

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: P1025269

Luminaire Tested: S124DIP-B350D1035UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025269  
REPORT IS A COMBINATION OF REPORTS P995749 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B350D1035UB30-4F0-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**

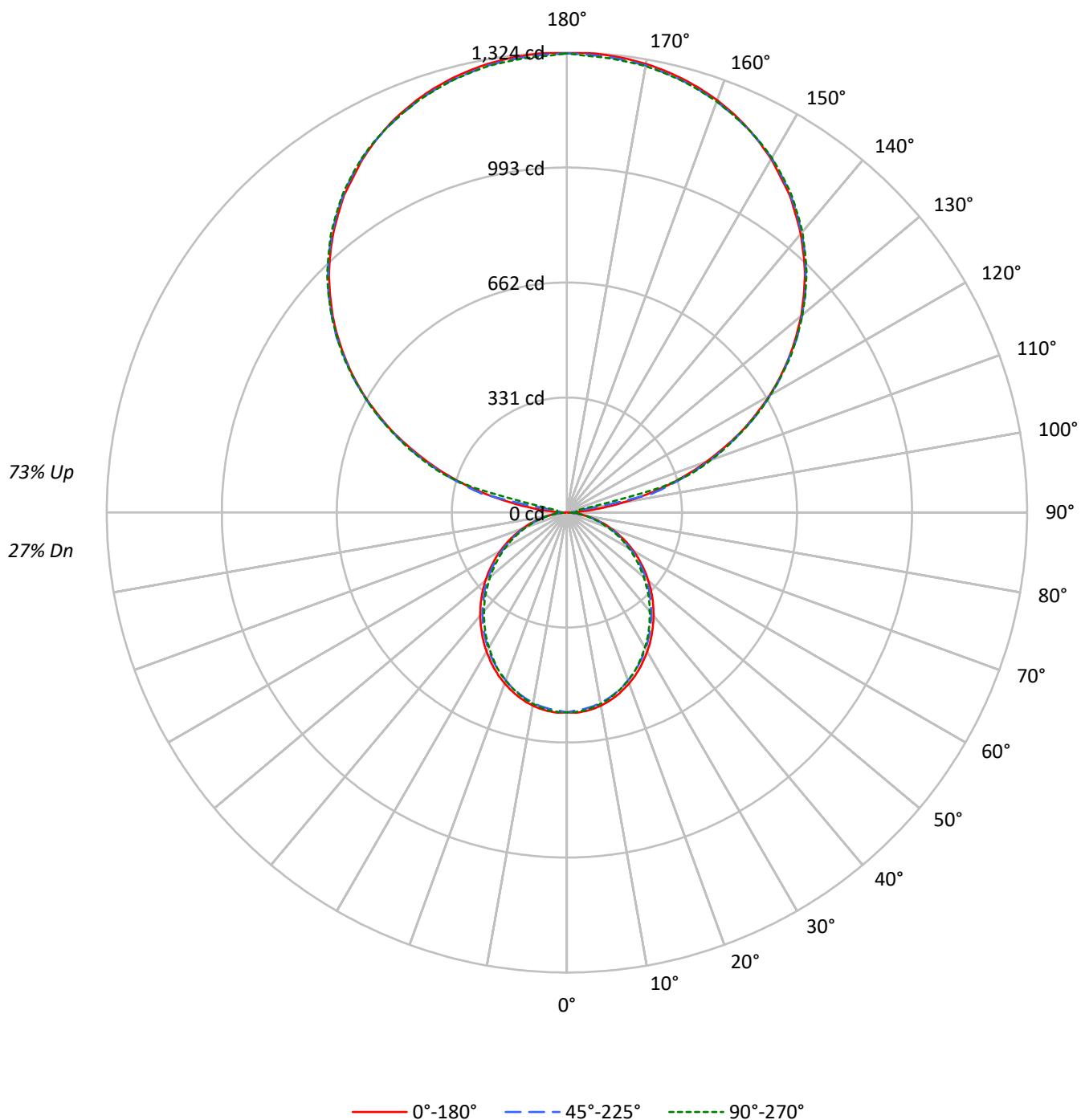
Lumens per Lamp: N/A  
Luminaire Lumens: 5567.0 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 41.5  
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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 |
| 1   | 93  | 88  | 85  | 81  | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 44 | 43 | 30 | 30 | 29 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 60 | 54 | 50 | 47 | 40 | 38 | 36 | 27 | 26 | 24 |
| 3   | 77  | 68  | 61  | 55  | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 32 | 30 | 24 | 22 | 21 |
| 4   | 70  | 60  | 52  | 46  | 62 | 54 | 47 | 42 | 42 | 37 | 34 | 31 | 28 | 26 | 21 | 19 | 18 |
| 5   | 64  | 53  | 45  | 40  | 57 | 48 | 41 | 36 | 37 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 16 |
| 6   | 59  | 47  | 40  | 34  | 52 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 |
| 7   | 54  | 43  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 28 | 23 | 19 | 21 | 18 | 15 | 14 | 12 | 11 |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 25 | 21 | 17 | 19 | 16 | 13 | 13 | 11 | 10 |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 19 | 23 | 19 | 15 | 18 | 14 | 12 | 12 | 10 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4690 | 4690 | 4690 |
| 5°  | 4693 | 4555 | 4560 |
| 10° | 4654 | 4428 | 4397 |
| 15° | 4587 | 4278 | 4213 |
| 20° | 4502 | 4115 | 4023 |
| 25° | 4405 | 3944 | 3818 |
| 30° | 4290 | 3758 | 3593 |
| 35° | 4170 | 3567 | 3375 |
| 40° | 4045 | 3363 | 3144 |
| 45° | 3914 | 3157 | 2928 |
| 50° | 3770 | 2959 | 2689 |
| 55° | 3612 | 2726 | 2451 |
| 60° | 3450 | 2471 | 2203 |
| 65° | 3265 | 2209 | 1924 |
| 70° | 3054 | 1892 | 1625 |
| 75° | 2735 | 1525 | 1301 |
