

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: P1010019

Luminaire Tested: S122RDIP-B485D530UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010019  
REPORT IS A COMBINATION OF REPORTS P988319 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B485D530UB30-4F0-XX-W2A-F4  
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

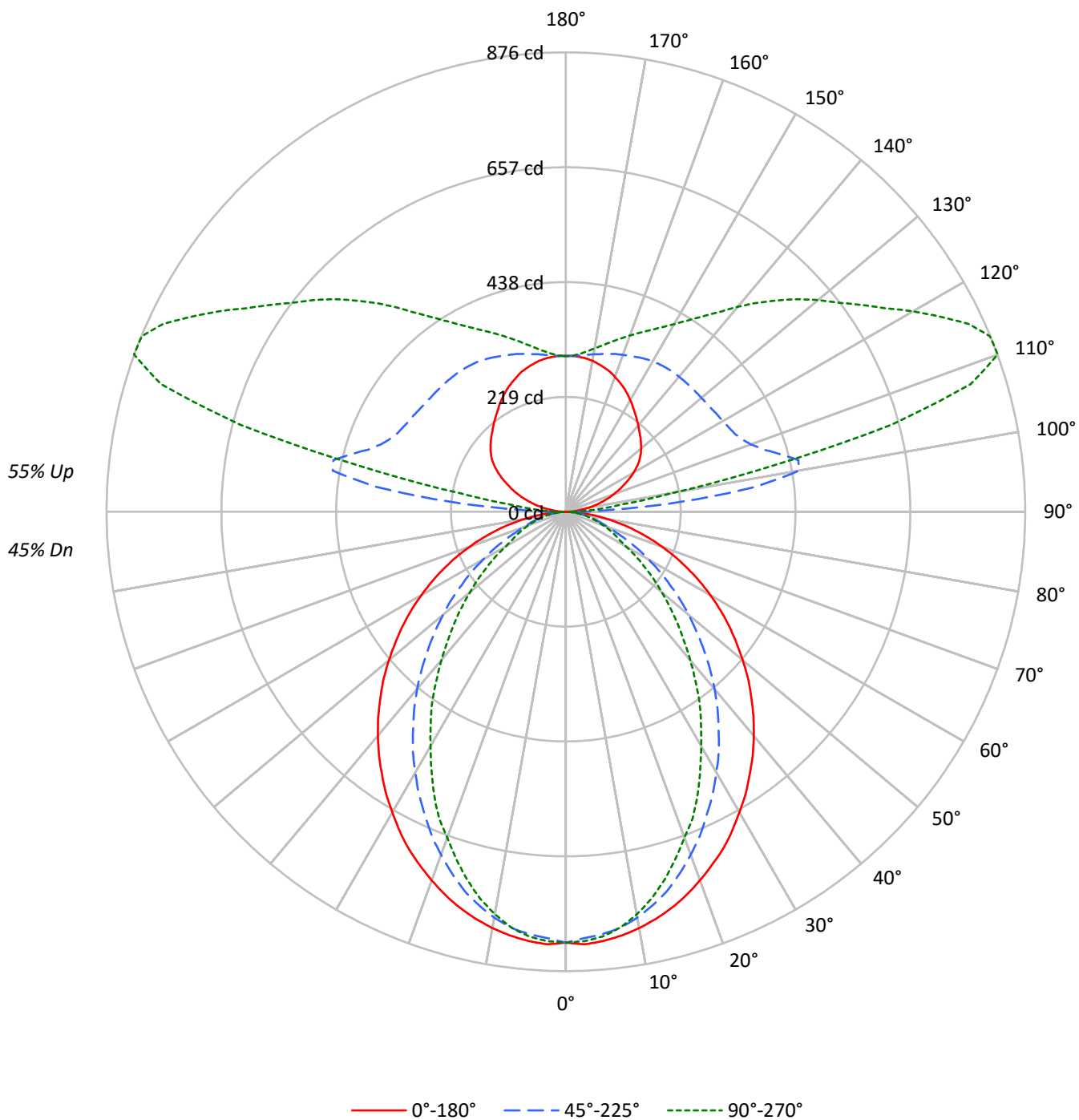
Lumens per Lamp: N/A  
Luminaire Lumens: 3763.4 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 51 | 51 | 51 |
| 1   | 97  | 93  | 89  | 86  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 |
| 2   | 89  | 82  | 76  | 71  | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 41 | 39 | 38 |
| 3   | 81  | 72  | 65  | 60  | 74 | 66 | 60 | 56 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 |
| 4   | 74  | 64  | 57  | 51  | 68 | 59 | 53 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 33 | 31 | 29 |
| 5   | 69  | 57  | 49  | 44  | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 37 | 33 | 30 | 30 | 27 | 25 |
| 6   | 63  | 52  | 44  | 38  | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 27 | 25 | 22 |
| 7   | 59  | 47  | 39  | 34  | 54 | 43 | 36 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 25 | 22 | 20 |
| 8   | 54  | 42  | 35  | 30  | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 18 |
| 9   | 51  | 39  | 32  | 27  | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 16 |
| 10  | 47  | 36  | 29  | 24  | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 18 | 20 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13007 | 13007 | 13007 |
| 5°  | 13028 | 12374 | 12283 |
| 10° | 12900 | 11736 | 11349 |
| 15° | 12723 | 10983 | 10285 |
| 20° | 12488 | 10128 | 9173  |
| 25° | 12247 | 9249  | 8154  |
| 30° | 11924 | 8392  | 7042  |
| 35° | 11610 | 7529  | 6086  |
| 40° | 11287 | 6682  | 5104  |
| 45° | 10913 | 5806  | 4245  |
| 50° | 10527 | 4962  | 3456  |
| 55° | 10126 | 4119  | 2743  |
| 60° | 9659  | 3294  | 2076  |
| 65° | 9122  | 2511  | 1688  |
