

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: P1026824

Luminaire Tested: S125DIP-B1270D850UB2750-4F0-XX-W2A-F\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026824  
REPORT IS A COMBINATION OF REPORTS P1001778 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D850UB2750-4F0-XX-W2A-F\_2700K  
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

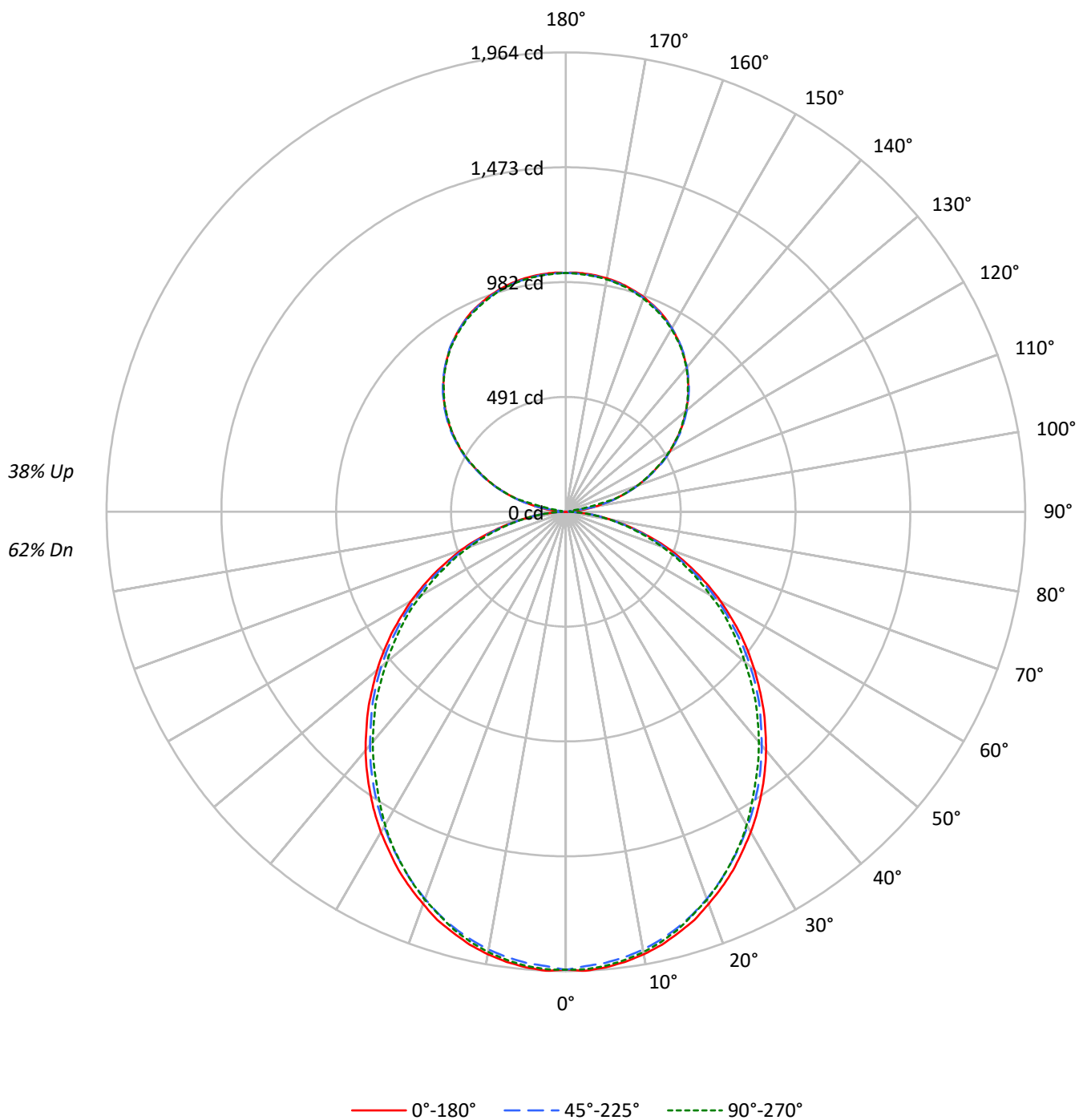
Lumens per Lamp: N/A  
Luminaire Lumens: 8235.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 82.4  
Input Voltage (V): 120  
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 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 67 | 67 | 62 |
| 1   | 100 | 96  | 92  | 88  | 94  | 90  | 87  | 83  | 79 | 76 | 74 | 69 | 67 | 65 | 59 | 58 | 57 | 57 | 57 | 52 |
| 2   | 91  | 84  | 77  | 72  | 85  | 79  | 73  | 68  | 69 | 65 | 61 | 60 | 57 | 54 | 52 | 50 | 48 | 48 | 48 | 43 |
| 3   | 83  | 74  | 66  | 60  | 78  | 69  | 63  | 57  | 61 | 56 | 51 | 53 | 49 | 46 | 46 | 43 | 40 | 40 | 40 | 37 |
| 4   | 76  | 65  | 57  | 51  | 71  | 61  | 54  | 48  | 54 | 48 | 44 | 47 | 43 | 39 | 41 | 38 | 35 | 35 | 35 | 32 |
| 5   | 70  | 58  | 50  | 44  | 65  | 55  | 47  | 42  | 48 | 42 | 38 | 43 | 38 | 34 | 37 | 33 | 30 | 30 | 30 | 27 |
| 6   | 65  | 52  | 44  | 38  | 60  | 49  | 42  | 36  | 44 | 38 | 33 | 39 | 34 | 30 | 34 | 30 | 27 | 27 | 27 | 24 |
| 7   | 60  | 47  | 39  | 33  | 56  | 45  | 37  | 32  | 40 | 34 | 29 | 35 | 30 | 26 | 31 | 27 | 24 | 24 | 24 | 21 |
| 8   | 56  | 43  | 35  | 30  | 52  | 41  | 33  | 28  | 36 | 30 | 26 | 32 | 27 | 24 | 28 | 24 | 21 | 21 | 21 | 19 |
| 9   | 52  | 39  | 32  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 30 | 25 | 21 | 26 | 22 | 19 | 19 | 19 | 17 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 27  | 23  | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 18 | 18 | 18 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12544 | 12544 | 12544 |
| 5°  | 12545 | 12253 | 12277 |
| 10° | 12442 | 11972 | 11935 |
| 15° | 12278 | 11637 | 11532 |
| 20° | 12057 | 11247 | 11070 |
| 25° | 11820 | 10822 | 10576 |
| 30° | 11534 | 10379 | 10055 |
| 35° | 11228 | 9915  | 9471  |
| 40° | 10913 | 9424  | 8952  |
| 45° | 10571 | 8946  | 8400  |
| 50° | 10195 | 8404  | 7757  |
| 55° | 9823  | 7806  | 7166  |
| 60° | 9380  | 7176  | 6479  |
| 65° | 8848  | 6446  | 5768  |
| 70° | 8309  | 5607  | 4947  |
