

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: P1009117

Luminaire Tested: S122DIP-B485D530UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009117  
REPORT IS A COMBINATION OF REPORTS P984295 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B485D530UB50-4F0-XX-W2A-F  
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

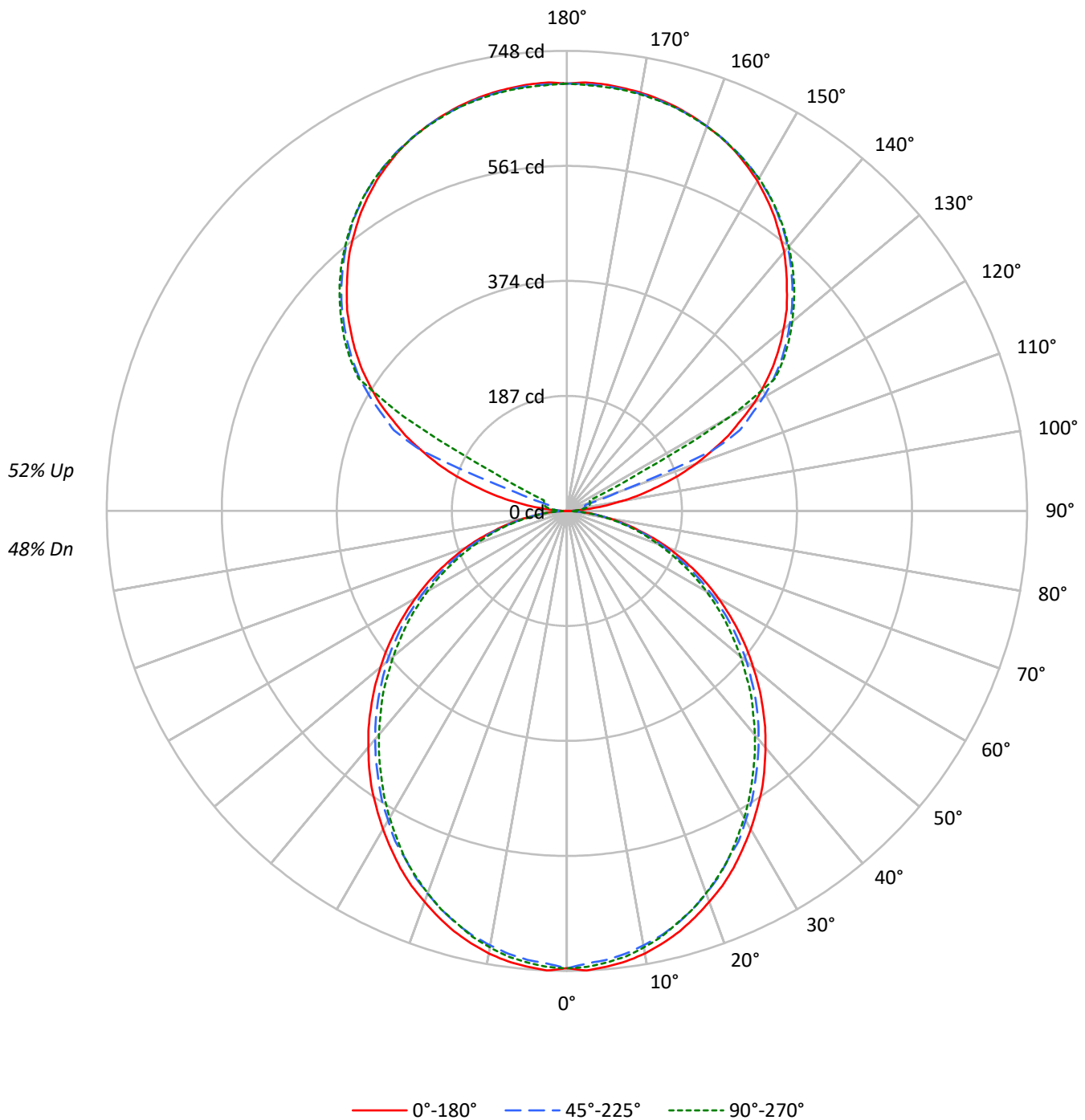
Lumens per Lamp: N/A  
Luminaire Lumens: 3930.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11772 | 11772 | 11772 |
| 5°  | 11791 | 11220 | 11141 |
| 10° | 11695 | 10709 | 10497 |
| 15° | 11524 | 10194 | 9819  |
| 20° | 11291 | 9633  | 9177  |
| 25° | 11061 | 9048  | 8536  |
| 30° | 10771 | 8498  | 7863  |
| 35° | 10497 | 7919  | 7203  |
| 40° | 10160 | 7345  | 6579  |
| 45° | 9824  | 6777  | 5966  |
| 50° | 9455  | 6199  | 5332  |
| 55° | 9070  | 5582  | 4729  |
| 60° | 8636  | 4912  | 4104  |
| 65° | 8159  | 4233  | 3447  |
| 70° | 7557  | 3489  | 2783  |
| 75° | 6718  | 2689  | 2149  |
| 80° | 5708  | 1829  | 1383  |
| 85° | 4139  | 851   | 588   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 9824 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.0   | 1.8       |
| 10°-20°   | 196.9  | 5.0       |
| 20°-30°   | 289.4  | 7.4       |
| 30°-40°   | 336.1  | 8.6       |
| 40°-50°   | 335.7  | 8.5       |
| 50°-60°   | 292.7  | 7.4       |
| 60°-70°   | 216.4  | 5.5       |
| 70°-80°   | 122.4  | 3.1       |
| 80°-90°   | 33.5   | 0.9       |
| 90°-100°  | 22.9   | 0.6       |
| 100°-110° | 85.4   | 2.2       |
| 110°-120° | 226.5  | 5.8       |
| 120°-130° | 375.7  | 9.6       |
| 130°-140° | 399.0  | 10.2      |
| 140°-150° | 370.9  | 9.4       |
| 150°-160° | 298.2  | 7.6       |
| 160°-170° | 192.1  | 4.9       |
| 170°-180° | 66.1   | 1.7       |
| 0°-30°    | 556.3  | 14.2      |
| 0°-40°    | 892.4  | 22.7      |
| 0°-60°    | 1520.9 | 38.7      |
| 0°-90°    | 1893.2 | 48.2      |
| 90°-120°  | 334.8  | 8.5       |
| 90°-150°  | 1480.4 | 37.7      |
| 90°-180°  | 2037.0 | 51.8      |
| 0°-180°   | 3930.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 744 | 744   | 744 | 744   | 744 |      |
| 5°   | 744 | 741   | 733 | 739   | 737 | 71   |
| 15°  | 708 | 704   | 694 | 697   | 694 | 199  |
| 25°  | 641 | 635   | 623 | 624   | 623 | 295  |
| 35°  | 553 | 546   | 534 | 530   | 526 | 345  |
