

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: P1026828

Luminaire Tested: S125DIP-B1270D850UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026828  
REPORT IS A COMBINATION OF REPORTS P1001782 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-F\_5000K  
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

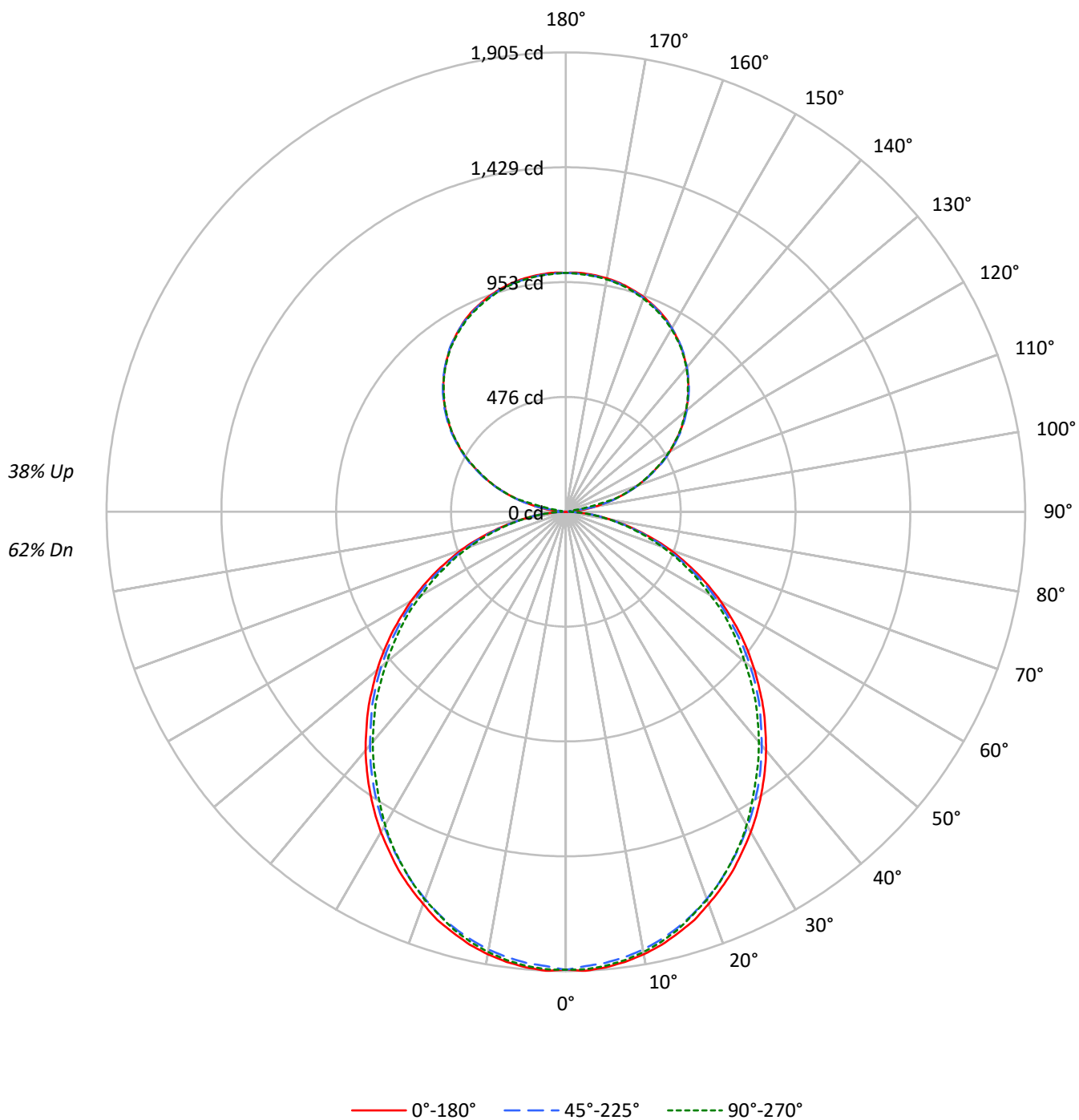
Lumens per Lamp: N/A  
Luminaire Lumens: 7988.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 |
| 1   | 100 | 96  | 92  | 88  | 94  | 90  | 87  | 83  | 79 | 76 | 74 | 69 | 67 | 65 | 59 | 58 | 57 |
| 2   | 91  | 84  | 77  | 72  | 85  | 79  | 73  | 68  | 69 | 65 | 61 | 60 | 57 | 54 | 52 | 50 | 48 |
| 3   | 83  | 74  | 66  | 60  | 78  | 69  | 63  | 57  | 61 | 56 | 51 | 53 | 49 | 46 | 46 | 43 | 40 |
| 4   | 76  | 65  | 57  | 51  | 71  | 61  | 54  | 48  | 54 | 48 | 44 | 47 | 43 | 39 | 41 | 38 | 35 |
| 5   | 70  | 58  | 50  | 44  | 65  | 55  | 47  | 42  | 48 | 42 | 38 | 43 | 38 | 34 | 37 | 33 | 30 |
| 6   | 65  | 52  | 44  | 38  | 60  | 49  | 42  | 36  | 44 | 38 | 33 | 39 | 34 | 30 | 34 | 30 | 27 |
| 7   | 60  | 47  | 39  | 33  | 56  | 45  | 37  | 32  | 40 | 34 | 29 | 35 | 30 | 26 | 31 | 27 | 24 |
| 8   | 56  | 43  | 35  | 30  | 52  | 41  | 33  | 28  | 36 | 30 | 26 | 32 | 27 | 24 | 28 | 24 | 21 |
| 9   | 52  | 39  | 32  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 30 | 25 | 21 | 26 | 22 | 19 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 27  | 23  | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12168 | 12168 | 12168 |
| 5°  | 12168 | 11886 | 11908 |
| 10° | 12068 | 11613 | 11577 |
| 15° | 11910 | 11287 | 11186 |
| 20° | 11695 | 10909 | 10738 |
| 25° | 11465 | 10497 | 10258 |
| 30° | 11187 | 10068 | 9753  |
| 35° | 10891 | 9618  | 9186  |
| 40° | 10585 | 9142  | 8683  |
| 45° | 10254 | 8678  | 8148  |
| 50° | 9889  | 8152  | 7525  |
| 55° | 9529  | 7571  | 6951  |
| 60° | 9098  | 6960  | 6284  |
| 65° | 8583  | 6253  | 5594  |
| 70° | 8060  | 5438  | 4798  |
| 75° | 7178  | 4478  | 3880  |
| 80° | 6117  | 3345  | 2854  |