| 75° | 7400  | 4617  | 4000  |
| 80° | 6308  | 3449  | 2942  |
| 85° | 4871  | 2039  | 1622  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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CATALOG NUMBER: S125DIP-B1270D850UB2750-4F0-XX-W2A-F\_2700K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.8  | 2.2       |
| 10°-20°   | 521.9  | 6.3       |
| 20°-30°   | 770.4  | 9.4       |
| 30°-40°   | 898.9  | 10.9      |
| 40°-50°   | 902.8  | 11.0      |
| 50°-60°   | 792.5  | 9.6       |
| 60°-70°   | 590.3  | 7.2       |
| 70°-80°   | 337.1  | 4.1       |
| 80°-90°   | 98.8   | 1.2       |
| 90°-100°  | 34.7   | 0.4       |
| 100°-110° | 230.5  | 2.8       |
| 110°-120° | 415.1  | 5.0       |
| 120°-130° | 532.8  | 6.5       |
| 130°-140° | 573.1  | 7.0       |
| 140°-150° | 537.9  | 6.5       |
| 150°-160° | 435.1  | 5.3       |
| 160°-170° | 281.4  | 3.4       |
| 170°-180° | 97.0   | 1.2       |
| 0°-30°    | 1477.1 | 17.9      |
| 0°-40°    | 2376.0 | 28.9      |
| 0°-60°    | 4071.3 | 49.4      |
| 0°-90°    | 5097.5 | 61.9      |
| 90°-120°  | 680.3  | 8.3       |
| 90°-150°  | 2324.0 | 28.2      |
| 90°-180°  | 3137.0 | 38.1      |
| 0°-180°   | 8235.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1958 | 1958  | 1958 | 1958  | 1958 |      |
| 5°   | 1955 | 1952  | 1936 | 1950  | 1949 | 186  |
| 15°  | 1863 | 1859  | 1842 | 1850  | 1850 | 525  |
| 25°  | 1692 | 1684  | 1664 | 1667  | 1662 | 778  |
| 35°  | 1461 | 1454  | 1433 | 1425  | 1413 | 914  |
| 45°  | 1196 | 1190  | 1171 | 1152  | 1148 | 921  |
| 55°  | 911  | 906   | 884  | 870   | 860  | 813  |
| 65°  | 615  | 612   | 595  | 581   | 575  | 610  |
| 75°  | 327  | 324   | 316  | 311   | 305  | 348  |
| 85°  | 85   | 87    | 87   | 85    | 82   | 93   |
| 90°  | 1    | 7     | 12   | 16    | 18   | 8    |
| 95°  | 43   | 41    | 12   | 16    | 16   | 53   |
| 105° | 223  | 226   | 226  | 226   | 225  | 236  |
| 115° | 418  | 422   | 422  | 420   | 415  | 414  |
| 125° | 594  | 600   | 600  | 597   | 594  | 531  |
| 135° | 741  | 746   | 744  | 743   | 738  | 571  |
| 145° | 859  | 861   | 861  | 862   | 857  | 537  |
| 155° | 946  | 942   | 943  | 946   | 940  | 436  |
| 165° | 999  | 994   | 995  | 999   | 993  | 282  |
| 175° | 1021 | 1017  | 1018 | 1024  | 1017 | 97   |
| 180° | 1021 | 1021  | 1021 | 1021  | 1021 |      |