| 70° | 8471  | 1823  | 1343  |
| 75° | 7653  | 1390  | 1024  |
| 80° | 6475  | 941   | 687   |
| 85° | 4520  | 430   | 332   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.0   | 2.0       |
| 10°-20°   | 211.4  | 5.6       |
| 20°-30°   | 296.8  | 7.9       |
| 30°-40°   | 323.6  | 8.6       |
| 40°-50°   | 297.4  | 7.9       |
| 50°-60°   | 233.5  | 6.2       |
| 60°-70°   | 152.0  | 4.0       |
| 70°-80°   | 78.3   | 2.1       |
| 80°-90°   | 21.9   | 0.6       |
| 90°-100°  | 120.5  | 3.2       |
| 100°-110° | 407.2  | 10.8      |
| 110°-120° | 428.0  | 11.4      |
| 120°-130° | 352.0  | 9.4       |
| 130°-140° | 282.8  | 7.5       |
| 140°-150° | 213.7  | 5.7       |
| 150°-160° | 150.2  | 4.0       |
| 160°-170° | 88.4   | 2.3       |
| 170°-180° | 28.8   | 0.8       |
| 0°-30°    | 585.3  | 15.6      |
| 0°-40°    | 908.8  | 24.1      |
| 0°-60°    | 1439.7 | 38.3      |
| 0°-90°    | 1691.9 | 45.0      |
| 90°-120°  | 955.6  | 25.4      |
| 90°-150°  | 1804.1 | 47.9      |
| 90°-180°  | 2071.0 | 55.0      |
| 0°-180°   | 3763.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 822 | 822   | 822 | 822   | 822 |      |
| 5°   | 822 | 818   | 808 | 815   | 813 | 78   |
| 15°  | 782 | 773   | 748 | 734   | 726 | 220  |
| 25°  | 709 | 686   | 637 | 606   | 595 | 326  |
| 35°  | 611 | 573   | 508 | 461   | 445 | 383  |
| 45°  | 500 | 450   | 372 | 319   | 301 | 386  |
| 55°  | 380 | 322   | 242 | 197   | 183 | 340  |
| 65°  | 257 | 196   | 129 | 104   | 102 | 254  |
| 75°  | 137 | 85    | 60  | 54    | 54  | 145  |
| 85°  | 32  | 16    | 14  | 14    | 14  | 37   |
| 90°  | 1   | 8     | 19  | 19    | 19  | 3    |
| 95°  | 20  | 49    | 224 | 85    | 65  | 21   |
| 105° | 70  | 105   | 423 | 757   | 644 | 74   |
| 115° | 123 | 155   | 354 | 731   | 847 | 122  |
| 125° | 171 | 203   | 340 | 592   | 687 | 152  |
| 135° | 201 | 240   | 336 | 498   | 570 | 155  |
| 145° | 230 | 264   | 335 | 416   | 455 | 144  |
| 155° | 261 | 282   | 325 | 368   | 382 | 120  |
