

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: P1025585

Luminaire Tested: S124DIP-B575D365UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025585  
REPORT IS A COMBINATION OF REPORTS P996170 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D365UB30-4F0-XX-W2A-F1  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

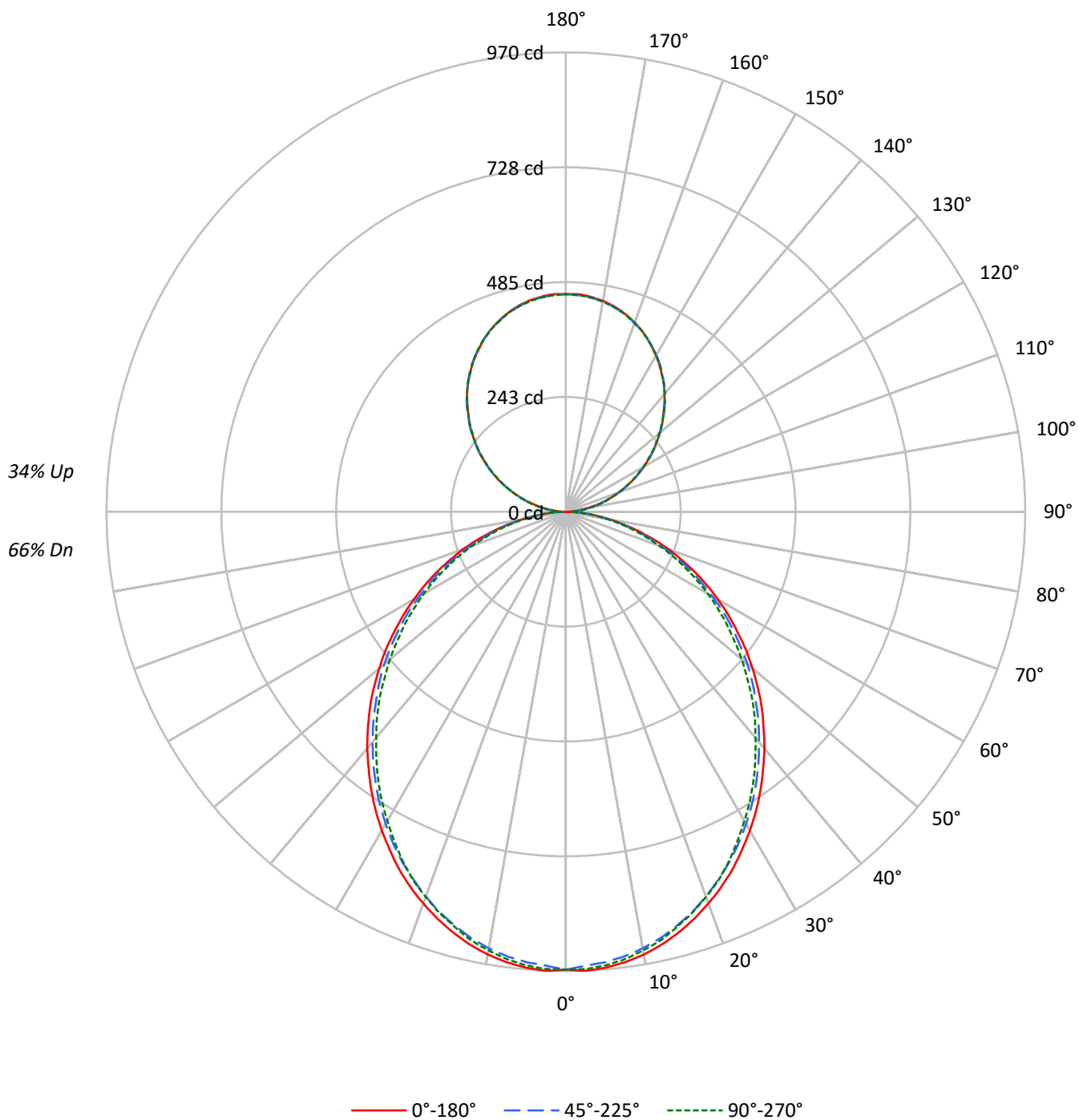
Lumens per Lamp: N/A  
Luminaire Lumens: 3758.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 85  | 81 | 78 | 76 | 71 | 69 | 68 | 63 | 61 | 60 |
| 2   | 92  | 85  | 78  | 73  | 87  | 80  | 74  | 69  | 71 | 67 | 63 | 63 | 59 | 56 | 55 | 53 | 50 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 64  | 58  | 63 | 57 | 53 | 55 | 51 | 48 | 49 | 46 | 43 |
| 4   | 77  | 66  | 58  | 52  | 72  | 62  | 55  | 49  | 56 | 50 | 45 | 49 | 45 | 41 | 44 | 40 | 37 |
| 5   | 71  | 59  | 50  | 44  | 66  | 56  | 48  | 43  | 50 | 44 | 39 | 44 | 39 | 36 | 39 | 35 | 32 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 28 |
| 7   | 61  | 48  | 40  | 34  | 57  | 45  | 38  | 33  | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 28 | 25 |
| 8   | 56  | 44  | 36  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 34 | 28 | 25 | 30 | 26 | 23 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 |

