

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: P1009641

Luminaire Tested: S122DIP-B865D925UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009641  
REPORT IS A COMBINATION OF REPORTS P985005 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B865D925UB40-4F0-XX-W2A-D4  
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

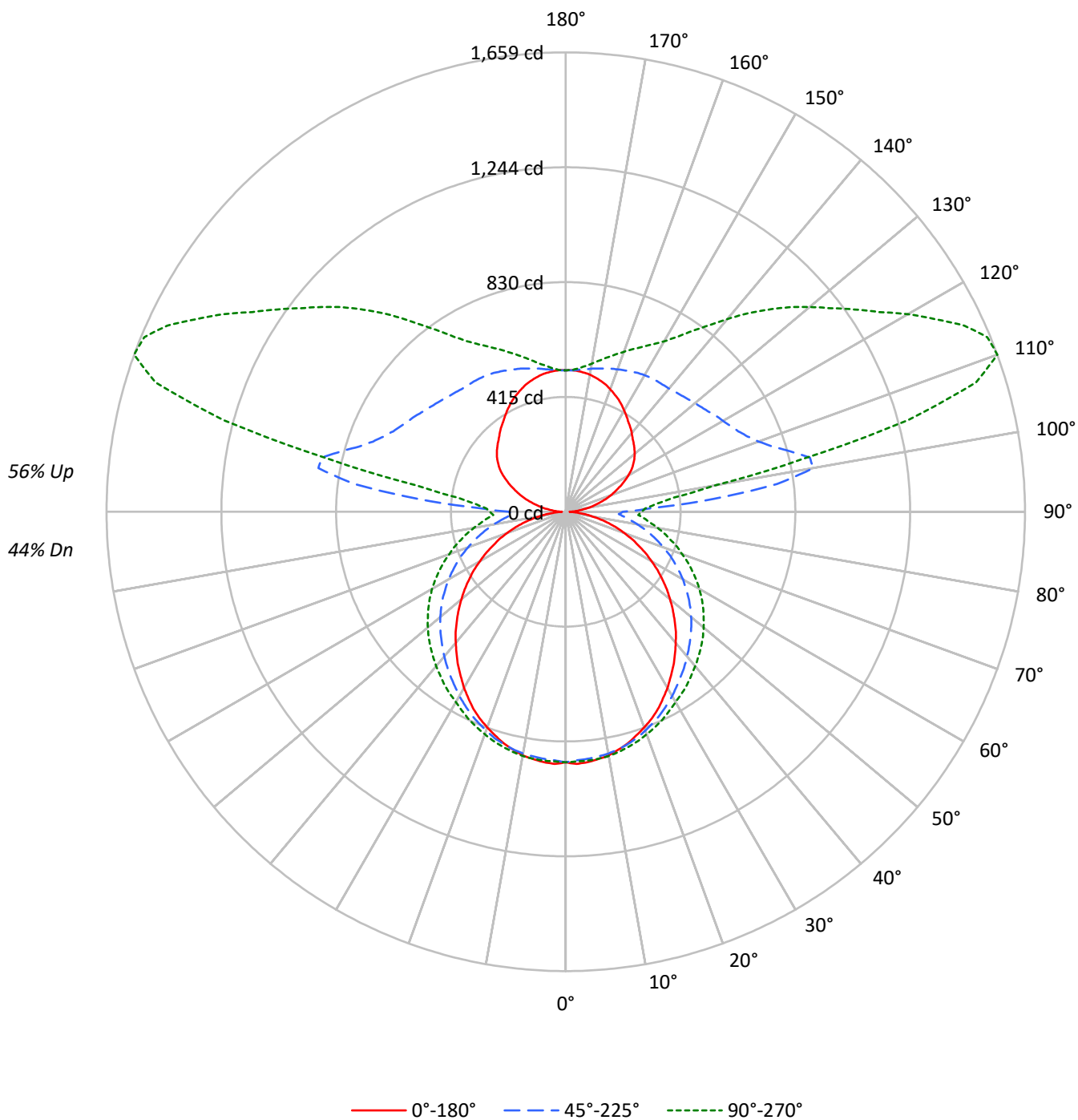
Lumens per Lamp: N/A  
Luminaire Lumens: 7018.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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 | 80 | 80 | 80 | 65 | 65 | 65 | 50 | 50 | 50 |
| 1   | 95  | 90  | 86  | 82  | 87 | 82 | 79 | 75 | 68 | 65 | 63 | 55 | 53 | 51 | 42 | 41 | 40 |
| 2   | 86  | 78  | 71  | 66  | 78 | 71 | 66 | 61 | 59 | 55 | 51 | 47 | 44 | 42 | 37 | 34 | 33 |
| 3   | 78  | 68  | 60  | 54  | 71 | 62 | 56 | 50 | 51 | 46 | 42 | 41 | 38 | 35 | 32 | 29 | 27 |
| 4   | 71  | 60  | 52  | 45  | 65 | 55 | 48 | 42 | 45 | 40 | 36 | 37 | 32 | 29 | 28 | 25 | 23 |
| 5   | 65  | 53  | 45  | 39  | 59 | 49 | 41 | 36 | 40 | 35 | 30 | 33 | 28 | 25 | 25 | 22 | 20 |
| 6   | 60  | 48  | 39  | 33  | 54 | 44 | 36 | 31 | 36 | 31 | 26 | 29 | 25 | 22 | 23 | 20 | 17 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 |
| 8   | 51  | 39  | 31  | 25  | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 9   | 48  | 35  | 28  | 22  | 43 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 14 | 12 |
| 10  | 44  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 16 | 14 | 16 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14326 | 14326 | 14326 |
| 5°  | 14390 | 13714 | 13636 |
| 10° | 14294 | 13239 | 13046 |
| 15° | 14091 | 12747 | 12439 |
| 20° | 13837 | 12231 | 11864 |
| 25° | 13585 | 11737 | 11343 |
| 30° | 13234 | 11236 | 10827 |
| 35° | 12878 | 10751 | 10447 |
| 40° | 12502 | 10333 | 10070 |
| 45° | 12145 | 9953  | 9742  |
| 50° | 11761 | 9603  | 9417  |
| 55° | 11357 | 9232  | 9087  |
| 60° | 10863 | 8845  | 8741  |
| 65° | 10352 | 8400  | 8341  |
| 70° | 9770  | 7922  | 7911  |
| 75° | 9023  | 7444  | 7505  |