| 80° | 2332 | 1103 | 916  |
| 85° | 1812 | 615  | 493  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3914 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.2   | 1.0       |
| 10°-20°   | 152.7  | 2.7       |
| 20°-30°   | 224.7  | 4.0       |
| 30°-40°   | 261.2  | 4.7       |
| 40°-50°   | 261.2  | 4.7       |
| 50°-60°   | 228.5  | 4.1       |
| 60°-70°   | 169.6  | 3.0       |
| 70°-80°   | 96.2   | 1.7       |
| 80°-90°   | 30.3   | 0.5       |
| 90°-100°  | 43.9   | 0.8       |
| 100°-110° | 288.8  | 5.2       |
| 110°-120° | 551.5  | 9.9       |
| 120°-130° | 700.1  | 12.6      |
| 130°-140° | 749.0  | 13.5      |
| 140°-150° | 700.4  | 12.6      |
| 150°-160° | 564.8  | 10.1      |
| 160°-170° | 364.2  | 6.5       |
| 170°-180° | 125.5  | 2.3       |
| 0°-30°    | 431.6  | 7.8       |
| 0°-40°    | 692.9  | 12.4      |
| 0°-60°    | 1182.6 | 21.2      |
| 0°-90°    | 1478.7 | 26.6      |
| 90°-120°  | 884.2  | 15.9      |
| 90°-150°  | 3033.7 | 54.5      |
| 90°-180°  | 4088.0 | 73.4      |
| 0°-180°   | 5567.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 575  | 575   | 575  | 575   | 575  |      |
| 5°   | 575  | 573   | 568  | 573   | 572  | 55   |
| 15°  | 547  | 545   | 538  | 541   | 540  | 154  |
| 25°  | 495  | 492   | 486  | 486   | 484  | 228  |
| 35°  | 426  | 423   | 416  | 413   | 411  | 267  |
| 45°  | 348  | 345   | 337  | 332   | 331  | 268  |
| 55°  | 263  | 262   | 255  | 250   | 247  | 236  |
| 65°  | 178  | 176   | 171  | 167   | 164  | 176  |
| 75°  | 95   | 93    | 90   | 88    | 88   | 101  |
| 85°  | 25   | 25    | 24   | 24    | 24   | 27   |
| 90°  | 3    | 14    | 22   | 28    | 30   | 4    |
| 95°  | 54   | 21    | 22   | 28    | 29   | 67   |
| 105° | 297  | 303   | 308  | 317   | 282  | 311  |
| 115° | 555  | 558   | 557  | 559   | 559  | 547  |
| 125° | 781  | 785   | 783  | 786   | 787  | 697  |
| 135° | 968  | 967   | 971  | 973   | 975  | 746  |
| 145° | 1117 | 1120  | 1120 | 1121  | 1123 | 698  |
| 155° | 1224 | 1225  | 1222 | 1226  | 1223 | 565  |
