

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: P1058079

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-BVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

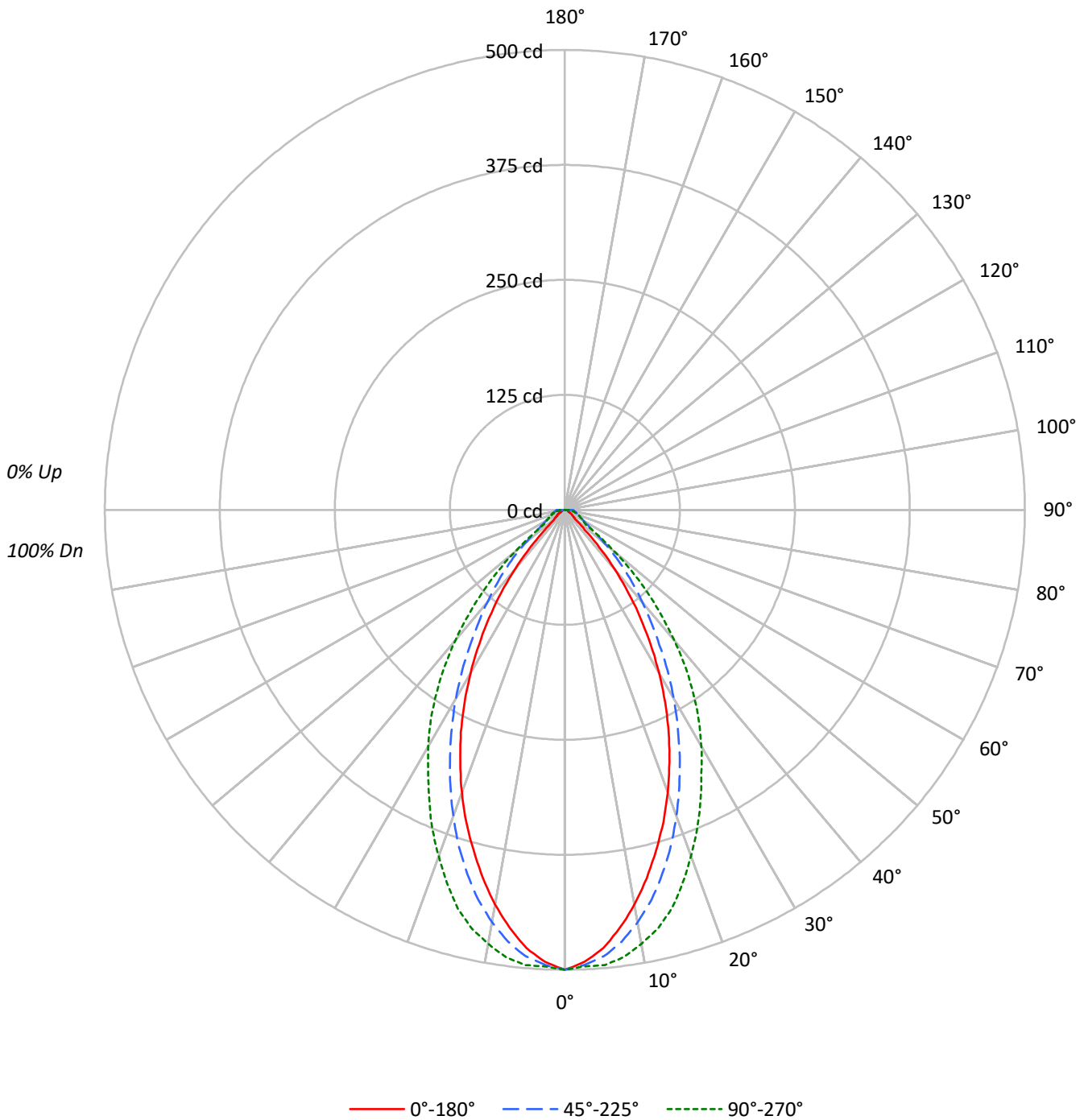
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 544.2 lumens  
Efficiency: N/A  
Efficacy: 21.1 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91  
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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    | 90  |   |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 89  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  |    |    | 81  |   |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 74  |    |    | 74  |   |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 75  | 70  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    | 67  |   |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 61  |    |    | 61  |   |
| 6   | 82  | 72  | 65  | 60  | 80  | 71  | 64  | 59  | 69  | 63  | 59  | 68  | 62  | 58  | 66  | 62  | 58  | 56  |    |    | 56  |   |
| 7   | 77  | 67  | 60  | 55  | 76  | 66  | 59  | 55  | 64  | 59  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 52  |    |    | 52  |   |
| 8   | 73  | 62  | 55  | 51  | 72  | 62  | 55  | 51  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 50  | 48  |    |    | 48  |   |
| 9   | 69  | 58  | 52  | 47  | 68  | 58  | 51  | 47  | 57  | 51  | 47  | 56  | 50  | 47  | 55  | 50  | 46  | 45  |    |    | 45  |   |
| 10  | 66  | 55  | 48  | 44  | 64  | 54  | 48  | 44  | 53  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 42  |    |    | 42  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9226 | 9226 | 9226 |
| 5°  | 8861 | 9024 | 9202 |
| 10° | 8169 | 8529 | 8979 |
| 15° | 7320 | 7825 | 8574 |
| 20° | 6425 | 6959 | 7870 |
| 25° | 5440 | 6010 | 7102 |
| 30° | 4364 | 5046 | 6324 |
| 35° | 3226 | 4037 | 5478 |
| 40° | 2023 | 3160 | 4451 |
| 45° | 793  | 2380 | 3299 |
| 50° | 390  | 1608 | 2021 |
| 55° | 309  | 1055 | 901  |
| 60° | 236  | 856  | 827  |
| 65° | 175  | 803  | 803  |
| 70° | 216  | 820  | 820  |
| 75° | 228  | 913  | 856  |
| 80° | 340  | 1190 | 935  |
| 85° | 677  | 2032 | 1355 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 87.5°  
 Luminance: 3723 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.7   | 8.4       |
| 10°-20°   | 115.5  | 21.2      |
| 20°-30°   | 138.1  | 25.4      |
| 30°-40°   | 116.2  | 21.4      |
| 40°-50°   | 66.2   | 12.2      |
| 50°-60°   | 26.1   | 4.8       |
| 60°-70°   | 16.4   | 3.0       |
| 70°-80°   | 12.2   | 2.2       |
| 80°-90°   | 7.8    | 1.4       |