| 165° | 284 | 293   | 311 | 330   | 335 | 80   |
| 175° | 296 | 297   | 299 | 303   | 302 | 28   |
| 180° | 297 | 297   | 297 | 297   | 297 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 821.7 | 821.7 | 821.7 | 821.7 | 821.7 |
| 2.5°   | 825.5 | 821.7 | 813.6 | 821.0 | 819.5 |
| 5°     | 821.7 | 818.0 | 808.3 | 815.0 | 812.8 |
| 7.5°   | 815.0 | 810.6 | 800.2 | 803.1 | 799.4 |
| 10°    | 806.1 | 800.9 | 786.0 | 783.8 | 779.3 |
| 12.5°  | 795.0 | 788.3 | 768.2 | 763.7 | 755.5 |
| 15°    | 781.6 | 773.4 | 748.1 | 734.0 | 726.5 |
| 17.5°  | 766.0 | 754.1 | 722.8 | 706.5 | 694.6 |
| 20°    | 748.1 | 733.2 | 696.1 | 677.5 | 661.1 |
| 22.5°  | 728.8 | 711.7 | 668.5 | 643.3 | 632.1 |
| 25°    | 709.4 | 685.6 | 636.6 | 606.1 | 594.9 |
| 27.5°  | 686.4 | 661.1 | 606.8 | 571.9 | 554.8 |
| 30°    | 661.8 | 633.6 | 574.1 | 536.2 | 516.1 |
| 32.5°  | 638.1 | 603.8 | 542.9 | 498.2 | 479.7 |
| 35°    | 611.3 | 573.4 | 507.9 | 461.1 | 444.7 |
| 37.5°  | 585.3 | 544.4 | 475.2 | 423.9 | 405.3 |
| 40°    | 557.7 | 513.1 | 441.0 | 388.2 | 368.9 |
| 42.5°  | 529.5 | 481.9 | 406.8 | 351.7 | 333.2 |
| 45°    | 499.7 | 449.9 | 371.8 | 319.0 | 301.2 |
| 47.5°  | 471.5 | 418.7 | 338.4 | 285.6 | 269.2 |
| 50°    | 440.2 | 387.4 | 305.6 | 254.3 | 238.7 |
| 52.5°  | 409.8 | 354.0 | 274.4 | 225.3 | 211.2 |
| 55°    | 380.0 | 322.0 | 241.7 | 197.1 | 182.9 |
| 57.5°  | 349.5 | 290.0 | 212.7 | 171.0 | 159.1 |
| 60°    | 318.3 | 258.8 | 182.2 | 144.3 | 132.4 |
| 62.5°  | 287.8 | 228.3 | 156.2 | 120.5 | 114.5 |
| 65°    | 256.6 | 196.3 | 129.4 | 104.1 | 101.9 |
| 67.5°  | 226.8 | 166.6 | 104.1 | 91.5  | 89.2  |
| 70°    | 195.6 | 137.6 | 86.3  | 78.8  | 75.9  |
| 72.5°  | 165.8 | 110.8 | 72.1  | 66.2  | 64.7  |
| 75°    | 136.8 | 84.8  | 59.5  | 54.3  | 53.5  |
| 77.5°  | 107.8 | 60.2  | 46.8  | 43.9  | 42.4  |
| 80°    | 81.1  | 43.1  | 35.7  | 32.7  | 32.7  |
| 82.5°  | 56.5  | 29.0  | 24.5  | 23.1  | 23.1  |
| 85°    | 32.0  | 16.4  | 14.1  | 14.1  | 14.1  |
