

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: P1025549

Luminaire Tested: S124DIP-B575D1205UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025549  
REPORT IS A COMBINATION OF REPORTS P996119 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1205UB35-4F0-XX-W2A-F1  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

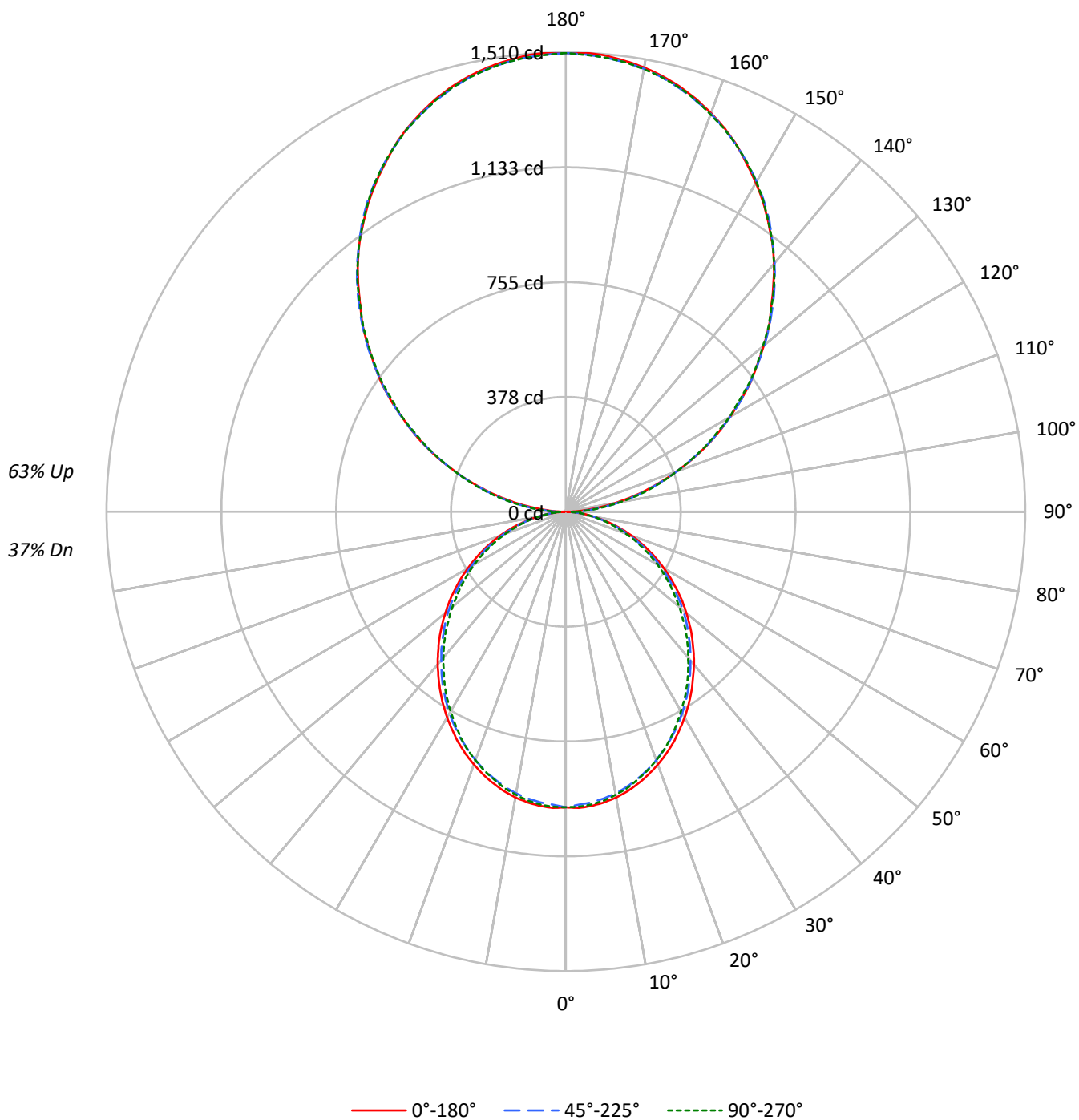
Lumens per Lamp: N/A  
Luminaire Lumens: 6680.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 59  
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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 37 |    |    |
| 1   | 95  | 91  | 87  | 83  | 86 | 82 | 79 | 76 | 67 | 65 | 62 | 52 | 51 | 50 | 39 | 38 | 37 | 31 |    |    |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 44 | 41 | 35 | 33 | 32 | 26 |    |    |
| 3   | 79  | 70  | 62  | 57  | 71 | 63 | 57 | 52 | 52 | 47 | 43 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |    |    |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |    |    |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 25 | 22 | 20 | 17 |    |    |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |    |    |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |    |    |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |    |    |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 10 |    |    |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 25 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 12 | 9  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7920 | 7920 | 7920 |
| 5°  | 7927 | 7692 | 7702 |
| 10° | 7860 | 7479 | 7426 |
| 15° | 7747 | 7225 | 7116 |
| 20° | 7603 | 6951 | 6794 |
| 25° | 7441 | 6660 | 6449 |
| 30° | 7246 | 6347 | 6069 |
| 35° | 7043 | 6026 | 5701 |
| 40° | 6832 | 5680 | 5310 |
| 45° | 6611 | 5333 | 4946 |
| 50° | 6367 | 4997 | 4541 |
| 55° | 6100 | 4605 | 4140 |
| 60° | 5828 | 4175 | 3721 |
| 65° | 5516 | 3730 | 3249 |
| 70° | 5156 | 3196 | 2744 |
| 75° | 4619 | 2575 | 2199 |
| 80° | 3936 | 1862 | 1546 |
