

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: P1058082

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

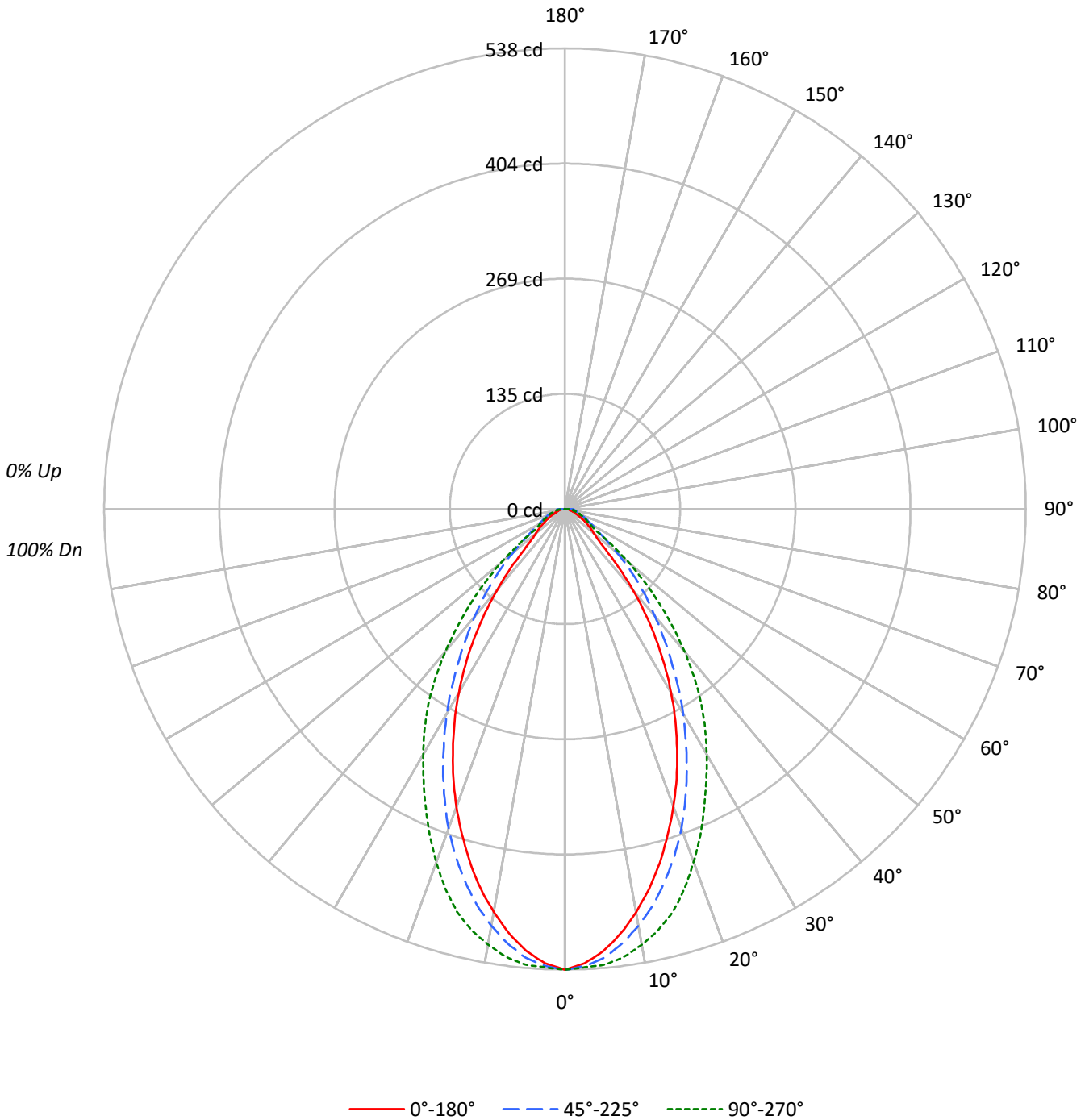
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 652.9 lumens  
Efficiency: N/A  
Efficacy: 25.3 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.8  
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 |    |    |    | 100 |
| 1   | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |    |    |    | 89  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  | 90  | 86  | 84  | 87  | 84  | 82  | 80  |    |    |    | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 83  | 78  | 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   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |    | 59  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |    | 54  |
| 7   | 76  | 65  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 50  |    |    |    | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 47  | 46  |    |    |    | 46  |
| 9   | 67  | 56  | 49  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 42  |    |    |    | 42  |
| 10  | 64  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |    | 39  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9933 | 9933 | 9933 |
| 5°  | 9600 | 9749 | 9897 |
| 10° | 8962 | 9262 | 9681 |
| 15° | 8174 | 8602 | 9305 |
| 20° | 7271 | 7806 | 8622 |
| 25° | 6301 | 6855 | 7833 |
| 30° | 5282 | 5879 | 7055 |
| 35° | 4163 | 4863 | 6251 |
| 40° | 2968 | 3931 | 5220 |
| 45° | 1754 | 3111 | 4050 |
| 50° | 1263 | 2251 | 2756 |
| 55° | 1055 | 1621 | 1390 |
| 60° | 856  | 1299 | 1181 |
| 65° | 699  | 1153 | 1083 |
| 70° | 604  | 1122 | 1036 |
| 75° | 570  | 1141 | 1027 |
| 80° | 595  | 1360 | 1105 |
| 85° | 847  | 2202 | 1355 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4050 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.4   | 7.6       |
| 10°-20°   | 126.8  | 19.4      |
| 20°-30°   | 156.5  | 24.0      |
| 30°-40°   | 139.2  | 21.3      |
| 40°-50°   | 88.9   | 13.6      |
| 50°-60°   | 42.7   | 6.5       |
| 60°-70°   | 25.0   | 3.8       |
| 70°-80°   | 16.0   | 2.4       |
| 80°-90°   | 8.5    | 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°    | 332.7  | 51.0      |
| 0°-40°    | 471.8  | 72.3      |
| 0°-60°    | 603.4  | 92.4      |
| 0°-90°    | 652.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 652.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 538 | 538   | 538 | 538   | 538 |      |
