

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: P1025158

Luminaire Tested: S124DIP-B1195D365UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025158  
REPORT IS A COMBINATION OF REPORTS P995593 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1195D365UB50-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

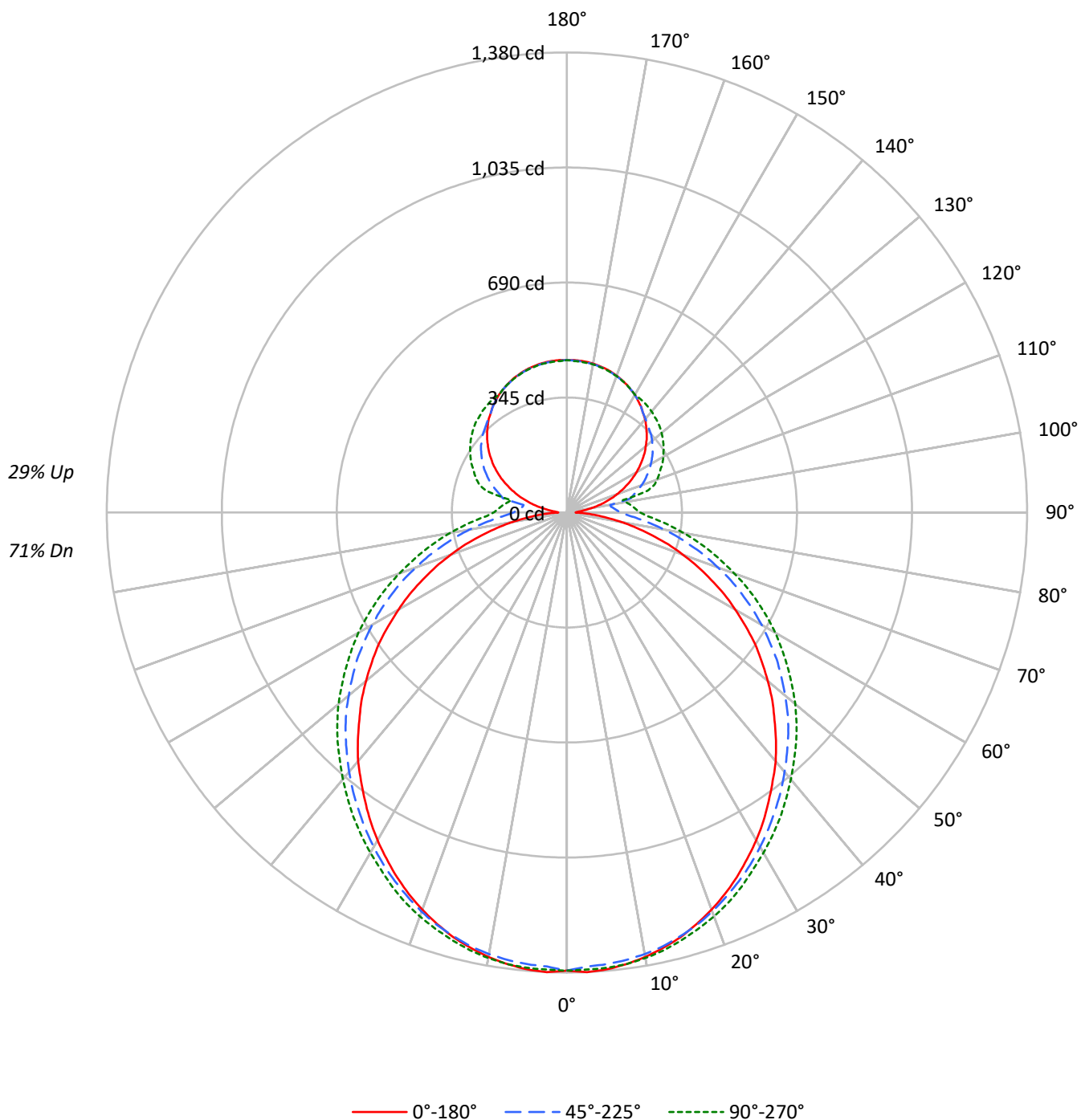
Lumens per Lamp: N/A  
Luminaire Lumens: 6100.0 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 70.6  
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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 |
| 1   | 101 | 96  | 91  | 87  | 95  | 91  | 87  | 83  | 81 | 78 | 75 | 73 | 70 | 68 | 64 | 63 | 61 |
| 2   | 91  | 83  | 76  | 70  | 86  | 79  | 72  | 67  | 70 | 65 | 61 | 63 | 59 | 56 | 56 | 53 | 50 |
| 3   | 83  | 73  | 64  | 58  | 78  | 69  | 61  | 55  | 62 | 56 | 51 | 55 | 50 | 46 | 49 | 45 | 42 |
| 4   | 76  | 64  | 55  | 49  | 71  | 61  | 53  | 47  | 55 | 48 | 43 | 49 | 44 | 39 | 44 | 39 | 36 |
| 5   | 70  | 57  | 48  | 41  | 65  | 54  | 46  | 40  | 49 | 42 | 37 | 44 | 38 | 34 | 39 | 35 | 31 |
| 6   | 64  | 51  | 42  | 36  | 60  | 49  | 40  | 35  | 44 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 27 |
| 7   | 59  | 46  | 37  | 31  | 56  | 44  | 36  | 30  | 40 | 33 | 28 | 36 | 30 | 26 | 32 | 28 | 24 |
| 8   | 55  | 42  | 34  | 28  | 52  | 40  | 32  | 27  | 36 | 30 | 25 | 33 | 27 | 23 | 30 | 25 | 21 |
| 9   | 51  | 38  | 30  | 25  | 48  | 37  | 29  | 24  | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 23 | 19 |
| 10  | 48  | 35  | 27  | 22  | 45  | 34  | 26  | 22  | 31 | 24 | 20 | 28 | 23 | 19 | 25 | 21 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11205 | 11205 | 11205 |
| 5°  | 11236 | 10913 | 10933 |
| 10° | 11163 | 10699 | 10668 |
| 15° | 11059 | 10457 | 10369 |
| 20° | 10904 | 10196 | 10078 |
| 25° | 10729 | 9908  | 9765  |
| 30° | 10541 | 9622  | 9446  |
| 35° | 10327 | 9330  | 9162  |
| 40° | 10156 | 9050  | 8867  |
| 45° | 9903  | 8787  | 8607  |
| 50° | 9686  | 8488  | 8332  |
| 55° | 9463  | 8201  | 8017  |
| 60° | 9117  | 7842  | 7719  |
| 65° | 8735  | 7456  | 7361  |
