 | 1.4 |
| 85° | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 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 | 11.46 | 12.79 | 11.82 | 13.10 | 13.42 | 2.11 | 3.44 | 2.48 | 3.75 | 4.07 |
| | 3H | 12.17 | 13.34 | 12.55 | 13.67 | 14.04 | 2.90 | 4.07 | 3.27 | 4.40 | 4.77 |
| | 4H | 12.18 | 13.28 | 12.58 | 13.63 | 14.01 | 3.14 | 4.24 | 3.54 | 4.59 | 4.97 |
| | 6H | 12.11 | 13.12 | 12.53 | 13.49 | 13.88 | 3.31 | 4.32 | 3.73 | 4.69 | 5.08 |
| | 8H | 12.07 | 13.02 | 12.50 | 13.41 | 13.82 | 3.36 | 4.31 | 3.79 | 4.70 | 5.11 |
| | 12H | 12.03 | 12.94 | 12.46 | 13.32 | 13.75 | 3.37 | 4.28 | 3.80 | 4.66 | 5.09 |
| 4H | 2H | 11.29 | 12.39 | 11.69 | 12.74 | 13.12 | 2.60 | 3.70 | 3.00 | 4.05 | 4.43 |
| | 3H | 12.04 | 12.93 | 12.45 | 13.33 | 13.74 | 3.51 | 4.40 | 3.92 | 4.81 | 5.21 |
| | 4H | 12.05 | 12.85 | 12.49 | 13.27 | 13.71 | 3.82 | 4.62 | 4.26 | 5.04 | 5.48 |
| | 6H | 11.99 | 12.68 | 12.46 | 13.12 | 13.59 | 4.07 | 4.76 | 4.54 | 5.20 | 5.67 |
| | 8H | 11.94 | 12.58 | 12.41 | 13.03 | 13.50 | 4.14 | 4.78 | 4.61 | 5.23 | 5.70 |
| | 12H | 11.90 | 12.46 | 12.38 | 12.94 | 13.42 | 4.17 | 4.73 | 4.66 | 5.22 | 5.69 |
| 8H | 4H | 11.94 | 12.58 | 12.41 | 13.02 | 13.49 | 3.93 | 4.57 | 4.40 | 5.02 | 5.49 |
| | 6H | 11.86 | 12.38 | 12.37 | 12.88 | 13.36 | 4.24 | 4.76 | 4.74 | 5.26 | 5.74 |
| | 8H | 11.81 | 12.27 | 12.33 | 12.79 | 13.28 | 4.35 | 4.82 | 4.87 | 5.33 | 5.83 |
| | 12H | 11.77 | 12.18 | 12.28 | 12.67 | 13.25 | 4.42 | 4.83 | 4.94 | 5.33 | 5.90 |
| 12H | 4H | 11.89 | 12.46 | 12.38 | 12.94 | 13.41 | 3.91 | 4.47 | 4.39 | 4.95 | 5.43 |
| | 6H | 11.80 | 12.27 | 12.33 | 12.79 | 13.28 | 4.21 | 4.68 | 4.74 | 5.19 | 5.69 |
| | 8H | 11.77 | 12.18 | 12.29 | 12.68 | 13.25 | 4.36 | 4.77 | 4.87 | 5.26 | 5.84 |