

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: P1062065

Luminaire Tested: S125RDRP-H375D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1062065  
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-H375D940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

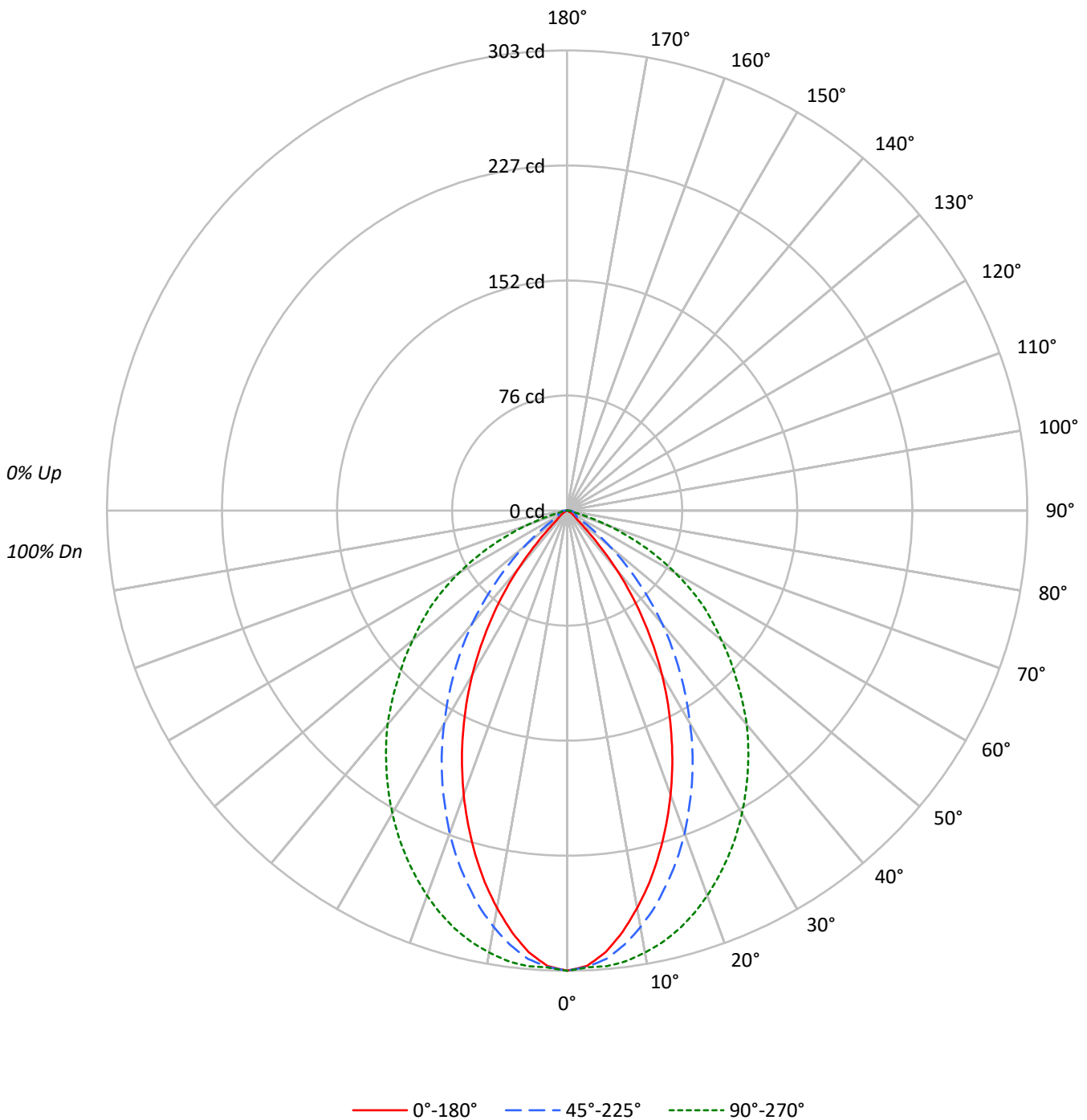
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 389.7 lumens  
Efficiency: N/A  
Efficacy: 33.3 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 (A<sub>in</sub>): 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 | 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°  | 2086 | 2086 | 2086 |
| 5°  | 2017 | 2048 | 2081 |
| 10° | 1858 | 1946 | 2066 |
| 15° | 1668 | 1811 | 2032 |
| 20° | 1460 | 1657 | 1977 |
| 25° | 1233 | 1480 | 1908 |
| 30° | 994  | 1287 | 1830 |
| 35° | 730  | 1085 | 1744 |
| 40° | 456  | 875  | 1654 |
| 45° | 170  | 640  | 1537 |
| 50° | 80   | 400  | 1419 |
| 55° | 59   | 166  | 1312 |
| 60° | 41   | 87   | 1136 |
| 65° | 24   | 103  | 899  |
| 70° | 22   | 121  | 572  |
| 75° | 29   | 120  | 178  |
| 80° | 44   | 147  | 135  |
| 85° | 87   | 237  | 174  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1537 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.8   | 7.1       |
| 10°-20°   | 71.9   | 18.5      |
| 20°-30°   | 91.6   | 23.5      |
| 30°-40°   | 85.3   | 21.9      |
| 40°-50°   | 58.4   | 15.0      |
| 50°-60°   | 32.2   | 8.3       |
| 60°-70°   | 15.2   | 3.9       |
| 70°-80°   | 4.8    | 1.2       |
| 80°-90°   | 2.5    | 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°    | 191.3  | 49.1      |
| 0°-40°    | 276.6  | 71.0      |
| 0°-60°    | 367.2  | 94.2      |
| 0°-90°    | 389.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 389.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 303 | 303   | 303 | 303   | 303 |      |
| 5°  | 292 | 296   | 296 | 298   | 301 | 27   |
| 15° | 234 | 241   | 254 | 273   | 285 | 65   |
| 25° | 162 | 172   | 195 | 226   | 251 | 74   |
| 35° | 87  | 99    | 129 | 172   | 208 | 54   |
| 45° | 18  | 30    | 66  | 116   | 158 | 17   |