| 70° | 8272  | 7013  | 6947  |
| 75° | 7628  | 6522  | 6553  |
| 80° | 6897  | 6023  | 6141  |
| 85° | 5938  | 5520  | 5806  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9903 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.2  | 2.1       |
| 10°-20°   | 373.1  | 6.1       |
| 20°-30°   | 564.1  | 9.2       |
| 30°-40°   | 682.4  | 11.2      |
| 40°-50°   | 721.4  | 11.8      |
| 50°-60°   | 678.9  | 11.1      |
| 60°-70°   | 563.4  | 9.2       |
| 70°-80°   | 395.4  | 6.5       |
| 80°-90°   | 223.8  | 3.7       |
| 90°-100°  | 147.9  | 2.4       |
| 100°-110° | 198.1  | 3.2       |
| 110°-120° | 256.7  | 4.2       |
| 120°-130° | 279.3  | 4.6       |
| 130°-140° | 275.1  | 4.5       |
| 140°-150° | 245.4  | 4.0       |
| 150°-160° | 195.4  | 3.2       |
| 160°-170° | 126.0  | 2.1       |
| 170°-180° | 43.4   | 0.7       |
| 0°-30°    | 1067.3 | 17.5      |
| 0°-40°    | 1749.7 | 28.7      |
| 0°-60°    | 3150.1 | 51.6      |
| 0°-90°    | 4332.7 | 71.0      |
| 90°-120°  | 602.7  | 9.9       |
| 90°-150°  | 1402.6 | 23.0      |
| 90°-180°  | 1767.0 | 29.0      |
| 0°-180°   | 6100.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1374 | 1374  | 1374 | 1374  | 1374 |      |
| 5°   | 1376 | 1371  | 1360 | 1373  | 1371 | 131  |
| 15°  | 1319 | 1320  | 1316 | 1330  | 1328 | 372  |
| 25°  | 1206 | 1216  | 1220 | 1237  | 1239 | 556  |
| 35°  | 1056 | 1074  | 1090 | 1111  | 1116 | 661  |
| 45°  | 880  | 909   | 939  | 965   | 972  | 680  |
| 55°  | 689  | 722   | 768  | 799   | 808  | 614  |
| 65°  | 477  | 526   | 579  | 617   | 629  | 473  |
| 75°  | 265  | 322   | 386  | 429   | 443  | 281  |
| 85°  | 82   | 146   | 215  | 262   | 277  | 85   |
| 90°  | 26   | 91    | 160  | 207   | 220  | 18   |
| 95°  | 39   | 78    | 141  | 185   | 199  | 39   |
| 105° | 117  | 150   | 208  | 250   | 250  | 123  |
| 115° | 201  | 216   | 265  | 300   | 310  | 199  |
| 125° | 276  | 276   | 314  | 344   | 354  | 247  |
| 135° | 338  | 338   | 350  | 375   | 385  | 261  |
| 145° | 388  | 387   | 387  | 397   | 404  | 242  |
| 155° | 424  | 424   | 423  | 424   | 423  | 195  |
