

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: P1008423

Luminaire Tested: S122RDIP-B485D530UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008423  
REPORT IS A COMBINATION OF REPORTS P988313 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B485D530UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

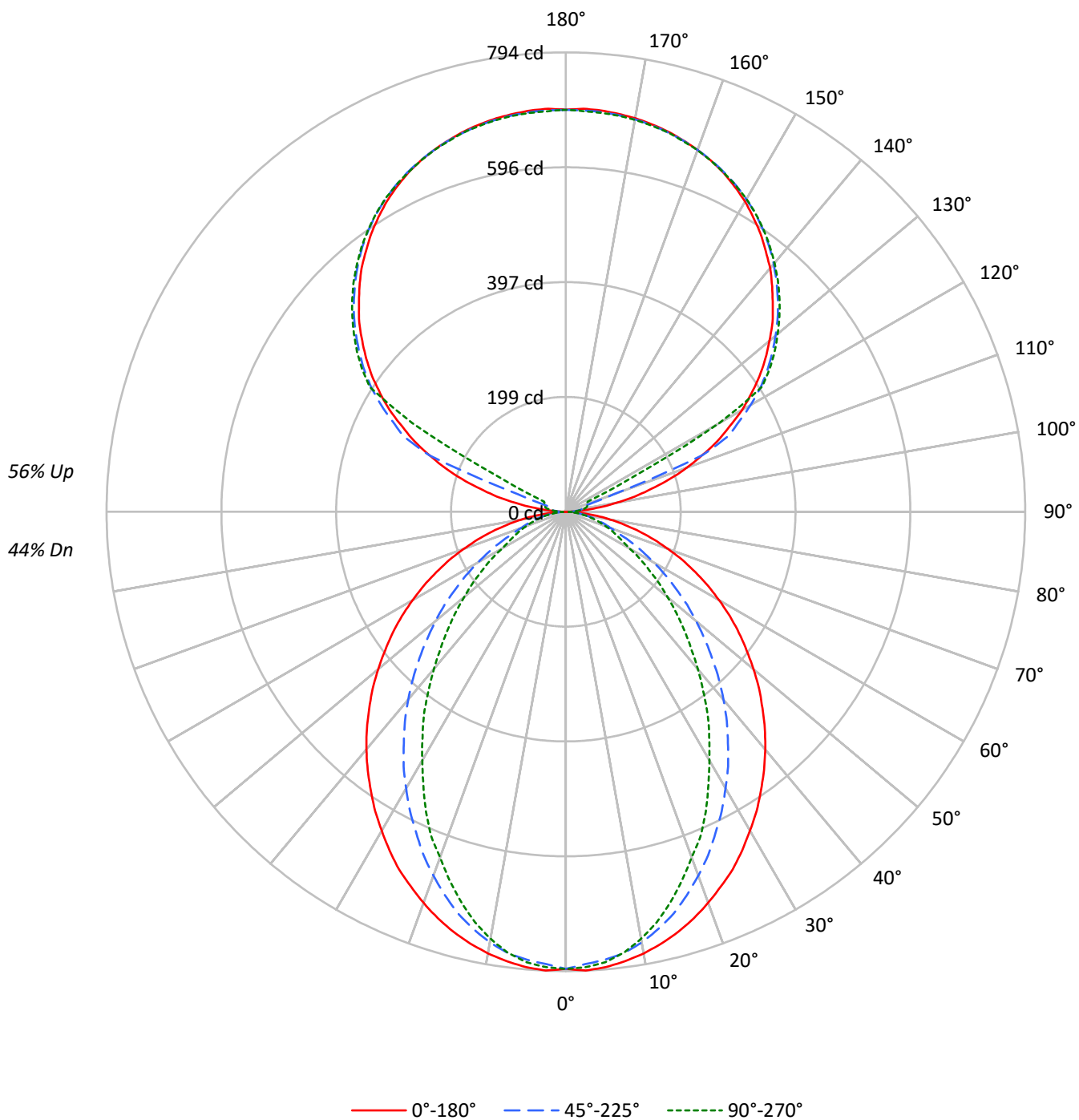
Lumens per Lamp: N/A  
Luminaire Lumens: 3663.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 |    |    | 44 |
| 1   | 97  | 93  | 89  | 86  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 56 | 55 | 46 | 45 | 44 |    |    | 38 |
| 2   | 89  | 82  | 76  | 71  | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 51 | 49 | 47 | 41 | 39 | 38 |    |    | 33 |
| 3   | 81  | 72  | 65  | 59  | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 36 | 34 | 32 |    |    | 28 |
| 4   | 74  | 64  | 56  | 51  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 41 | 37 | 34 | 33 | 30 | 28 |    |    | 25 |
| 5   | 68  | 57  | 49  | 44  | 63 | 53 | 46 | 41 | 45 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 |    |    | 22 |
| 6   | 63  | 51  | 44  | 38  | 58 | 48 | 41 | 36 | 40 | 35 | 31 | 34 | 30 | 27 | 27 | 24 | 22 |    |    | 19 |
| 7   | 58  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 37 | 31 | 28 | 31 | 27 | 24 | 25 | 22 | 20 |    |    | 17 |
| 8   | 54  | 42  | 35  | 30  | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 18 |    |    | 16 |
| 9   | 51  | 39  | 31  | 27  | 46 | 36 | 29 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 21 | 18 | 16 |    |    | 14 |
| 10  | 47  | 36  | 29  | 24  | 43 | 33 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 |    |    | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12507 | 12507 | 12507 |
| 5°  | 12527 | 11900 | 11810 |
| 10° | 12404 | 11285 | 10913 |
| 15° | 12233 | 10561 | 9890  |
| 20° | 12007 | 9738  | 8820  |
| 25° | 11778 | 8893  | 7840  |
| 30° | 11467 | 8069  | 6770  |