| 85° | 4723  | 1977  | 1572  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.2  | 2.2       |
| 10°-20°   | 506.2  | 6.3       |
| 20°-30°   | 747.3  | 9.4       |
| 30°-40°   | 871.9  | 10.9      |
| 40°-50°   | 875.7  | 11.0      |
| 50°-60°   | 768.7  | 9.6       |
| 60°-70°   | 572.6  | 7.2       |
| 70°-80°   | 327.0  | 4.1       |
| 80°-90°   | 95.9   | 1.2       |
| 90°-100°  | 33.6   | 0.4       |
| 100°-110° | 223.6  | 2.8       |
| 110°-120° | 402.7  | 5.0       |
| 120°-130° | 516.9  | 6.5       |
| 130°-140° | 555.9  | 7.0       |
| 140°-150° | 521.7  | 6.5       |
| 150°-160° | 422.0  | 5.3       |
| 160°-170° | 272.9  | 3.4       |
| 170°-180° | 94.1   | 1.2       |
| <hr/>     |        |           |
| 0°-30°    | 1432.7 | 17.9      |
| 0°-40°    | 2304.6 | 28.9      |
| 0°-60°    | 3949.0 | 49.4      |
| 0°-90°    | 4944.5 | 61.9      |
| 90°-120°  | 659.9  | 8.3       |
| 90°-150°  | 2254.4 | 28.2      |
| 90°-180°  | 3044.0 | 38.1      |
| 0°-180°   | 7988.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1899 | 1899  | 1899 | 1899  | 1899 |      |
| 5°   | 1896 | 1893  | 1878 | 1892  | 1890 | 180  |
| 15°  | 1808 | 1803  | 1786 | 1794  | 1794 | 510  |
| 25°  | 1641 | 1633  | 1614 | 1617  | 1612 | 755  |
| 35°  | 1417 | 1411  | 1390 | 1382  | 1370 | 886  |
| 45°  | 1160 | 1154  | 1136 | 1118  | 1113 | 894  |
| 55°  | 884  | 879   | 858  | 844   | 834  | 789  |
| 65°  | 596  | 594   | 577  | 563   | 557  | 592  |
| 75°  | 317  | 314   | 306  | 302   | 296  | 337  |
| 85°  | 83   | 84    | 84   | 83    | 80   | 90   |
| 90°  | 1    | 7     | 12   | 15    | 18   | 8    |
| 95°  | 42   | 40    | 12   | 15    | 15   | 51   |
| 105° | 216  | 219   | 219  | 219   | 218  | 229  |
| 115° | 405  | 409   | 410  | 407   | 402  | 402  |
| 125° | 577  | 582   | 582  | 579   | 577  | 515  |
| 135° | 719  | 724   | 722  | 720   | 716  | 554  |
| 145° | 834  | 835   | 835  | 836   | 831  | 521  |
| 155° | 918  | 914   | 915  | 917   | 912  | 423  |
| 165° | 969  | 964   | 965  | 970   | 964  | 274  |
| 175° | 991  | 986   | 987  | 993   | 986  | 94   |
