

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: P1013101

Luminaire Tested: S124DIP-B575D365UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013101  
REPORT IS A COMBINATION OF REPORTS P996161 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D365UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

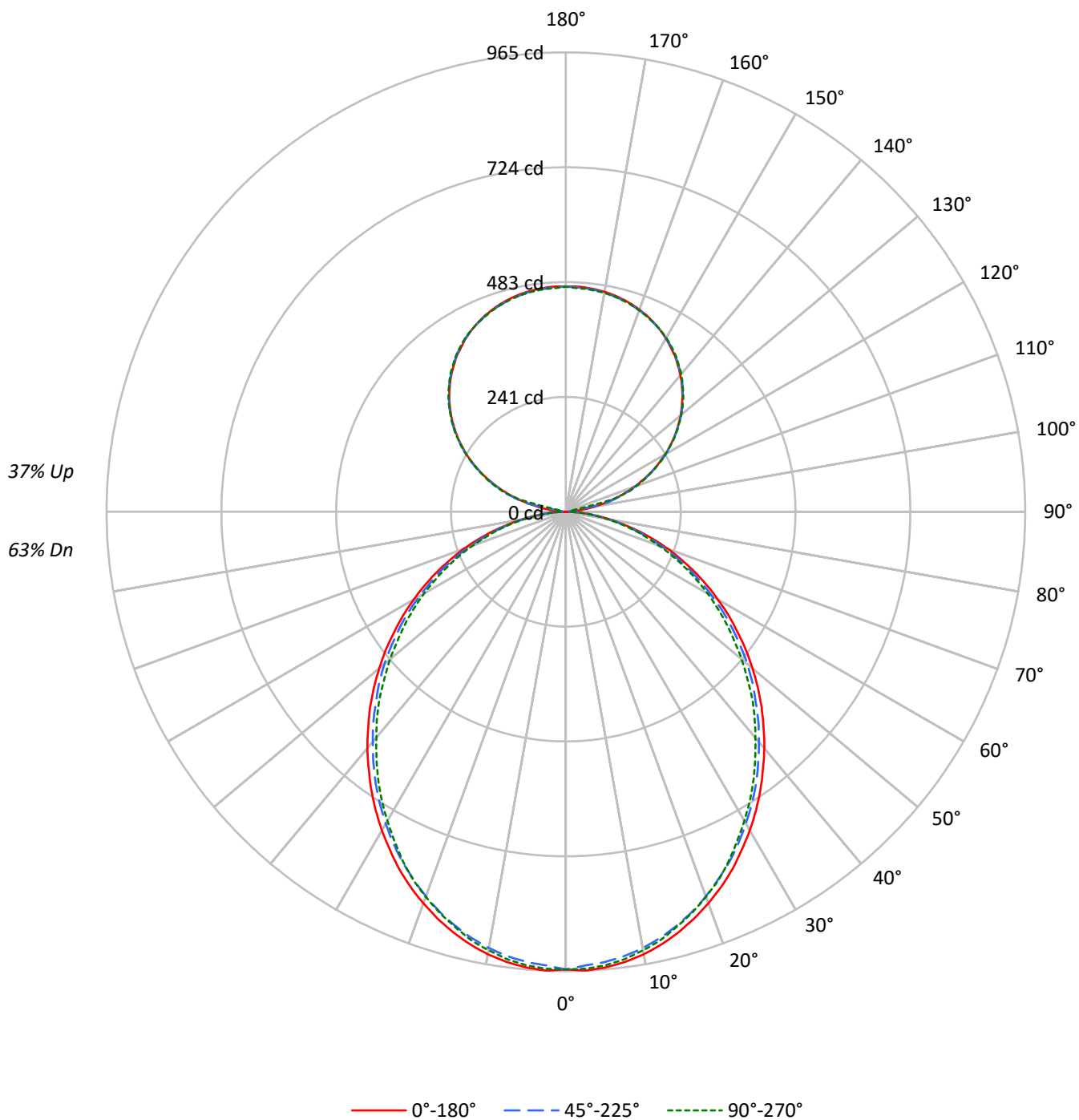
Lumens per Lamp: N/A  
Luminaire Lumens: 3932.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 33.3  
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 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 79 | 79 | 79 | 68 | 68 | 68 | 68 | 68 | 63 |
| 1   | 101 | 96  | 92  | 89  | 94  | 90  | 87  | 84  | 79 | 77 | 74 | 69 | 67 | 66 | 60 | 59 | 57 | 57 | 57 | 53 |
| 2   | 92  | 84  | 78  | 72  | 86  | 79  | 73  | 69  | 70 | 65 | 62 | 61 | 58 | 55 | 53 | 50 | 48 | 48 | 48 | 44 |
| 3   | 84  | 74  | 66  | 60  | 78  | 70  | 63  | 57  | 61 | 56 | 52 | 54 | 50 | 46 | 47 | 44 | 41 | 41 | 41 | 37 |
| 4   | 77  | 65  | 57  | 51  | 71  | 62  | 54  | 49  | 55 | 49 | 44 | 48 | 43 | 40 | 42 | 38 | 35 | 35 | 35 | 32 |
| 5   | 70  | 58  | 50  | 44  | 66  | 55  | 48  | 42  | 49 | 43 | 38 | 43 | 38 | 34 | 38 | 34 | 31 | 31 | 31 | 28 |
| 6   | 65  | 52  | 44  | 38  | 61  | 50  | 42  | 37  | 44 | 38 | 33 | 39 | 34 | 30 | 34 | 30 | 27 | 27 | 27 | 25 |
| 7   | 60  | 47  | 39  | 34  | 56  | 45  | 37  | 32  | 40 | 34 | 29 | 36 | 31 | 27 | 31 | 27 | 24 | 24 | 24 | 22 |
| 8   | 56  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 22 | 22 | 22 | 19 |
| 9   | 52  | 39  | 32  | 27  | 49  | 37  | 30  | 26  | 34 | 28 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 20 | 20 | 18 |
| 10  | 49  | 36  | 29  | 24  | 46  | 34  | 28  | 23  | 31 | 25 | 21 | 28 | 23 | 20 | 25 | 21 | 18 | 18 | 18 | 16 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7841 | 7841 | 7841 |
| 5°  | 7848 | 7615 | 7625 |
| 10° | 7781 | 7404 | 7353 |
| 15° | 7669 | 7153 | 7045 |
| 20° | 7527 | 6880 | 6726 |
| 25° | 7367 | 6594 | 6384 |
| 30° | 7173 | 6283 | 6008 |
| 35° | 6973 | 5965 | 5644 |
