

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: P1011194

Luminaire Tested: S123DIP-B1000D585UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011194  
REPORT IS A COMBINATION OF REPORTS P989257 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D585UB50-4F0-XX-W2A-F1  
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

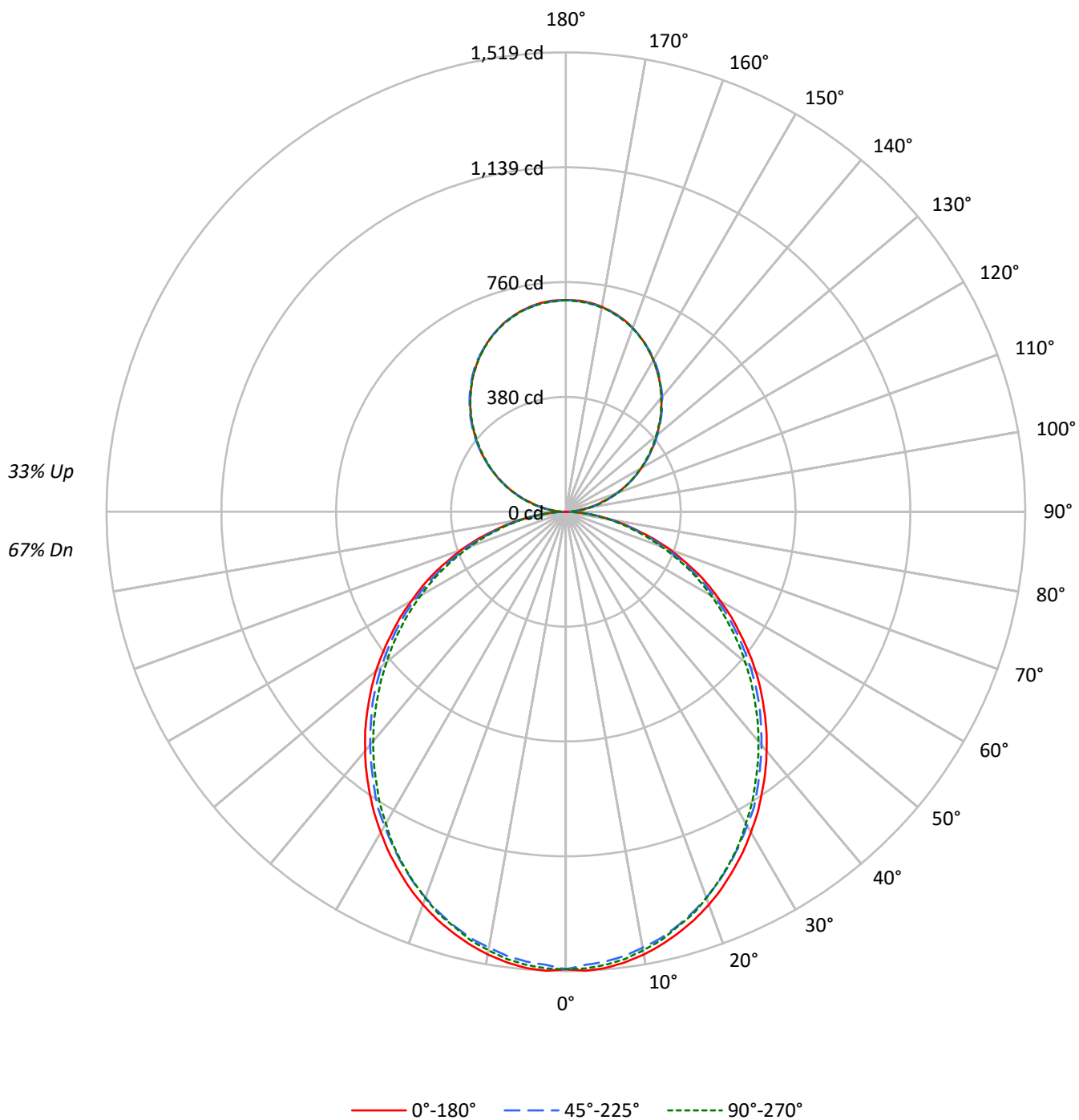
Lumens per Lamp: N/A  
Luminaire Lumens: 5877.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 62.2  
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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 |
| 1   | 102 | 97  | 93  | 89  | 96  | 92  | 88  | 85  | 81 | 79 | 76 | 72 | 70 | 68 | 63 | 62 | 60 |
| 2   | 92  | 85  | 78  | 73  | 87  | 80  | 74  | 70  | 71 | 67 | 63 | 63 | 60 | 57 | 56 | 53 | 51 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 64  | 58  | 63 | 57 | 53 | 56 | 52 | 48 | 49 | 46 | 43 |
| 4   | 77  | 66  | 58  | 52  | 72  | 63  | 55  | 49  | 56 | 50 | 45 | 50 | 45 | 41 | 44 | 40 | 37 |
| 5   | 71  | 59  | 50  | 44  | 67  | 56  | 48  | 43  | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 32 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 29 |
| 7   | 61  | 48  | 40  | 34  | 57  | 46  | 38  | 33  | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 25 |
| 8   | 56  | 44  | 36  | 30  | 53  | 41  | 34  | 29  | 38 | 31 | 27 | 34 | 29 | 25 | 30 | 26 | 23 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16283 | 16283 | 16283 |
| 5°  | 16323 | 15721 | 15697 |
| 10° | 16178 | 15189 | 15033 |
| 15° | 15953 | 14635 | 14309 |
| 20° | 15696 | 14022 | 13592 |
| 25° | 15362 | 13373 | 12824 |
| 30° | 14997 | 12702 | 12018 |
| 35° | 14614 | 12016 | 11216 |
| 40° | 14214 | 11298 | 10428 |
| 45° | 13773 | 10596 | 9603  |
| 50° | 13326 | 9815  | 8776  |
| 55° | 12751 | 9001  | 7939  |
| 60° | 12158 | 8103  | 7047  |
| 65° | 11603 | 7132  | 6116  |
| 70° | 10802 | 6054  | 5032  |
| 75° | 9647  | 4793  | 3906  |
| 80° | 8333  | 3369  | 2763  |