**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   | 2.4       |
| 10°-20°   | 256.8  | 6.8       |
| 20°-30°   | 377.9  | 10.1      |
| 30°-40°   | 439.3  | 11.7      |
| 40°-50°   | 439.3  | 11.7      |
| 50°-60°   | 384.2  | 10.2      |
| 60°-70°   | 285.2  | 7.6       |
| 70°-80°   | 161.8  | 4.3       |
| 80°-90°   | 47.3   | 1.3       |
| 90°-100°  | 30.0   | 0.8       |
| 100°-110° | 89.7   | 2.4       |
| 110°-120° | 152.4  | 4.1       |
| 120°-130° | 201.0  | 5.3       |
| 130°-140° | 225.8  | 6.0       |
| 140°-150° | 221.9  | 5.9       |
| 150°-160° | 186.6  | 5.0       |
| 160°-170° | 124.2  | 3.3       |
| 170°-180° | 43.5   | 1.2       |
| 0°-30°    | 725.8  | 19.3      |
| 0°-40°    | 1165.1 | 31.0      |
| 0°-60°    | 1988.6 | 52.9      |
| 0°-90°    | 2483.0 | 66.1      |
| 90°-120°  | 272.1  | 7.2       |
| 90°-150°  | 920.8  | 24.5      |
| 90°-180°  | 1275.0 | 33.9      |
| 0°-180°   | 3758.0 | 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°  | 1   | 5     | 8   | 10    | 11  | 4    |
| 95°  | 21  | 24    | 27  | 28    | 28  | 23   |
| 105° | 83  | 83    | 85  | 86    | 87  | 88   |
| 115° | 155 | 155   | 154 | 154   | 154 | 153  |
| 125° | 226 | 226   | 225 | 225   | 224 | 201  |
| 135° | 291 | 293   | 293 | 292   | 291 | 225  |
| 145° | 354 | 355   | 355 | 355   | 354 | 221  |
| 155° | 405 | 405   | 405 | 406   | 405 | 186  |
| 165° | 441 | 440   | 439 | 441   | 440 | 124  |
| 175° | 459 | 457   | 457 | 459   | 457 | 44   |
| 180° | 460 | 460   | 460 | 460   | 460 |      |

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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°    | 1.1   | 5.0   | 7.8   | 10.0  | 10.7  |
| 92.5°  | 9.2   | 13.9  | 15.6  | 16.7  | 17.1  |
| 95°    | 21.3  | 24.5  | 27.0  | 28.1  | 28.1  |
| 97.5°  | 34.1  | 37.0  | 39.8  | 41.2  | 41.2  |
| 100°   | 49.8  | 51.2  | 54.4  | 55.1  | 55.1  |
| 102.5° | 66.1  | 66.5  | 69.3  | 70.4  | 70.7  |
| 105°   | 82.8  | 83.2  | 84.6  | 85.7  | 86.7  |
| 107.5° | 100.2 | 100.6 | 100.9 | 102.4 | 102.0 |
| 110°   | 118.0 | 118.7 | 118.3 | 117.6 | 118.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 136.5 | 136.5 | 135.8 | 135.8 | 135.8 |
| 115°   | 155.0 | 155.0 | 154.2 | 153.9 | 153.5 |
| 117.5° | 172.4 | 172.4 | 172.0 | 170.9 | 169.9 |
| 120°   | 189.8 | 191.2 | 190.1 | 188.4 | 189.1 |
| 122.5° | 207.9 | 208.3 | 207.9 | 206.8 | 205.1 |
| 125°   | 225.7 | 225.7 | 225.3 | 224.6 | 223.9 |
| 127.5° | 241.7 | 242.7 | 242.0 | 241.3 | 241.0 |
| 130°   | 258.7 | 259.8 | 259.8 | 259.1 | 257.7 |
| 132.5° | 276.1 | 276.9 | 276.5 | 275.8 | 275.4 |
| 135°   | 291.1 | 293.2 | 293.2 | 292.5 | 291.4 |
| 137.5° | 307.8 | 308.8 | 309.5 | 308.5 | 308.8 |
| 140°   | 324.5 | 325.2 | 325.2 | 324.8 | 324.5 |
| 142.5° | 339.8 | 340.5 | 340.1 | 340.1 | 340.1 |
| 145°   | 353.6 | 355.0 | 355.4 | 355.0 | 354.0 |
| 147.5° | 367.8 | 369.6 | 369.3 | 368.9 | 368.5 |
| 150°   | 380.6 | 382.1 | 382.1 | 382.1 | 381.7 |
| 152.5° | 392.7 | 393.4 | 393.8 | 394.8 | 393.8 |
| 155°   | 405.2 | 405.2 | 404.8 | 406.2 | 404.8 |
| 157.5° | 415.8 | 415.1 | 415.1 | 416.2 | 415.1 |
| 160°   | 425.1 | 424.7 | 424.3 | 425.4 | 423.6 |
| 162.5° | 433.6 | 432.5 | 432.2 | 434.3 | 432.5 |
| 165°   | 441.0 | 440.0 | 439.3 | 441.4 | 440.0 |
| 167.5° | 447.1 | 445.7 | 445.7 | 447.8 | 445.7 |
| 170°   | 452.1 | 450.3 | 450.6 | 452.8 | 450.3 |
| 172.5° | 455.6 | 454.2 | 454.2 | 456.7 | 454.2 |
| 175°   | 458.8 | 457.0 | 456.7 | 459.2 | 456.7 |
| 177.5° | 460.2 | 458.5 | 458.5 | 460.9 | 458.1 |
| 180°   | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 |

(END OF REPORT)