| 85° | 3056 | 1038 | 832  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6611 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.5   | 1.4       |
| 10°-20°   | 257.9  | 3.9       |
| 20°-30°   | 379.6  | 5.7       |
| 30°-40°   | 441.2  | 6.6       |
| 40°-50°   | 441.2  | 6.6       |
| 50°-60°   | 385.9  | 5.8       |
| 60°-70°   | 286.5  | 4.3       |
| 70°-80°   | 162.5  | 2.4       |
| 80°-90°   | 49.8   | 0.7       |
| 90°-100°  | 98.3   | 1.5       |
| 100°-110° | 294.4  | 4.4       |
| 110°-120° | 500.1  | 7.5       |
| 120°-130° | 659.6  | 9.9       |
| 130°-140° | 740.8  | 11.1      |
| 140°-150° | 728.1  | 10.9      |
| 150°-160° | 612.4  | 9.2       |
| 160°-170° | 407.5  | 6.1       |
| 170°-180° | 142.7  | 2.1       |
| 0°-30°    | 729.1  | 10.9      |
| 0°-40°    | 1170.3 | 17.5      |
| 0°-60°    | 1997.4 | 29.9      |
| 0°-90°    | 2496.2 | 37.4      |
| 90°-120°  | 892.8  | 13.4      |
| 90°-150°  | 3021.3 | 45.2      |
| 90°-180°  | 4184.0 | 62.6      |
| 0°-180°   | 6680.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 971  | 971   | 971  | 971   | 971  |      |
| 5°   | 970  | 967   | 959  | 967   | 966  | 92   |
| 15°  | 924  | 921   | 909  | 914   | 911  | 260  |
| 25°  | 837  | 831   | 820  | 821   | 818  | 385  |
| 35°  | 720  | 714   | 704  | 698   | 694  | 450  |
| 45°  | 588  | 582   | 570  | 561   | 559  | 453  |
| 55°  | 444  | 442   | 431  | 422   | 417  | 398  |
| 65°  | 301  | 297   | 290  | 282   | 278  | 298  |
| 75°  | 160  | 156   | 152  | 149   | 149  | 170  |
| 85°  | 42   | 42    | 40   | 40    | 40   | 45   |
| 90°  | 4    | 16    | 26   | 33    | 35   | 8    |
| 95°  | 70   | 80    | 89   | 92    | 92   | 76   |
| 105° | 272  | 273   | 278  | 281   | 284  | 288  |
| 115° | 508  | 508   | 506  | 505   | 504  | 501  |
| 125° | 740  | 740   | 739  | 737   | 735  | 660  |
| 135° | 955  | 962   | 962  | 960   | 956  | 739  |
| 145° | 1160 | 1165  | 1166 | 1165  | 1162 | 726  |
| 155° | 1329 | 1329  | 1328 | 1333  | 1328 | 612  |
| 165° | 1447 | 1444  | 1441 | 1448  | 1444 | 408  |
