

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: P1058068

Luminaire Tested: S122RDR-S675D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-BVL-B  
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

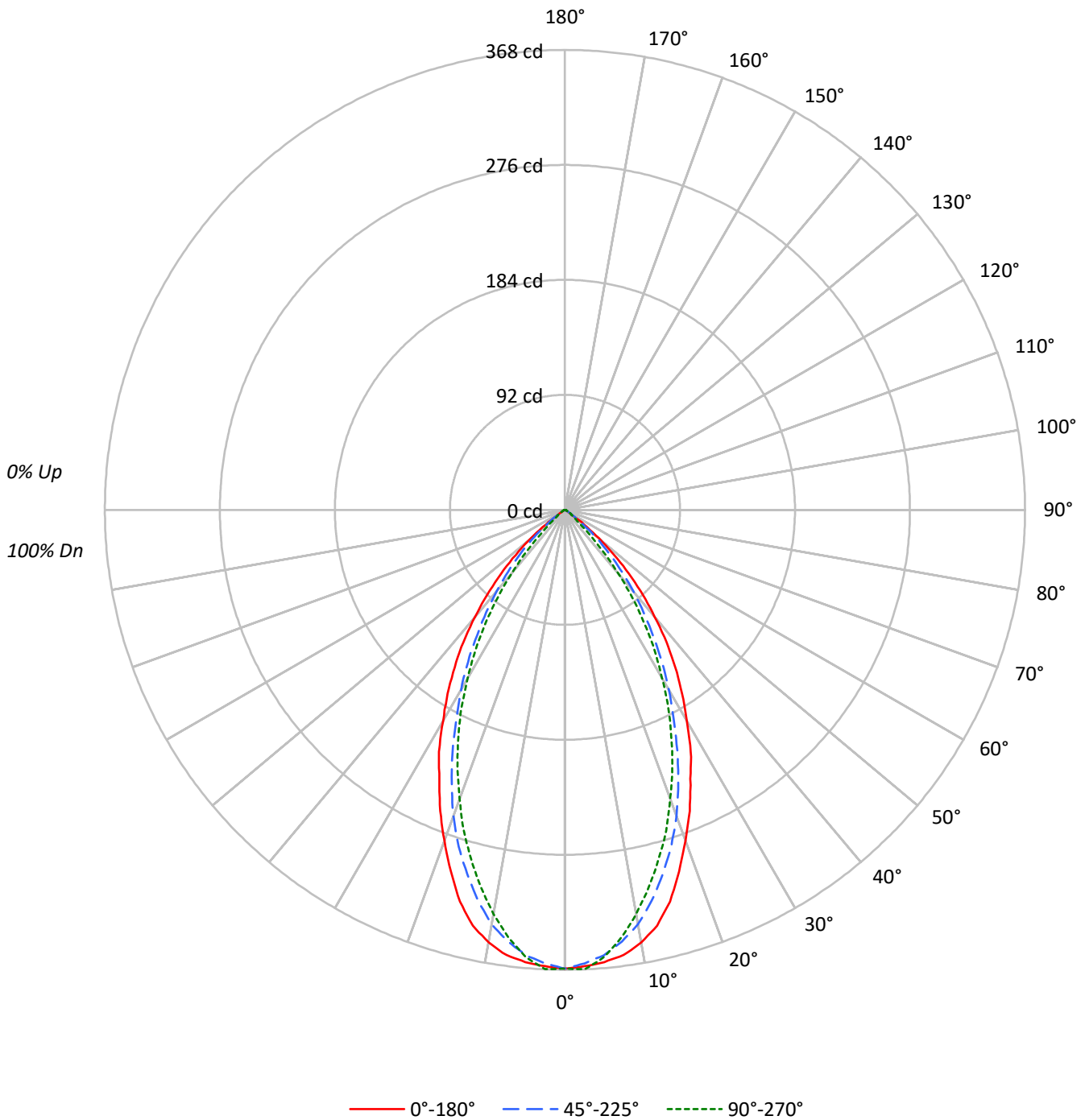
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 345.2 lumens  
Efficiency: N/A  
Efficacy: 13.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88  
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

