

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: P1025539

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

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025539  
REPORT IS A COMBINATION OF REPORTS P996109 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-F  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

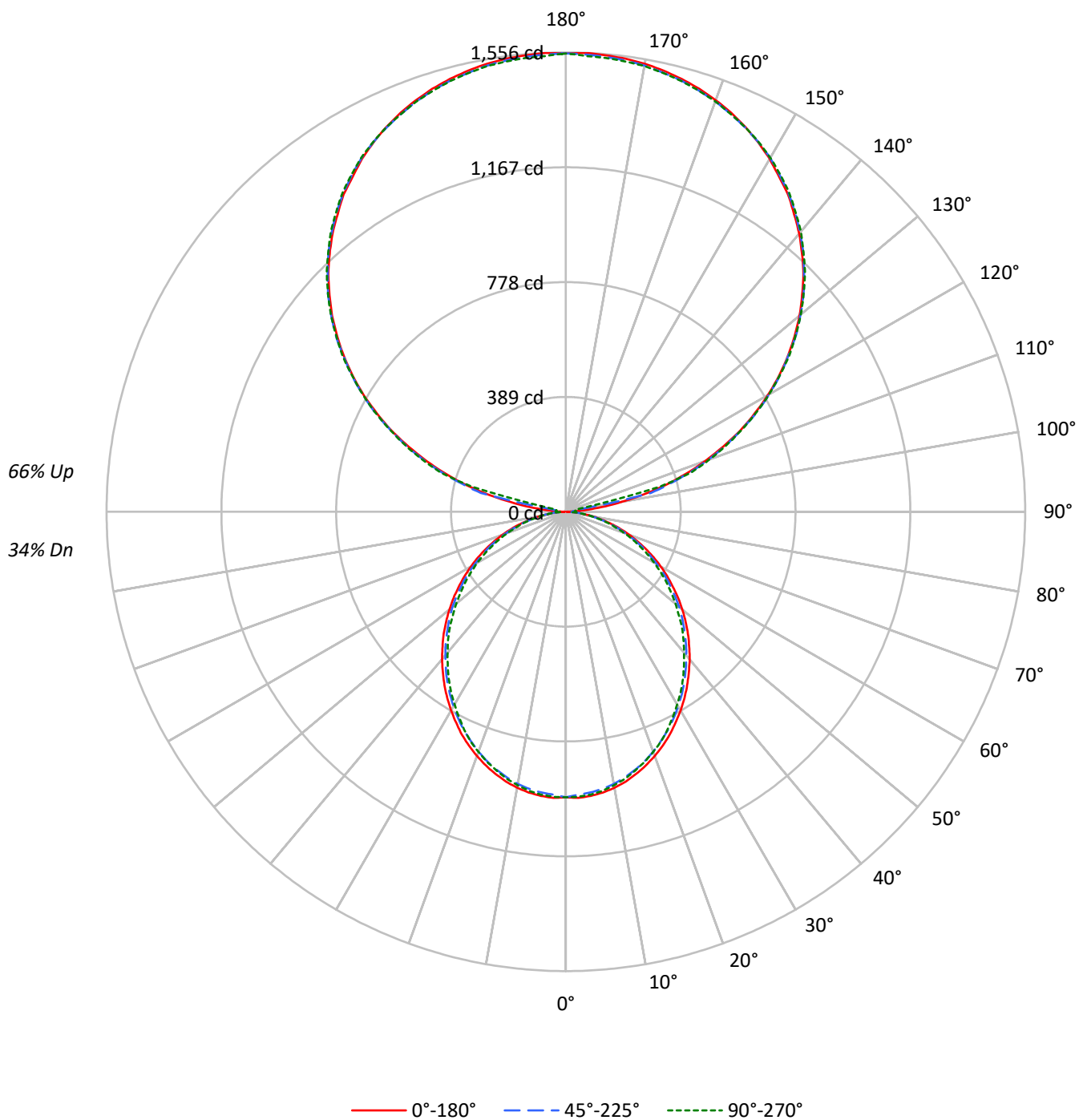
Lumens per Lamp: N/A  
Luminaire Lumens: 7289.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 42 | 42 | 42 |    |    | 34 |
| 1   | 94  | 90  | 86  | 83  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 48 | 37 | 36 | 35 |    |    | 29 |
| 2   | 86  | 79  | 73  | 67  | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 42 | 40 | 32 | 31 | 29 |    |    | 24 |
| 3   | 78  | 69  | 62  | 56  | 70 | 62 | 56 | 51 | 50 | 46 | 42 | 39 | 36 | 34 | 29 | 27 | 25 |    |    | 20 |
| 4   | 71  | 61  | 53  | 47  | 64 | 55 | 49 | 44 | 45 | 40 | 36 | 35 | 31 | 29 | 25 | 23 | 22 |    |    | 17 |
| 5   | 65  | 54  | 46  | 40  | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 |    |    | 15 |
| 6   | 60  | 48  | 41  | 35  | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 24 | 22 | 21 | 18 | 16 |    |    | 13 |
| 7   | 56  | 44  | 36  | 30  | 50 | 40 | 33 | 28 | 32 | 27 | 24 | 25 | 22 | 19 | 19 | 16 | 15 |    |    | 12 |
| 8   | 52  | 40  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 20 | 17 | 17 | 15 | 13 |    |    | 11 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 26 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 14 | 12 |    |    | 10 |
| 10  | 45  | 33  | 26  | 21  | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 |    |    | 9  |