| 87.5°  | 11.9  | 5.9   | 5.9   | 5.2   | 5.2   |
| 90°    | 0.6   | 7.8   | 19.4  | 18.6  | 18.9  |
| 92.5°  | 8.6   | 27.2  | 88.0  | 40.6  | 34.9  |
| 95°    | 20.0  | 49.2  | 224.0 | 84.6  | 65.1  |
| 97.5°  | 29.7  | 64.8  | 365.1 | 169.7 | 109.1 |
| 100°   | 44.0  | 79.4  | 451.4 | 338.0 | 204.5 |
| 102.5° | 57.1  | 92.6  | 454.2 | 571.4 | 398.8 |
| 105°   | 69.7  | 105.1 | 423.4 | 756.8 | 643.9 |
| 107.5° | 83.4  | 117.7 | 394.8 | 823.9 | 809.1 |
| 110°   | 97.1  | 130.6 | 375.4 | 813.0 | 876.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 109.7 | 142.9 | 362.8 | 776.2 | 875.3 |
| 115°   | 122.8 | 155.1 | 354.2 | 731.0 | 847.3 |
| 117.5° | 136.6 | 167.4 | 349.7 | 687.9 | 805.1 |
| 120°   | 149.1 | 179.4 | 345.7 | 649.4 | 764.5 |
| 122.5° | 161.1 | 191.7 | 343.4 | 619.4 | 722.2 |
| 125°   | 171.4 | 202.8 | 340.5 | 592.2 | 687.4 |
| 127.5° | 180.0 | 213.4 | 338.8 | 569.1 | 654.8 |
| 130°   | 187.4 | 222.8 | 337.7 | 545.6 | 627.9 |
| 132.5° | 194.3 | 232.0 | 337.1 | 521.3 | 599.9 |
| 135°   | 201.1 | 240.0 | 336.5 | 497.7 | 569.7 |
| 137.5° | 207.4 | 246.8 | 336.5 | 473.6 | 540.5 |
| 140°   | 214.8 | 253.1 | 336.0 | 452.6 | 510.2 |
| 142.5° | 222.3 | 258.2 | 336.0 | 432.2 | 479.9 |
| 145°   | 229.7 | 264.0 | 334.8 | 415.7 | 454.8 |
| 147.5° | 237.7 | 268.6 | 333.1 | 401.1 | 432.5 |
| 150°   | 245.7 | 273.2 | 331.4 | 388.5 | 413.1 |
| 152.5° | 253.7 | 277.7 | 328.5 | 378.0 | 396.5 |
| 155°   | 261.1 | 282.0 | 325.1 | 367.6 | 382.2 |
| 157.5° | 267.4 | 285.4 | 321.7 | 358.0 | 369.7 |
| 160°   | 273.7 | 288.8 | 318.3 | 348.2 | 357.7 |
| 162.5° | 280.0 | 291.4 | 315.4 | 339.1 | 346.2 |
| 165°   | 284.5 | 293.1 | 311.4 | 330.2 | 335.4 |
| 167.5° | 288.5 | 294.8 | 308.0 | 322.2 | 325.1 |
| 170°   | 292.5 | 295.6 | 305.1 | 314.8 | 316.0 |
| 172.5° | 294.8 | 296.6 | 301.7 | 308.2 | 308.5 |
| 175°   | 296.5 | 296.8 | 299.4 | 303.1 | 302.3 |
| 177.5° | 297.7 | 297.1 | 297.1 | 299.4 | 297.7 |
| 180°   | 297.1 | 297.1 | 297.1 | 297.1 | 297.1 |

(END OF REPORT)