TEST NUMBER: P1026824

CATALOG NUMBER: S125DIP-B1270D850UB2750-4F0-XX-W2A-F\_2700K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1957.9 | 1957.9 | 1957.9 | 1957.9 | 1957.9 |
| 2.5°   | 1964.1 | 1959.5 | 1944.0 | 1959.5 | 1957.9 |
| 5°     | 1954.8 | 1951.7 | 1936.2 | 1950.2 | 1948.6 |
| 7.5°   | 1940.9 | 1937.8 | 1920.8 | 1934.7 | 1933.1 |
| 10°    | 1920.8 | 1917.7 | 1900.6 | 1913.0 | 1911.5 |
| 12.5°  | 1896.0 | 1889.8 | 1874.3 | 1883.6 | 1883.6 |
| 15°    | 1863.4 | 1858.8 | 1841.8 | 1849.5 | 1849.5 |
| 17.5°  | 1829.4 | 1821.6 | 1804.6 | 1813.9 | 1806.1 |
| 20°    | 1784.4 | 1781.3 | 1761.2 | 1772.0 | 1764.3 |
| 22.5°  | 1739.5 | 1733.3 | 1714.7 | 1720.9 | 1716.3 |
| 25°    | 1691.5 | 1683.8 | 1663.6 | 1666.7 | 1662.1 |
| 27.5°  | 1635.7 | 1631.1 | 1611.0 | 1612.5 | 1607.9 |
| 30°    | 1581.5 | 1576.9 | 1553.6 | 1550.5 | 1545.9 |
| 32.5°  | 1522.7 | 1514.9 | 1494.8 | 1488.6 | 1479.3 |
| 35°    | 1460.7 | 1454.5 | 1432.8 | 1425.1 | 1412.7 |
| 37.5°  | 1397.2 | 1389.4 | 1369.3 | 1358.5 | 1350.7 |
| 40°    | 1332.1 | 1324.4 | 1302.7 | 1288.8 | 1284.1 |
| 42.5°  | 1262.4 | 1256.2 | 1234.5 | 1222.2 | 1214.4 |
| 45°    | 1195.8 | 1189.6 | 1171.0 | 1152.5 | 1147.8 |
| 47.5°  | 1123.0 | 1124.6 | 1101.3 | 1082.7 | 1071.9 |
| 50°    | 1053.3 | 1048.7 | 1030.1 | 1009.9 | 999.1  |
| 52.5°  | 982.1  | 979.0  | 958.8  | 941.8  | 929.4  |
| 55°    | 910.8  | 906.2  | 884.5  | 870.5  | 859.7  |
| 57.5°  | 834.9  | 833.4  | 814.8  | 796.2  | 791.5  |
| 60°    | 763.7  | 757.5  | 740.4  | 724.9  | 714.1  |
| 62.5°  | 689.3  | 684.7  | 670.7  | 653.7  | 645.9  |
| 65°    | 614.9  | 611.9  | 594.8  | 580.9  | 574.7  |
| 67.5°  | 542.1  | 536.0  | 523.6  | 511.2  | 508.1  |
| 70°    | 474.0  | 466.2  | 452.3  | 443.0  | 436.8  |
| 72.5°  | 399.6  | 395.0  | 387.2  | 376.4  | 370.2  |
| 75°    | 326.8  | 323.7  | 316.0  | 311.3  | 305.2  |
| 77.5°  | 258.7  | 257.1  | 252.5  | 249.4  | 244.7  |
| 80°    | 195.2  | 195.2  | 192.1  | 190.5  | 187.4  |
| 82.5°  | 139.4  | 136.3  | 136.3  | 133.2  | 133.2  |
| 85°    | 85.2   | 86.7   | 86.7   | 85.2   | 82.1   |
| 87.5°  | 41.8   | 41.8   | 40.3   | 40.3   | 37.2   |
| 90°    | 0.8    | 6.8    | 12.1   | 15.9   | 18.2   |
| 92.5°  | 14.4   | 7.6    | 12.1   | 15.9   | 16.7   |
| 95°    | 43.2   | 40.9   | 12.1   | 15.9   | 15.9   |
| 97.5°  | 81.0   | 85.6   | 13.6   | 15.1   | 15.9   |
| 100°   | 126.4  | 128.7  | 131.7  | 18.9   | 15.9   |
| 102.5° | 172.6  | 175.7  | 177.2  | 178.7  | 115.1  |
| 105°   | 222.6  | 225.6  | 225.6  | 225.6  | 224.9  |
| 107.5° | 274.1  | 274.1  | 275.6  | 276.4  | 273.3  |
| 110°   | 324.1  | 324.1  | 325.6  | 323.3  | 324.1  |