| 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°    | 299.2  | 55.0      |
| 0°-40°    | 415.5  | 76.3      |
| 0°-60°    | 507.8  | 93.3      |
| 0°-90°    | 544.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 544.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 500 | 500   | 500 | 500   | 500 |      |
| 5°  | 478 | 489   | 487 | 493   | 497 | 44   |
| 15° | 383 | 397   | 410 | 434   | 449 | 107  |
| 25° | 267 | 279   | 295 | 326   | 349 | 122  |
| 35° | 143 | 156   | 179 | 218   | 243 | 89   |
| 45° | 30  | 54    | 91  | 114   | 126 | 29   |
| 55° | 10  | 21    | 33  | 34    | 28  | 9    |
| 65° | 4   | 18    | 18  | 18    | 18  | 4    |
| 75° | 3   | 13    | 13  | 12    | 12  | 3    |
| 85° | 3   | 9     | 10  | 9     | 6   | 3    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 500.0 | 500.0 | 500.0 | 500.0 | 500.0 |
| 2.5°  | 492.0 | 500.8 | 495.2 | 496.0 | 496.8 |
| 5°    | 478.4 | 488.8 | 487.2 | 492.8 | 496.8 |
| 7.5°  | 458.4 | 469.6 | 473.6 | 483.2 | 490.4 |
| 10°   | 436.0 | 448.8 | 455.2 | 470.4 | 479.2 |
| 12.5° | 410.4 | 424.8 | 434.4 | 453.6 | 466.4 |
| 15°   | 383.2 | 396.8 | 409.6 | 433.6 | 448.8 |
| 17.5° | 356.0 | 369.6 | 383.2 | 409.6 | 425.6 |
| 20°   | 327.2 | 340.0 | 354.4 | 382.4 | 400.8 |
| 22.5° | 296.8 | 310.4 | 324.8 | 353.6 | 376.0 |
| 25°   | 267.2 | 279.2 | 295.2 | 325.6 | 348.8 |
| 27.5° | 236.0 | 248.0 | 265.6 | 296.8 | 321.6 |
| 30°   | 204.8 | 216.8 | 236.8 | 268.8 | 296.8 |
| 32.5° | 173.6 | 186.4 | 208.0 | 243.2 | 271.2 |
| 35°   | 143.2 | 156.0 | 179.2 | 217.6 | 243.2 |
| 37.5° | 113.6 | 128.0 | 153.6 | 191.2 | 215.2 |
| 40°   | 84.0  | 100.8 | 131.2 | 164.8 | 184.8 |
| 42.5° | 56.0  | 76.8  | 110.4 | 138.4 | 155.2 |
| 45°   | 30.4  | 53.6  | 91.2  | 114.4 | 126.4 |
| 47.5° | 16.8  | 34.4  | 72.8  | 91.2  | 98.4  |
| 50°   | 13.6  | 24.0  | 56.0  | 69.6  | 70.4  |
| 52.5° | 11.2  | 21.6  | 41.6  | 49.6  | 45.6  |
| 55°   | 9.6   | 20.8  | 32.8  | 33.6  | 28.0  |
| 57.5° | 8.0   | 20.0  | 27.2  | 24.0  | 24.0  |
| 60°   | 6.4   | 20.0  | 23.2  | 21.6  | 22.4  |
| 62.5° | 4.8   | 20.0  | 20.8  | 19.2  | 20.0  |
| 65°   | 4.0   | 18.4  | 18.4  | 17.6  | 18.4  |
| 67.5° | 4.0   | 16.8  | 16.8  | 16.0  | 16.8  |
| 70°   | 4.0   | 16.0  | 15.2  | 15.2  | 15.2  |
| 72.5° | 3.2   | 14.4  | 14.4  | 13.6  | 13.6  |
| 75°   | 3.2   | 12.8  | 12.8  | 12.0  | 12.0  |
| 77.5° | 3.2   | 12.0  | 12.0  | 11.2  | 10.4  |
| 80°   | 3.2   | 10.4  | 11.2  | 10.4  | 8.8   |
| 82.5° | 3.2   | 9.6   | 10.4  | 9.6   | 7.2   |
| 85°   | 3.2   | 8.8   | 9.6   | 8.8   | 6.4   |
| 87.5° | 2.4   | 8.8   | 8.8   | 7.2   | 4.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)