TEST NUMBER: P1058068

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1058068

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-B

**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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 97  | 93  | 97  | 94  | 91  | 94  | 92  | 89  | 91  | 89  | 87  | 86  |
| 3   | 101 | 95  | 89  | 85  | 99  | 93  | 89  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 81  | 77  | 85  | 80  | 76  | 83  | 79  | 75  | 81  | 77  | 75  | 73  |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  |
| 6   | 86  | 76  | 70  | 66  | 84  | 76  | 70  | 65  | 74  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |
| 7   | 81  | 71  | 65  | 61  | 80  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |
| 8   | 77  | 67  | 61  | 56  | 76  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 54  |
| 9   | 73  | 63  | 57  | 53  | 72  | 62  | 57  | 52  | 61  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  |
| 10  | 69  | 59  | 53  | 49  | 68  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 56  | 52  | 49  | 47  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6774 | 6774 | 6774 |
| 5°  | 6728 | 6626 | 6655 |
| 10° | 6586 | 6311 | 6151 |
| 15° | 6197 | 5767 | 5530 |
| 20° | 5532 | 5119 | 4831 |
| 25° | 4836 | 4329 | 4109 |
| 30° | 4151 | 3539 | 3307 |
| 35° | 3462 | 2762 | 2482 |
| 40° | 2691 | 2038 | 1590 |
| 45° | 1884 | 1357 | 689  |
| 50° | 1025 | 712  | 244  |
| 55° | 151  | 251  | 174  |
| 60° | 30   | 59   | 114  |
| 65° | 0    | 35   | 70   |
| 70° | 0    | 0    | 43   |
| 75° | 0    | 0    | 0    |
| 80° | 0    | 0    | 0    |
| 85° | 0    | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1884 cd/sqm



TEST NUMBER: P1058068

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-B

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.7   | 9.8       |
| 10°-20°   | 85.0   | 24.6      |
| 20°-30°   | 99.1   | 28.7      |
| 30°-40°   | 79.4   | 23.0      |
| 40°-50°   | 39.4   | 11.4      |
| 50°-60°   | 7.8    | 2.3       |
| 60°-70°   | 0.7    | 0.2       |
| 70°-80°   | 0.1    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 217.8  | 63.1      |
| 0°-40°    | 297.2  | 86.1      |
| 0°-60°    | 344.4  | 99.8      |
| 0°-90°    | 345.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 345.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 367 | 367   | 367 | 367   | 367 |      |
| 5°  | 363 | 363   | 358 | 358   | 359 | 34   |
| 15° | 324 | 318   | 302 | 294   | 290 | 90   |
| 25° | 238 | 226   | 213 | 208   | 202 | 109  |
| 35° | 154 | 138   | 123 | 117   | 110 | 96   |
| 45° | 72  | 64    | 52  | 35    | 26  | 56   |
| 55° | 5   | 9     | 8   | 5     | 5   | 9    |
| 65° | 0   | 0     | 1   | 1     | 2   | 0    |
| 75° | 0   | 0     | 0   | 0     | 0   | 0    |
| 85° | 0   | 0     | 0   | 0     | 0   | 0    |
| 90° | 0   | 0     | 0   | 0     | 0   | 0    |



TEST NUMBER: P1058068

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-B

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 367.1 | 367.1 | 367.1 | 367.1 | 367.1 |
| 2.5°  | 365.5 | 367.1 | 363.2 | 367.1 | 367.8 |
| 5°    | 363.2 | 363.2 | 357.7 | 358.5 | 359.3 |
| 7.5°  | 359.3 | 357.7 | 348.4 | 346.9 | 345.3 |
| 10°   | 351.5 | 348.4 | 336.8 | 330.6 | 328.3 |
| 12.5° | 340.7 | 336.0 | 320.5 | 313.5 | 309.6 |
| 15°   | 324.4 | 318.2 | 301.9 | 294.1 | 289.5 |
| 17.5° | 303.4 | 298.0 | 282.5 | 273.9 | 269.3 |
| 20°   | 281.7 | 273.9 | 260.7 | 252.2 | 246.0 |
| 22.5° | 260.7 | 250.7 | 236.7 | 230.5 | 224.3 |
| 25°   | 237.5 | 225.8 | 212.6 | 208.0 | 201.8 |
| 27.5° | 218.1 | 203.3 | 187.8 | 184.7 | 179.3 |
| 30°   | 194.8 | 180.8 | 166.1 | 161.4 | 155.2 |
| 32.5° | 174.6 | 159.1 | 144.3 | 138.9 | 133.5 |
| 35°   | 153.7 | 138.1 | 122.6 | 117.2 | 110.2 |
| 37.5° | 133.5 | 118.7 | 103.2 | 94.7  | 88.5  |
| 40°   | 111.7 | 99.3  | 84.6  | 73.7  | 66.0  |
| 42.5° | 92.3  | 81.5  | 67.5  | 53.5  | 45.8  |
| 45°   | 72.2  | 63.6  | 52.0  | 34.9  | 26.4  |
| 47.5° | 53.5  | 47.3  | 38.0  | 20.2  | 14.0  |
| 50°   | 35.7  | 33.4  | 24.8  | 10.1  | 8.5   |
| 52.5° | 19.4  | 21.0  | 14.7  | 6.2   | 7.0   |
| 55°   | 4.7   | 9.3   | 7.8   | 4.7   | 5.4   |
| 57.5° | 0.8   | 1.6   | 3.9   | 3.9   | 3.9   |
| 60°   | 0.8   | 0.8   | 1.6   | 2.3   | 3.1   |
| 62.5° | 0.8   | 0.0   | 0.8   | 1.6   | 2.3   |
| 65°   | 0.0   | 0.0   | 0.8   | 0.8   | 1.6   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)