

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: P1025541

Luminaire Tested: S124DIP-B575D1205UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025541  
REPORT IS A COMBINATION OF REPORTS P996111 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1205UB30-4F0-XX-W2A-F4  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

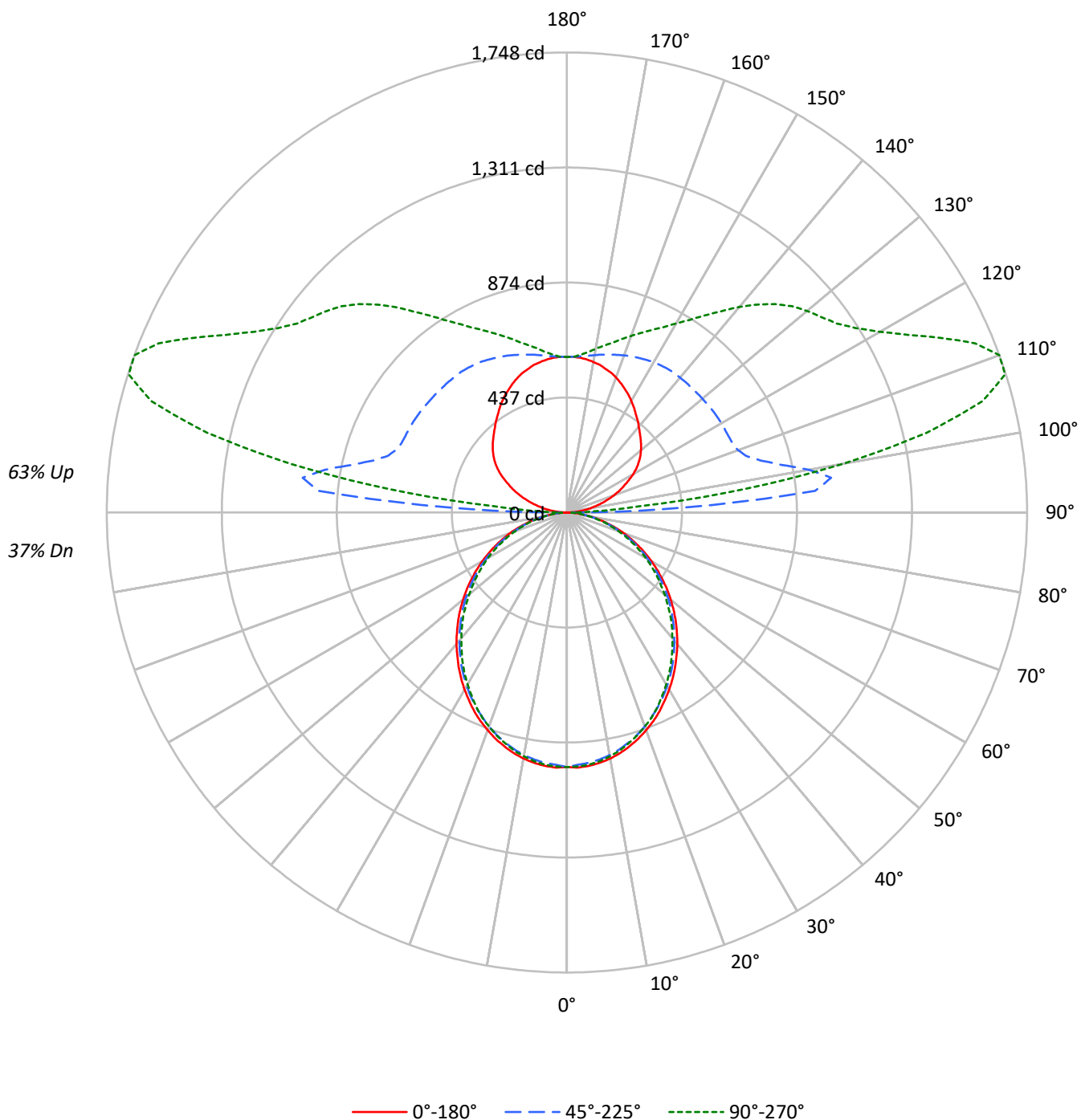
Lumens per Lamp: N/A  
Luminaire Lumens: 6797.6 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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 |
| RW  | 70  | 50  | 30  | 10  | 70 | 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 | 59 | 59 | 59 | 44 | 44 | 44 |
| 1   | 95  | 90  | 87  | 83  | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 39 | 38 | 37 |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 62 | 58 | 54 | 51 | 46 | 43 | 41 | 34 | 32 | 31 |
| 3   | 79  | 69  | 62  | 57  | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 35 | 30 | 28 | 26 |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 45 | 41 | 37 | 36 | 32 | 30 | 27 | 25 | 23 |
| 5   | 66  | 55  | 47  | 41  | 59 | 50 | 43 | 38 | 41 | 35 | 32 | 32 | 28 | 26 | 24 | 22 | 20 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 31 | 27 | 29 | 25 | 22 | 22 | 19 | 17 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 33 | 29 | 33 | 28 | 24 | 26 | 23 | 20 | 20 | 17 | 15 |
| 8   | 52  | 40  | 32  | 27  | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 12 |
| 10  | 45  | 33  | 26  | 21  | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7885 | 7885 | 7885 |
| 5°  | 7892 | 7659 | 7668 |
| 10° | 7825 | 7446 | 7394 |
| 15° | 7713 | 7193 | 7084 |
| 20° | 7569 | 6920 | 6765 |
| 25° | 7409 | 6631 | 6420 |
| 30° | 7214 | 6318 | 6042 |
| 35° | 7012 | 5999 | 5676 |
| 40° | 6802 | 5655 | 5287 |
| 45° | 6582 | 5309 | 4923 |
| 50° | 6338 | 4974 | 4521 |
| 55° | 6073 | 4585 | 4121 |
| 60° | 5801 | 4156 | 3705 |
| 65° | 5492 | 3714 | 3235 |
| 70° | 5133 | 3182 | 2732 |
| 75° | 4599 | 2565 | 2188 |
| 80° | 3920 | 1854 | 1539 |