| 5°  | 518 | 528   | 526 | 530   | 534 | 48   |
| 15° | 428 | 438   | 450 | 471   | 487 | 119  |
| 25° | 310 | 322   | 337 | 361   | 385 | 142  |
| 35° | 185 | 199   | 216 | 249   | 278 | 115  |
| 45° | 67  | 87    | 119 | 138   | 155 | 56   |
| 55° | 33  | 42    | 50  | 49    | 43  | 30   |
| 65° | 16  | 29    | 26  | 24    | 25  | 16   |
| 75° | 8   | 18    | 16  | 15    | 14  | 9    |
| 85° | 4   | 10    | 10  | 9     | 6   | 4    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 538.3 | 538.3 | 538.3 | 538.3 | 538.3 |
| 2.5°  | 531.1 | 539.9 | 534.3 | 534.3 | 535.9 |
| 5°    | 518.3 | 527.9 | 526.3 | 529.5 | 534.3 |
| 7.5°  | 499.9 | 510.3 | 511.9 | 520.7 | 527.9 |
| 10°   | 478.3 | 489.5 | 494.3 | 507.1 | 516.7 |
| 12.5° | 454.3 | 465.5 | 474.3 | 490.3 | 503.9 |
| 15°   | 427.9 | 438.3 | 450.3 | 471.1 | 487.1 |
| 17.5° | 399.1 | 412.7 | 424.7 | 446.3 | 464.7 |
| 20°   | 370.3 | 383.1 | 397.5 | 418.3 | 439.1 |
| 22.5° | 340.7 | 352.7 | 367.1 | 388.7 | 412.7 |
| 25°   | 309.5 | 321.5 | 336.7 | 360.7 | 384.7 |
| 27.5° | 279.1 | 291.1 | 305.5 | 331.9 | 357.5 |
| 30°   | 247.9 | 259.9 | 275.9 | 303.1 | 331.1 |
| 32.5° | 216.7 | 229.5 | 245.5 | 275.1 | 304.7 |
| 35°   | 184.8 | 199.2 | 215.9 | 248.7 | 277.5 |
| 37.5° | 153.6 | 168.0 | 188.8 | 220.7 | 247.9 |
| 40°   | 123.2 | 140.0 | 163.2 | 192.0 | 216.7 |
| 42.5° | 93.6  | 112.0 | 140.8 | 164.0 | 185.6 |
| 45°   | 67.2  | 87.2  | 119.2 | 138.4 | 155.2 |
| 47.5° | 51.2  | 65.6  | 98.4  | 113.6 | 125.6 |
| 50°   | 44.0  | 52.8  | 78.4  | 89.6  | 96.0  |
| 52.5° | 38.4  | 46.4  | 62.4  | 68.0  | 68.0  |
| 55°   | 32.8  | 42.4  | 50.4  | 48.8  | 43.2  |
| 57.5° | 28.0  | 38.4  | 41.6  | 35.2  | 36.8  |
| 60°   | 23.2  | 35.2  | 35.2  | 31.2  | 32.0  |
| 62.5° | 19.2  | 32.8  | 30.4  | 27.2  | 28.0  |
| 65°   | 16.0  | 28.8  | 26.4  | 24.0  | 24.8  |
| 67.5° | 12.8  | 25.6  | 23.2  | 21.6  | 21.6  |
| 70°   | 11.2  | 23.2  | 20.8  | 19.2  | 19.2  |
| 72.5° | 9.6   | 20.0  | 18.4  | 16.8  | 16.8  |
| 75°   | 8.0   | 17.6  | 16.0  | 15.2  | 14.4  |
| 77.5° | 7.2   | 15.2  | 14.4  | 12.8  | 12.0  |
| 80°   | 5.6   | 12.8  | 12.8  | 12.0  | 10.4  |
| 82.5° | 4.8   | 11.2  | 11.2  | 10.4  | 8.8   |
| 85°   | 4.0   | 9.6   | 10.4  | 8.8   | 6.4   |
| 87.5° | 3.2   | 8.8   | 8.8   | 7.2   | 4.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)