

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: P1010036

Luminaire Tested: S122RDIP-B485D530UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010036  
REPORT IS A COMBINATION OF REPORTS P988336 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B485D530UB50-4F0-XX-W2A-F1  
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

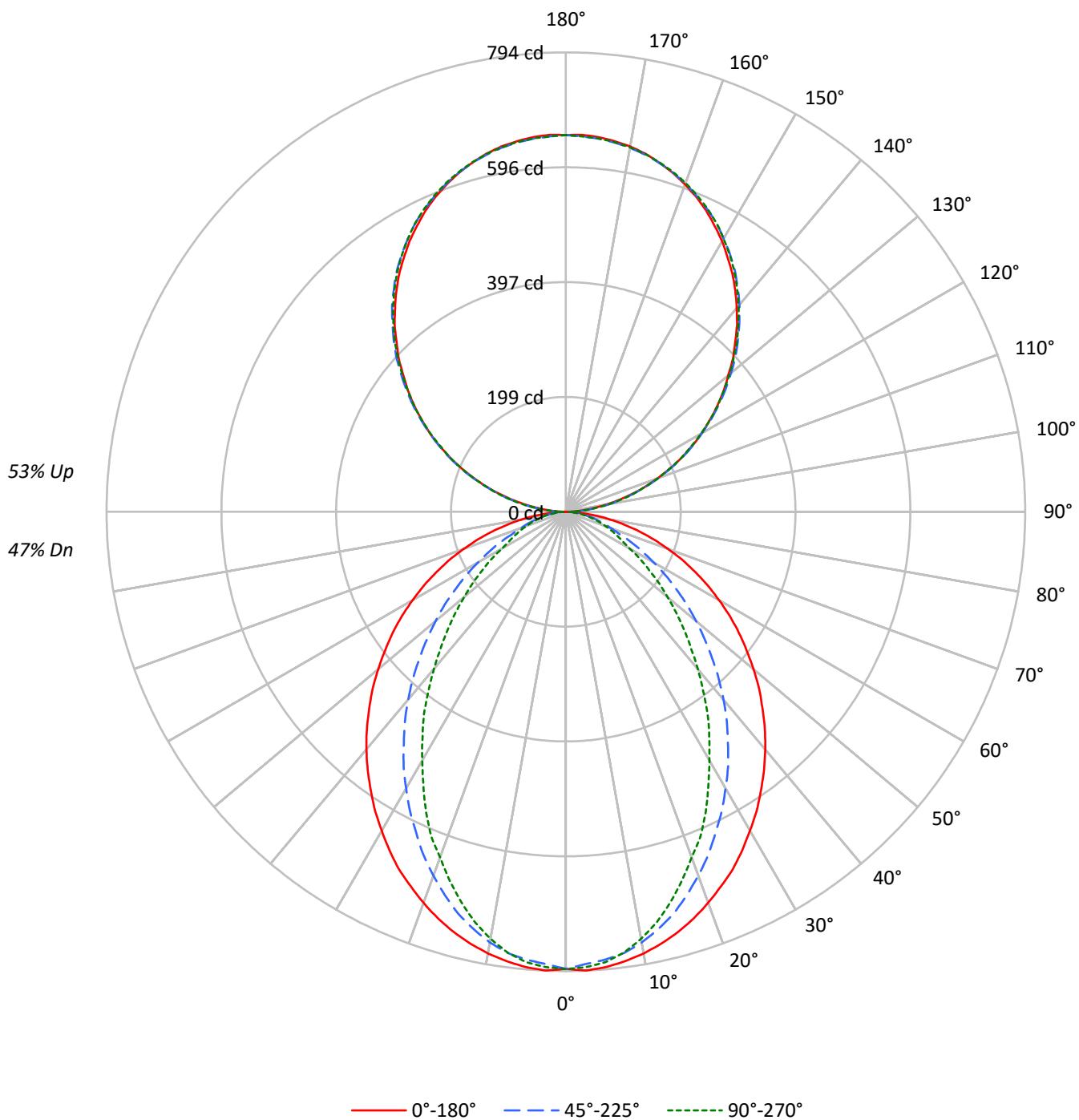
Lumens per Lamp: N/A  
Luminaire Lumens: 3447.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |    |    |    |    | 0  |
| 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 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 | 47 | 47 |
| 1   | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 | 41 | 41 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 40 | 35 | 35 | 35 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 | 30 | 30 | 30 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 42 | 39 | 36 | 35 | 32 | 30 | 26 | 26 | 26 |
| 5   | 69  | 58  | 50  | 44  | 63 | 54 | 47 | 41 | 46 | 40 | 36 | 38 | 34 | 31 | 31 | 29 | 26 | 23 | 23 | 23 |
| 6   | 64  | 52  | 44  | 38  | 58 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 23 | 20 | 20 | 20 |
| 7   | 59  | 47  | 39  | 34  | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 26 | 23 | 21 | 18 | 18 | 18 |
| 8   | 55  | 43  | 35  | 30  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 17 | 17 | 17 |
| 9   | 51  | 39  | 32  | 27  | 47 | 37 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 15 | 15 | 15 |
| 10  | 48  | 36  | 29  | 24  | 44 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 14 | 14 | 14 |

