

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: P1008110

Luminaire Tested: S122DIP-B485D530UB2750-4F0-XX-W2A-F\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008110  
REPORT IS A COMBINATION OF REPORTS P984258 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B485D530UB2750-4F0-XX-W2A-F\_3000K  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

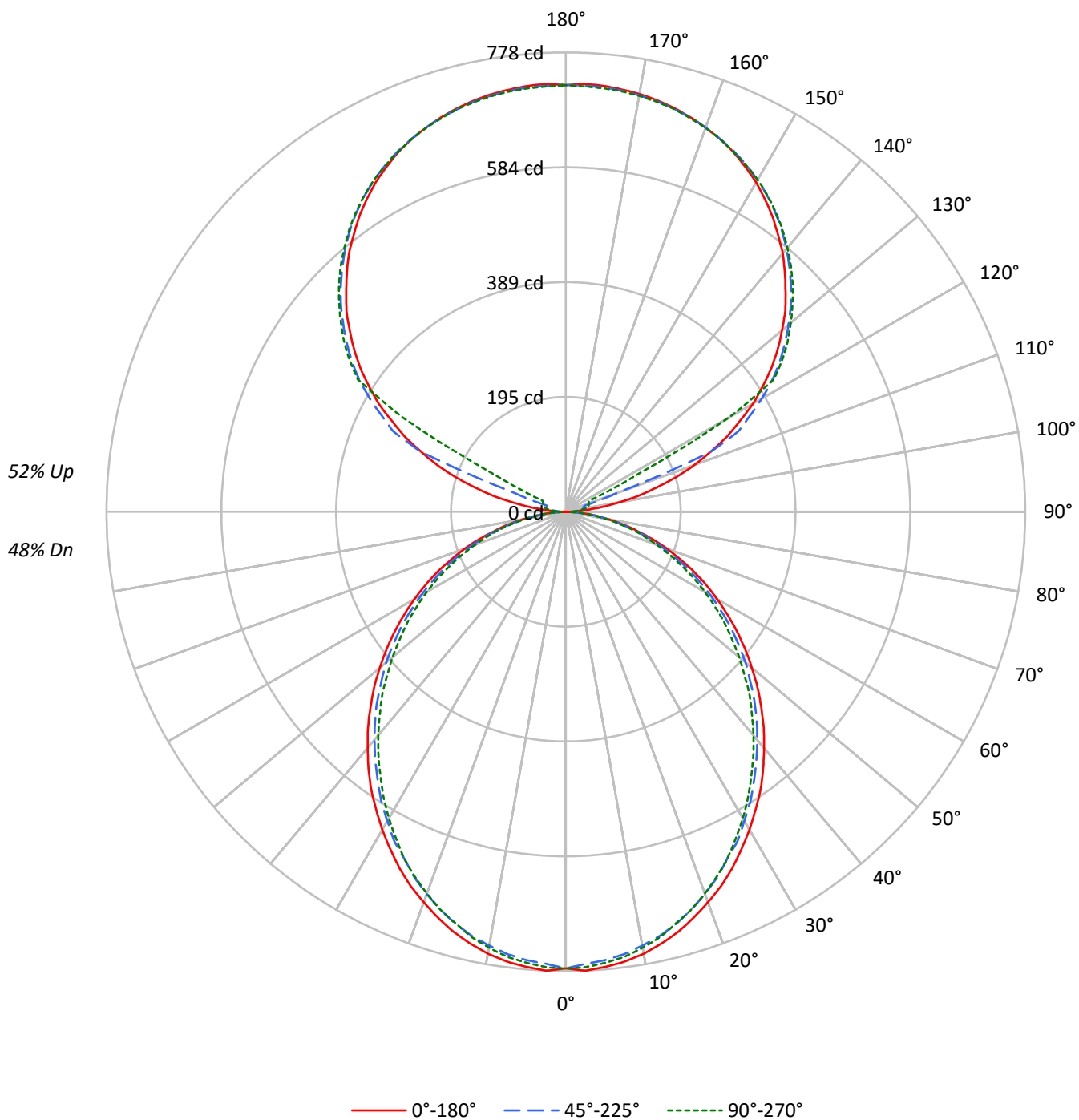
Lumens per Lamp: N/A  
Luminaire Lumens: 4088.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 39.4  
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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 | 48 | 48 |
| 1   | 97  | 93  | 89  | 86  | 89 | 86 | 82 | 79 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 | 41 | 41 | 41 |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | 34 | 34 | 34 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 | 29 | 29 |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 | 25 | 25 | 25 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 | 21 | 21 |
| 6   | 63  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 | 19 | 19 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 30 | 26 | 23 | 25 | 22 | 19 | 17 | 17 | 17 |
| 8   | 54  | 41  | 34  | 28  | 49 | 38 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 20 | 23 | 20 | 17 | 15 | 15 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 16 | 14 | 14 | 14 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 | 12 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12244 | 12244 | 12244 |
| 5°  | 12264 | 11672 | 11588 |
| 10° | 12164 | 11139 | 10918 |
| 15° | 11986 | 10603 | 10214 |
| 20° | 11745 | 10020 | 9546  |
| 25° | 11505 | 9411  | 8879  |
| 30° | 11204 | 8840  | 8180  |
| 35° | 10918 | 8236  | 7492  |
| 40° | 10567 | 7641  | 6843  |
| 45° | 10217 | 7050  | 6206  |
| 50° | 9836  | 6449  | 5545  |
| 55° | 9433  | 5807  | 4919  |
| 60° | 8982  | 5109  | 4268  |
| 65° | 8489  | 4404  | 3584  |
| 70° | 7860  | 3628  | 2894  |
