

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: P1035507

Luminaire Tested: S125DIW-B610D770UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035507  
REPORT IS A COMBINATION OF REPORTS P1004009 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B610D770UB30-4F0-XX-W2A-F  
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

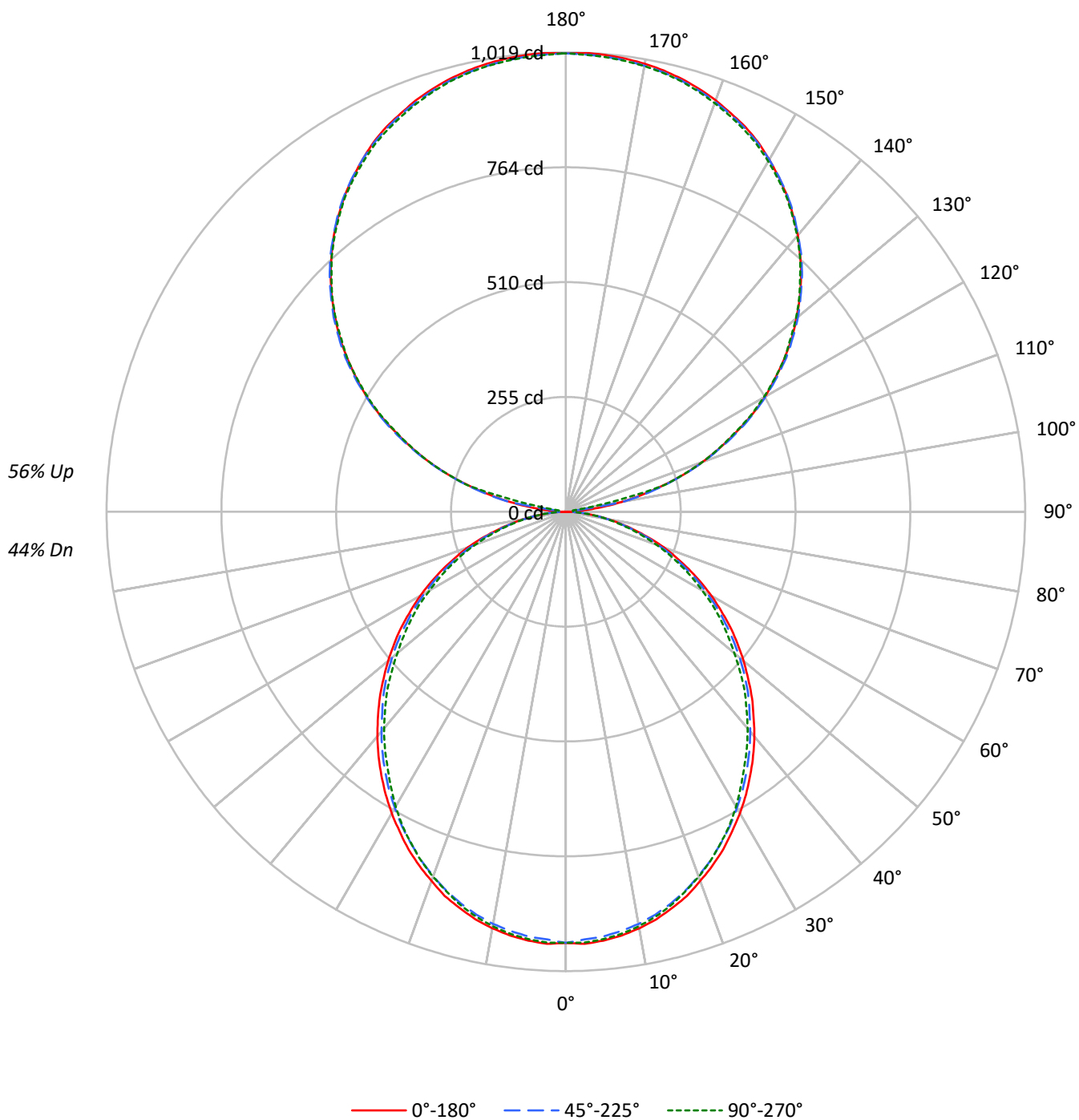
Lumens per Lamp: N/A  
Luminaire Lumens: 5614.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 47.2  
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 |    |  |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 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 |
| 1   | 96  | 92  | 88  | 85  | 88 | 85 | 81 | 78 |  | 70 | 68 | 66 |  | 57 | 55 | 54 |  | 45 | 44 | 43 |
| 2   | 88  | 80  | 74  | 69  | 80 | 74 | 69 | 64 |  | 61 | 58 | 54 |  | 50 | 47 | 45 |  | 40 | 38 | 36 |
| 3   | 80  | 71  | 63  | 58  | 73 | 65 | 59 | 54 |  | 54 | 49 | 46 |  | 44 | 41 | 38 |  | 35 | 33 | 31 |
| 4   | 73  | 62  | 55  | 49  | 67 | 58 | 51 | 45 |  | 48 | 43 | 39 |  | 39 | 36 | 33 |  | 31 | 29 | 26 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 |  | 43 | 38 | 33 |  | 35 | 31 | 28 |  | 28 | 25 | 23 |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 |  | 39 | 33 | 29 |  | 32 | 28 | 25 |  | 26 | 23 | 20 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 |  | 35 | 30 | 26 |  | 29 | 25 | 22 |  | 23 | 20 | 18 |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 |  | 32 | 27 | 23 |  | 26 | 22 | 19 |  | 21 | 18 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 |  | 29 | 24 | 20 |  | 24 | 20 | 17 |  | 20 | 17 | 15 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 |  | 27 | 22 | 18 |  | 22 | 19 | 16 |  | 18 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6127 | 6127 | 6127 |
| 5°  | 6127 | 5985 | 5997 |
| 10° | 6076 | 5848 | 5829 |
| 15° | 5997 | 5684 | 5632 |
| 20° | 5889 | 5493 | 5407 |
| 25° | 5773 | 5285 | 5165 |
| 30° | 5634 | 5069 | 4911 |
| 35° | 5484 | 4843 | 4626 |
| 40° | 5330 | 4603 | 4372 |
| 45° | 5163 | 4370 | 4103 |
| 50° | 4980 | 4105 | 3789 |
