

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: P1025725

Luminaire Tested: S124DIP-B795D1035UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025725  
REPORT IS A COMBINATION OF REPORTS P996355 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1035UB35-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

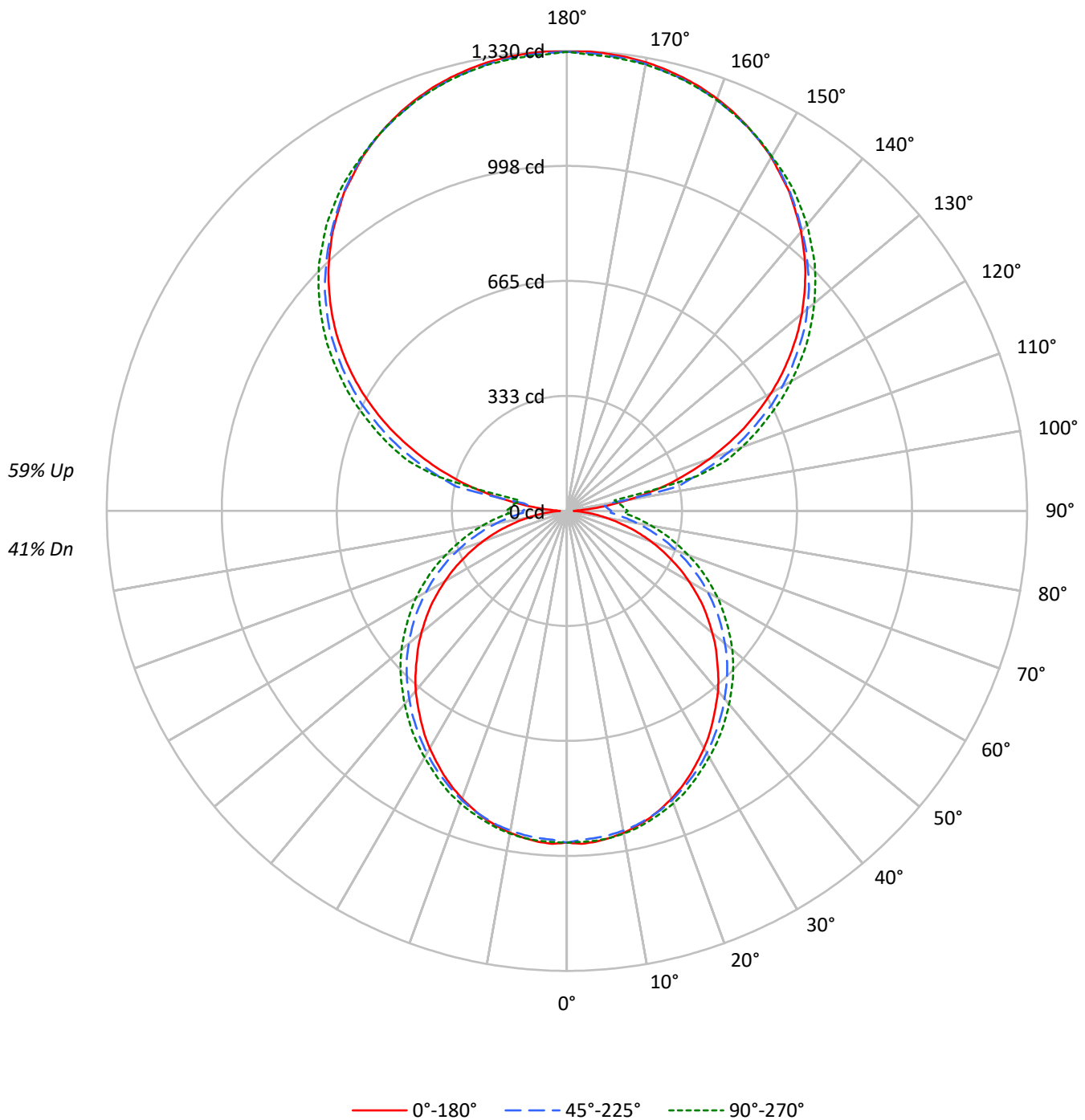
Lumens per Lamp: N/A  
Luminaire Lumens: 7379.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 64.4  
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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 48 | 48 | 48 |
| 1   | 95  | 90  | 86  | 82  | 86 | 82 | 79 | 76 | 67 | 65 | 63 | 54 | 52 | 50 | 41 | 40 | 39 |
| 2   | 86  | 78  | 72  | 67  | 78 | 71 | 66 | 61 | 59 | 55 | 51 | 47 | 44 | 41 | 36 | 34 | 32 |
| 3   | 78  | 69  | 61  | 55  | 71 | 63 | 56 | 51 | 51 | 46 | 42 | 41 | 37 | 34 | 31 | 29 | 27 |
| 4   | 71  | 60  | 52  | 46  | 65 | 55 | 48 | 43 | 45 | 40 | 36 | 36 | 32 | 29 | 28 | 25 | 23 |
| 5   | 65  | 54  | 45  | 39  | 59 | 49 | 42 | 36 | 40 | 35 | 31 | 32 | 28 | 25 | 25 | 22 | 20 |
| 6   | 60  | 48  | 40  | 34  | 54 | 44 | 37 | 31 | 36 | 31 | 27 | 29 | 25 | 22 | 22 | 20 | 17 |
| 7   | 56  | 43  | 35  | 30  | 50 | 40 | 32 | 27 | 33 | 27 | 23 | 26 | 22 | 19 | 20 | 17 | 15 |
| 8   | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 |
| 9   | 48  | 36  | 28  | 23  | 43 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 |
| 10  | 45  | 33  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 14 | 16 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7821 | 7821 | 7821 |
| 5°  | 7843 | 7617 | 7631 |
| 10° | 7791 | 7467 | 7446 |
| 15° | 7718 | 7299 | 7237 |
| 20° | 7611 | 7116 | 7034 |
| 25° | 7489 | 6915 | 6816 |
| 30° | 7357 | 6715 | 6593 |
| 35° | 7208 | 6512 | 6395 |
| 40° | 7089 | 6317 | 6190 |
| 45° | 6911 | 6133 | 6008 |
| 50° | 6761 | 5924 | 5816 |
| 55° | 6605 | 5723 | 5595 |
| 60° | 6364 | 5473 | 5387 |
| 65° | 6097 | 5203 | 5138 |
| 70° | 5774 | 4896 | 4849 |
| 75° | 5323 | 4553 | 4573 |
| 80° | 4816 | 4204 | 4286 |
