

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: P1007561

Luminaire Tested: S123IP-B585UB27-4F0-XX-W2A

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123IP-B585UB27-4F0-XX-W2A  
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

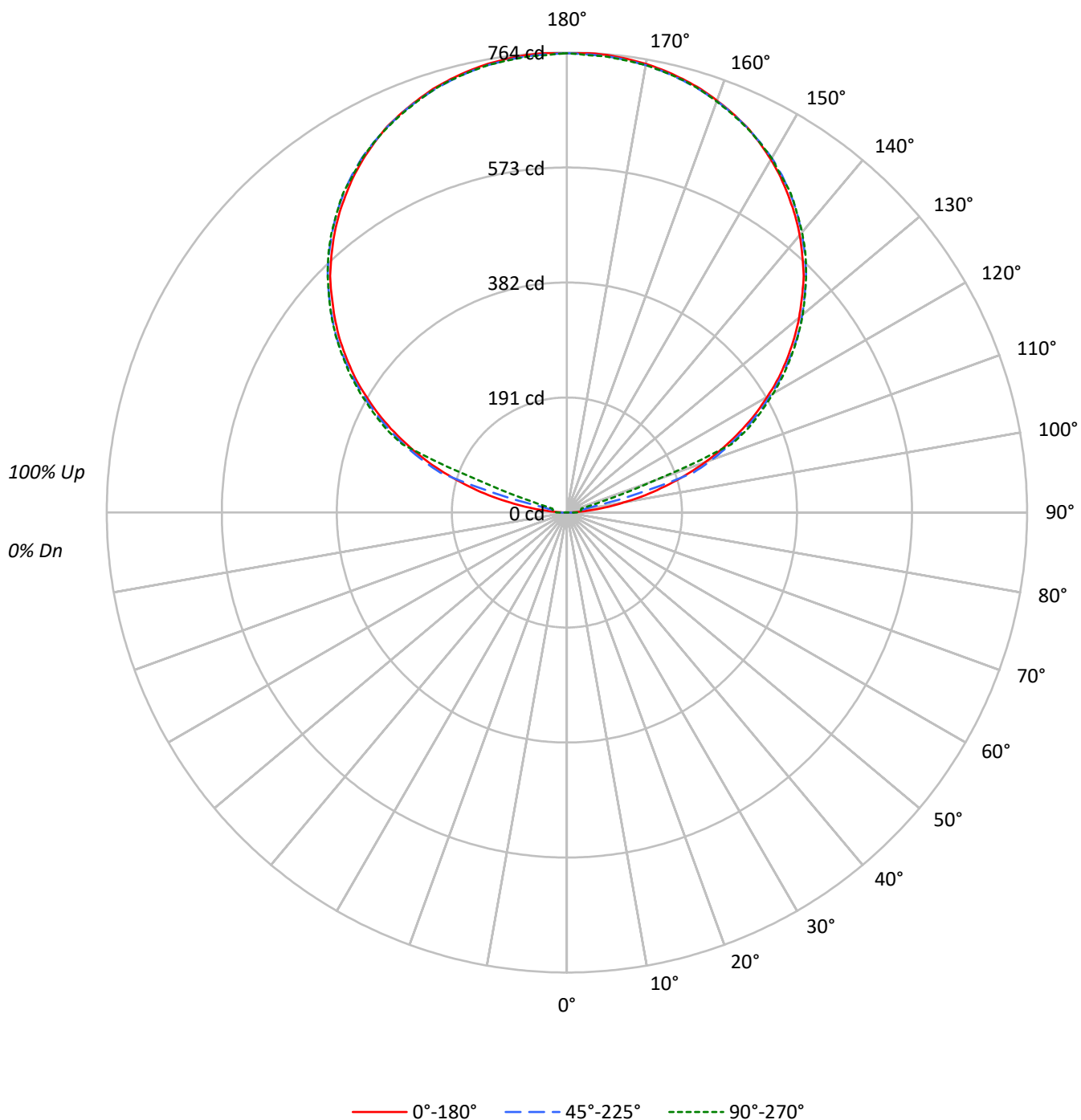
Lumens per Lamp: N/A  
Luminaire Lumens: 2327.0 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 15.4  
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 | 30 | 10 |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  |

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

|     | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0°  | 0  | 0   | 0   |
| 5°  | 0  | 0   | 0   |
| 10° | 0  | 0   | 0   |
| 15° | 0  | 0   | 0   |
| 20° | 0  | 0   | 0   |
| 25° | 0  | 0   | 0   |
| 30° | 0  | 0   | 0   |
| 35° | 0  | 0   | 0   |
| 40° | 0  | 0   | 0   |
| 45° | 0  | 0   | 0   |
| 50° | 0  | 0   | 0   |
| 55° | 0  | 0   | 0   |
| 60° | 0  | 0   | 0   |
| 65° | 0  | 0   | 0   |
| 70° | 0  | 0   | 0   |
| 75° | 0  | 0   | 0   |
| 80° | 0  | 0   | 0   |
| 85° | 0  | 0   | 0   |

