

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: P1009115

Luminaire Tested: S122DIP-B485D530UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009115  
REPORT IS A COMBINATION OF REPORTS P984293 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-D1  
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

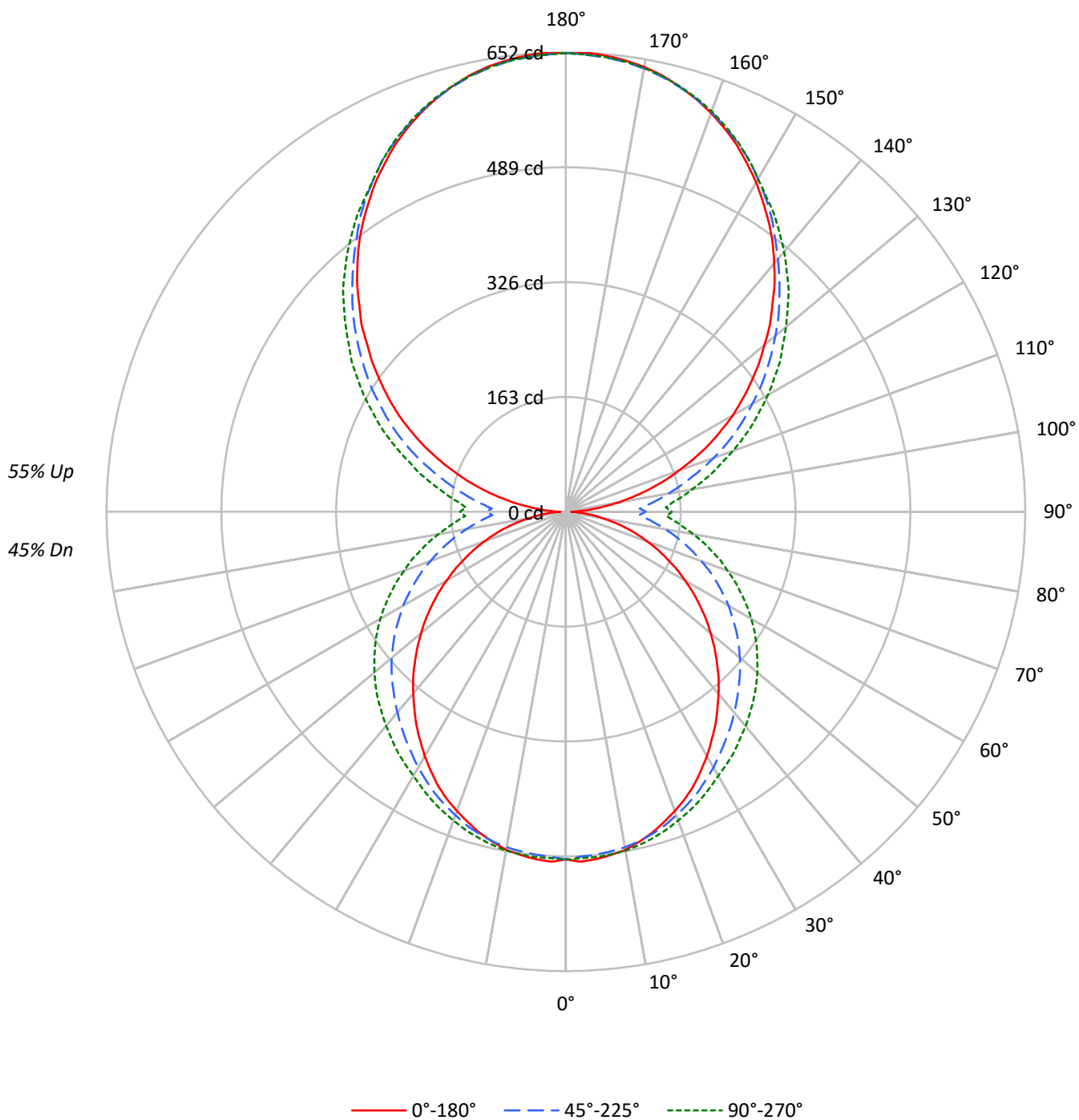
Lumens per Lamp: N/A  
Luminaire Lumens: 3705.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 |    |    | 45 |
| 1   | 95  | 90  | 86  | 82  | 87 | 83 | 79 | 76 | 69 | 66 | 63 | 56 | 54 | 52 | 44 | 42 | 41 |    |    | 35 |
| 2   | 86  | 78  | 72  | 66  | 79 | 72 | 66 | 61 | 59 | 55 | 51 | 48 | 45 | 42 | 38 | 35 | 33 |    |    | 28 |
| 3   | 78  | 68  | 60  | 54  | 71 | 63 | 56 | 50 | 52 | 47 | 43 | 42 | 38 | 35 | 33 | 30 | 28 |    |    | 23 |
| 4   | 71  | 60  | 52  | 45  | 65 | 55 | 48 | 42 | 46 | 40 | 36 | 37 | 33 | 30 | 29 | 26 | 24 |    |    | 20 |
| 5   | 65  | 53  | 45  | 39  | 59 | 49 | 42 | 36 | 41 | 35 | 31 | 33 | 29 | 25 | 26 | 23 | 20 |    |    | 17 |
| 6   | 60  | 48  | 39  | 33  | 55 | 44 | 36 | 31 | 37 | 31 | 26 | 30 | 25 | 22 | 23 | 20 | 18 |    |    | 15 |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 23 | 19 | 21 | 18 | 16 |    |    | 13 |
| 8   | 51  | 39  | 31  | 25  | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 |    |    | 11 |
| 9   | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 |    |    | 10 |
| 10  | 45  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 17 | 14 | 11 |    |    | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7812 | 7812 | 7812 |
| 5°  | 7847 | 7478 | 7437 |
| 10° | 7795 | 7220 | 7114 |
| 15° | 7684 | 6952 | 6784 |
| 20° | 7545 | 6669 | 6470 |
| 25° | 7408 | 6401 | 6186 |
| 30° | 7216 | 6127 | 5904 |
| 35° | 7023 | 5863 | 5698 |
| 40° | 6819 | 5635 | 5491 |
| 45° | 6622 | 5428 | 5312 |
| 50° | 6414 | 5238 | 5135 |
| 55° | 6193 | 5035 | 4955 |
| 60° | 5926 | 4824 | 4767 |
| 65° | 5645 | 4580 | 4548 |
| 70° | 5327 | 4319 | 4315 |
| 75° | 4923 | 4060 | 4092 |
| 80° | 4279 | 3789 | 3864 |
| 85° | 3630 | 3534 | 3666 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.8   | 1.3       |
| 10°-20°   | 134.2  | 3.6       |
| 20°-30°   | 203.3  | 5.5       |
| 30°-40°   | 247.6  | 6.7       |
| 40°-50°   | 266.4  | 7.2       |
| 50°-60°   | 258.7  | 7.0       |
| 60°-70°   | 225.9  | 6.1       |