| 55° | 4798 | 3813 | 3500 |
| 60° | 4581 | 3504 | 3165 |
| 65° | 4322 | 3148 | 2817 |
| 70° | 4058 | 2738 | 2417 |
| 75° | 3614 | 2254 | 1953 |
| 80° | 3080 | 1684 | 1436 |
| 85° | 2378 | 997  | 792  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5163 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.2   | 1.6       |
| 10°-20°   | 254.9  | 4.5       |
| 20°-30°   | 376.3  | 6.7       |
| 30°-40°   | 439.0  | 7.8       |
| 40°-50°   | 440.9  | 7.9       |
| 50°-60°   | 387.1  | 6.9       |
| 60°-70°   | 288.3  | 5.1       |
| 70°-80°   | 164.6  | 2.9       |
| 80°-90°   | 49.1   | 0.9       |
| 90°-100°  | 34.5   | 0.6       |
| 100°-110° | 229.5  | 4.1       |
| 110°-120° | 413.3  | 7.4       |
| 120°-130° | 530.4  | 9.4       |
| 130°-140° | 570.5  | 10.2      |
| 140°-150° | 535.5  | 9.5       |
| 150°-160° | 433.1  | 7.7       |
| 160°-170° | 280.1  | 5.0       |
| 170°-180° | 96.6   | 1.7       |
| <hr/>     |        |           |
| 0°-30°    | 721.4  | 12.9      |
| 0°-40°    | 1160.5 | 20.7      |
| 0°-60°    | 1988.5 | 35.4      |
| 0°-90°    | 2490.5 | 44.4      |
| 90°-120°  | 677.3  | 12.1      |
| 90°-150°  | 2313.7 | 41.2      |
| 90°-180°  | 3124.0 | 55.6      |
| 0°-180°   | 5614.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 956  | 956   | 956  | 956   | 956  |      |
| 5°   | 955  | 953   | 946  | 952   | 952  | 91   |
| 15°  | 910  | 908   | 900  | 903   | 903  | 257  |
| 25°  | 826  | 822   | 812  | 814   | 812  | 380  |
| 35°  | 713  | 710   | 700  | 696   | 690  | 446  |
| 45°  | 584  | 581   | 572  | 563   | 561  | 450  |
| 55°  | 445  | 443   | 432  | 425   | 420  | 397  |
| 65°  | 300  | 299   | 290  | 284   | 281  | 298  |
| 75°  | 160  | 158   | 154  | 152   | 149  | 170  |
| 85°  | 42   | 42    | 42   | 42    | 40   | 46   |
| 90°  | 1    | 7     | 12   | 16    | 18   | 5    |
| 95°  | 43   | 41    | 12   | 16    | 16   | 53   |
| 105° | 222  | 225   | 225  | 225   | 224  | 235  |
| 115° | 416  | 420   | 421  | 418   | 413  | 412  |
| 125° | 592  | 597   | 597  | 594   | 592  | 529  |
| 135° | 738  | 742   | 741  | 739   | 735  | 569  |