| 180° | 991  | 991   | 991  | 991   | 991  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1899.1 | 1899.1 | 1899.1 | 1899.1 | 1899.1 |
| 2.5°   | 1905.2 | 1900.6 | 1885.6 | 1900.6 | 1899.1 |
| 5°     | 1896.1 | 1893.1 | 1878.1 | 1891.6 | 1890.1 |
| 7.5°   | 1882.6 | 1879.6 | 1863.1 | 1876.6 | 1875.1 |
| 10°    | 1863.1 | 1860.1 | 1843.6 | 1855.6 | 1854.1 |
| 12.5°  | 1839.0 | 1833.0 | 1818.0 | 1827.0 | 1827.0 |
| 15°    | 1807.5 | 1803.0 | 1786.5 | 1794.0 | 1794.0 |
| 17.5°  | 1774.4 | 1766.9 | 1750.4 | 1759.4 | 1751.9 |
| 20°    | 1730.9 | 1727.9 | 1708.3 | 1718.8 | 1711.3 |
| 22.5°  | 1687.3 | 1681.3 | 1663.3 | 1669.3 | 1664.8 |
| 25°    | 1640.7 | 1633.2 | 1613.7 | 1616.7 | 1612.2 |
| 27.5°  | 1586.6 | 1582.1 | 1562.6 | 1564.1 | 1559.6 |
| 30°    | 1534.0 | 1529.5 | 1507.0 | 1504.0 | 1499.5 |
| 32.5°  | 1476.9 | 1469.4 | 1449.9 | 1443.9 | 1434.9 |
| 35°    | 1416.8 | 1410.8 | 1389.8 | 1382.3 | 1370.3 |
| 37.5°  | 1355.2 | 1347.7 | 1328.2 | 1317.7 | 1310.2 |
| 40°    | 1292.1 | 1284.6 | 1263.6 | 1250.1 | 1245.6 |
| 42.5°  | 1224.5 | 1218.5 | 1197.5 | 1185.5 | 1177.9 |
| 45°    | 1159.9 | 1153.9 | 1135.9 | 1117.8 | 1113.3 |
| 47.5°  | 1089.3 | 1090.8 | 1068.3 | 1050.2 | 1039.7 |
| 50°    | 1021.7 | 1017.2 | 999.2  | 979.6  | 969.1  |
| 52.5°  | 952.6  | 949.6  | 930.0  | 913.5  | 901.5  |
| 55°    | 883.5  | 879.0  | 857.9  | 844.4  | 833.9  |
| 57.5°  | 809.8  | 808.3  | 790.3  | 772.3  | 767.8  |
| 60°    | 740.7  | 734.7  | 718.2  | 703.2  | 692.6  |
| 62.5°  | 668.6  | 664.1  | 650.6  | 634.0  | 626.5  |
| 65°    | 596.5  | 593.5  | 577.0  | 563.4  | 557.4  |
| 67.5°  | 525.9  | 519.9  | 507.8  | 495.8  | 492.8  |
| 70°    | 459.8  | 452.2  | 438.7  | 429.7  | 423.7  |
| 72.5°  | 387.6  | 383.1  | 375.6  | 365.1  | 359.1  |
| 75°    | 317.0  | 314.0  | 306.5  | 302.0  | 296.0  |
| 77.5°  | 250.9  | 249.4  | 244.9  | 241.9  | 237.4  |
| 80°    | 189.3  | 189.3  | 186.3  | 184.8  | 181.8  |
| 82.5°  | 135.2  | 132.2  | 132.2  | 129.2  | 129.2  |
| 85°    | 82.6   | 84.1   | 84.1   | 82.6   | 79.6   |