| 85° | 6493  | 1810  | 1383  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13773 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.6  | 2.4       |
| 10°-20°   | 402.7  | 6.9       |
| 20°-30°   | 594.7  | 10.1      |
| 30°-40°   | 694.6  | 11.8      |
| 40°-50°   | 698.3  | 11.9      |
| 50°-60°   | 613.4  | 10.4      |
| 60°-70°   | 456.8  | 7.8       |
| 70°-80°   | 260.0  | 4.4       |
| 80°-90°   | 75.4   | 1.3       |
| 90°-100°  | 45.0   | 0.8       |
| 100°-110° | 136.3  | 2.3       |
| 110°-120° | 232.1  | 3.9       |
| 120°-130° | 305.3  | 5.2       |
| 130°-140° | 343.2  | 5.8       |
| 140°-150° | 337.4  | 5.7       |
| 150°-160° | 284.0  | 4.8       |
| 160°-170° | 189.1  | 3.2       |
| 170°-180° | 66.2   | 1.1       |
| 0°-30°    | 1140.0 | 19.4      |
| 0°-40°    | 1834.6 | 31.2      |
| 0°-60°    | 3146.3 | 53.5      |
| 0°-90°    | 3938.5 | 67.0      |
| 90°-120°  | 413.4  | 7.0       |
| 90°-150°  | 1399.2 | 23.8      |
| 90°-180°  | 1939.0 | 33.0      |
| 0°-180°   | 5877.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1513 | 1513  | 1513 | 1513  | 1513 |      |
| 5°   | 1514 | 1508  | 1493 | 1506  | 1504 | 144  |
| 15°  | 1441 | 1436  | 1419 | 1430  | 1422 | 406  |
| 25°  | 1308 | 1301  | 1284 | 1285  | 1281 | 603  |
| 35°  | 1132 | 1124  | 1107 | 1099  | 1093 | 708  |
| 45°  | 927  | 922   | 905  | 890   | 883  | 716  |
| 55°  | 704  | 702   | 686  | 671   | 665  | 630  |
| 65°  | 480  | 474   | 460  | 450   | 446  | 474  |
| 75°  | 254  | 248   | 244  | 238   | 234  | 271  |
| 85°  | 68   | 65    | 65   | 62    | 62   | 73   |
| 90°  | 0    | 6     | 13   | 15    | 16   | 7    |
| 95°  | 32   | 36    | 41   | 43    | 43   | 36   |
| 105° | 124  | 125   | 130  | 130   | 131  | 132  |
| 115° | 234  | 235   | 234  | 235   | 234  | 231  |
| 125° | 342  | 344   | 342  | 340   | 338  | 305  |
| 135° | 444  | 447   | 446  | 444   | 443  | 342  |
| 145° | 538  | 539   | 541  | 540   | 538  | 336  |
| 155° | 616  | 616   | 617  | 619   | 615  | 284  |
| 165° | 671  | 669   | 669  | 673   | 669  | 189  |
| 175° | 698  | 696   | 696  | 699   | 695  | 66   |