| 40° | 6763 | 5623 | 5258 |
| 45° | 6545 | 5280 | 4896 |
| 50° | 6302 | 4947 | 4495 |
| 55° | 6038 | 4558 | 4098 |
| 60° | 5770 | 4133 | 3683 |
| 65° | 5461 | 3693 | 3217 |
| 70° | 5104 | 3164 | 2717 |
| 75° | 4573 | 2550 | 2176 |
| 80° | 3899 | 1844 | 1530 |
| 85° | 3027 | 1028 | 824  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6545 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.6   | 2.3       |
| 10°-20°   | 255.3  | 6.5       |
| 20°-30°   | 375.8  | 9.6       |
| 30°-40°   | 436.8  | 11.1      |
| 40°-50°   | 436.8  | 11.1      |
| 50°-60°   | 382.0  | 9.7       |
| 60°-70°   | 283.6  | 7.2       |
| 70°-80°   | 160.9  | 4.1       |
| 80°-90°   | 47.1   | 1.2       |
| 90°-100°  | 15.7   | 0.4       |
| 100°-110° | 103.4  | 2.6       |
| 110°-120° | 197.4  | 5.0       |
| 120°-130° | 250.5  | 6.4       |
| 130°-140° | 268.0  | 6.8       |
| 140°-150° | 250.6  | 6.4       |
| 150°-160° | 202.1  | 5.1       |
| 160°-170° | 130.3  | 3.3       |
| 170°-180° | 44.9   | 1.1       |
| 0°-30°    | 721.7  | 18.4      |
| 0°-40°    | 1158.6 | 29.5      |
| 0°-60°    | 1977.4 | 50.3      |
| 0°-90°    | 2469.0 | 62.8      |
| 90°-120°  | 316.4  | 8.0       |
| 90°-150°  | 1085.6 | 27.6      |
| 90°-180°  | 1463.0 | 37.2      |
| 0°-180°   | 3932.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 962 | 962   | 962 | 962   | 962 |      |
| 5°   | 961 | 958   | 949 | 958   | 956 | 91   |
| 15°  | 914 | 912   | 900 | 904   | 902 | 258  |
| 25°  | 828 | 823   | 812 | 813   | 810 | 381  |
| 35°  | 713 | 707   | 696 | 691   | 687 | 446  |
| 45°  | 582 | 576   | 564 | 556   | 553 | 448  |
| 55°  | 440 | 438   | 427 | 418   | 413 | 394  |
| 65°  | 298 | 294   | 287 | 279   | 275 | 295  |
| 75°  | 159 | 155   | 151 | 148   | 147 | 168  |
| 85°  | 42  | 42    | 40  | 40    | 39  | 45   |
| 90°  | 1   | 5     | 8   | 10    | 11  | 4    |
| 95°  | 19  | 7     | 8   | 10    | 10  | 24   |
| 105° | 106 | 109   | 110 | 114   | 101 | 111  |
| 115° | 199 | 200   | 199 | 200   | 200 | 196  |
| 125° | 279 | 281   | 280 | 281   | 282 | 249  |
