

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: P1026821

Luminaire Tested: S125DIP-B1270D850UB2750-4F0-XX-W2A-D\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026821  
REPORT IS A COMBINATION OF REPORTS P1001775 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D850UB2750-4F0-XX-W2A-D\_3500K  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

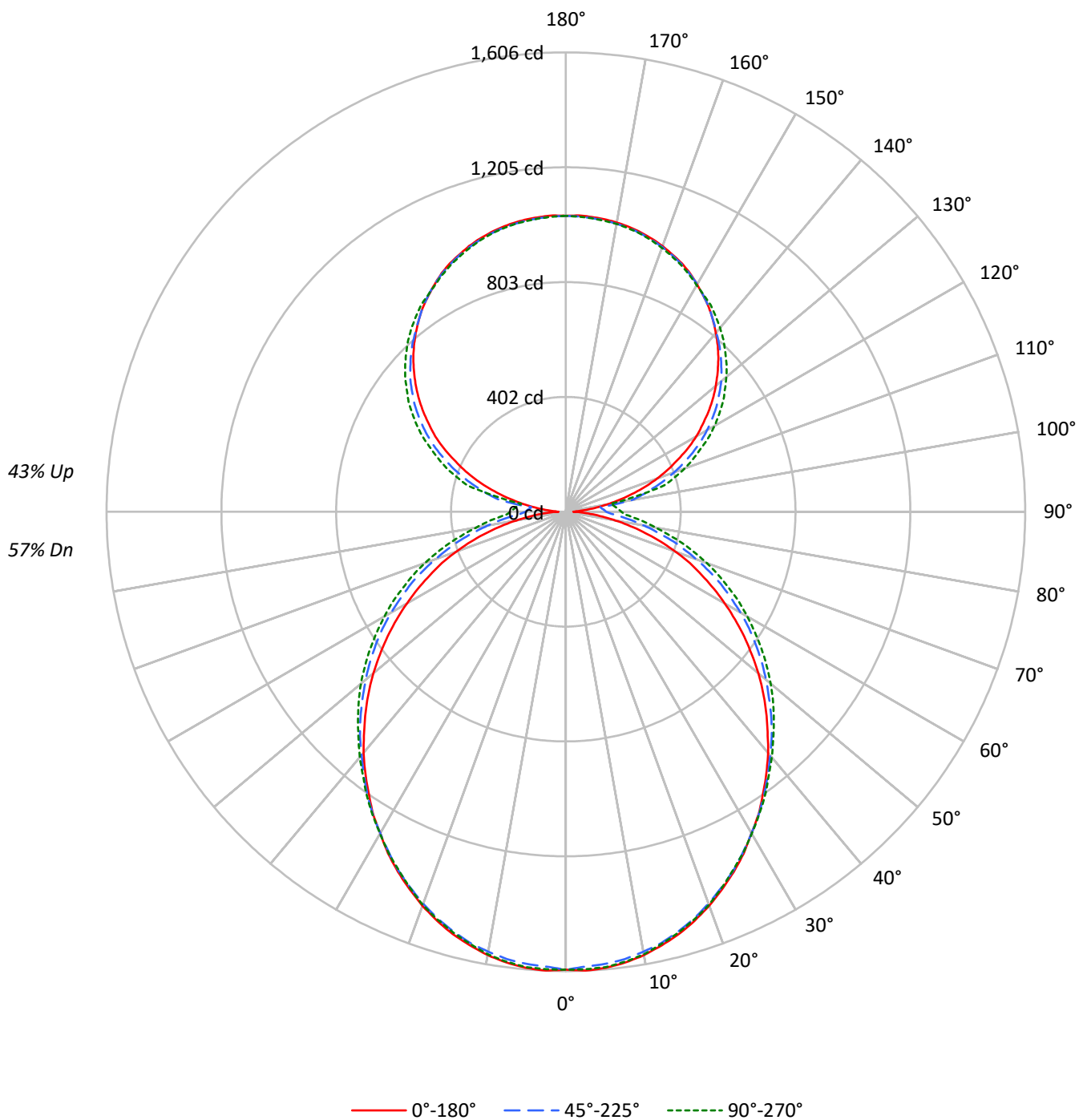
Lumens per Lamp: N/A  
Luminaire Lumens: 8139.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 82.4  
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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 |
| 1   | 99  | 94  | 90  | 86  | 92  | 87  | 84  | 80  | 75 | 73 | 70 | 64 | 62 | 60 | 54 | 53 | 51 |
| 2   | 89  | 81  | 75  | 69  | 83  | 76  | 70  | 65  | 66 | 61 | 57 | 56 | 53 | 50 | 47 | 45 | 43 |
| 3   | 81  | 71  | 64  | 57  | 75  | 67  | 60  | 54  | 58 | 52 | 48 | 49 | 45 | 42 | 42 | 38 | 36 |
| 4   | 74  | 63  | 55  | 48  | 69  | 59  | 51  | 46  | 51 | 45 | 41 | 44 | 39 | 36 | 37 | 34 | 31 |
| 5   | 68  | 56  | 48  | 41  | 63  | 52  | 45  | 39  | 46 | 40 | 35 | 39 | 34 | 31 | 33 | 30 | 27 |
| 6   | 63  | 50  | 42  | 36  | 58  | 47  | 39  | 34  | 41 | 35 | 30 | 35 | 31 | 27 | 30 | 26 | 23 |
| 7   | 58  | 45  | 37  | 31  | 54  | 43  | 35  | 30  | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 24 | 21 |
| 8   | 54  | 41  | 33  | 28  | 50  | 39  | 31  | 26  | 34 | 28 | 24 | 29 | 25 | 21 | 25 | 21 | 19 |
| 9   | 50  | 38  | 30  | 25  | 47  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 17 |
| 10  | 47  | 34  | 27  | 22  | 44  | 32  | 26  | 21  | 29 | 23 | 19 | 25 | 20 | 17 | 22 | 18 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10256 | 10256 | 10256 |
| 5°  | 10273 | 10042 | 10066 |
| 10° | 10196 | 9837  | 9809  |
| 15° | 10072 | 9599  | 9492  |
| 20° | 9904  | 9311  | 9178  |
| 25° | 9706  | 9004  | 8798  |
| 30° | 9466  | 8671  | 8452  |
| 35° | 9241  | 8362  | 8133  |
| 40° | 9013  | 8038  | 7812  |
| 45° | 8754  | 7757  | 7523  |
| 50° | 8507  | 7452  | 7263  |
| 55° | 8210  | 7161  | 6960  |
| 60° | 7884  | 6830  | 6649  |
| 65° | 7543  | 6479  | 6301  |