| 85° | 3042 | 1033 | 828  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6582 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.1   | 1.3       |
| 10°-20°   | 256.8  | 3.8       |
| 20°-30°   | 377.9  | 5.6       |
| 30°-40°   | 439.3  | 6.5       |
| 40°-50°   | 439.3  | 6.5       |
| 50°-60°   | 384.2  | 5.7       |
| 60°-70°   | 285.2  | 4.2       |
| 70°-80°   | 161.8  | 2.4       |
| 80°-90°   | 48.6   | 0.7       |
| 90°-100°  | 439.0  | 6.5       |
| 100°-110° | 893.0  | 13.1      |
| 110°-120° | 795.9  | 11.7      |
| 120°-130° | 668.6  | 9.8       |
| 130°-140° | 557.9  | 8.2       |
| 140°-150° | 426.1  | 6.3       |
| 150°-160° | 299.5  | 4.4       |
| 160°-170° | 176.2  | 2.6       |
| 170°-180° | 57.3   | 0.8       |
| 0°-30°    | 725.8  | 10.7      |
| 0°-40°    | 1165.1 | 17.1      |
| 0°-60°    | 1988.6 | 29.3      |
| 0°-90°    | 2484.3 | 36.5      |
| 90°-120°  | 2127.9 | 31.3      |
| 90°-150°  | 3780.4 | 55.6      |
| 90°-180°  | 4313.0 | 63.4      |
| 0°-180°   | 6797.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 967 | 967   | 967 | 967   | 967  |      |
| 5°   | 966 | 963   | 955 | 963   | 962  | 92   |
| 15°  | 920 | 917   | 905 | 910   | 907  | 259  |
| 25°  | 833 | 828   | 817 | 818   | 814  | 383  |
| 35°  | 717 | 711   | 700 | 695   | 691  | 448  |
| 45°  | 585 | 580   | 567 | 559   | 556  | 451  |
| 55°  | 442 | 440   | 429 | 420   | 415  | 396  |
| 65°  | 300 | 296   | 288 | 280   | 277  | 297  |
| 75°  | 160 | 156   | 152 | 149   | 148  | 169  |
| 85°  | 42  | 42    | 40  | 40    | 40   | 45   |
| 90°  | 1   | 9     | 21  | 23    | 24   | 5    |
| 95°  | 38  | 121   | 946 | 469   | 283  | 42   |
| 105° | 136 | 197   | 762 | 1640  | 1634 | 145  |
| 115° | 239 | 300   | 679 | 1305  | 1569 | 237  |
| 125° | 333 | 396   | 676 | 1111  | 1252 | 297  |
| 135° | 396 | 471   | 670 | 986   | 1119 | 306  |
| 145° | 456 | 523   | 666 | 831   | 914  | 286  |
| 155° | 519 | 560   | 648 | 734   | 765  | 239  |
| 165° | 566 | 583   | 621 | 658   | 668  | 160  |
| 175° | 590 | 591   | 596 | 604   | 602  | 56   |