**MAXIMUM LUMINANCE 45°-90°:**

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

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 1.5    | 0.1       |
| 90°-100°  | 26.9   | 1.2       |
| 100°-110° | 130.1  | 5.6       |
| 110°-120° | 318.7  | 13.7      |
| 120°-130° | 404.6  | 17.4      |
| 130°-140° | 432.2  | 18.6      |
| 140°-150° | 404.2  | 17.4      |
| 150°-160° | 326.0  | 14.0      |
| 160°-170° | 210.4  | 9.0       |
| 170°-180° | 72.5   | 3.1       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.5    | 0.1       |
| 90°-120°  | 475.6  | 20.4      |
| 90°-150°  | 1716.6 | 73.8      |
| 90°-180°  | 2325.0 | 99.9      |
| 0°-180°   | 2327.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 0   | 0     | 0   | 0     | 0   |      |
| 5°   | 0   | 0     | 0   | 0     | 0   | 0    |
| 15°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 25°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 35°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 45°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 55°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 65°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 75°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 85°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 90°  | 1   | 6     | 14  | 16    | 17  | 2    |
| 95°  | 35  | 11    | 18  | 22    | 22  | 41   |
| 105° | 169 | 175   | 124 | 24    | 25  | 179  |
| 115° | 317 | 320   | 325 | 331   | 333 | 313  |
| 125° | 447 | 451   | 453 | 454   | 456 | 399  |
| 135° | 556 | 559   | 562 | 563   | 562 | 428  |
| 145° | 642 | 646   | 647 | 648   | 648 | 402  |
| 155° | 707 | 706   | 706 | 709   | 706 | 326  |
| 165° | 745 | 744   | 743 | 748   | 744 | 211  |
| 175° | 763 | 760   | 760 | 764   | 760 | 73   |
| 180° | 763 | 763   | 763 | 763   | 763 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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°    | 0.6   | 6.2   | 13.6  | 15.9  | 17.0  |
| 92.5°  | 13.0  | 9.6   | 14.7  | 18.7  | 19.3  |
| 95°    | 34.6  | 11.3  | 17.6  | 21.5  | 21.5  |
| 97.5°  | 62.9  | 47.0  | 18.1  | 22.7  | 23.2  |
| 100°   | 95.8  | 107.1 | 18.7  | 23.2  | 23.8  |
| 102.5° | 133.2 | 140.5 | 41.9  | 23.2  | 24.4  |
| 105°   | 168.9 | 175.1 | 124.1 | 23.8  | 24.9  |
| 107.5° | 206.9 | 212.0 | 220.5 | 133.2 | 58.9  |
| 110°   | 244.8 | 249.4 | 255.6 | 236.9 | 155.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 281.1 | 285.1 | 291.3 | 296.4 | 295.3 |
| 115°   | 316.8 | 320.2 | 325.3 | 331.0 | 333.2 |
| 117.5° | 351.9 | 355.9 | 358.7 | 363.3 | 363.8 |
| 120°   | 384.2 | 389.3 | 391.0 | 395.6 | 395.6 |
| 122.5° | 417.1 | 421.1 | 423.3 | 426.2 | 426.7 |
| 125°   | 446.6 | 451.1 | 453.4 | 454.5 | 455.6 |
| 127.5° | 476.0 | 480.6 | 483.4 | 485.1 | 484.0 |
| 130°   | 503.2 | 507.8 | 510.0 | 512.3 | 511.2 |
| 132.5° | 529.3 | 533.9 | 535.6 | 537.8 | 536.1 |
| 135°   | 556.0 | 559.4 | 561.6 | 563.3 | 561.6 |
| 137.5° | 578.6 | 583.2 | 584.3 | 587.1 | 586.0 |
| 140°   | 601.3 | 604.7 | 606.4 | 608.7 | 607.5 |
| 142.5° | 622.3 | 625.7 | 627.4 | 629.1 | 627.4 |
| 145°   | 641.5 | 645.5 | 646.6 | 647.8 | 647.8 |
| 147.5° | 660.2 | 663.1 | 664.2 | 665.3 | 662.5 |
| 150°   | 677.2 | 678.9 | 680.1 | 681.2 | 679.5 |
| 152.5° | 692.5 | 693.1 | 693.7 | 695.9 | 693.1 |
| 155°   | 706.7 | 705.6 | 706.1 | 709.0 | 705.6 |
| 157.5° | 718.0 | 718.0 | 717.5 | 720.9 | 716.3 |
| 160°   | 728.2 | 727.7 | 727.1 | 730.5 | 726.5 |
| 162.5° | 737.9 | 736.2 | 735.6 | 739.6 | 736.2 |
| 165°   | 745.2 | 743.5 | 743.0 | 747.5 | 743.5 |
| 167.5° | 751.5 | 749.2 | 749.2 | 753.7 | 749.2 |
| 170°   | 756.6 | 754.3 | 754.3 | 758.8 | 754.3 |
| 172.5° | 760.0 | 757.1 | 757.7 | 762.2 | 757.1 |
| 175°   | 762.8 | 760.0 | 760.5 | 764.5 | 760.0 |
| 177.5° | 763.9 | 761.1 | 761.7 | 766.2 | 760.5 |
| 180°   | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 |

(END OF REPORT)