| 75° | 6993  | 2796  | 2236  |
| 80° | 5940  | 1900  | 1438  |
| 85° | 4308  | 884   | 611   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.8   | 1.8       |
| 10°-20°   | 204.8  | 5.0       |
| 20°-30°   | 301.0  | 7.4       |
| 30°-40°   | 349.6  | 8.6       |
| 40°-50°   | 349.2  | 8.5       |
| 50°-60°   | 304.5  | 7.4       |
| 60°-70°   | 225.1  | 5.5       |
| 70°-80°   | 127.3  | 3.1       |
| 80°-90°   | 34.9   | 0.9       |
| 90°-100°  | 23.8   | 0.6       |
| 100°-110° | 88.8   | 2.2       |
| 110°-120° | 235.6  | 5.8       |
| 120°-130° | 390.8  | 9.6       |
| 130°-140° | 415.1  | 10.2      |
| 140°-150° | 385.8  | 9.4       |
| 150°-160° | 310.2  | 7.6       |
| 160°-170° | 199.9  | 4.9       |
| 170°-180° | 68.8   | 1.7       |
| 0°-30°    | 578.7  | 14.2      |
| 0°-40°    | 928.3  | 22.7      |
| 0°-60°    | 1582.0 | 38.7      |
| 0°-90°    | 1969.3 | 48.2      |
| 90°-120°  | 348.3  | 8.5       |
| 90°-150°  | 1539.9 | 37.7      |
| 90°-180°  | 2119.0 | 51.8      |
| 0°-180°   | 4088.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 774 | 774   | 774 | 774   | 774 |      |
| 5°   | 774 | 771   | 762 | 768   | 767 | 73   |
| 15°  | 736 | 732   | 722 | 725   | 722 | 207  |
| 25°  | 666 | 660   | 648 | 649   | 648 | 307  |
| 35°  | 575 | 568   | 556 | 551   | 547 | 359  |
| 45°  | 468 | 463   | 452 | 443   | 440 | 361  |
| 55°  | 354 | 350   | 341 | 332   | 328 | 317  |
| 65°  | 239 | 234   | 227 | 220   | 216 | 236  |
| 75°  | 125 | 124   | 120 | 115   | 117 | 133  |
| 85°  | 30  | 30    | 29  | 27    | 26  | 34   |
| 90°  | 0   | 6     | 10  | 13    | 14  | 4    |
| 95°  | 34  | 17    | 20  | 23    | 22  | 40   |
| 105° | 159 | 175   | 32  | 38    | 40  | 170  |
| 115° | 301 | 310   | 323 | 80    | 43  | 296  |
| 125° | 425 | 432   | 442 | 446   | 447 | 379  |
| 135° | 526 | 534   | 539 | 544   | 543 | 406  |
| 145° | 610 | 610   | 619 | 622   | 620 | 382  |
| 155° | 672 | 667   | 674 | 677   | 672 | 310  |