TEST NUMBER: P1026824

CATALOG NUMBER: S125DIP-B1270D850UB2750-4F0-XX-W2A-F\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 371.0  | 373.3  | 374.0  | 371.0  | 369.5  |
| 115°   | 417.9  | 421.7  | 422.5  | 419.5  | 414.9  |
| 117.5° | 467.2  | 467.2  | 470.2  | 465.6  | 464.1  |
| 120°   | 512.6  | 511.8  | 514.1  | 512.6  | 508.8  |
| 122.5° | 552.7  | 556.5  | 557.3  | 555.7  | 551.2  |
| 125°   | 594.4  | 599.7  | 599.7  | 596.6  | 594.4  |
| 127.5° | 634.5  | 638.3  | 637.5  | 636.0  | 629.9  |
| 130°   | 670.8  | 674.6  | 675.4  | 673.1  | 669.3  |
| 132.5° | 707.2  | 711.7  | 709.4  | 709.4  | 705.7  |
| 135°   | 741.2  | 745.8  | 744.3  | 742.8  | 738.2  |
| 137.5° | 773.0  | 777.6  | 776.1  | 776.1  | 772.3  |
| 140°   | 804.1  | 805.6  | 804.8  | 806.4  | 801.8  |
| 142.5° | 832.1  | 832.9  | 834.4  | 834.4  | 829.8  |
| 145°   | 859.4  | 860.9  | 860.9  | 861.6  | 857.1  |
| 147.5° | 883.6  | 883.6  | 884.3  | 885.1  | 879.8  |
| 150°   | 906.3  | 904.8  | 906.3  | 907.8  | 901.8  |
| 152.5° | 928.3  | 924.5  | 926.0  | 927.5  | 922.2  |
| 155°   | 946.4  | 941.9  | 943.4  | 945.7  | 939.6  |
| 157.5° | 960.8  | 958.5  | 958.5  | 960.8  | 954.8  |
| 160°   | 976.0  | 971.4  | 972.2  | 975.2  | 969.1  |
| 162.5° | 988.1  | 983.5  | 984.3  | 988.8  | 982.0  |
| 165°   | 998.7  | 994.1  | 994.9  | 999.4  | 993.4  |
| 167.5° | 1007.0 | 1002.5 | 1003.2 | 1008.5 | 1001.7 |
| 170°   | 1013.8 | 1008.5 | 1009.3 | 1015.3 | 1008.5 |
| 172.5° | 1018.4 | 1013.1 | 1014.6 | 1019.9 | 1013.1 |
| 175°   | 1021.4 | 1016.8 | 1017.6 | 1023.7 | 1016.8 |
| 177.5° | 1023.7 | 1019.1 | 1019.9 | 1025.2 | 1019.1 |
| 180°   | 1021.4 | 1021.4 | 1021.4 | 1021.4 | 1021.4 |

(END OF REPORT)