

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: P1026976

Luminaire Tested: S125DIP-B610D850UB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026976  
REPORT IS A COMBINATION OF REPORTS P1002380 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B610D850UB2750-4F0-XX-W2A-F\_3500K  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

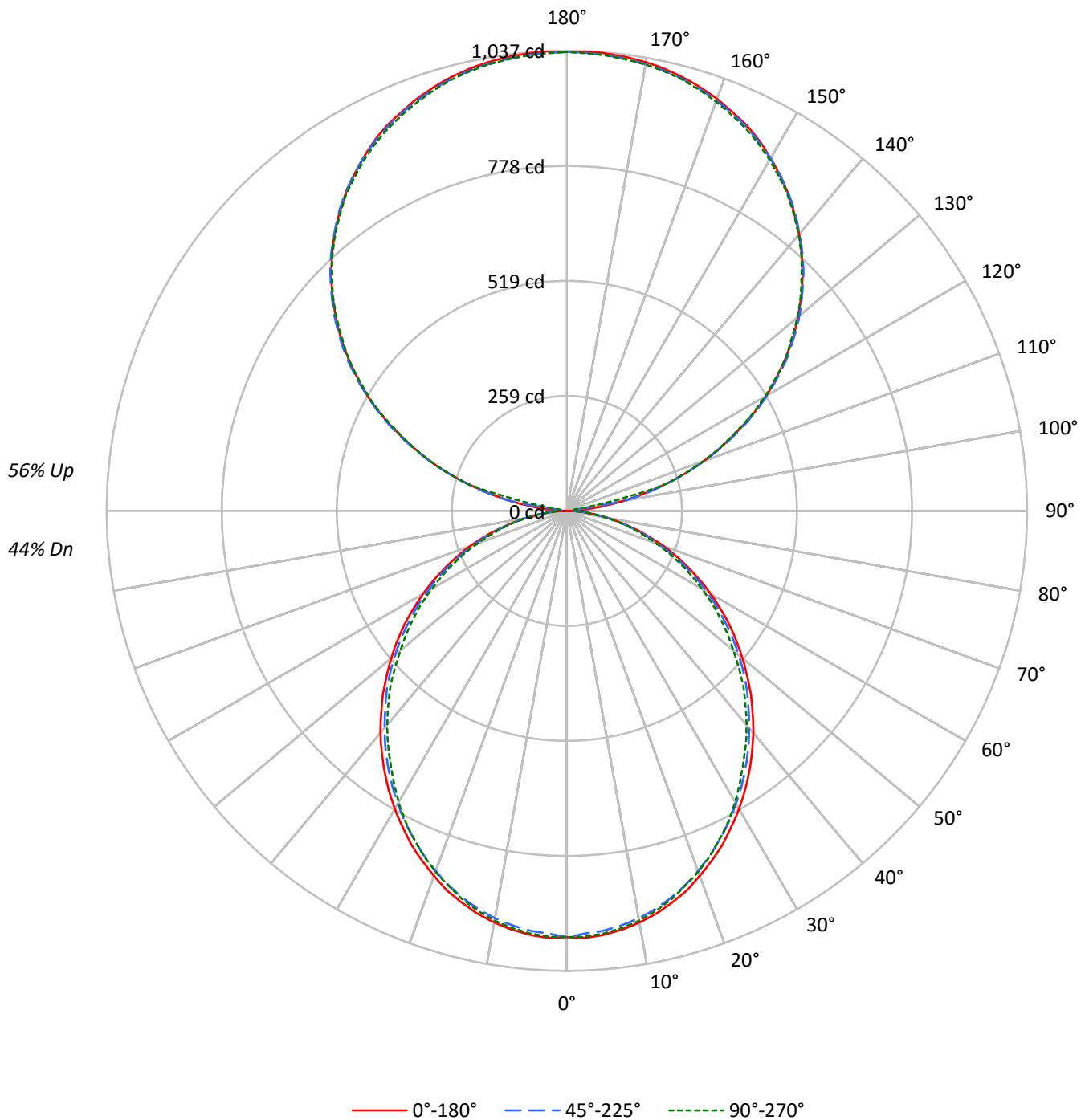
Lumens per Lamp: N/A  
Luminaire Lumens: 5680.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 45.1  
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 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |    |    |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 45 | 44 | 43 | 37 |    |    |
| 2   | 88  | 80  | 74  | 69  | 80 | 74 | 68 | 64 | 61 | 58 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | 31 |    |    |
| 3   | 80  | 71  | 63  | 58  | 73 | 65 | 59 | 53 | 54 | 49 | 46 | 44 | 41 | 38 | 35 | 32 | 30 | 26 |    |    |
| 4   | 73  | 62  | 55  | 49  | 67 | 57 | 51 | 45 | 48 | 43 | 39 | 39 | 35 | 32 | 31 | 28 | 26 | 22 |    |    |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 19 |    |    |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 25 | 22 | 20 | 17 |    |    |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |    |    |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |    |    |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |    |    |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 18 | 15 | 13 | 11 |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6154 | 6154 | 6154 |
| 5°  | 6154 | 6012 | 6023 |
| 10° | 6104 | 5873 | 5855 |
| 15° | 6024 | 5708 | 5657 |
| 20° | 5915 | 5517 | 5431 |
| 25° | 5799 | 5309 | 5188 |
| 30° | 5659 | 5092 | 4933 |
| 35° | 5509 | 4864 | 4646 |
| 40° | 5353 | 4624 | 4392 |
| 45° | 5186 | 4389 | 4121 |
| 50° | 5001 | 4123 | 3805 |
| 55° | 4819 | 3829 | 3515 |
| 60° | 4601 | 3520 | 3178 |
| 65° | 4341 | 3162 | 2829 |
| 70° | 4076 | 2751 | 2427 |
| 75° | 3630 | 2265 | 1962 |
| 80° | 3093 | 1691 | 1443 |
| 85° | 2390 | 1002 | 796  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5186 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.6   | 1.6       |
| 10°-20°   | 256.0  | 4.5       |
| 20°-30°   | 378.0  | 6.7       |
| 30°-40°   | 441.0  | 7.8       |
| 40°-50°   | 442.9  | 7.8       |
| 50°-60°   | 388.8  | 6.8       |
| 60°-70°   | 289.6  | 5.1       |
| 70°-80°   | 165.4  | 2.9       |
| 80°-90°   | 49.3   | 0.9       |