| 165° | 447  | 445   | 445  | 448   | 445  | 126  |
| 175° | 457  | 455   | 455  | 458   | 454  | 44   |
| 180° | 457  | 457   | 457  | 457   | 457  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1374.1 | 1374.1 | 1374.1 | 1374.1 | 1374.1 |
| 2.5°   | 1380.3 | 1375.7 | 1363.4 | 1374.1 | 1372.6 |
| 5°     | 1375.7 | 1371.1 | 1360.3 | 1372.6 | 1371.1 |
| 7.5°   | 1366.4 | 1363.4 | 1354.1 | 1368.0 | 1366.4 |
| 10°    | 1354.1 | 1352.6 | 1344.9 | 1358.8 | 1357.2 |
| 12.5°  | 1337.2 | 1337.2 | 1332.6 | 1344.9 | 1344.9 |
| 15°    | 1318.7 | 1320.3 | 1315.7 | 1329.5 | 1328.0 |
| 17.5°  | 1294.1 | 1298.7 | 1297.2 | 1311.0 | 1309.5 |
| 20°    | 1268.0 | 1272.6 | 1274.1 | 1289.5 | 1289.5 |
| 22.5°  | 1238.7 | 1244.9 | 1248.0 | 1263.3 | 1266.4 |
| 25°    | 1206.4 | 1215.6 | 1220.3 | 1237.2 | 1238.7 |
| 27.5°  | 1171.0 | 1184.9 | 1191.0 | 1206.4 | 1207.9 |
| 30°    | 1135.6 | 1147.9 | 1158.7 | 1175.6 | 1178.7 |
| 32.5°  | 1097.2 | 1112.5 | 1124.9 | 1144.9 | 1147.9 |
| 35°    | 1055.6 | 1074.1 | 1089.5 | 1111.0 | 1115.6 |
| 37.5°  | 1014.1 | 1035.6 | 1054.1 | 1075.6 | 1080.2 |
| 40°    | 974.1  | 994.1  | 1015.6 | 1038.7 | 1044.8 |
| 42.5°  | 927.9  | 951.0  | 977.1  | 1003.3 | 1007.9 |
| 45°    | 880.2  | 909.4  | 938.7  | 964.8  | 972.5  |
| 47.5°  | 835.6  | 864.8  | 898.7  | 924.8  | 934.0  |
| 50°    | 786.3  | 820.2  | 854.0  | 884.8  | 894.0  |
| 52.5°  | 737.1  | 770.9  | 810.9  | 841.7  | 850.9  |
| 55°    | 689.4  | 721.7  | 767.9  | 798.6  | 807.9  |
| 57.5°  | 635.5  | 675.5  | 720.2  | 757.1  | 764.8  |
| 60°    | 583.2  | 623.2  | 674.0  | 709.4  | 721.7  |
| 62.5°  | 532.4  | 577.0  | 627.8  | 663.2  | 675.5  |
| 65°    | 477.0  | 526.3  | 578.6  | 617.1  | 629.4  |
| 67.5°  | 424.7  | 477.0  | 532.4  | 570.9  | 583.2  |
| 70°    | 370.8  | 423.2  | 481.6  | 523.2  | 534.0  |
| 72.5°  | 318.5  | 372.4  | 435.5  | 475.5  | 487.8  |
| 75°    | 264.7  | 321.6  | 386.2  | 429.3  | 443.2  |
| 77.5°  | 213.9  | 273.9  | 341.6  | 384.7  | 400.1  |
| 80°    | 167.7  | 229.3  | 297.0  | 343.1  | 355.5  |
| 82.5°  | 121.6  | 186.2  | 253.9  | 301.6  | 315.5  |