| 180° | 700  | 700   | 700  | 700   | 700  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1512.7 | 1512.7 | 1512.7 | 1512.7 | 1512.7 |
| 2.5°   | 1519.2 | 1514.0 | 1499.7 | 1512.7 | 1511.4 |
| 5°     | 1514.0 | 1507.5 | 1493.2 | 1506.2 | 1503.6 |
| 7.5°   | 1502.3 | 1495.8 | 1481.5 | 1493.2 | 1491.9 |
| 10°    | 1486.7 | 1480.2 | 1463.3 | 1475.0 | 1472.4 |
| 12.5°  | 1465.9 | 1460.7 | 1445.1 | 1452.9 | 1451.6 |
| 15°    | 1441.2 | 1436.0 | 1419.1 | 1429.5 | 1421.7 |
| 17.5°  | 1413.9 | 1407.4 | 1390.5 | 1398.3 | 1395.7 |
| 20°    | 1382.7 | 1374.9 | 1358.0 | 1363.2 | 1359.3 |
| 22.5°  | 1347.6 | 1339.7 | 1322.8 | 1326.7 | 1321.5 |
| 25°    | 1308.5 | 1300.7 | 1283.8 | 1285.1 | 1281.2 |
| 27.5°  | 1268.2 | 1260.4 | 1242.2 | 1243.5 | 1239.6 |
| 30°    | 1224.0 | 1217.5 | 1199.3 | 1199.3 | 1190.2 |
| 32.5°  | 1179.8 | 1170.7 | 1157.6 | 1148.5 | 1144.6 |
| 35°    | 1131.6 | 1123.8 | 1106.9 | 1099.1 | 1092.6 |
| 37.5°  | 1083.5 | 1073.1 | 1056.2 | 1047.1 | 1043.2 |
| 40°    | 1032.8 | 1025.0 | 1006.8 | 996.4  | 991.2  |
| 42.5°  | 982.0  | 972.9  | 954.7  | 944.3  | 939.1  |
| 45°    | 927.4  | 922.2  | 905.3  | 889.7  | 883.2  |
| 47.5°  | 874.1  | 866.3  | 850.7  | 835.1  | 829.9  |
| 50°    | 819.5  | 813.0  | 796.0  | 781.7  | 773.9  |
| 52.5°  | 762.2  | 758.3  | 740.1  | 728.4  | 720.6  |
| 55°    | 703.7  | 702.4  | 685.5  | 671.2  | 664.7  |
| 57.5°  | 649.1  | 643.9  | 630.9  | 617.8  | 610.0  |
| 60°    | 589.2  | 587.9  | 572.3  | 560.6  | 554.1  |
| 62.5°  | 535.9  | 532.0  | 516.4  | 504.7  | 500.8  |
| 65°    | 480.0  | 473.5  | 460.5  | 450.1  | 446.1  |
| 67.5°  | 420.1  | 414.9  | 404.5  | 395.4  | 390.2  |
| 70°    | 366.8  | 359.0  | 351.2  | 342.1  | 335.6  |
| 72.5°  | 310.9  | 305.7  | 296.6  | 288.8  | 286.2  |
| 75°    | 253.6  | 248.4  | 244.5  | 238.0  | 234.1  |
| 77.5°  | 202.9  | 200.3  | 195.1  | 189.9  | 189.9  |
| 80°    | 153.5  | 149.6  | 147.0  | 145.7  | 145.7  |
| 82.5°  | 105.4  | 105.4  | 105.4  | 102.8  | 101.5  |
| 85°    | 67.6   | 65.0   | 65.0   | 62.4   | 62.4   |