| 165° | 1292 | 1287  | 1287 | 1294  | 1286 | 365  |
| 175° | 1321 | 1315  | 1316 | 1325  | 1313 | 126  |
| 180° | 1321 | 1321  | 1321 | 1321  | 1321 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 575.1 | 575.1 | 575.1 | 575.1 | 575.1 |
| 2.5°   | 576.9 | 575.5 | 570.5 | 575.1 | 574.6 |
| 5°     | 574.6 | 572.8 | 567.7 | 572.8 | 571.8 |
| 7.5°   | 570.5 | 568.6 | 563.1 | 567.2 | 566.8 |
| 10°    | 564.5 | 562.6 | 556.6 | 560.3 | 559.4 |
| 12.5°  | 556.6 | 554.8 | 548.3 | 552.5 | 551.1 |
| 15°    | 547.0 | 545.1 | 538.2 | 541.0 | 539.6 |
| 17.5°  | 535.9 | 533.6 | 527.1 | 529.0 | 528.1 |
| 20°    | 523.5 | 521.1 | 514.2 | 515.6 | 514.7 |
| 22.5°  | 510.1 | 506.9 | 500.0 | 502.7 | 500.9 |
| 25°    | 495.3 | 492.1 | 485.7 | 486.1 | 484.3 |
| 27.5°  | 478.8 | 475.5 | 469.5 | 468.6 | 466.3 |
| 30°    | 462.2 | 458.5 | 452.5 | 450.6 | 448.3 |
| 32.5°  | 444.7 | 441.4 | 435.0 | 432.7 | 430.4 |
| 35°    | 426.2 | 423.0 | 416.5 | 413.3 | 411.0 |
| 37.5°  | 406.9 | 404.1 | 397.2 | 394.0 | 390.7 |
| 40°    | 388.0 | 384.3 | 377.4 | 372.8 | 370.5 |
| 42.5°  | 367.7 | 365.9 | 358.0 | 352.5 | 351.1 |
| 45°    | 347.9 | 344.7 | 337.3 | 332.2 | 330.8 |
| 47.5°  | 327.2 | 324.9 | 317.9 | 312.4 | 308.7 |
| 50°    | 306.0 | 304.1 | 297.7 | 291.2 | 288.5 |
| 52.5°  | 285.2 | 282.9 | 276.0 | 270.5 | 266.8 |
| 55°    | 263.1 | 261.7 | 255.3 | 249.7 | 247.0 |
| 57.5°  | 242.4 | 241.0 | 234.5 | 229.0 | 226.2 |
| 60°    | 220.7 | 218.4 | 212.4 | 208.3 | 206.0 |
| 62.5°  | 199.5 | 197.7 | 191.2 | 187.5 | 185.2 |
| 65°    | 178.3 | 176.0 | 171.4 | 166.8 | 164.5 |
| 67.5°  | 156.7 | 154.8 | 150.2 | 145.6 | 145.1 |
| 70°    | 136.9 | 133.6 | 129.9 | 126.3 | 124.9 |
| 72.5°  | 115.7 | 112.4 | 109.7 | 106.9 | 105.5 |
| 75°    | 94.9  | 92.6  | 90.3  | 88.5  | 88.0  |
| 77.5°  | 74.6  | 73.7  | 71.4  | 71.0  | 69.6  |
| 80°    | 56.7  | 55.3  | 54.4  | 53.5  | 53.0  |
| 82.5°  | 39.2  | 38.7  | 38.7  | 38.2  | 37.8  |
| 85°    | 24.9  | 24.9  | 24.0  | 24.0  | 23.5  |
| 87.5°  | 12.0  | 11.5  | 11.1  | 11.1  | 11.1  |
| 90°    | 3.0   | 13.8  | 21.7  | 27.7  | 29.6  |