| 80° | 7856  | 6946  | 7087  |
| 85° | 6667  | 6480  | 6723  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.8   | 1.2       |
| 10°-20°   | 246.0  | 3.5       |
| 20°-30°   | 372.8  | 5.3       |
| 30°-40°   | 454.0  | 6.5       |
| 40°-50°   | 488.4  | 7.0       |
| 50°-60°   | 474.4  | 6.8       |
| 60°-70°   | 414.3  | 5.9       |
| 70°-80°   | 318.8  | 4.5       |
| 80°-90°   | 216.8  | 3.1       |
| 90°-100°  | 354.4  | 5.1       |
| 100°-110° | 807.7  | 11.5      |
| 110°-120° | 807.0  | 11.5      |
| 120°-130° | 644.7  | 9.2       |
| 130°-140° | 502.9  | 7.2       |
| 140°-150° | 370.2  | 5.3       |
| 150°-160° | 258.3  | 3.7       |
| 160°-170° | 152.1  | 2.2       |
| 170°-180° | 49.5   | 0.7       |
| 0°-30°    | 704.6  | 10.0      |
| 0°-40°    | 1158.6 | 16.5      |
| 0°-60°    | 2121.4 | 30.2      |
| 0°-90°    | 3071.3 | 43.8      |
| 90°-120°  | 1969.1 | 28.1      |
| 90°-150°  | 3486.9 | 49.7      |
| 90°-180°  | 3947.0 | 56.2      |
| 0°-180°   | 7018.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 905 | 905   | 905 | 905   | 905  |      |
| 5°   | 908 | 904   | 896 | 904   | 902  | 86   |
| 15°  | 866 | 868   | 868 | 880   | 879  | 244  |
| 25°  | 787 | 796   | 808 | 824   | 828  | 362  |
| 35°  | 678 | 700   | 725 | 754   | 763  | 424  |
| 45°  | 556 | 592   | 637 | 678   | 691  | 429  |
| 55°  | 426 | 474   | 542 | 589   | 606  | 381  |
| 65°  | 291 | 355   | 433 | 487   | 504  | 289  |
| 75°  | 161 | 235   | 319 | 375   | 392  | 171  |
| 85°  | 47  | 128   | 212 | 268   | 286  | 50   |
| 90°  | 14  | 102   | 206 | 258   | 274  | 11   |
| 95°  | 45  | 157   | 536 | 346   | 328  | 44   |
| 105° | 126 | 225   | 841 | 1460  | 1280 | 135  |
| 115° | 216 | 286   | 688 | 1375  | 1590 | 214  |
| 125° | 297 | 351   | 630 | 1098  | 1274 | 265  |
| 135° | 347 | 414   | 593 | 898   | 1032 | 269  |
| 145° | 395 | 454   | 576 | 723   | 796  | 248  |
| 155° | 449 | 485   | 559 | 632   | 657  | 207  |
| 165° | 489 | 504   | 535 | 568   | 577  | 138  |