| 90°-100°  | 35.1   | 0.6       |
| 100°-110° | 233.5  | 4.1       |
| 110°-120° | 420.5  | 7.4       |
| 120°-130° | 539.8  | 9.5       |
| 130°-140° | 580.6  | 10.2      |
| 140°-150° | 544.9  | 9.6       |
| 150°-160° | 440.7  | 7.8       |
| 160°-170° | 285.0  | 5.0       |
| 170°-180° | 98.3   | 1.7       |
| 0°-30°    | 724.6  | 12.8      |
| 0°-40°    | 1165.6 | 20.5      |
| 0°-60°    | 1997.3 | 35.2      |
| 0°-90°    | 2501.5 | 44.0      |
| 90°-120°  | 689.2  | 12.1      |
| 90°-150°  | 2354.4 | 41.5      |
| 90°-180°  | 3178.0 | 56.0      |
| 0°-180°   | 5680.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 960  | 960   | 960  | 960   | 960  |      |
| 5°   | 959  | 958   | 950  | 957   | 956  | 91   |
| 15°  | 914  | 912   | 904  | 907   | 907  | 258  |
| 25°  | 830  | 826   | 816  | 818   | 815  | 382  |
| 35°  | 717  | 714   | 703  | 699   | 693  | 448  |
| 45°  | 587  | 584   | 574  | 565   | 563  | 452  |
| 55°  | 447  | 444   | 434  | 427   | 422  | 399  |
| 65°  | 302  | 300   | 292  | 285   | 282  | 299  |
| 75°  | 160  | 159   | 155  | 153   | 150  | 171  |
| 85°  | 42   | 43    | 43   | 42    | 40   | 46   |
| 90°  | 1    | 7     | 12   | 16    | 18   | 5    |
| 95°  | 44   | 41    | 12   | 16    | 16   | 54   |
| 105° | 226  | 229   | 229  | 229   | 228  | 239  |
| 115° | 423  | 427   | 428  | 425   | 420  | 420  |
| 125° | 602  | 608   | 608  | 604   | 602  | 538  |
| 135° | 751  | 756   | 754  | 752   | 748  | 579  |
| 145° | 871  | 872   | 872  | 873   | 868  | 544  |
| 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°     | 960.5 | 960.5 | 960.5 | 960.5 | 960.5 |
| 2.5°   | 963.6 | 961.3 | 953.7 | 961.3 | 960.5 |
| 5°     | 959.0 | 957.5 | 949.9 | 956.7 | 956.0 |
| 7.5°   | 952.2 | 950.6 | 942.3 | 949.1 | 948.4 |
| 10°    | 942.3 | 940.8 | 932.4 | 938.5 | 937.7 |
| 12.5°  | 930.1 | 927.1 | 919.5 | 924.0 | 924.0 |
| 15°    | 914.2 | 911.9 | 903.5 | 907.3 | 907.3 |
| 17.5°  | 897.4 | 893.6 | 885.3 | 889.8 | 886.1 |
| 20°    | 875.4 | 873.9 | 864.0 | 869.3 | 865.5 |
| 22.5°  | 853.4 | 850.3 | 841.2 | 844.3 | 842.0 |
| 25°    | 829.8 | 826.0 | 816.1 | 817.7 | 815.4 |
| 27.5°  | 802.5 | 800.2 | 790.3 | 791.1 | 788.8 |
| 30°    | 775.9 | 773.6 | 762.2 | 760.7 | 758.4 |
| 32.5°  | 747.0 | 743.2 | 733.3 | 730.3 | 725.7 |
| 35°    | 716.6 | 713.6 | 702.9 | 699.1 | 693.0 |
| 37.5°  | 685.4 | 681.6 | 671.8 | 666.4 | 662.6 |
| 40°    | 653.5 | 649.7 | 639.1 | 632.2 | 630.0 |