| 85° | 4141 | 3854 | 4052 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6911 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.9   | 1.2       |
| 10°-20°   | 260.4  | 3.5       |
| 20°-30°   | 393.7  | 5.3       |
| 30°-40°   | 476.3  | 6.5       |
| 40°-50°   | 503.5  | 6.8       |
| 50°-60°   | 473.9  | 6.4       |
| 60°-70°   | 393.2  | 5.3       |
| 70°-80°   | 276.0  | 3.7       |
| 80°-90°   | 158.3  | 2.1       |
| 90°-100°  | 136.7  | 1.9       |
| 100°-110° | 358.7  | 4.9       |
| 110°-120° | 600.0  | 8.1       |
| 120°-130° | 729.2  | 9.9       |
| 130°-140° | 763.5  | 10.3      |
| 140°-150° | 705.7  | 9.6       |
| 150°-160° | 567.3  | 7.7       |
| 160°-170° | 365.8  | 5.0       |
| 170°-180° | 126.1  | 1.7       |
| 0°-30°    | 744.9  | 10.1      |
| 0°-40°    | 1221.2 | 16.6      |
| 0°-60°    | 2198.6 | 29.8      |
| 0°-90°    | 3026.1 | 41.0      |
| 90°-120°  | 1095.3 | 14.8      |
| 90°-150°  | 3293.6 | 44.6      |
| 90°-180°  | 4353.0 | 59.0      |
| 0°-180°   | 7379.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 959  | 959   | 959  | 959   | 959  |      |
| 5°   | 960  | 957   | 949  | 958   | 957  | 91   |
| 15°  | 920  | 922   | 918  | 928   | 927  | 259  |
| 25°  | 842  | 848   | 852  | 864   | 865  | 388  |
| 35°  | 737  | 750   | 760  | 776   | 779  | 461  |
| 45°  | 614  | 635   | 655  | 673   | 679  | 475  |
| 55°  | 481  | 504   | 536  | 557   | 564  | 429  |
| 65°  | 333  | 367   | 404  | 431   | 439  | 330  |
| 75°  | 185  | 224   | 270  | 300   | 309  | 196  |
| 85°  | 57   | 102   | 150  | 183   | 193  | 59   |
| 90°  | 20   | 74    | 128  | 165   | 176  | 15   |
| 95°  | 69   | 70    | 115  | 150   | 161  | 78   |
| 105° | 308  | 336   | 381  | 416   | 389  | 324  |
| 115° | 564  | 577   | 610  | 636   | 643  | 556  |
| 125° | 788  | 791   | 816  | 840   | 847  | 704  |
| 135° | 975  | 974   | 985  | 1004  | 1013 | 751  |
| 145° | 1123 | 1124  | 1124 | 1132  | 1138 | 702  |
| 155° | 1230 | 1231  | 1228 | 1232  | 1229 | 567  |