| 135° | 347 | 346   | 348 | 348   | 349 | 267  |
| 145° | 400 | 401   | 401 | 401   | 402 | 250  |
| 155° | 438 | 438   | 437 | 439   | 438 | 202  |
| 165° | 462 | 460   | 460 | 463   | 460 | 131  |
| 175° | 473 | 471   | 471 | 474   | 470 | 45   |
| 180° | 473 | 473   | 473 | 473   | 473 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 961.5 | 961.5 | 961.5 | 961.5 | 961.5 |
| 2.5°   | 964.6 | 962.3 | 953.8 | 961.5 | 960.8 |
| 5°     | 960.8 | 957.7 | 949.2 | 957.7 | 956.2 |
| 7.5°   | 953.8 | 950.8 | 941.5 | 948.4 | 947.7 |
| 10°    | 943.8 | 940.7 | 930.7 | 936.9 | 935.4 |
| 12.5°  | 930.7 | 927.6 | 916.9 | 923.8 | 921.5 |
| 15°    | 914.5 | 911.5 | 899.9 | 904.5 | 902.2 |
| 17.5°  | 896.1 | 892.2 | 881.4 | 884.5 | 883.0 |
| 20°    | 875.3 | 871.4 | 859.8 | 862.2 | 860.6 |
| 22.5°  | 852.9 | 847.5 | 836.0 | 840.6 | 837.5 |
| 25°    | 828.3 | 822.9 | 812.1 | 812.8 | 809.8 |
| 27.5°  | 800.5 | 795.1 | 785.1 | 783.6 | 779.7 |
| 30°    | 772.8 | 766.6 | 756.6 | 753.5 | 749.7 |
| 32.5°  | 743.5 | 738.1 | 727.3 | 723.5 | 719.6 |
| 35°    | 712.7 | 707.3 | 696.5 | 691.1 | 687.3 |
| 37.5°  | 680.3 | 675.7 | 664.1 | 658.8 | 653.4 |
| 40°    | 648.7 | 642.6 | 631.0 | 623.3 | 619.5 |
| 42.5°  | 614.8 | 611.8 | 598.7 | 589.4 | 587.1 |
| 45°    | 581.7 | 576.3 | 564.0 | 555.5 | 553.2 |
| 47.5°  | 547.0 | 543.2 | 531.6 | 522.4 | 516.2 |
| 50°    | 511.6 | 508.5 | 497.7 | 486.9 | 482.3 |
| 52.5°  | 476.9 | 473.1 | 461.5 | 452.3 | 446.1 |
| 55°    | 439.9 | 437.6 | 426.8 | 417.6 | 413.0 |
| 57.5°  | 405.3 | 403.0 | 392.2 | 382.9 | 378.3 |
| 60°    | 369.1 | 365.2 | 355.2 | 348.3 | 344.4 |
| 62.5°  | 333.6 | 330.5 | 319.7 | 313.6 | 309.7 |
| 65°    | 298.2 | 294.3 | 286.6 | 278.9 | 275.1 |
| 67.5°  | 262.0 | 258.9 | 251.2 | 243.5 | 242.7 |
| 70°    | 228.8 | 223.4 | 217.3 | 211.1 | 208.8 |
| 72.5°  | 193.4 | 188.0 | 183.4 | 178.7 | 176.4 |
| 75°    | 158.7 | 154.9 | 151.0 | 147.9 | 147.2 |
| 77.5°  | 124.8 | 123.3 | 119.4 | 118.7 | 116.3 |
| 80°    | 94.8  | 92.5  | 90.9  | 89.4  | 88.6  |
| 82.5°  | 65.5  | 64.7  | 64.7  | 63.9  | 63.2  |
