

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: P996175

Luminaire Tested: S123DRP-B340DB50-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DRP-B340DB50-4F0-XX-W2A-F  
Description: Define 3 Direct Perimeter with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

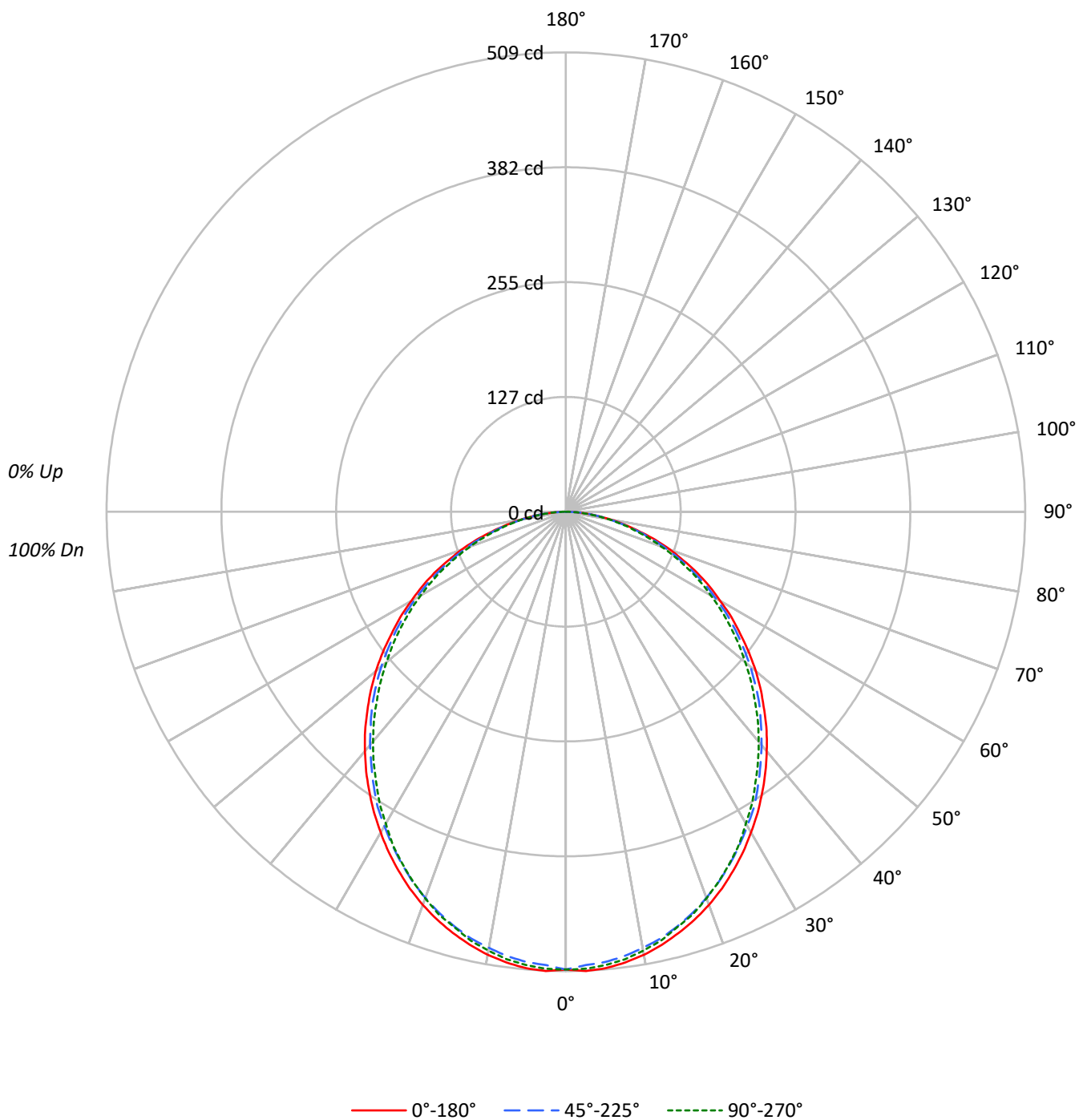
Lumens per Lamp: N/A  
Luminaire Lumens: 1320.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
Input Voltage (V):  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  |  | 82  | 78  | 74  |  | 79  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 67  | 63  |  | 70  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  |  | 58  | 52  | 47  |  | 57  |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  |  | 44  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5459 | 5459 | 5459 |
| 5°  | 5485 | 5410 | 5447 |
| 10° | 5449 | 5362 | 5396 |
| 15° | 5385 | 5302 | 5312 |
| 20° | 5310 | 5215 | 5220 |
| 25° | 5210 | 5112 | 5102 |
| 30° | 5101 | 4998 | 4959 |
| 35° | 4985 | 4876 | 4813 |
| 40° | 4866 | 4742 | 4669 |
| 45° | 4733 | 4620 | 4507 |
| 50° | 4600 | 4469 | 4346 |
| 55° | 4427 | 4312 | 4183 |
| 60° | 4254 | 4131 | 4000 |
| 65° | 4098 | 3933 | 3810 |
| 70° | 3871 | 3704 | 3541 |
| 75° | 3535 | 3410 | 3265 |
| 80° | 3192 | 3056 | 3025 |
| 85° | 2803 | 2692 | 2581 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4733 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.8   | 3.6       |
| 10°-20°   | 135.0  | 10.2      |
| 20°-30°   | 199.4  | 15.1      |
| 30°-40°   | 232.9  | 17.6      |
| 40°-50°   | 234.1  | 17.7      |
| 50°-60°   | 205.7  | 15.6      |
| 60°-70°   | 153.2  | 11.6      |
| 70°-80°   | 87.2   | 6.6       |
| 80°-90°   | 24.8   | 1.9       |
| 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°    | 382.2  | 29.0      |
| 0°-40°    | 615.1  | 46.6      |
| 0°-60°    | 1054.9 | 79.9      |
| 0°-90°    | 1320.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1320.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 507 | 507   | 507 | 507   | 507 |      |
| 5°  | 508 | 505   | 501 | 505   | 504 | 48   |
| 15° | 483 | 482   | 476 | 479   | 477 | 136  |
| 25° | 439 | 436   | 430 | 431   | 430 | 202  |