| 165° | 1297 | 1292  | 1292 | 1300  | 1291 | 367  |
| 175° | 1327 | 1321  | 1322 | 1331  | 1319 | 126  |
| 180° | 1327 | 1327  | 1327 | 1327  | 1327 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 959.1 | 959.1 | 959.1 | 959.1 | 959.1 |
| 2.5°   | 963.4 | 960.2 | 951.6 | 959.1 | 958.0 |
| 5°     | 960.2 | 957.0 | 949.4 | 958.0 | 957.0 |
| 7.5°   | 953.7 | 951.6 | 945.1 | 954.8 | 953.7 |
| 10°    | 945.1 | 944.1 | 938.7 | 948.4 | 947.3 |
| 12.5°  | 933.3 | 933.3 | 930.1 | 938.7 | 938.7 |
| 15°    | 920.4 | 921.5 | 918.3 | 928.0 | 926.9 |
| 17.5°  | 903.3 | 906.5 | 905.4 | 915.1 | 914.0 |
| 20°    | 885.0 | 888.2 | 889.3 | 900.0 | 900.0 |
| 22.5°  | 864.6 | 868.9 | 871.0 | 881.8 | 883.9 |
| 25°    | 842.0 | 848.5 | 851.7 | 863.5 | 864.6 |
| 27.5°  | 817.3 | 827.0 | 831.3 | 842.0 | 843.1 |
| 30°    | 792.6 | 801.2 | 808.7 | 820.6 | 822.7 |
| 32.5°  | 765.8 | 776.5 | 785.1 | 799.1 | 801.2 |
| 35°    | 736.8 | 749.7 | 760.4 | 775.5 | 778.7 |
| 37.5°  | 707.8 | 722.8 | 735.7 | 750.7 | 754.0 |
| 40°    | 679.9 | 693.8 | 708.9 | 725.0 | 729.3 |
| 42.5°  | 647.6 | 663.8 | 682.0 | 700.3 | 703.5 |
| 45°    | 614.3 | 634.8 | 655.2 | 673.4 | 678.8 |
| 47.5°  | 583.2 | 603.6 | 627.2 | 645.5 | 651.9 |
| 50°    | 548.8 | 572.5 | 596.1 | 617.6 | 624.0 |
| 52.5°  | 514.5 | 538.1 | 566.0 | 587.5 | 593.9 |
| 55°    | 481.2 | 503.7 | 535.9 | 557.4 | 563.9 |
| 57.5°  | 443.6 | 471.5 | 502.6 | 528.4 | 533.8 |
| 60°    | 407.1 | 435.0 | 470.4 | 495.1 | 503.7 |
| 62.5°  | 371.6 | 402.8 | 438.2 | 462.9 | 471.5 |
| 65°    | 332.9 | 367.3 | 403.8 | 430.7 | 439.3 |
| 67.5°  | 296.4 | 332.9 | 371.6 | 398.5 | 407.1 |
| 70°    | 258.8 | 295.4 | 336.2 | 365.2 | 372.7 |
| 72.5°  | 222.3 | 259.9 | 304.0 | 331.9 | 340.5 |
| 75°    | 184.7 | 224.5 | 269.6 | 299.7 | 309.3 |
| 77.5°  | 149.3 | 191.2 | 238.4 | 268.5 | 279.2 |
| 80°    | 117.1 | 160.0 | 207.3 | 239.5 | 248.1 |
| 82.5°  | 84.8  | 130.0 | 177.2 | 210.5 | 220.2 |
| 85°    | 56.9  | 102.0 | 150.4 | 182.6 | 193.3 |
| 87.5°  | 35.4  | 79.5  | 126.7 | 157.9 | 167.5 |
| 90°    | 20.2  | 74.0  | 128.1 | 165.3 | 175.9 |