| 55° | 5   | 6     | 14  | 65    | 109 | 4    |
| 65° | 2   | 2     | 6   | 24    | 55  | 2    |
| 75° | 1   | 2     | 4   | 5     | 7   | 1    |
| 85° | 1   | 3     | 3   | 3     | 2   | 1    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 303.0 | 303.0 | 303.0 | 303.0 | 303.0 |
| 2.5°  | 300.0 | 303.0 | 300.7 | 300.7 | 301.1 |
| 5°    | 291.8 | 295.5 | 296.3 | 298.5 | 301.1 |
| 7.5°  | 279.8 | 284.7 | 288.4 | 294.8 | 299.2 |
| 10°   | 265.7 | 271.6 | 278.4 | 288.8 | 295.5 |
| 12.5° | 250.7 | 257.1 | 267.2 | 281.7 | 291.0 |
| 15°   | 234.0 | 241.4 | 254.1 | 273.1 | 285.1 |
| 17.5° | 216.8 | 225.0 | 240.7 | 263.1 | 278.0 |
| 20°   | 199.2 | 207.8 | 226.1 | 251.1 | 269.8 |
| 22.5° | 181.0 | 190.3 | 210.4 | 238.8 | 260.8 |
| 25°   | 162.3 | 172.4 | 194.8 | 226.1 | 251.1 |
| 27.5° | 143.7 | 154.1 | 178.7 | 213.1 | 241.0 |
| 30°   | 125.0 | 135.8 | 161.9 | 199.6 | 230.2 |
| 32.5° | 106.0 | 117.9 | 145.5 | 186.2 | 219.0 |
| 35°   | 86.9  | 99.3  | 129.1 | 171.6 | 207.5 |
| 37.5° | 68.3  | 81.0  | 113.1 | 157.8 | 195.9 |
| 40°   | 50.7  | 63.4  | 97.4  | 144.0 | 184.0 |
| 42.5° | 32.8  | 46.3  | 81.0  | 129.8 | 170.9 |
| 45°   | 17.5  | 29.5  | 65.7  | 116.4 | 157.8 |
| 47.5° | 9.3   | 15.7  | 51.1  | 103.0 | 145.5 |
| 50°   | 7.5   | 8.6   | 37.3  | 89.6  | 132.5 |
| 52.5° | 6.0   | 6.7   | 23.9  | 75.7  | 120.9 |
| 55°   | 4.9   | 5.6   | 13.8  | 64.9  | 109.3 |
| 57.5° | 3.7   | 4.5   | 7.8   | 54.1  | 95.9  |
| 60°   | 3.0   | 3.4   | 6.3   | 43.3  | 82.5  |
| 62.5° | 1.9   | 2.6   | 6.3   | 33.6  | 69.0  |
| 65°   | 1.5   | 1.9   | 6.3   | 23.9  | 55.2  |
| 67.5° | 1.5   | 1.5   | 6.3   | 15.7  | 41.4  |
| 70°   | 1.1   | 1.1   | 6.0   | 10.1  | 28.4  |
| 72.5° | 1.1   | 1.1   | 5.2   | 6.7   | 16.4  |
| 75°   | 1.1   | 1.9   | 4.5   | 4.9   | 6.7   |
| 77.5° | 1.1   | 3.0   | 4.1   | 4.1   | 3.7   |
| 80°   | 1.1   | 3.0   | 3.7   | 3.4   | 3.4   |
| 82.5° | 1.1   | 3.0   | 3.0   | 3.0   | 2.6   |
| 85°   | 1.1   | 2.6   | 3.0   | 2.6   | 2.2   |
| 87.5° | 1.1   | 2.6   | 2.6   | 2.6   | 1.5   |