| 45°  | 450 | 445   | 434 | 426   | 423 | 347  |
| 55°  | 340 | 336   | 328 | 319   | 315 | 304  |
| 65°  | 230 | 225   | 218 | 212   | 208 | 227  |
| 75°  | 120 | 119   | 115 | 111   | 112 | 128  |
| 85°  | 29  | 29    | 28  | 26    | 25  | 33   |
| 90°  | 0   | 6     | 10  | 13    | 14  | 4    |
| 95°  | 33  | 16    | 20  | 22    | 22  | 39   |
| 105° | 153 | 168   | 31  | 36    | 38  | 163  |
| 115° | 289 | 298   | 310 | 77    | 41  | 285  |
| 125° | 409 | 415   | 425 | 428   | 430 | 365  |
| 135° | 506 | 514   | 518 | 523   | 522 | 391  |
| 145° | 587 | 586   | 595 | 598   | 596 | 367  |
| 155° | 646 | 642   | 648 | 650   | 646 | 298  |
| 165° | 681 | 678   | 679 | 683   | 679 | 192  |
| 175° | 696 | 693   | 694 | 697   | 692 | 66   |
| 180° | 695 | 695   | 695 | 695   | 695 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 743.7 | 743.7 | 743.7 | 743.7 | 743.7 |
| 2.5°   | 748.0 | 744.4 | 736.5 | 743.7 | 742.2 |
| 5°     | 743.7 | 740.8 | 732.9 | 738.7 | 737.2 |
| 7.5°   | 738.7 | 734.4 | 726.5 | 732.2 | 730.8 |
| 10°    | 730.8 | 725.8 | 717.2 | 722.9 | 720.8 |
| 12.5°  | 720.1 | 715.8 | 707.2 | 710.8 | 709.3 |
| 15°    | 707.9 | 703.6 | 694.3 | 697.2 | 693.6 |
| 17.5°  | 692.9 | 688.6 | 679.3 | 682.9 | 679.3 |
| 20°    | 676.4 | 672.2 | 662.1 | 664.3 | 661.4 |
| 22.5°  | 660.0 | 653.6 | 644.3 | 644.3 | 642.8 |
| 25°    | 640.7 | 635.0 | 622.8 | 624.2 | 622.8 |
| 27.5°  | 619.2 | 614.2 | 604.9 | 602.8 | 599.2 |
| 30°    | 597.8 | 592.1 | 581.3 | 579.2 | 576.3 |
| 32.5°  | 574.9 | 570.6 | 559.2 | 554.9 | 552.0 |
| 35°    | 552.7 | 545.6 | 534.2 | 529.9 | 526.3 |
| 37.5°  | 527.7 | 521.3 | 509.8 | 504.8 | 501.3 |
| 40°    | 502.0 | 496.3 | 484.8 | 478.4 | 475.5 |
| 42.5°  | 476.9 | 471.2 | 459.8 | 452.6 | 448.3 |
| 45°    | 449.8 | 444.8 | 434.0 | 426.2 | 423.3 |
| 47.5°  | 423.3 | 418.3 | 406.9 | 399.0 | 394.7 |
| 50°    | 395.4 | 391.9 | 381.8 | 371.8 | 368.3 |
| 52.5°  | 368.3 | 363.3 | 354.0 | 346.1 | 341.1 |
| 55°    | 340.4 | 336.1 | 327.5 | 318.9 | 315.3 |
| 57.5°  | 312.5 | 308.9 | 299.6 | 291.0 | 288.2 |
| 60°    | 284.6 | 281.7 | 271.7 | 263.9 | 261.7 |
| 62.5°  | 257.4 | 252.4 | 245.3 | 238.1 | 235.3 |
| 65°    | 229.5 | 225.2 | 218.1 | 211.7 | 208.1 |
| 67.5°  | 200.9 | 197.4 | 190.9 | 185.9 | 183.1 |
| 70°    | 174.5 | 171.6 | 165.2 | 160.2 | 157.3 |