| 165° | 708 | 705   | 706 | 710   | 706 | 200  |
| 175° | 724 | 721   | 722 | 725   | 720 | 69   |
| 180° | 723 | 723   | 723 | 723   | 723 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 773.5 | 773.5 | 773.5 | 773.5 | 773.5 |
| 2.5°   | 778.0 | 774.3 | 766.1 | 773.5 | 772.0 |
| 5°     | 773.5 | 770.6 | 762.4 | 768.3 | 766.8 |
| 7.5°   | 768.3 | 763.9 | 755.7 | 761.6 | 760.1 |
| 10°    | 760.1 | 754.9 | 746.0 | 752.0 | 749.7 |
| 12.5°  | 749.0 | 744.5 | 735.6 | 739.3 | 737.8 |
| 15°    | 736.3 | 731.9 | 722.2 | 725.2 | 721.5 |
| 17.5°  | 720.7 | 716.3 | 706.6 | 710.3 | 706.6 |
| 20°    | 703.6 | 699.2 | 688.7 | 691.0 | 688.0 |
| 22.5°  | 686.5 | 679.8 | 670.2 | 670.2 | 668.7 |
| 25°    | 666.4 | 660.5 | 647.8 | 649.3 | 647.8 |
| 27.5°  | 644.1 | 638.9 | 629.2 | 627.0 | 623.3 |
| 30°    | 621.8 | 615.9 | 604.7 | 602.5 | 599.5 |
| 32.5°  | 598.0 | 593.5 | 581.6 | 577.2 | 574.2 |
| 35°    | 574.9 | 567.5 | 555.6 | 551.1 | 547.4 |
| 37.5°  | 548.9 | 542.2 | 530.3 | 525.1 | 521.4 |
| 40°    | 522.1 | 516.2 | 504.3 | 497.6 | 494.6 |
| 42.5°  | 496.1 | 490.2 | 478.3 | 470.8 | 466.4 |
| 45°    | 467.8 | 462.6 | 451.5 | 443.3 | 440.3 |
| 47.5°  | 440.3 | 435.1 | 423.2 | 415.0 | 410.6 |
| 50°    | 411.3 | 407.6 | 397.2 | 386.8 | 383.0 |
| 52.5°  | 383.0 | 377.8 | 368.2 | 360.0 | 354.8 |
| 55°    | 354.0 | 349.6 | 340.7 | 331.7 | 328.0 |
| 57.5°  | 325.0 | 321.3 | 311.6 | 302.7 | 299.7 |
| 60°    | 296.0 | 293.1 | 282.6 | 274.5 | 272.2 |
| 62.5°  | 267.8 | 262.6 | 255.1 | 247.7 | 244.7 |
| 65°    | 238.8 | 234.3 | 226.9 | 220.2 | 216.4 |
| 67.5°  | 209.0 | 205.3 | 198.6 | 193.4 | 190.4 |
| 70°    | 181.5 | 178.5 | 171.8 | 166.6 | 163.6 |
| 72.5°  | 153.2 | 150.2 | 146.5 | 141.3 | 139.1 |
| 75°    | 125.0 | 123.5 | 119.7 | 115.3 | 116.8 |
| 77.5°  | 99.7  | 96.7  | 95.2  | 93.0  | 90.7  |
| 80°    | 74.4  | 73.6  | 72.1  | 69.9  | 68.4  |
| 82.5°  | 50.6  | 50.6  | 49.8  | 46.9  | 46.9  |
| 85°    | 30.5  | 29.8  | 29.0  | 26.8  | 26.0  |