| 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 | 11.60          | 12.89 | 11.96 | 13.20 | 13.51 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.39          | 13.53 | 12.77 | 13.86 | 14.22 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.41          | 13.47 | 12.82 | 13.82 | 14.21 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.37          | 13.34 | 12.79 | 13.71 | 14.11 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.35          | 13.27 | 12.78 | 13.66 | 14.06 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.33          | 13.21 | 12.76 | 13.59 | 14.02 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 11.38          | 12.44 | 11.79 | 12.79 | 13.18 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.21          | 13.07 | 12.62 | 13.48 | 13.88 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.25          | 13.02 | 12.68 | 13.44 | 13.88 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 12.23          | 12.90 | 12.70 | 13.35 | 13.81 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.15 | 0.62 | 12.22          | 12.84 | 12.69 | 13.29 | 13.76 |
|                 | 12H  | 0.00             | 0.36 | 0.30 | 0.84 | 1.32 | 12.22          | 12.77 | 12.71 | 13.25 | 13.72 |
| 8H              | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.43 | 12.13          | 12.75 | 12.60 | 13.20 | 13.67 |
|                 | 6H   | 0.64             | 1.14 | 1.14 | 1.64 | 2.12 | 12.13          | 12.64 | 12.64 | 13.14 | 13.62 |
|                 | 8H   | 1.59             | 2.05 | 2.12 | 2.56 | 3.05 | 12.14          | 12.60 | 12.66 | 13.11 | 13.60 |
|                 | 12H  | 2.52             | 2.92 | 3.03 | 3.41 | 3.98 | 12.19          | 12.59 | 12.70 | 13.08 | 13.65 |
| 12H             | 4H   | 0.00             | 0.00 | 0.00 | 0.23 | 0.70 | 12.09          | 12.64 | 12.58 | 13.12 | 13.60 |
|                 | 6H   | 1.10             | 1.55 | 1.62 | 2.07 | 2.56 | 12.09          | 12.54 | 12.61 | 13.06 | 13.55 |
|                 | 8H   | 2.23             | 2.63 | 2.75 | 3.13 | 3.70 | 12.13          | 12.53 | 12.65 | 13.03 | 13.60 |