| 92.5°  | 14.8  | 12.8  | 20.8  | 26.7  | 26.7  |
| 95°    | 54.4  | 20.8  | 21.7  | 27.7  | 28.7  |
| 97.5°  | 103.8 | 125.5 | 21.7  | 26.7  | 27.7  |
| 100°   | 162.1 | 179.8 | 43.5  | 26.7  | 27.7  |
| 102.5° | 227.3 | 239.1 | 251.0 | 28.7  | 28.7  |
| 105°   | 297.4 | 303.4 | 308.3 | 317.2 | 281.6 |
| 107.5° | 361.7 | 364.6 | 371.6 | 376.5 | 380.5 |
| 110°   | 426.9 | 429.9 | 435.8 | 437.8 | 440.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.1  | 496.1  | 498.0  | 497.1  | 501.0  |
| 115°   | 555.4  | 558.3  | 557.3  | 559.3  | 559.3  |
| 117.5° | 613.7  | 617.6  | 620.6  | 619.6  | 619.6  |
| 120°   | 673.0  | 676.9  | 675.9  | 677.9  | 675.9  |
| 122.5° | 728.3  | 730.3  | 732.2  | 733.2  | 731.3  |
| 125°   | 780.7  | 784.6  | 782.6  | 785.6  | 786.6  |
| 127.5° | 831.1  | 832.1  | 837.0  | 836.0  | 835.0  |
| 130°   | 879.5  | 880.5  | 883.4  | 884.4  | 884.4  |
| 132.5° | 924.0  | 925.9  | 929.9  | 930.9  | 929.9  |
| 135°   | 968.4  | 967.4  | 971.4  | 973.4  | 975.3  |
| 137.5° | 1007.9 | 1007.9 | 1012.9 | 1014.9 | 1013.9 |
| 140°   | 1046.5 | 1048.5 | 1050.4 | 1053.4 | 1054.4 |
| 142.5° | 1081.1 | 1085.0 | 1086.0 | 1088.0 | 1088.0 |
| 145°   | 1116.6 | 1119.6 | 1119.6 | 1120.6 | 1122.6 |
| 147.5° | 1144.3 | 1150.2 | 1149.3 | 1150.2 | 1151.2 |
| 150°   | 1175.0 | 1178.9 | 1177.9 | 1177.9 | 1178.9 |
| 152.5° | 1200.6 | 1203.6 | 1201.6 | 1203.6 | 1202.6 |
| 155°   | 1224.4 | 1225.4 | 1222.4 | 1226.3 | 1223.4 |
| 157.5° | 1245.1 | 1245.1 | 1241.2 | 1246.1 | 1241.2 |
| 160°   | 1262.9 | 1259.9 | 1258.9 | 1264.9 | 1258.9 |
| 162.5° | 1278.7 | 1274.8 | 1273.8 | 1279.7 | 1272.8 |
| 165°   | 1291.6 | 1286.6 | 1286.6 | 1294.5 | 1285.6 |
| 167.5° | 1302.4 | 1297.5 | 1296.5 | 1305.4 | 1295.5 |
| 170°   | 1311.3 | 1305.4 | 1306.4 | 1314.3 | 1304.4 |
| 172.5° | 1317.3 | 1311.3 | 1312.3 | 1320.2 | 1309.3 |
| 175°   | 1321.2 | 1315.3 | 1316.3 | 1325.2 | 1313.3 |
| 177.5° | 1324.2 | 1317.3 | 1319.2 | 1327.1 | 1315.3 |
| 180°   | 1321.2 | 1321.2 | 1321.2 | 1321.2 | 1321.2 |

(END OF REPORT)