| 92.5°  | 31.0  | 66.6  | 120.7 | 156.8 | 165.4 |
| 95°    | 68.6  | 70.2  | 115.2 | 150.2 | 160.9 |
| 97.5°  | 117.1 | 170.1 | 109.9 | 142.8 | 153.5 |
| 100°   | 174.6 | 220.3 | 125.3 | 137.4 | 145.9 |
| 102.5° | 240.1 | 275.6 | 328.4 | 133.0 | 141.6 |
| 105°   | 308.5 | 335.8 | 380.6 | 416.3 | 389.2 |
| 107.5° | 373.0 | 394.1 | 438.7 | 470.6 | 482.0 |
| 110°   | 437.4 | 455.4 | 498.9 | 525.6 | 537.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 499.8  | 518.7  | 556.0  | 578.7  | 591.3  |
| 115°   | 564.2  | 576.9  | 610.3  | 635.9  | 643.4  |
| 117.5° | 622.8  | 633.2  | 668.4  | 690.0  | 698.6  |
| 120°   | 681.3  | 688.5  | 718.6  | 742.1  | 748.7  |
| 122.5° | 736.9  | 738.9  | 769.9  | 792.3  | 797.9  |
| 125°   | 788.4  | 791.3  | 816.2  | 839.6  | 847.0  |
| 127.5° | 839.0  | 838.9  | 865.4  | 883.7  | 890.3  |
| 130°   | 886.6  | 886.4  | 906.6  | 927.0  | 933.4  |
| 132.5° | 931.2  | 932.1  | 949.0  | 968.3  | 973.7  |
| 135°   | 974.8  | 973.8  | 985.4  | 1004.5 | 1012.9 |
| 137.5° | 1014.5 | 1013.5 | 1022.7 | 1040.8 | 1045.2 |
| 140°   | 1053.2 | 1054.2 | 1057.2 | 1074.1 | 1080.5 |
| 142.5° | 1086.9 | 1090.9 | 1090.8 | 1104.6 | 1108.9 |
| 145°   | 1122.7 | 1124.5 | 1124.5 | 1131.9 | 1138.2 |
| 147.5° | 1150.5 | 1155.3 | 1154.3 | 1156.4 | 1161.7 |
| 150°   | 1181.2 | 1184.1 | 1183.1 | 1183.1 | 1184.1 |
| 152.5° | 1205.9 | 1208.9 | 1206.9 | 1208.9 | 1207.9 |
| 155°   | 1229.7 | 1230.7 | 1227.8 | 1231.7 | 1228.8 |
| 157.5° | 1250.6 | 1250.6 | 1246.6 | 1251.6 | 1246.6 |
| 160°   | 1268.5 | 1265.5 | 1264.5 | 1270.4 | 1264.5 |
| 162.5° | 1284.3 | 1280.4 | 1279.4 | 1285.3 | 1278.4 |
| 165°   | 1297.2 | 1292.3 | 1292.3 | 1300.2 | 1291.3 |
| 167.5° | 1308.2 | 1303.2 | 1302.2 | 1311.1 | 1301.2 |
| 170°   | 1317.1 | 1311.1 | 1312.1 | 1320.1 | 1310.1 |
| 172.5° | 1323.0 | 1317.1 | 1318.1 | 1326.0 | 1315.1 |
| 175°   | 1327.0 | 1321.1 | 1322.1 | 1331.0 | 1319.1 |
| 177.5° | 1330.0 | 1323.0 | 1325.0 | 1333.0 | 1321.1 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

(END OF REPORT)