| 70°-80°   | 173.9  | 4.7       |
| 80°-90°   | 118.3  | 3.2       |
| 90°-100°  | 120.6  | 3.3       |
| 100°-110° | 186.7  | 5.0       |
| 110°-120° | 257.8  | 7.0       |
| 120°-130° | 309.7  | 8.4       |
| 130°-140° | 332.5  | 9.0       |
| 140°-150° | 318.7  | 8.6       |
| 150°-160° | 266.0  | 7.2       |
| 160°-170° | 176.4  | 4.8       |
| 170°-180° | 61.7   | 1.7       |
| 0°-30°    | 384.3  | 10.4      |
| 0°-40°    | 631.8  | 17.1      |
| 0°-60°    | 1156.9 | 31.2      |
| 0°-90°    | 1674.9 | 45.2      |
| 90°-120°  | 565.1  | 15.3      |
| 90°-150°  | 1525.9 | 41.2      |
| 90°-180°  | 2030.0 | 54.8      |
| 0°-180°   | 3705.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 494 | 494   | 494 | 494   | 494 |      |
| 5°   | 495 | 493   | 488 | 493   | 492 | 47   |
| 15°  | 472 | 474   | 474 | 480   | 479 | 133  |
| 25°  | 429 | 434   | 441 | 449   | 451 | 197  |
| 35°  | 370 | 382   | 396 | 411   | 416 | 231  |
| 45°  | 303 | 323   | 348 | 370   | 377 | 234  |
| 55°  | 232 | 258   | 295 | 321   | 330 | 208  |
| 65°  | 159 | 194   | 236 | 265   | 275 | 158  |
| 75°  | 88  | 128   | 174 | 204   | 214 | 93   |
| 85°  | 26  | 70    | 116 | 146   | 156 | 27   |
| 90°  | 8   | 56    | 114 | 141   | 150 | 7    |
| 95°  | 34  | 73    | 117 | 145   | 152 | 36   |
| 105° | 122 | 144   | 182 | 208   | 216 | 129  |
| 115° | 223 | 234   | 265 | 286   | 292 | 220  |
| 125° | 321 | 326   | 347 | 365   | 371 | 287  |
| 135° | 414 | 420   | 429 | 443   | 447 | 320  |
| 145° | 502 | 506   | 509 | 514   | 516 | 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°     | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 |
| 2.5°   | 497.1 | 494.9 | 489.9 | 493.5 | 492.1 |
| 5°     | 494.9 | 492.8 | 488.5 | 492.8 | 492.1 |
| 7.5°   | 491.3 | 489.9 | 486.3 | 491.3 | 490.6 |
| 10°    | 487.1 | 485.6 | 483.5 | 489.2 | 488.5 |
| 12.5°  | 479.9 | 480.6 | 479.2 | 484.9 | 484.2 |
| 15°    | 472.0 | 473.5 | 473.5 | 479.9 | 479.2 |
| 17.5°  | 462.0 | 464.9 | 467.0 | 473.5 | 473.5 |
| 20°    | 452.0 | 455.6 | 458.4 | 466.3 | 466.3 |
| 22.5°  | 441.3 | 445.6 | 449.9 | 457.7 | 459.2 |
| 25°    | 429.1 | 434.1 | 440.6 | 449.2 | 451.3 |
| 27.5°  | 414.8 | 422.7 | 429.8 | 440.6 | 442.0 |
| 30°    | 400.5 | 409.8 | 419.1 | 430.6 | 432.7 |
| 32.5°  | 384.8 | 395.5 | 407.0 | 420.5 | 424.8 |
| 35°    | 369.8 | 381.9 | 395.5 | 411.2 | 416.3 |