| 35° | 379 | 377   | 371 | 368   | 366 | 237  |
| 45° | 311 | 309   | 304 | 298   | 296 | 240  |
| 55° | 236 | 236   | 230 | 225   | 223 | 211  |
| 65° | 161 | 159   | 154 | 151   | 150 | 159  |
| 75° | 85  | 83    | 82  | 80    | 78  | 91   |
| 85° | 23  | 22    | 22  | 21    | 21  | 26   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 507.2 | 507.2 | 507.2 | 507.2 | 507.2 |
| 2.5°  | 509.4 | 507.6 | 502.8 | 507.2 | 506.8 |
| 5°    | 507.6 | 505.4 | 500.7 | 505.0 | 504.1 |
| 7.5°  | 503.7 | 501.5 | 496.7 | 500.7 | 500.2 |
| 10°   | 498.5 | 496.3 | 490.6 | 494.5 | 493.7 |
| 12.5° | 491.5 | 489.7 | 484.5 | 487.1 | 486.7 |
| 15°   | 483.2 | 481.5 | 475.8 | 479.3 | 476.7 |
| 17.5° | 474.0 | 471.9 | 466.2 | 468.8 | 467.9 |
| 20°   | 463.6 | 461.0 | 455.3 | 457.0 | 455.7 |
| 22.5° | 451.8 | 449.2 | 443.5 | 444.8 | 443.1 |
| 25°   | 438.7 | 436.1 | 430.4 | 430.9 | 429.6 |
| 27.5° | 425.2 | 422.6 | 416.5 | 416.9 | 415.6 |
| 30°   | 410.4 | 408.2 | 402.1 | 402.1 | 399.0 |
| 32.5° | 395.5 | 392.5 | 388.1 | 385.1 | 383.8 |
| 35°   | 379.4 | 376.8 | 371.1 | 368.5 | 366.3 |
| 37.5° | 363.3 | 359.8 | 354.1 | 351.1 | 349.8 |
| 40°   | 346.3 | 343.7 | 337.5 | 334.1 | 332.3 |
| 42.5° | 329.3 | 326.2 | 320.1 | 316.6 | 314.9 |
| 45°   | 310.9 | 309.2 | 303.5 | 298.3 | 296.1 |
| 47.5° | 293.1 | 290.4 | 285.2 | 280.0 | 278.2 |
| 50°   | 274.7 | 272.6 | 266.9 | 262.1 | 259.5 |
| 52.5° | 255.6 | 254.3 | 248.1 | 244.2 | 241.6 |
| 55°   | 235.9 | 235.5 | 229.8 | 225.0 | 222.9 |
| 57.5° | 217.6 | 215.9 | 211.5 | 207.2 | 204.5 |
| 60°   | 197.6 | 197.1 | 191.9 | 188.0 | 185.8 |
| 62.5° | 179.7 | 178.4 | 173.1 | 169.2 | 167.9 |
| 65°   | 160.9 | 158.7 | 154.4 | 150.9 | 149.6 |
| 67.5° | 140.9 | 139.1 | 135.6 | 132.6 | 130.8 |
| 70°   | 123.0 | 120.4 | 117.7 | 114.7 | 112.5 |
| 72.5° | 104.2 | 102.5 | 99.4  | 96.8  | 95.9  |
| 75°   | 85.0  | 83.3  | 82.0  | 79.8  | 78.5  |
| 77.5° | 68.0  | 67.2  | 65.4  | 63.7  | 63.7  |
| 80°   | 51.5  | 50.2  | 49.3  | 48.8  | 48.8  |
| 82.5° | 35.3  | 35.3  | 35.3  | 34.5  | 34.0  |
| 85°   | 22.7  | 21.8  | 21.8  | 20.9  | 20.9  |
| 87.5° | 11.3  | 10.0  | 9.6   | 9.2   | 9.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)