| 70° | 7152  | 6011  | 5936  |
| 75° | 6539  | 5549  | 5492  |
| 80° | 5729  | 4988  | 5002  |
| 85° | 4934  | 4538  | 4743  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.5  | 1.9       |
| 10°-20°   | 430.0  | 5.3       |
| 20°-30°   | 639.5  | 7.9       |
| 30°-40°   | 757.3  | 9.3       |
| 40°-50°   | 782.9  | 9.6       |
| 50°-60°   | 721.2  | 8.9       |
| 60°-70°   | 583.0  | 7.2       |
| 70°-80°   | 390.1  | 4.8       |
| 80°-90°   | 203.2  | 2.5       |
| 90°-100°  | 148.7  | 1.8       |
| 100°-110° | 317.3  | 3.9       |
| 110°-120° | 476.6  | 5.9       |
| 120°-130° | 571.5  | 7.0       |
| 130°-140° | 594.4  | 7.3       |
| 140°-150° | 547.6  | 6.7       |
| 150°-160° | 440.8  | 5.4       |
| 160°-170° | 285.0  | 3.5       |
| 170°-180° | 98.3   | 1.2       |
| 0°-30°    | 1221.0 | 15.0      |
| 0°-40°    | 1978.3 | 24.3      |
| 0°-60°    | 3482.4 | 42.8      |
| 0°-90°    | 4658.8 | 57.2      |
| 90°-120°  | 942.5  | 11.6      |
| 90°-150°  | 2656.1 | 32.6      |
| 90°-180°  | 3480.0 | 42.8      |
| 0°-180°   | 8139.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1601 | 1601  | 1601 | 1601  | 1601 |      |
| 5°   | 1601 | 1598  | 1587 | 1599  | 1598 | 152  |
| 15°  | 1529 | 1530  | 1519 | 1529  | 1522 | 431  |
| 25°  | 1389 | 1394  | 1384 | 1390  | 1383 | 639  |
| 35°  | 1202 | 1213  | 1208 | 1213  | 1213 | 753  |
| 45°  | 990  | 1008  | 1015 | 1026  | 1028 | 764  |
| 55°  | 761  | 786   | 811  | 829   | 835  | 680  |
| 65°  | 524  | 560   | 598  | 622   | 628  | 520  |
| 75°  | 289  | 330   | 380  | 411   | 419  | 306  |
| 85°  | 86   | 138   | 193  | 228   | 240  | 90   |
| 90°  | 26   | 82    | 141  | 181   | 194  | 20   |
| 95°  | 64   | 103   | 127  | 165   | 176  | 70   |
| 105° | 240  | 268   | 315  | 346   | 356  | 254  |
| 115° | 433  | 448   | 489  | 514   | 519  | 429  |
| 125° | 608  | 612   | 644  | 666   | 671  | 543  |
| 135° | 754  | 757   | 767  | 786   | 789  | 581  |
| 145° | 872  | 872   | 872  | 881   | 882  | 545  |
| 155° | 959  | 954   | 956  | 958   | 952  | 442  |
| 165° | 1012 | 1007  | 1008 | 1012  | 1006 | 286  |