| 175° | 510 | 510   | 515 | 521   | 520  | 48   |
| 180° | 511 | 511   | 511 | 511   | 511  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 0°     | 905.0 | 905.0 | 905.0 | 905.0  | 905.0  |
| 2.5°   | 911.5 | 907.6 | 898.4 | 905.0  | 902.3  |
| 5°     | 907.6 | 903.6 | 895.8 | 903.6  | 902.3  |
| 7.5°   | 901.0 | 898.4 | 891.8 | 901.0  | 899.7  |
| 10°    | 893.2 | 890.5 | 886.6 | 897.1  | 895.8  |
| 12.5°  | 880.0 | 881.3 | 878.7 | 889.2  | 887.9  |
| 15°    | 865.6 | 868.2 | 868.2 | 880.0  | 878.7  |
| 17.5°  | 847.2 | 852.5 | 856.4 | 868.2  | 868.2  |
| 20°    | 828.9 | 835.4 | 840.7 | 855.1  | 855.1  |
| 22.5°  | 809.2 | 817.1 | 825.0 | 839.4  | 842.0  |
| 25°    | 786.9 | 796.1 | 807.9 | 823.6  | 827.6  |
| 27.5°  | 760.7 | 775.1 | 788.2 | 807.9  | 810.5  |
| 30°    | 734.5 | 751.5 | 768.6 | 789.5  | 793.5  |
| 32.5°  | 705.6 | 725.3 | 746.3 | 771.2  | 779.1  |
| 35°    | 678.1 | 700.4 | 725.3 | 754.1  | 763.3  |
| 37.5°  | 647.9 | 672.8 | 704.3 | 735.8  | 745.0  |
| 40°    | 617.7 | 646.6 | 682.0 | 716.1  | 727.9  |
| 42.5°  | 588.9 | 617.7 | 659.7 | 697.7  | 709.5  |
| 45°    | 556.1 | 591.5 | 637.4 | 678.1  | 691.2  |
| 47.5°  | 524.6 | 562.6 | 615.1 | 657.1  | 671.5  |
| 50°    | 491.8 | 532.5 | 591.5 | 636.1  | 650.5  |
| 52.5°  | 460.3 | 503.6 | 566.6 | 612.5  | 628.2  |
| 55°    | 426.2 | 473.5 | 541.7 | 588.9  | 605.9  |
| 57.5°  | 393.5 | 445.9 | 514.1 | 565.3  | 582.3  |
| 60°    | 358.0 | 414.4 | 489.2 | 539.0  | 557.4  |
| 62.5°  | 326.6 | 385.6 | 460.3 | 514.1  | 531.2  |
| 65°    | 291.2 | 355.4 | 432.8 | 486.6  | 503.6  |
| 67.5°  | 259.7 | 326.6 | 405.3 | 459.0  | 477.4  |
| 70°    | 225.6 | 293.8 | 375.1 | 431.5  | 447.2  |
| 72.5°  | 194.1 | 264.9 | 347.6 | 402.6  | 422.3  |
| 75°    | 161.3 | 234.8 | 318.7 | 375.1  | 392.1  |
| 77.5°  | 129.8 | 205.9 | 291.2 | 347.6  | 365.9  |
| 80°    | 98.4  | 178.4 | 263.6 | 318.7  | 337.1  |
| 82.5°  | 72.1  | 150.8 | 237.4 | 292.5  | 309.5  |
| 85°    | 47.2  | 128.5 | 212.5 | 267.6  | 285.9  |
| 87.5°  | 28.9  | 107.5 | 191.5 | 245.3  | 262.3  |