**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   | 2.1       |
| 10°-20°   | 203.3  | 5.9       |
| 20°-30°   | 285.4  | 8.3       |
| 30°-40°   | 311.1  | 9.0       |
| 40°-50°   | 285.9  | 8.3       |
| 50°-60°   | 224.6  | 6.5       |
| 60°-70°   | 146.2  | 4.2       |
| 70°-80°   | 75.2   | 2.2       |
| 80°-90°   | 21.1   | 0.6       |
| 90°-100°  | 40.3   | 1.2       |
| 100°-110° | 128.0  | 3.7       |
| 110°-120° | 219.1  | 6.4       |
| 120°-130° | 288.1  | 8.4       |
| 130°-140° | 323.4  | 9.4       |
| 140°-150° | 317.1  | 9.2       |
| 150°-160° | 266.0  | 7.7       |
| 160°-170° | 176.4  | 5.1       |
| 170°-180° | 61.7   | 1.8       |
| 0°-30°    | 562.8  | 16.3      |
| 0°-40°    | 873.9  | 25.4      |
| 0°-60°    | 1384.4 | 40.2      |
| 0°-90°    | 1626.9 | 47.2      |
| 90°-120°  | 387.4  | 11.2      |
| 90°-150°  | 1316.0 | 38.2      |
| 90°-180°  | 1820.0 | 52.8      |
| 0°-180°   | 3447.0 | 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   | 7     | 19  | 18    | 19  | 3    |
| 95°  | 29  | 34    | 35  | 35    | 34  | 32   |
| 105° | 118 | 120   | 121 | 122   | 122 | 125  |
| 115° | 220 | 223   | 222 | 221   | 220 | 217  |
| 125° | 320 | 325   | 323 | 321   | 321 | 286  |
| 135° | 414 | 420   | 421 | 420   | 419 | 320  |
| 145° | 502 | 506   | 509 | 510   | 508 | 314  |
| 155° | 574 | 576   | 577 | 580   | 578 | 264  |
| 165° | 625 | 624   | 624 | 628   | 625 | 176  |
| 175° | 650 | 648   | 647 | 651   | 648 | 62   |
| 180° | 651 | 651   | 651 | 651   | 651 |      |

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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   | 7.1   | 19.2  | 18.1  | 18.7  |
| 92.5°  | 12.1  | 16.5  | 17.0  | 17.6  | 17.6  |
| 95°    | 28.6  | 34.1  | 35.2  | 35.2  | 34.1  |
| 97.5°  | 47.8  | 52.7  | 54.9  | 54.9  | 54.9  |
| 100°   | 69.8  | 74.2  | 75.8  | 75.8  | 75.3  |
| 102.5° | 92.8  | 96.1  | 98.3  | 98.9  | 98.3  |
| 105°   | 118.1 | 119.8 | 120.9 | 122.0 | 122.0 |
| 107.5° | 143.4 | 145.6 | 145.6 | 146.1 | 143.4 |
| 110°   | 167.6 | 170.9 | 170.9 | 170.9 | 169.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 193.9 | 197.2 | 196.7 | 195.0 | 193.9 |
| 115°   | 219.8 | 223.1 | 222.0 | 221.4 | 219.8 |
| 117.5° | 245.6 | 250.0 | 247.2 | 245.6 | 243.9 |
| 120°   | 271.4 | 275.8 | 271.4 | 271.4 | 269.8 |
| 122.5° | 295.0 | 300.5 | 297.8 | 296.1 | 295.0 |
| 125°   | 319.7 | 324.7 | 323.0 | 321.4 | 320.8 |
| 127.5° | 343.9 | 350.0 | 347.8 | 345.6 | 343.9 |
| 130°   | 366.4 | 373.6 | 372.5 | 371.4 | 369.2 |
| 132.5° | 391.7 | 397.2 | 397.8 | 395.0 | 393.4 |
| 135°   | 413.7 | 419.7 | 420.8 | 420.3 | 418.6 |
| 137.5° | 437.9 | 442.8 | 443.9 | 443.4 | 441.2 |
| 140°   | 459.3 | 464.2 | 467.0 | 467.0 | 464.8 |
| 142.5° | 481.3 | 486.2 | 487.9 | 488.4 | 486.2 |
| 145°   | 502.1 | 506.0 | 509.3 | 509.8 | 507.6 |
| 147.5° | 520.8 | 525.8 | 528.0 | 529.1 | 526.9 |
| 150°   | 540.1 | 543.3 | 545.5 | 547.2 | 545.5 |
| 152.5° | 557.1 | 560.4 | 563.1 | 565.3 | 563.1 |
| 155°   | 574.1 | 575.8 | 577.4 | 580.2 | 578.5 |
| 157.5° | 588.9 | 590.0 | 591.1 | 595.0 | 592.2 |
| 160°   | 602.1 | 603.2 | 603.8 | 607.1 | 604.9 |
| 162.5° | 614.2 | 614.2 | 614.8 | 618.6 | 615.9 |
| 165°   | 624.7 | 624.1 | 624.1 | 628.0 | 625.2 |
| 167.5° | 634.0 | 632.3 | 632.3 | 636.2 | 633.4 |
| 170°   | 641.1 | 639.5 | 638.9 | 642.8 | 639.5 |
| 172.5° | 646.1 | 644.4 | 643.9 | 647.7 | 644.4 |
| 175°   | 649.9 | 648.3 | 647.2 | 651.0 | 647.7 |
| 177.5° | 652.1 | 650.5 | 649.4 | 652.7 | 649.4 |
| 180°   | 651.0 | 651.0 | 651.0 | 651.0 | 651.0 |

(END OF REPORT)