| 87.5°  | 13.4  | 11.9  | 10.4  | 8.2   | 7.4   |
| 90°    | 0.5   | 6.3   | 10.5  | 13.1  | 14.1  |
| 92.5°  | 13.1  | 11.0  | 12.6  | 13.6  | 14.1  |
| 95°    | 34.0  | 16.7  | 20.4  | 23.0  | 22.5  |
| 97.5°  | 61.2  | 18.3  | 26.7  | 28.2  | 28.8  |
| 100°   | 92.6  | 20.9  | 29.8  | 34.0  | 35.0  |
| 102.5° | 127.1 | 126.0 | 30.9  | 36.6  | 38.2  |
| 105°   | 159.0 | 174.7 | 31.9  | 37.7  | 39.7  |
| 107.5° | 196.1 | 209.2 | 32.9  | 38.7  | 40.8  |
| 110°   | 231.7 | 242.6 | 91.5  | 39.2  | 41.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 265.1 | 274.5 | 265.7 | 40.3  | 41.8  |
| 115°   | 300.7 | 309.6 | 322.7 | 80.5  | 42.9  |
| 117.5° | 331.5 | 342.0 | 350.9 | 276.1 | 139.1 |
| 120°   | 366.1 | 373.9 | 383.3 | 389.6 | 319.0 |
| 122.5° | 395.3 | 403.7 | 414.2 | 417.3 | 417.8 |
| 125°   | 425.2 | 432.0 | 441.9 | 445.5 | 447.1 |
| 127.5° | 452.3 | 459.7 | 467.5 | 472.7 | 473.3 |
| 130°   | 478.0 | 486.3 | 492.1 | 497.8 | 497.3 |
| 132.5° | 504.1 | 510.9 | 516.7 | 521.4 | 520.9 |
| 135°   | 526.1 | 534.4 | 539.2 | 544.4 | 543.3 |
| 137.5° | 549.1 | 555.4 | 560.6 | 565.8 | 564.3 |
| 140°   | 571.6 | 575.8 | 581.5 | 586.2 | 583.6 |
| 142.5° | 590.4 | 594.1 | 600.9 | 605.0 | 602.4 |
| 145°   | 610.3 | 609.8 | 618.6 | 622.3 | 619.7 |
| 147.5° | 627.5 | 626.0 | 634.9 | 637.5 | 635.4 |
| 150°   | 644.3 | 640.6 | 649.0 | 652.1 | 649.5 |
| 152.5° | 658.4 | 654.2 | 662.0 | 665.2 | 661.5 |
| 155°   | 672.0 | 667.3 | 673.6 | 676.7 | 672.5 |
| 157.5° | 683.0 | 678.8 | 683.5 | 687.1 | 683.0 |
| 160°   | 692.4 | 689.2 | 692.4 | 695.5 | 691.9 |
| 162.5° | 700.7 | 697.6 | 700.2 | 703.9 | 699.2 |
| 165°   | 708.1 | 704.9 | 706.5 | 710.2 | 706.5 |
| 167.5° | 713.8 | 710.7 | 712.2 | 715.9 | 711.2 |
| 170°   | 718.5 | 715.4 | 716.4 | 720.1 | 715.4 |
| 172.5° | 721.7 | 718.5 | 719.6 | 723.2 | 718.5 |
| 175°   | 724.3 | 720.6 | 721.7 | 725.3 | 720.1 |
| 177.5° | 725.3 | 721.7 | 722.2 | 725.8 | 721.1 |
| 180°   | 722.7 | 722.7 | 722.7 | 722.7 | 722.7 |

(END OF REPORT)