| 180° | 591 | 591   | 591 | 591   | 591  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°    | 67.5°  | 90°    |
|--------|-------|-------|--------|--------|--------|
| 0°     | 967.0 | 967.0 | 967.0  | 967.0  | 967.0  |
| 2.5°   | 970.1 | 967.8 | 959.3  | 967.0  | 966.2  |
| 5°     | 966.2 | 963.1 | 954.6  | 963.1  | 961.6  |
| 7.5°   | 959.3 | 956.2 | 946.9  | 953.8  | 953.1  |
| 10°    | 949.2 | 946.1 | 936.0  | 942.2  | 940.7  |
| 12.5°  | 936.0 | 932.9 | 922.1  | 929.0  | 926.7  |
| 15°    | 919.7 | 916.6 | 905.0  | 909.7  | 907.3  |
| 17.5°  | 901.1 | 897.3 | 886.4  | 889.5  | 888.0  |
| 20°    | 880.2 | 876.3 | 864.7  | 867.0  | 865.5  |
| 22.5°  | 857.7 | 852.3 | 840.7  | 845.4  | 842.3  |
| 25°    | 833.0 | 827.5 | 816.7  | 817.5  | 814.4  |
| 27.5°  | 805.1 | 799.6 | 789.6  | 788.0  | 784.1  |
| 30°    | 777.2 | 771.0 | 760.9  | 757.8  | 753.9  |
| 32.5°  | 747.7 | 742.3 | 731.5  | 727.6  | 723.7  |
| 35°    | 716.7 | 711.3 | 700.5  | 695.0  | 691.2  |
| 37.5°  | 684.2 | 679.5 | 667.9  | 662.5  | 657.1  |
| 40°    | 652.4 | 646.2 | 634.6  | 626.8  | 623.0  |
| 42.5°  | 618.3 | 615.2 | 602.1  | 592.8  | 590.4  |
| 45°    | 585.0 | 579.6 | 567.2  | 558.7  | 556.3  |
| 47.5°  | 550.1 | 546.3 | 534.6  | 525.3  | 519.1  |
| 50°    | 514.5 | 511.4 | 500.5  | 489.7  | 485.1  |
| 52.5°  | 479.6 | 475.8 | 464.1  | 454.8  | 448.6  |
| 55°    | 442.4 | 440.1 | 429.3  | 420.0  | 415.3  |
| 57.5°  | 407.6 | 405.2 | 394.4  | 385.1  | 380.4  |
| 60°    | 371.1 | 367.3 | 357.2  | 350.2  | 346.4  |
| 62.5°  | 335.5 | 332.4 | 321.6  | 315.4  | 311.5  |
| 65°    | 299.9 | 296.0 | 288.2  | 280.5  | 276.6  |
| 67.5°  | 263.4 | 260.3 | 252.6  | 244.8  | 244.1  |
| 70°    | 230.1 | 224.7 | 218.5  | 212.3  | 210.0  |
| 72.5°  | 194.5 | 189.1 | 184.4  | 179.8  | 177.4  |
| 75°    | 159.6 | 155.7 | 151.9  | 148.8  | 148.0  |
| 77.5°  | 125.5 | 124.0 | 120.1  | 119.3  | 117.0  |
| 80°    | 95.3  | 93.0  | 91.4   | 89.9   | 89.1   |
| 82.5°  | 65.9  | 65.1  | 65.1   | 64.3   | 63.5   |
| 85°    | 41.8  | 41.8  | 40.3   | 40.3   | 39.5   |