| 35° | 11163 | 7240  | 5852  |
| 40° | 10854 | 6424  | 4907  |
| 45° | 10494 | 5582  | 4082  |
| 50° | 10123 | 4772  | 3322  |
| 55° | 9737  | 3961  | 2638  |
| 60° | 9285  | 3168  | 1996  |
| 65° | 8770  | 2414  | 1623  |
| 70° | 8146  | 1751  | 1290  |
| 75° | 7362  | 1336  | 986   |
| 80° | 6219  | 904   | 662   |
| 85° | 4337  | 415   | 320   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10494 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.1   | 2.0       |
| 10°-20°   | 203.3  | 5.5       |
| 20°-30°   | 285.4  | 7.8       |
| 30°-40°   | 311.1  | 8.5       |
| 40°-50°   | 285.9  | 7.8       |
| 50°-60°   | 224.6  | 6.1       |
| 60°-70°   | 146.2  | 4.0       |
| 70°-80°   | 75.2   | 2.1       |
| 80°-90°   | 20.4   | 0.6       |
| 90°-100°  | 22.9   | 0.6       |
| 100°-110° | 85.4   | 2.3       |
| 110°-120° | 226.5  | 6.2       |
| 120°-130° | 375.7  | 10.3      |
| 130°-140° | 399.0  | 10.9      |
| 140°-150° | 370.9  | 10.1      |
| 150°-160° | 298.2  | 8.1       |
| 160°-170° | 192.1  | 5.2       |
| 170°-180° | 66.1   | 1.8       |
| 0°-30°    | 562.8  | 15.4      |
| 0°-40°    | 873.9  | 23.9      |
| 0°-60°    | 1384.4 | 37.8      |
| 0°-90°    | 1626.2 | 44.4      |
| 90°-120°  | 334.8  | 9.1       |
| 90°-150°  | 1480.4 | 40.4      |
| 90°-180°  | 2037.0 | 55.6      |
| 0°-180°   | 3663.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 790 | 790   | 790 | 790   | 790 |      |
| 5°   | 790 | 787   | 777 | 784   | 782 | 75   |
| 15°  | 752 | 744   | 719 | 706   | 699 | 212  |
| 25°  | 682 | 659   | 612 | 583   | 572 | 314  |
| 35°  | 588 | 551   | 488 | 443   | 428 | 368  |
| 45°  | 480 | 433   | 358 | 307   | 290 | 371  |
| 55°  | 365 | 310   | 232 | 190   | 176 | 326  |
| 65°  | 247 | 189   | 124 | 100   | 98  | 245  |
| 75°  | 132 | 82    | 57  | 52    | 52  | 139  |
| 85°  | 31  | 16    | 14  | 14    | 14  | 35   |
| 90°  | 0   | 6     | 10  | 13    | 14  | 3    |