| 90°    | 14.1  | 102.4 | 206.5 | 257.5  | 273.7  |
| 92.5°  | 26.5  | 128.0 | 312.6 | 282.2  | 288.1  |
| 95°    | 44.9  | 156.6 | 535.9 | 346.1  | 328.4  |
| 97.5°  | 60.3  | 177.1 | 769.4 | 482.0  | 393.5  |
| 100°   | 84.8  | 194.2 | 907.3 | 760.9  | 545.8  |
| 102.5° | 106.1 | 210.2 | 903.0 | 1151.6 | 869.3  |
| 105°   | 126.5 | 225.4 | 840.8 | 1460.0 | 1280.3 |
| 107.5° | 150.0 | 240.4 | 782.5 | 1564.9 | 1553.7 |
| 110°   | 172.2 | 256.0 | 741.2 | 1535.7 | 1659.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 193.8 | 271.8 | 710.5 | 1463.2 | 1648.1 |
| 115°   | 216.4 | 286.4 | 687.8 | 1375.0 | 1589.5 |
| 117.5° | 238.7 | 302.2 | 670.8 | 1291.8 | 1506.3 |
| 120°   | 260.3 | 317.6 | 656.0 | 1214.9 | 1427.3 |
| 122.5° | 280.9 | 334.8 | 644.2 | 1154.2 | 1342.8 |
| 125°   | 297.3 | 351.4 | 630.1 | 1098.3 | 1273.7 |
| 127.5° | 312.1 | 368.2 | 619.3 | 1048.0 | 1207.2 |
| 130°   | 324.8 | 384.4 | 609.5 | 998.6  | 1150.5 |
| 132.5° | 336.6 | 400.2 | 600.6 | 947.6  | 1093.2 |
| 135°   | 347.1 | 414.0 | 593.1 | 897.7  | 1032.0 |
| 137.5° | 357.9 | 425.7 | 586.6 | 847.2  | 971.4  |
| 140°   | 370.7 | 435.2 | 580.3 | 801.7  | 908.8  |
| 142.5° | 383.5 | 444.1 | 577.7 | 758.9  | 847.6  |
| 145°   | 394.9 | 453.9 | 575.7 | 722.6  | 796.4  |
| 147.5° | 408.7 | 461.8 | 572.8 | 691.0  | 748.9  |
| 150°   | 422.5 | 469.6 | 569.8 | 668.0  | 710.3  |
| 152.5° | 436.2 | 477.4 | 564.9 | 649.9  | 681.8  |
| 155°   | 449.0 | 484.8 | 559.0 | 632.2  | 657.3  |
| 157.5° | 459.8 | 490.7 | 553.1 | 615.5  | 635.6  |
| 160°   | 470.6 | 496.6 | 547.2 | 598.8  | 615.0  |
| 162.5° | 481.4 | 501.0 | 542.3 | 583.0  | 595.4  |
| 165°   | 489.3 | 504.0 | 535.4 | 567.8  | 576.7  |
| 167.5° | 496.1 | 507.0 | 529.5 | 554.1  | 559.0  |
| 170°   | 503.0 | 508.4 | 524.6 | 541.3  | 543.3  |
| 172.5° | 506.9 | 509.9 | 518.7 | 530.0  | 530.5  |
| 175°   | 509.9 | 510.4 | 514.8 | 521.2  | 519.7  |
| 177.5° | 511.9 | 510.9 | 510.9 | 514.8  | 511.9  |
| 180°   | 510.9 | 510.9 | 510.9 | 510.9  | 510.9  |

(END OF REPORT)