| 37.5°  | 353.3 | 366.9 | 384.1 | 401.2 | 406.2 |
| 40°    | 336.9 | 352.6 | 371.9 | 390.5 | 396.9 |
| 42.5°  | 321.1 | 336.9 | 359.7 | 380.5 | 386.9 |
| 45°    | 303.2 | 322.6 | 347.6 | 369.8 | 376.9 |
| 47.5°  | 286.1 | 306.8 | 335.4 | 358.3 | 366.2 |
| 50°    | 268.2 | 290.4 | 322.6 | 346.9 | 354.7 |
| 52.5°  | 251.0 | 274.6 | 309.0 | 334.0 | 342.6 |
| 55°    | 232.4 | 258.2 | 295.4 | 321.1 | 330.4 |
| 57.5°  | 214.6 | 243.2 | 280.4 | 308.3 | 317.6 |
| 60°    | 195.3 | 226.0 | 266.8 | 294.0 | 304.0 |
| 62.5°  | 178.1 | 210.3 | 251.0 | 280.4 | 289.7 |
| 65°    | 158.8 | 193.8 | 236.0 | 265.3 | 274.6 |
| 67.5°  | 141.6 | 178.1 | 221.0 | 250.3 | 260.3 |
| 70°    | 123.0 | 160.2 | 204.5 | 235.3 | 243.9 |
| 72.5°  | 105.9 | 144.5 | 189.5 | 219.6 | 230.3 |
| 75°    | 88.0  | 128.0 | 173.8 | 204.5 | 213.8 |
| 77.5°  | 70.8  | 112.3 | 158.8 | 189.5 | 199.5 |
| 80°    | 53.6  | 97.3  | 143.8 | 173.8 | 183.8 |
| 82.5°  | 39.3  | 82.2  | 129.5 | 159.5 | 168.8 |
| 85°    | 25.7  | 70.1  | 115.9 | 145.9 | 155.9 |
| 87.5°  | 15.7  | 58.6  | 104.4 | 133.7 | 143.0 |
| 90°    | 7.7   | 55.7  | 113.6 | 141.1 | 150.3 |
| 92.5°  | 18.5  | 60.8  | 105.0 | 133.5 | 142.0 |
| 95°    | 34.3  | 73.4  | 117.4 | 144.6 | 152.1 |
| 97.5°  | 52.8  | 88.5  | 132.1 | 158.6 | 167.2 |
| 100°   | 74.8  | 105.7 | 147.3 | 173.8 | 181.2 |
| 102.5° | 97.1  | 124.0 | 164.8 | 191.2 | 198.4 |
| 105°   | 121.7 | 144.1 | 182.4 | 208.5 | 216.4 |
| 107.5° | 147.0 | 166.3 | 202.1 | 226.9 | 232.1 |
| 110°   | 170.5 | 188.1 | 223.1 | 246.0 | 252.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 196.8 | 211.5 | 243.9 | 265.1 | 271.9 |
| 115°   | 222.7 | 233.8 | 264.9 | 285.8 | 292.0 |
| 117.5° | 247.7 | 257.9 | 285.1 | 305.0 | 310.4 |
| 120°   | 273.5 | 280.8 | 305.0 | 325.0 | 331.3 |
| 122.5° | 297.1 | 303.4 | 327.1 | 344.7 | 350.1 |
| 125°   | 321.1 | 326.1 | 347.3 | 365.0 | 370.9 |
| 127.5° | 345.3 | 350.7 | 367.8 | 383.5 | 388.2 |
| 130°   | 367.8 | 374.3 | 388.2 | 404.3 | 407.8 |
| 132.5° | 393.1 | 397.9 | 409.2 | 422.9 | 427.0 |
| 135°   | 414.4 | 420.4 | 428.7 | 443.2 | 447.2 |
| 137.5° | 438.6 | 443.5 | 448.2 | 461.3 | 464.1 |
| 140°   | 460.0 | 464.2 | 468.4 | 479.9 | 482.0 |
| 142.5° | 482.0 | 486.2 | 487.9 | 497.0 | 498.4 |
| 145°   | 502.1 | 506.0 | 509.3 | 514.1 | 515.5 |
| 147.5° | 520.8 | 525.8 | 528.0 | 529.8 | 529.8 |
| 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)