| 87.5°  | 20.1  | 19.4  | 18.6   | 18.6   | 18.6   |
| 90°    | 1.2   | 9.3   | 20.9   | 23.2   | 24.4   |
| 92.5°  | 16.3  | 89.4  | 455.2  | 150.4  | 105.7  |
| 95°    | 38.3  | 120.8 | 946.4  | 468.6  | 283.3  |
| 97.5°  | 63.9  | 133.5 | 1012.5 | 956.8  | 680.4  |
| 100°   | 88.2  | 151.0 | 933.6  | 1323.8 | 1064.8 |
| 102.5° | 111.5 | 171.9 | 834.9  | 1553.6 | 1399.2 |
| 105°   | 135.9 | 196.8 | 761.7  | 1640.2 | 1633.8 |
| 107.5° | 162.6 | 222.4 | 714.1  | 1614.0 | 1745.2 |
| 110°   | 189.3 | 247.9 | 692.1  | 1521.2 | 1747.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 214.8 | 273.5 | 681.6 | 1407.4 | 1679.1 |
| 115°   | 239.2 | 300.2 | 679.3 | 1305.2 | 1568.7 |
| 117.5° | 264.7 | 325.2 | 678.1 | 1225.0 | 1460.8 |
| 120°   | 290.3 | 349.6 | 678.1 | 1171.0 | 1372.5 |
| 122.5° | 313.5 | 373.3 | 677.0 | 1135.6 | 1302.8 |
| 125°   | 333.3 | 396.0 | 675.8 | 1110.6 | 1251.7 |
| 127.5° | 351.8 | 416.8 | 673.5 | 1086.8 | 1219.2 |
| 130°   | 366.9 | 437.2 | 672.3 | 1058.4 | 1191.4 |
| 132.5° | 382.0 | 454.6 | 671.2 | 1024.8 | 1160.0 |
| 135°   | 396.0 | 471.4 | 670.0 | 985.8  | 1119.4 |
| 137.5° | 409.9 | 486.0 | 670.0 | 944.0  | 1071.8 |
| 140°   | 425.0 | 499.3 | 668.8 | 903.4  | 1019.5 |
| 142.5° | 441.2 | 511.5 | 668.8 | 865.6  | 963.8  |
| 145°   | 456.3 | 522.6 | 666.5 | 831.4  | 913.8  |
| 147.5° | 473.8 | 533.0 | 663.0 | 803.0  | 867.4  |
| 150°   | 490.0 | 542.8 | 659.5 | 776.8  | 829.1  |
| 152.5° | 505.1 | 552.2 | 653.7 | 754.8  | 794.2  |
| 155°   | 519.0 | 560.3 | 647.9 | 733.8  | 765.2  |
| 157.5° | 533.0 | 567.8 | 642.1 | 714.1  | 738.5  |
| 160°   | 545.8 | 574.2 | 635.2 | 694.4  | 714.1  |
| 162.5° | 557.4 | 579.4 | 628.2 | 675.2  | 690.9  |
| 165°   | 565.5 | 582.9 | 621.2 | 657.8  | 667.7  |
| 167.5° | 574.8 | 585.8 | 614.3 | 642.8  | 649.1  |
| 170°   | 580.6 | 588.2 | 607.3 | 627.6  | 631.7  |
| 172.5° | 586.4 | 589.8 | 600.3 | 614.2  | 614.3  |
| 175°   | 589.9 | 591.0 | 595.7 | 603.8  | 601.5  |
| 177.5° | 592.2 | 591.0 | 592.2 | 596.2  | 592.2  |
| 180°   | 591.0 | 591.0 | 591.0 | 591.0  | 591.0  |

(END OF REPORT)