| 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°     | 790.1 | 790.1 | 790.1 | 790.1 | 790.1 |
| 2.5°   | 793.7 | 790.1 | 782.3 | 789.4 | 788.0 |
| 5°     | 790.1 | 786.6 | 777.3 | 783.7 | 781.5 |
| 7.5°   | 783.7 | 779.4 | 769.4 | 772.3 | 768.7 |
| 10°    | 775.1 | 770.1 | 755.8 | 753.7 | 749.4 |
| 12.5°  | 764.4 | 758.0 | 738.6 | 734.4 | 726.5 |
| 15°    | 751.5 | 743.6 | 719.3 | 705.8 | 698.6 |
| 17.5°  | 736.5 | 725.1 | 695.0 | 679.3 | 667.9 |
| 20°    | 719.3 | 705.0 | 669.3 | 651.4 | 635.7 |
| 22.5°  | 700.7 | 684.3 | 642.8 | 618.5 | 607.8 |
| 25°    | 682.2 | 659.3 | 612.1 | 582.8 | 572.0 |
| 27.5°  | 660.0 | 635.7 | 583.5 | 549.9 | 533.4 |
| 30°    | 636.4 | 609.2 | 552.0 | 515.5 | 496.2 |
| 32.5°  | 613.5 | 580.6 | 522.0 | 479.1 | 461.2 |
| 35°    | 587.8 | 551.3 | 488.4 | 443.3 | 427.6 |
| 37.5°  | 562.7 | 523.4 | 456.9 | 407.6 | 389.7 |
| 40°    | 536.3 | 493.4 | 424.0 | 373.3 | 354.7 |
| 42.5°  | 509.1 | 463.4 | 391.1 | 338.2 | 320.3 |
| 45°    | 480.5 | 432.6 | 357.5 | 306.8 | 289.6 |
| 47.5°  | 453.3 | 402.6 | 325.3 | 274.6 | 258.8 |
| 50°    | 423.3 | 372.5 | 293.9 | 244.5 | 229.5 |
| 52.5°  | 394.0 | 340.4 | 263.9 | 216.7 | 203.1 |
| 55°    | 365.4 | 309.6 | 232.4 | 189.5 | 175.9 |
| 57.5°  | 336.1 | 278.9 | 204.5 | 164.5 | 153.0 |
| 60°    | 306.0 | 248.8 | 175.2 | 138.7 | 127.3 |
| 62.5°  | 276.7 | 219.5 | 150.2 | 115.8 | 110.1 |
| 65°    | 246.7 | 188.8 | 124.4 | 100.1 | 98.0  |
| 67.5°  | 218.1 | 160.2 | 100.1 | 88.0  | 85.8  |
| 70°    | 188.1 | 132.3 | 82.9  | 75.8  | 72.9  |
| 72.5°  | 159.5 | 106.5 | 69.4  | 63.6  | 62.2  |
| 75°    | 131.6 | 81.5  | 57.2  | 52.2  | 51.5  |
| 77.5°  | 103.7 | 57.9  | 45.0  | 42.2  | 40.8  |
| 80°    | 77.9  | 41.5  | 34.3  | 31.5  | 31.5  |
| 82.5°  | 54.3  | 27.9  | 23.6  | 22.2  | 22.2  |
| 85°    | 30.7  | 15.7  | 13.6  | 13.6  | 13.6  |
| 87.5°  | 11.4  | 5.7   | 5.7   | 5.0   | 5.0   |
| 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)