| 42.5°  | 619.3 | 616.3 | 605.6 | 599.6 | 595.8 |
| 45°    | 586.6 | 583.6 | 574.5 | 565.4 | 563.1 |
| 47.5°  | 550.9 | 551.7 | 540.3 | 531.2 | 525.9 |
| 50°    | 516.7 | 514.5 | 505.3 | 495.5 | 490.1 |
| 52.5°  | 481.8 | 480.3 | 470.4 | 462.0 | 455.9 |
| 55°    | 446.8 | 444.5 | 433.9 | 427.1 | 421.7 |
| 57.5°  | 409.6 | 408.8 | 399.7 | 390.6 | 388.3 |
| 60°    | 374.6 | 371.6 | 363.2 | 355.6 | 350.3 |
| 62.5°  | 338.2 | 335.9 | 329.0 | 320.7 | 316.9 |
| 65°    | 301.7 | 300.2 | 291.8 | 285.0 | 281.9 |
| 67.5°  | 266.0 | 262.9 | 256.8 | 250.8 | 249.2 |
| 70°    | 232.5 | 228.7 | 221.9 | 217.3 | 214.3 |
| 72.5°  | 196.1 | 193.8 | 190.0 | 184.7 | 181.6 |
| 75°    | 160.3 | 158.8 | 155.0 | 152.7 | 149.7 |
| 77.5°  | 126.9 | 126.1 | 123.9 | 122.3 | 120.1 |
| 80°    | 95.7  | 95.7  | 94.2  | 93.5  | 91.9  |
| 82.5°  | 68.4  | 66.9  | 66.9  | 65.4  | 65.4  |
| 85°    | 41.8  | 42.6  | 42.6  | 41.8  | 40.3  |
| 87.5°  | 20.5  | 20.5  | 19.8  | 19.8  | 18.2  |
| 90°    | 0.8   | 6.9   | 12.3  | 16.1  | 18.4  |
| 92.5°  | 14.6  | 7.7   | 12.3  | 16.1  | 16.9  |
| 95°    | 43.7  | 41.4  | 12.3  | 16.1  | 16.1  |
| 97.5°  | 82.1  | 86.7  | 13.8  | 15.3  | 16.1  |
| 100°   | 128.1 | 130.4 | 133.5 | 19.2  | 16.1  |
| 102.5° | 174.9 | 178.0 | 179.5 | 181.0 | 116.6 |
| 105°   | 225.5 | 228.6 | 228.6 | 228.6 | 227.8 |
| 107.5° | 277.7 | 277.7 | 279.2 | 280.0 | 276.9 |
| 110°   | 328.3 | 328.3 | 329.8 | 327.5 | 328.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 375.8  | 378.1  | 378.9  | 375.8  | 374.3  |
| 115°   | 423.4  | 427.2  | 428.0  | 424.9  | 420.3  |
| 117.5° | 473.3  | 473.3  | 476.3  | 471.7  | 470.2  |
| 120°   | 519.3  | 518.5  | 520.8  | 519.3  | 515.4  |
| 122.5° | 559.9  | 563.8  | 564.5  | 563.0  | 558.4  |
| 125°   | 602.1  | 607.5  | 607.5  | 604.4  | 602.1  |
| 127.5° | 642.8  | 646.6  | 645.8  | 644.3  | 638.2  |
| 130°   | 679.6  | 683.4  | 684.2  | 681.9  | 678.1  |
| 132.5° | 716.4  | 721.0  | 718.7  | 718.7  | 714.9  |
| 135°   | 750.9  | 755.5  | 754.0  | 752.5  | 747.9  |
| 137.5° | 783.1  | 787.7  | 786.2  | 786.2  | 782.4  |
| 140°   | 814.6  | 816.1  | 815.4  | 816.9  | 812.3  |
| 142.5° | 843.0  | 843.7  | 845.3  | 845.3  | 840.7  |
| 145°   | 870.6  | 872.1  | 872.1  | 872.9  | 868.3  |
| 147.5° | 895.1  | 895.1  | 895.9  | 896.7  | 891.3  |
| 150°   | 918.1  | 916.6  | 918.1  | 919.7  | 913.5  |
| 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)