| 85°    | 41.6  | 41.6  | 40.1  | 40.1  | 39.3  |
| 87.5°  | 20.0  | 19.3  | 18.5  | 18.5  | 18.5  |
| 90°    | 1.1   | 5.0   | 7.8   | 9.9   | 10.6  |
| 92.5°  | 5.3   | 4.6   | 7.4   | 9.5   | 9.5   |
| 95°    | 19.4  | 7.4   | 7.8   | 9.9   | 10.3  |
| 97.5°  | 37.1  | 44.9  | 7.8   | 9.5   | 9.9   |
| 100°   | 58.0  | 64.4  | 15.6  | 9.5   | 9.9   |
| 102.5° | 81.3  | 85.6  | 89.8  | 10.3  | 10.3  |
| 105°   | 106.4 | 108.6 | 110.3 | 113.5 | 100.8 |
| 107.5° | 129.4 | 130.5 | 133.0 | 134.7 | 136.1 |
| 110°   | 152.8 | 153.8 | 156.0 | 156.7 | 157.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 175.4 | 177.5 | 178.2 | 177.9 | 179.3 |
| 115°   | 198.7 | 199.8 | 199.4 | 200.2 | 200.2 |
| 117.5° | 219.6 | 221.0 | 222.1 | 221.7 | 221.7 |
| 120°   | 240.8 | 242.2 | 241.9 | 242.6 | 241.9 |
| 122.5° | 260.6 | 261.3 | 262.0 | 262.4 | 261.7 |
| 125°   | 279.4 | 280.8 | 280.1 | 281.1 | 281.5 |
| 127.5° | 297.4 | 297.8 | 299.5 | 299.2 | 298.8 |
| 130°   | 314.7 | 315.1 | 316.1 | 316.5 | 316.5 |
| 132.5° | 330.6 | 331.4 | 332.8 | 333.1 | 332.8 |
| 135°   | 346.6 | 346.2 | 347.6 | 348.3 | 349.0 |
| 137.5° | 360.7 | 360.7 | 362.5 | 363.2 | 362.8 |
| 140°   | 374.5 | 375.2 | 375.9 | 377.0 | 377.3 |
| 142.5° | 386.9 | 388.3 | 388.6 | 389.3 | 389.3 |
| 145°   | 399.6 | 400.7 | 400.7 | 401.0 | 401.7 |
| 147.5° | 409.5 | 411.6 | 411.3 | 411.6 | 412.0 |
| 150°   | 420.5 | 421.9 | 421.5 | 421.5 | 421.9 |
| 152.5° | 429.7 | 430.7 | 430.0 | 430.7 | 430.4 |
| 155°   | 438.1 | 438.5 | 437.4 | 438.9 | 437.8 |
| 157.5° | 445.6 | 445.6 | 444.2 | 445.9 | 444.2 |
| 160°   | 451.9 | 450.9 | 450.5 | 452.6 | 450.5 |
| 162.5° | 457.6 | 456.2 | 455.8 | 458.0 | 455.5 |
| 165°   | 462.2 | 460.4 | 460.4 | 463.3 | 460.1 |
| 167.5° | 466.1 | 464.3 | 464.0 | 467.1 | 463.6 |
| 170°   | 469.3 | 467.1 | 467.5 | 470.3 | 466.8 |
| 172.5° | 471.4 | 469.3 | 469.6 | 472.5 | 468.6 |
| 175°   | 472.8 | 470.7 | 471.0 | 474.2 | 470.0 |
| 177.5° | 473.9 | 471.4 | 472.1 | 474.9 | 470.7 |
| 180°   | 472.8 | 472.8 | 472.8 | 472.8 | 472.8 |

(END OF REPORT)