| 175° | 1506 | 1500  | 1498 | 1507  | 1498 | 143  |
| 180° | 1508 | 1508  | 1508 | 1508  | 1508 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 971.3 | 971.3 | 971.3 | 971.3 | 971.3 |
| 2.5°   | 974.4 | 972.1 | 963.5 | 971.3 | 970.5 |
| 5°     | 970.5 | 967.4 | 958.8 | 967.4 | 965.8 |
| 7.5°   | 963.5 | 960.4 | 951.1 | 958.1 | 957.3 |
| 10°    | 953.4 | 950.3 | 940.2 | 946.4 | 944.8 |
| 12.5°  | 940.2 | 937.0 | 926.1 | 933.2 | 930.8 |
| 15°    | 923.8 | 920.7 | 909.0 | 913.7 | 911.4 |
| 17.5°  | 905.1 | 901.2 | 890.3 | 893.5 | 891.9 |
| 20°    | 884.1 | 880.2 | 868.6 | 870.9 | 869.3 |
| 22.5°  | 861.6 | 856.1 | 844.4 | 849.1 | 846.0 |
| 25°    | 836.6 | 831.2 | 820.3 | 821.1 | 818.0 |
| 27.5°  | 808.6 | 803.2 | 793.1 | 791.5 | 787.6 |
| 30°    | 780.6 | 774.4 | 764.3 | 761.2 | 757.3 |
| 32.5°  | 751.0 | 745.6 | 734.7 | 730.8 | 726.9 |
| 35°    | 719.9 | 714.5 | 703.6 | 698.1 | 694.2 |
| 37.5°  | 687.2 | 682.5 | 670.9 | 665.4 | 660.0 |
| 40°    | 655.3 | 649.1 | 637.4 | 629.6 | 625.7 |
| 42.5°  | 621.1 | 618.0 | 604.7 | 595.4 | 593.0 |
| 45°    | 587.6 | 582.2 | 569.7 | 561.1 | 558.8 |
| 47.5°  | 552.6 | 548.7 | 537.0 | 527.7 | 521.4 |
| 50°    | 516.8 | 513.7 | 502.8 | 491.9 | 487.2 |
| 52.5°  | 481.8 | 477.9 | 466.2 | 456.8 | 450.6 |
| 55°    | 444.4 | 442.1 | 431.2 | 421.8 | 417.2 |
| 57.5°  | 409.4 | 407.0 | 396.1 | 386.8 | 382.1 |
| 60°    | 372.8 | 368.9 | 358.8 | 351.8 | 347.9 |
| 62.5°  | 337.0 | 333.9 | 323.0 | 316.8 | 312.9 |
| 65°    | 301.2 | 297.3 | 289.5 | 281.7 | 277.8 |
| 67.5°  | 264.6 | 261.5 | 253.7 | 245.9 | 245.2 |
| 70°    | 231.1 | 225.7 | 219.5 | 213.2 | 210.9 |
| 72.5°  | 195.3 | 189.9 | 185.2 | 180.6 | 178.2 |
| 75°    | 160.3 | 156.4 | 152.5 | 149.4 | 148.7 |
| 77.5°  | 126.1 | 124.5 | 120.6 | 119.9 | 117.5 |
| 80°    | 95.7  | 93.4  | 91.8  | 90.3  | 89.5  |
| 82.5°  | 66.2  | 65.4  | 65.4  | 64.6  | 63.8  |
| 85°    | 42.0  | 42.0  | 40.5  | 40.5  | 39.7  |
| 87.5°  | 20.2  | 19.5  | 18.7  | 18.7  | 18.7  |
| 90°    | 3.5   | 16.3  | 25.7  | 32.7  | 35.0  |