**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  | 3.5       |
| 20°-30°   | 377.9  | 5.2       |
| 30°-40°   | 439.3  | 6.0       |
| 40°-50°   | 439.3  | 6.0       |
| 50°-60°   | 384.2  | 5.3       |
| 60°-70°   | 285.2  | 3.9       |
| 70°-80°   | 161.8  | 2.2       |
| 80°-90°   | 49.5   | 0.7       |
| 90°-100°  | 51.5   | 0.7       |
| 100°-110° | 339.4  | 4.7       |
| 110°-120° | 648.0  | 8.9       |
| 120°-130° | 822.7  | 11.3      |
| 130°-140° | 880.1  | 12.1      |
| 140°-150° | 823.0  | 11.3      |
| 150°-160° | 663.6  | 9.1       |
| 160°-170° | 428.0  | 5.9       |
| 170°-180° | 147.5  | 2.0       |
| 0°-30°    | 725.8  | 10.0      |
| 0°-40°    | 1165.1 | 16.0      |
| 0°-60°    | 1988.6 | 27.3      |
| 0°-90°    | 2485.2 | 34.1      |
| 90°-120°  | 1039.0 | 14.3      |
| 90°-150°  | 3564.7 | 48.9      |
| 90°-180°  | 4804.0 | 65.9      |
| 0°-180°   | 7289.0 | 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°  | 4    | 16    | 26   | 32    | 35   | 6    |
| 95°  | 64   | 24    | 26   | 32    | 34   | 79   |
| 105° | 350  | 356   | 362  | 373   | 331  | 366  |
| 115° | 653  | 656   | 655  | 657   | 657  | 642  |
| 125° | 917  | 922   | 920  | 923   | 924  | 819  |
| 135° | 1138 | 1137  | 1141 | 1144  | 1146 | 877  |
| 145° | 1312 | 1316  | 1316 | 1317  | 1319 | 820  |
| 155° | 1439 | 1440  | 1436 | 1441  | 1438 | 663  |
| 165° | 1518 | 1512  | 1512 | 1521  | 1511 | 429  |
| 175° | 1552 | 1546  | 1547 | 1557  | 1543 | 148  |
| 180° | 1552 | 1552  | 1552 | 1552  | 1552 |      |

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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°    | 3.5   | 16.3  | 25.5  | 32.5  | 34.8  |
| 92.5°  | 17.4  | 15.1  | 24.4  | 31.4  | 31.4  |
| 95°    | 63.9  | 24.4  | 25.5  | 32.5  | 33.7  |
| 97.5°  | 121.9 | 147.5 | 25.5  | 31.4  | 32.5  |
| 100°   | 190.4 | 211.3 | 51.1  | 31.4  | 32.5  |
| 102.5° | 267.1 | 281.0 | 294.9 | 33.7  | 33.7  |
| 105°   | 349.5 | 356.5 | 362.3 | 372.7 | 330.9 |
| 107.5° | 425.0 | 428.5 | 436.6 | 442.4 | 447.0 |
| 110°   | 501.6 | 505.1 | 512.1 | 514.4 | 517.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 575.9  | 582.9  | 585.2  | 584.1  | 588.7  |
| 115°   | 652.6  | 656.0  | 654.9  | 657.2  | 657.2  |
| 117.5° | 721.1  | 725.7  | 729.2  | 728.0  | 728.0  |
| 120°   | 790.7  | 795.4  | 794.2  | 796.5  | 794.2  |
| 122.5° | 855.8  | 858.1  | 860.4  | 861.6  | 859.2  |
| 125°   | 917.3  | 921.9  | 919.6  | 923.1  | 924.3  |
| 127.5° | 976.5  | 977.7  | 983.5  | 982.3  | 981.2  |
| 130°   | 1033.4 | 1034.6 | 1038.1 | 1039.2 | 1039.2 |
| 132.5° | 1085.7 | 1088.0 | 1092.6 | 1093.8 | 1092.6 |
| 135°   | 1137.9 | 1136.8 | 1141.4 | 1143.7 | 1146.0 |
| 137.5° | 1184.4 | 1184.4 | 1190.2 | 1192.5 | 1191.3 |
| 140°   | 1229.6 | 1232.0 | 1234.3 | 1237.8 | 1238.9 |
| 142.5° | 1270.3 | 1274.9 | 1276.1 | 1278.4 | 1278.4 |
| 145°   | 1312.1 | 1315.6 | 1315.6 | 1316.7 | 1319.1 |
| 147.5° | 1344.6 | 1351.6 | 1350.4 | 1351.6 | 1352.7 |
| 150°   | 1380.6 | 1385.2 | 1384.1 | 1384.1 | 1385.2 |
| 152.5° | 1410.8 | 1414.3 | 1411.9 | 1414.3 | 1413.1 |
| 155°   | 1438.6 | 1439.8 | 1436.3 | 1441.0 | 1437.5 |
| 157.5° | 1463.0 | 1463.0 | 1458.4 | 1464.2 | 1458.4 |
| 160°   | 1483.9 | 1480.4 | 1479.3 | 1486.3 | 1479.3 |
| 162.5° | 1502.5 | 1497.9 | 1496.7 | 1503.7 | 1495.5 |
| 165°   | 1517.6 | 1511.8 | 1511.8 | 1521.1 | 1510.6 |
| 167.5° | 1530.4 | 1524.6 | 1523.4 | 1533.9 | 1522.2 |
| 170°   | 1540.8 | 1533.9 | 1535.0 | 1544.3 | 1532.7 |
| 172.5° | 1547.8 | 1540.8 | 1542.0 | 1551.3 | 1538.5 |
| 175°   | 1552.4 | 1545.5 | 1546.6 | 1557.1 | 1543.1 |
| 177.5° | 1555.9 | 1547.8 | 1550.1 | 1559.4 | 1545.5 |
| 180°   | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 |

(END OF REPORT)