| 145° | 856  | 857   | 857  | 858   | 853  | 535  |
| 155° | 942  | 938   | 939  | 942   | 935  | 434  |
| 165° | 994  | 990   | 990  | 995   | 989  | 281  |
| 175° | 1017 | 1012  | 1013 | 1019  | 1012 | 97   |
| 180° | 1017 | 1017  | 1017 | 1017  | 1017 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 |
| 2.5°   | 959.3 | 957.1 | 949.5 | 957.1 | 956.3 |
| 5°     | 954.8 | 953.3 | 945.7 | 952.5 | 951.8 |
| 7.5°   | 948.0 | 946.5 | 938.1 | 944.9 | 944.2 |
| 10°    | 938.1 | 936.6 | 928.3 | 934.4 | 933.6 |
| 12.5°  | 926.0 | 923.0 | 915.4 | 920.0 | 920.0 |
| 15°    | 910.1 | 907.9 | 899.6 | 903.3 | 903.3 |
| 17.5°  | 893.5 | 889.7 | 881.4 | 885.9 | 882.2 |
| 20°    | 871.6 | 870.0 | 860.2 | 865.5 | 861.7 |
| 22.5°  | 849.6 | 846.6 | 837.5 | 840.5 | 838.3 |
| 25°    | 826.2 | 822.4 | 812.5 | 814.1 | 811.8 |
| 27.5°  | 798.9 | 796.7 | 786.8 | 787.6 | 785.3 |
| 30°    | 772.5 | 770.2 | 758.8 | 757.3 | 755.0 |
| 32.5°  | 743.7 | 739.9 | 730.1 | 727.1 | 722.5 |
| 35°    | 713.4 | 710.4 | 699.8 | 696.0 | 690.0 |
| 37.5°  | 682.4 | 678.6 | 668.8 | 663.5 | 659.7 |
| 40°    | 650.6 | 646.9 | 636.3 | 629.5 | 627.2 |
| 42.5°  | 616.6 | 613.6 | 603.0 | 596.9 | 593.1 |
| 45°    | 584.1 | 581.0 | 572.0 | 562.9 | 560.6 |
| 47.5°  | 548.5 | 549.3 | 537.9 | 528.8 | 523.5 |
| 50°    | 514.5 | 512.2 | 503.1 | 493.3 | 488.0 |
| 52.5°  | 479.7 | 478.1 | 468.3 | 460.0 | 453.9 |
| 55°    | 444.9 | 442.6 | 432.0 | 425.2 | 419.9 |
| 57.5°  | 407.8 | 407.0 | 398.0 | 388.9 | 386.6 |
| 60°    | 373.0 | 370.0 | 361.6 | 354.1 | 348.8 |
| 62.5°  | 336.7 | 334.4 | 327.6 | 319.3 | 315.5 |
| 65°    | 300.4 | 298.8 | 290.5 | 283.7 | 280.7 |
| 67.5°  | 264.8 | 261.8 | 255.7 | 249.7 | 248.2 |
| 70°    | 231.5 | 227.7 | 220.9 | 216.4 | 213.4 |
| 72.5°  | 195.2 | 192.9 | 189.1 | 183.8 | 180.8 |
| 75°    | 159.6 | 158.1 | 154.3 | 152.1 | 149.0 |
| 77.5°  | 126.3 | 125.6 | 123.3 | 121.8 | 119.5 |
| 80°    | 95.3  | 95.3  | 93.8  | 93.1  | 91.5  |
| 82.5°  | 68.1  | 66.6  | 66.6  | 65.1  | 65.1  |
| 85°    | 41.6  | 42.4  | 42.4  | 41.6  | 40.1  |