| 92.5°  | 30.3  | 45.5  | 51.3  | 54.8  | 56.0  |
| 95°    | 70.0  | 80.5  | 88.6  | 92.1  | 92.1  |
| 97.5°  | 112.0 | 121.3 | 130.6 | 135.3 | 135.3 |
| 100°   | 163.3 | 167.9 | 178.4 | 180.8 | 180.8 |
| 102.5° | 216.9 | 218.1 | 227.4 | 230.9 | 232.1 |
| 105°   | 271.7 | 272.9 | 277.6 | 281.0 | 284.5 |
| 107.5° | 328.9 | 330.0 | 331.2 | 335.9 | 334.7 |
| 110°   | 387.2 | 389.5 | 388.3 | 386.0 | 389.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 447.8  | 447.8  | 445.5  | 445.5  | 445.5  |
| 115°   | 508.5  | 508.5  | 506.1  | 505.0  | 503.8  |
| 117.5° | 565.6  | 565.6  | 564.4  | 560.9  | 557.4  |
| 120°   | 622.7  | 627.4  | 623.9  | 618.1  | 620.4  |
| 122.5° | 682.2  | 683.4  | 682.2  | 678.7  | 672.9  |
| 125°   | 740.5  | 740.5  | 739.4  | 737.0  | 734.7  |
| 127.5° | 793.0  | 796.5  | 794.2  | 791.8  | 790.7  |
| 130°   | 849.0  | 852.5  | 852.5  | 850.1  | 845.5  |
| 132.5° | 906.1  | 908.5  | 907.3  | 905.0  | 903.8  |
| 135°   | 955.1  | 962.1  | 962.1  | 959.8  | 956.3  |
| 137.5° | 1009.9 | 1013.4 | 1015.7 | 1012.2 | 1013.4 |
| 140°   | 1064.7 | 1067.1 | 1067.1 | 1065.9 | 1064.7 |
| 142.5° | 1114.9 | 1117.2 | 1116.0 | 1116.0 | 1116.0 |
| 145°   | 1160.3 | 1165.0 | 1166.2 | 1165.0 | 1161.5 |
| 147.5° | 1207.0 | 1212.8 | 1211.7 | 1210.5 | 1209.3 |
| 150°   | 1249.0 | 1253.6 | 1253.6 | 1253.6 | 1252.5 |
| 152.5° | 1288.6 | 1291.0 | 1292.1 | 1295.6 | 1292.1 |
| 155°   | 1329.4 | 1329.4 | 1328.3 | 1332.9 | 1328.3 |
| 157.5° | 1364.4 | 1362.1 | 1362.1 | 1365.6 | 1362.1 |
| 160°   | 1394.7 | 1393.6 | 1392.4 | 1395.9 | 1390.1 |
| 162.5° | 1422.7 | 1419.2 | 1418.1 | 1425.1 | 1419.2 |
| 165°   | 1447.2 | 1443.7 | 1441.4 | 1448.4 | 1443.7 |
| 167.5° | 1467.1 | 1462.4 | 1462.4 | 1469.4 | 1462.4 |
| 170°   | 1483.4 | 1477.5 | 1478.7 | 1485.7 | 1477.5 |
| 172.5° | 1495.0 | 1490.4 | 1490.4 | 1498.5 | 1490.4 |
| 175°   | 1505.5 | 1499.7 | 1498.5 | 1506.7 | 1498.5 |
| 177.5° | 1510.2 | 1504.4 | 1504.4 | 1512.5 | 1503.2 |
| 180°   | 1507.9 | 1507.9 | 1507.9 | 1507.9 | 1507.9 |

(END OF REPORT)