| 175° | 1035 | 1030  | 1031 | 1037  | 1030 | 99   |
| 180° | 1035 | 1035  | 1035 | 1035  | 1035 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1600.8 | 1600.8 | 1600.8 | 1600.8 | 1600.8 |
| 2.5°   | 1605.5 | 1602.4 | 1591.4 | 1602.4 | 1600.8 |
| 5°     | 1600.8 | 1597.7 | 1586.7 | 1599.2 | 1597.7 |
| 7.5°   | 1589.8 | 1588.2 | 1577.3 | 1588.2 | 1586.7 |
| 10°    | 1574.1 | 1574.1 | 1561.6 | 1572.6 | 1571.0 |
| 12.5°  | 1552.1 | 1553.7 | 1544.3 | 1552.1 | 1547.4 |
| 15°    | 1528.6 | 1530.2 | 1519.2 | 1528.6 | 1522.3 |
| 17.5°  | 1498.8 | 1501.9 | 1490.9 | 1498.8 | 1494.1 |
| 20°    | 1465.8 | 1469.0 | 1458.0 | 1462.7 | 1462.7 |
| 22.5°  | 1428.2 | 1434.4 | 1421.9 | 1428.2 | 1423.5 |
| 25°    | 1388.9 | 1393.6 | 1384.2 | 1390.5 | 1382.7 |
| 27.5°  | 1346.6 | 1352.8 | 1341.8 | 1346.6 | 1343.4 |
| 30°    | 1297.9 | 1307.3 | 1297.9 | 1301.0 | 1299.5 |
| 32.5°  | 1254.0 | 1261.8 | 1255.5 | 1258.7 | 1257.1 |
| 35°    | 1202.2 | 1213.2 | 1208.4 | 1213.2 | 1213.2 |
| 37.5°  | 1151.9 | 1161.4 | 1159.8 | 1166.1 | 1164.5 |
| 40°    | 1100.2 | 1112.7 | 1111.1 | 1117.4 | 1120.6 |
| 42.5°  | 1043.7 | 1060.9 | 1065.6 | 1073.5 | 1073.5 |
| 45°    | 990.3  | 1007.6 | 1015.4 | 1026.4 | 1028.0 |
| 47.5°  | 935.4  | 951.1  | 963.6  | 979.3  | 982.5  |
| 50°    | 878.9  | 896.1  | 913.4  | 930.7  | 935.4  |
| 52.5°  | 819.2  | 841.2  | 863.2  | 882.0  | 885.1  |
| 55°    | 761.2  | 786.3  | 811.4  | 828.6  | 834.9  |
| 57.5°  | 701.5  | 731.3  | 759.6  | 778.4  | 783.1  |
| 60°    | 641.9  | 673.3  | 704.7  | 728.2  | 732.9  |
| 62.5°  | 583.8  | 615.2  | 649.7  | 676.4  | 682.7  |
| 65°    | 524.2  | 560.3  | 597.9  | 621.5  | 627.8  |
| 67.5°  | 469.3  | 503.8  | 541.4  | 569.7  | 577.5  |
| 70°    | 408.0  | 444.1  | 484.9  | 514.8  | 524.2  |
| 72.5°  | 348.4  | 386.1  | 431.6  | 464.5  | 470.8  |
| 75°    | 288.8  | 329.6  | 379.8  | 411.2  | 419.0  |
| 77.5°  | 230.7  | 277.8  | 324.9  | 359.4  | 365.7  |
| 80°    | 177.3  | 224.4  | 277.8  | 312.3  | 318.6  |
| 82.5°  | 128.7  | 178.9  | 233.8  | 266.8  | 279.4  |
| 85°    | 86.3   | 138.1  | 193.0  | 227.6  | 240.1  |
| 87.5°  | 54.9   | 105.2  | 158.5  | 194.6  | 205.6  |