| 72.5°  | 147.3 | 144.4 | 140.9 | 135.9 | 133.7 |
| 75°    | 120.1 | 118.7 | 115.1 | 110.8 | 112.3 |
| 77.5°  | 95.8  | 93.0  | 91.5  | 89.4  | 87.2  |
| 80°    | 71.5  | 70.8  | 69.4  | 67.2  | 65.8  |
| 82.5°  | 48.6  | 48.6  | 47.9  | 45.0  | 45.0  |
| 85°    | 29.3  | 28.6  | 27.9  | 25.7  | 25.0  |
| 87.5°  | 12.9  | 11.4  | 10.0  | 7.9   | 7.2   |
| 90°    | 0.5   | 6.0   | 10.1  | 12.6  | 13.6  |
| 92.5°  | 12.6  | 10.6  | 12.1  | 13.1  | 13.6  |
| 95°    | 32.7  | 16.1  | 19.6  | 22.1  | 21.6  |
| 97.5°  | 58.8  | 17.6  | 25.6  | 27.1  | 27.6  |
| 100°   | 89.0  | 20.1  | 28.7  | 32.7  | 33.7  |
| 102.5° | 122.2 | 121.2 | 29.7  | 35.2  | 36.7  |
| 105°   | 152.8 | 167.9 | 30.7  | 36.2  | 38.2  |
| 107.5° | 188.5 | 201.1 | 31.7  | 37.2  | 39.2  |
| 110°   | 222.7 | 233.3 | 88.0  | 37.7  | 39.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 254.9 | 263.9 | 255.4 | 38.7  | 40.2  |
| 115°   | 289.1 | 297.6 | 310.2 | 77.4  | 41.2  |
| 117.5° | 318.7 | 328.8 | 337.3 | 265.4 | 133.7 |
| 120°   | 351.9 | 359.4 | 368.5 | 374.5 | 306.7 |
| 122.5° | 380.1 | 388.1 | 398.2 | 401.2 | 401.7 |
| 125°   | 408.7 | 415.2 | 424.8 | 428.3 | 429.8 |
| 127.5° | 434.9 | 441.9 | 449.4 | 454.5 | 455.0 |
| 130°   | 459.5 | 467.5 | 473.1 | 478.6 | 478.1 |
| 132.5° | 484.6 | 491.2 | 496.7 | 501.2 | 500.7 |
| 135°   | 505.7 | 513.8 | 518.3 | 523.3 | 522.3 |
| 137.5° | 527.9 | 533.9 | 538.9 | 543.9 | 542.4 |
| 140°   | 549.5 | 553.5 | 559.0 | 563.5 | 561.0 |
| 142.5° | 567.6 | 571.1 | 577.6 | 581.6 | 579.1 |
| 145°   | 586.7 | 586.2 | 594.7 | 598.2 | 595.7 |
| 147.5° | 603.3 | 601.8 | 610.3 | 612.8 | 610.8 |
| 150°   | 619.3 | 615.8 | 623.9 | 626.9 | 624.4 |
| 152.5° | 632.9 | 628.9 | 636.4 | 639.5 | 635.9 |
| 155°   | 646.0 | 641.5 | 647.5 | 650.5 | 646.5 |
| 157.5° | 656.5 | 652.5 | 657.1 | 660.6 | 656.5 |
| 160°   | 665.6 | 662.6 | 665.6 | 668.6 | 665.1 |
| 162.5° | 673.6 | 670.6 | 673.1 | 676.7 | 672.1 |
| 165°   | 680.7 | 677.7 | 679.2 | 682.7 | 679.2 |
| 167.5° | 686.2 | 683.2 | 684.7 | 688.2 | 683.7 |
| 170°   | 690.7 | 687.7 | 688.7 | 692.2 | 687.7 |
| 172.5° | 693.7 | 690.7 | 691.7 | 695.3 | 690.7 |
| 175°   | 696.3 | 692.7 | 693.7 | 697.3 | 692.2 |
| 177.5° | 697.3 | 693.7 | 694.3 | 697.8 | 693.2 |
| 180°   | 694.8 | 694.8 | 694.8 | 694.8 | 694.8 |

(END OF REPORT)