| 87.5°  | 40.6   | 40.6   | 39.1   | 39.1   | 36.1   |
| 90°    | 0.7    | 6.6    | 11.8   | 15.4   | 17.6   |
| 92.5°  | 14.0   | 7.3    | 11.8   | 15.4   | 16.2   |
| 95°    | 41.9   | 39.7   | 11.8   | 15.4   | 15.4   |
| 97.5°  | 78.6   | 83.0   | 13.2   | 14.7   | 15.4   |
| 100°   | 122.7  | 124.9  | 127.8  | 18.4   | 15.4   |
| 102.5° | 167.5  | 170.4  | 171.9  | 173.3  | 111.6  |
| 105°   | 215.9  | 218.9  | 218.9  | 218.9  | 218.1  |
| 107.5° | 265.9  | 265.9  | 267.3  | 268.1  | 265.1  |
| 110°   | 314.4  | 314.4  | 315.8  | 313.6  | 314.4  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 359.9 | 362.1 | 362.8 | 359.9 | 358.4 |
| 115°   | 405.4 | 409.1 | 409.8 | 406.9 | 402.5 |
| 117.5° | 453.2 | 453.2 | 456.1 | 451.7 | 450.2 |
| 120°   | 497.2 | 496.5 | 498.7 | 497.2 | 493.6 |
| 122.5° | 536.2 | 539.8 | 540.6 | 539.1 | 534.7 |
| 125°   | 576.6 | 581.7 | 581.7 | 578.8 | 576.6 |
| 127.5° | 615.5 | 619.2 | 618.4 | 617.0 | 611.1 |
| 130°   | 650.7 | 654.4 | 655.1 | 652.9 | 649.3 |
| 132.5° | 686.0 | 690.4 | 688.2 | 688.2 | 684.5 |
| 135°   | 719.0 | 723.5 | 722.0 | 720.5 | 716.1 |
| 137.5° | 749.9 | 754.3 | 752.8 | 752.8 | 749.2 |
| 140°   | 780.0 | 781.5 | 780.7 | 782.2 | 777.8 |
| 142.5° | 807.2 | 807.9 | 809.4 | 809.4 | 805.0 |
| 145°   | 833.6 | 835.1 | 835.1 | 835.8 | 831.4 |
| 147.5° | 857.1 | 857.1 | 857.9 | 858.6 | 853.5 |
| 150°   | 879.2 | 877.7 | 879.2 | 880.6 | 874.8 |
| 152.5° | 900.5 | 896.8 | 898.3 | 899.7 | 894.6 |
| 155°   | 918.1 | 913.7 | 915.2 | 917.4 | 911.5 |
| 157.5° | 932.0 | 929.8 | 929.8 | 932.0 | 926.2 |
| 160°   | 946.7 | 942.3 | 943.1 | 946.0 | 940.1 |
| 162.5° | 958.5 | 954.1 | 954.8 | 959.2 | 952.6 |
| 165°   | 968.8 | 964.4 | 965.1 | 969.5 | 963.6 |
| 167.5° | 976.8 | 972.4 | 973.2 | 978.3 | 971.7 |
| 170°   | 983.5 | 978.3 | 979.0 | 984.9 | 978.3 |
| 172.5° | 987.9 | 982.7 | 984.2 | 989.3 | 982.7 |
| 175°   | 990.8 | 986.4 | 987.1 | 993.0 | 986.4 |
| 177.5° | 993.0 | 988.6 | 989.3 | 994.5 | 988.6 |
| 180°   | 990.8 | 990.8 | 990.8 | 990.8 | 990.8 |

(END OF REPORT)