| 85°    | 81.6   | 146.2  | 215.4  | 261.6  | 277.0  |
| 87.5°  | 50.8   | 113.9  | 181.6  | 226.2  | 240.1  |
| 90°    | 25.6   | 91.0   | 159.8  | 206.6  | 219.6  |
| 92.5°  | 28.2   | 81.3   | 150.3  | 195.4  | 207.7  |
| 95°    | 38.8   | 78.0   | 141.4  | 185.0  | 199.2  |
| 97.5°  | 54.4   | 106.5  | 133.7  | 175.4  | 189.6  |
| 100°   | 73.0   | 119.1  | 131.9  | 167.7  | 178.9  |
| 102.5° | 95.5   | 133.5  | 196.1  | 159.2  | 171.5  |
| 105°   | 116.7  | 149.5  | 208.2  | 249.7  | 249.7  |
| 107.5° | 138.9  | 166.1  | 222.4  | 262.5  | 274.7  |
| 110°   | 160.0  | 182.6  | 238.4  | 274.5  | 287.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 180.3 | 200.8 | 252.3 | 285.8 | 299.5 |
| 115°   | 201.3 | 216.2 | 265.1 | 299.7 | 310.4 |
| 117.5° | 221.5 | 232.1 | 279.2 | 311.2 | 323.6 |
| 120°   | 240.5 | 246.4 | 290.7 | 322.2 | 333.8 |
| 122.5° | 259.6 | 260.3 | 302.5 | 333.6 | 343.7 |
| 125°   | 276.2 | 276.0 | 313.8 | 344.0 | 353.7 |
| 127.5° | 293.6 | 292.4 | 324.9 | 352.3 | 362.7 |
| 130°   | 308.8 | 307.6 | 333.3 | 361.3 | 370.5 |
| 132.5° | 324.2 | 323.4 | 343.1 | 369.7 | 378.5 |
| 135°   | 338.1 | 337.7 | 349.8 | 375.2 | 385.1 |
| 137.5° | 351.7 | 350.1 | 358.0 | 381.8 | 389.2 |
| 140°   | 365.1 | 364.1 | 366.4 | 387.5 | 395.5 |
| 142.5° | 375.4 | 376.8 | 375.6 | 393.2 | 399.4 |
| 145°   | 387.7 | 387.3 | 387.3 | 396.8 | 403.7 |
| 147.5° | 397.3 | 397.8 | 397.5 | 399.3 | 405.9 |
| 150°   | 407.9 | 407.8 | 407.4 | 407.4 | 407.8 |
| 152.5° | 415.3 | 416.3 | 415.6 | 416.3 | 416.0 |
| 155°   | 423.5 | 423.8 | 422.8 | 424.2 | 423.1 |
| 157.5° | 430.7 | 430.7 | 429.3 | 431.0 | 429.3 |
| 160°   | 436.8 | 435.8 | 435.4 | 437.5 | 435.4 |
| 162.5° | 442.3 | 440.9 | 440.6 | 442.6 | 440.2 |
| 165°   | 446.7 | 445.0 | 445.0 | 447.8 | 444.7 |
| 167.5° | 450.5 | 448.8 | 448.4 | 451.5 | 448.1 |
| 170°   | 453.6 | 451.5 | 451.9 | 454.6 | 451.2 |
| 172.5° | 455.6 | 453.6 | 453.9 | 456.6 | 452.9 |
| 175°   | 457.0 | 454.9 | 455.3 | 458.3 | 454.2 |
| 177.5° | 458.0 | 455.6 | 456.3 | 459.0 | 454.9 |
| 180°   | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 |

(END OF REPORT)