| 87.5°  | 33.8   | 29.9   | 28.6   | 27.3   | 27.3   |
| 90°    | 0.5    | 6.0    | 13.2   | 15.4   | 16.5   |
| 92.5°  | 16.5   | 19.8   | 23.1   | 24.7   | 23.6   |
| 95°    | 32.4   | 36.3   | 40.7   | 42.9   | 42.9   |
| 97.5°  | 53.3   | 56.1   | 59.4   | 62.1   | 61.6   |
| 100°   | 74.7   | 78.0   | 80.8   | 82.4   | 83.5   |
| 102.5° | 99.5   | 101.1  | 105.0  | 106.6  | 106.1  |
| 105°   | 123.7  | 124.8  | 129.7  | 129.7  | 130.8  |
| 107.5° | 152.2  | 152.8  | 155.0  | 156.6  | 156.1  |
| 110°   | 178.6  | 179.7  | 180.8  | 183.0  | 181.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 206.1 | 206.6 | 206.6 | 209.4 | 209.4 |
| 115°   | 233.6 | 235.2 | 234.1 | 234.7 | 234.1 |
| 117.5° | 261.6 | 262.2 | 261.1 | 261.1 | 259.4 |
| 120°   | 287.4 | 290.7 | 288.0 | 287.4 | 286.3 |
| 122.5° | 314.4 | 316.6 | 315.5 | 313.8 | 312.2 |
| 125°   | 341.8 | 343.5 | 342.4 | 340.2 | 338.0 |
| 127.5° | 367.1 | 370.4 | 369.3 | 366.0 | 363.8 |
| 130°   | 392.4 | 396.8 | 395.2 | 393.0 | 389.1 |
| 132.5° | 417.7 | 422.1 | 421.0 | 418.2 | 415.5 |
| 135°   | 443.5 | 446.8 | 446.3 | 444.1 | 443.0 |
| 137.5° | 467.1 | 469.9 | 471.5 | 468.8 | 467.1 |
| 140°   | 491.9 | 494.6 | 495.2 | 494.6 | 490.8 |
| 142.5° | 514.4 | 517.2 | 518.3 | 517.7 | 515.0 |
| 145°   | 538.0 | 539.1 | 540.8 | 540.2 | 538.0 |
| 147.5° | 558.4 | 560.6 | 562.2 | 562.2 | 558.9 |
| 150°   | 579.8 | 580.9 | 582.0 | 582.0 | 578.7 |
| 152.5° | 597.4 | 599.0 | 599.6 | 600.7 | 597.9 |
| 155°   | 616.1 | 616.1 | 616.6 | 618.8 | 615.0 |
| 157.5° | 632.0 | 631.5 | 632.0 | 634.2 | 630.9 |
| 160°   | 646.9 | 645.8 | 645.8 | 648.5 | 646.3 |
| 162.5° | 660.1 | 658.4 | 659.0 | 661.7 | 657.9 |
| 165°   | 671.0 | 669.4 | 669.4 | 672.7 | 668.8 |
| 167.5° | 680.4 | 678.2 | 678.7 | 682.0 | 678.7 |
| 170°   | 688.1 | 685.9 | 685.9 | 689.7 | 685.9 |
| 172.5° | 694.1 | 691.9 | 691.9 | 695.2 | 691.4 |
| 175°   | 698.0 | 695.8 | 695.8 | 699.1 | 695.2 |
| 177.5° | 700.2 | 698.0 | 698.0 | 701.3 | 697.4 |
| 180°   | 699.6 | 699.6 | 699.6 | 699.6 | 699.6 |

(END OF REPORT)