| 90°    | 25.9   | 82.2   | 141.0  | 180.9  | 194.2  |
| 92.5°  | 36.6   | 75.2   | 134.7  | 173.0  | 184.8  |
| 95°    | 64.1   | 102.6  | 126.9  | 165.2  | 176.2  |
| 97.5°  | 100.9  | 143.2  | 122.1  | 156.5  | 168.3  |
| 100°   | 145.4  | 180.6  | 233.9  | 152.6  | 158.9  |
| 102.5° | 190.6  | 223.5  | 273.7  | 306.6  | 251.6  |
| 105°   | 239.6  | 267.8  | 314.9  | 346.3  | 356.5  |
| 107.5° | 290.3  | 312.2  | 359.2  | 391.4  | 397.7  |
| 110°   | 339.3  | 358.1  | 403.6  | 431.1  | 442.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 386.8  | 403.2  | 446.4  | 471.5  | 481.0  |
| 115°   | 432.8  | 447.6  | 489.2  | 514.4  | 519.2  |
| 117.5° | 481.1  | 489.0  | 531.2  | 553.3  | 562.8  |
| 120°   | 527.1  | 531.1  | 569.5  | 594.6  | 600.1  |
| 122.5° | 566.2  | 571.6  | 606.9  | 630.5  | 635.3  |
| 125°   | 608.4  | 612.2  | 643.6  | 665.6  | 671.2  |
| 127.5° | 647.5  | 649.7  | 675.6  | 697.7  | 701.0  |
| 130°   | 684.3  | 686.5  | 709.3  | 729.0  | 733.0  |
| 132.5° | 719.5  | 724.1  | 737.5  | 759.5  | 762.0  |
| 135°   | 754.0  | 757.1  | 766.6  | 785.5  | 788.7  |
| 137.5° | 786.2  | 789.3  | 794.0  | 812.9  | 815.4  |
| 140°   | 816.2  | 817.7  | 818.5  | 837.3  | 839.0  |
| 142.5° | 844.6  | 843.7  | 845.3  | 859.4  | 861.1  |
| 145°   | 872.2  | 872.1  | 872.1  | 880.7  | 882.4  |
| 147.5° | 895.1  | 895.1  | 895.9  | 899.8  | 897.6  |
| 150°   | 918.1  | 916.6  | 918.1  | 919.7  | 915.1  |
| 152.5° | 940.4  | 936.5  | 938.1  | 939.6  | 934.2  |
| 155°   | 958.8  | 954.2  | 955.7  | 958.0  | 951.9  |
| 157.5° | 973.4  | 971.1  | 971.1  | 973.4  | 967.2  |
| 160°   | 988.7  | 984.1  | 984.9  | 987.9  | 981.8  |
| 162.5° | 1001.0 | 996.4  | 997.1  | 1001.7 | 994.8  |
| 165°   | 1011.7 | 1007.1 | 1007.9 | 1012.5 | 1006.3 |
| 167.5° | 1020.2 | 1015.6 | 1016.3 | 1021.7 | 1014.8 |
| 170°   | 1027.1 | 1021.7 | 1022.5 | 1028.6 | 1021.7 |
| 172.5° | 1031.7 | 1026.3 | 1027.8 | 1033.2 | 1026.3 |
| 175°   | 1034.7 | 1030.1 | 1030.9 | 1037.0 | 1030.1 |
| 177.5° | 1037.0 | 1032.4 | 1033.2 | 1038.6 | 1032.4 |
| 180°   | 1034.7 | 1034.7 | 1034.7 | 1034.7 | 1034.7 |

(END OF REPORT)