| 87.5°  | 20.4  | 20.4  | 19.7  | 19.7  | 18.2  |
| 90°    | 0.8   | 6.8   | 12.1  | 15.8  | 18.1  |
| 92.5°  | 14.3  | 7.5   | 12.1  | 15.8  | 16.6  |
| 95°    | 43.0  | 40.7  | 12.1  | 15.8  | 15.8  |
| 97.5°  | 80.7  | 85.2  | 13.6  | 15.1  | 15.8  |
| 100°   | 125.9 | 128.1 | 131.2 | 18.8  | 15.8  |
| 102.5° | 171.9 | 174.9 | 176.4 | 177.9 | 114.6 |
| 105°   | 221.6 | 224.6 | 224.6 | 224.6 | 223.9 |
| 107.5° | 272.9 | 272.9 | 274.4 | 275.1 | 272.1 |
| 110°   | 322.6 | 322.6 | 324.1 | 321.9 | 322.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 369.3  | 371.6  | 372.4  | 369.3  | 367.8  |
| 115°   | 416.1  | 419.8  | 420.6  | 417.6  | 413.1  |
| 117.5° | 465.1  | 465.1  | 468.1  | 463.6  | 462.1  |
| 120°   | 510.3  | 509.5  | 511.8  | 510.3  | 506.5  |
| 122.5° | 550.2  | 554.0  | 554.8  | 553.3  | 548.7  |
| 125°   | 591.7  | 597.0  | 597.0  | 594.0  | 591.7  |
| 127.5° | 631.7  | 635.4  | 634.7  | 633.2  | 627.1  |
| 130°   | 667.8  | 671.6  | 672.4  | 670.1  | 666.3  |
| 132.5° | 704.0  | 708.5  | 706.3  | 706.3  | 702.5  |
| 135°   | 737.9  | 742.5  | 741.0  | 739.4  | 734.9  |
| 137.5° | 769.6  | 774.1  | 772.6  | 772.6  | 768.8  |
| 140°   | 800.5  | 802.0  | 801.3  | 802.8  | 798.2  |
| 142.5° | 828.4  | 829.1  | 830.7  | 830.7  | 826.1  |
| 145°   | 855.5  | 857.0  | 857.0  | 857.8  | 853.3  |
| 147.5° | 879.6  | 879.6  | 880.4  | 881.2  | 875.9  |
| 150°   | 902.3  | 900.8  | 902.3  | 903.8  | 897.7  |
| 152.5° | 924.1  | 920.3  | 921.9  | 923.4  | 918.1  |
| 155°   | 942.2  | 937.7  | 939.2  | 941.5  | 935.4  |
| 157.5° | 956.5  | 954.3  | 954.3  | 956.5  | 950.5  |
| 160°   | 971.6  | 967.1  | 967.8  | 970.9  | 964.8  |
| 162.5° | 983.7  | 979.1  | 979.9  | 984.4  | 977.6  |
| 165°   | 994.2  | 989.7  | 990.4  | 995.0  | 988.9  |
| 167.5° | 1002.5 | 998.0  | 998.7  | 1004.0 | 997.2  |
| 170°   | 1009.3 | 1004.0 | 1004.8 | 1010.8 | 1004.0 |
| 172.5° | 1013.8 | 1008.5 | 1010.0 | 1015.3 | 1008.5 |
| 175°   | 1016.8 | 1012.3 | 1013.1 | 1019.1 | 1012.3 |
| 177.5° | 1019.1 | 1014.6 | 1015.3 | 1020.6 | 1014.6 |
| 180°   | 1016.8 | 1016.8 | 1016.8 | 1016.8 | 1016.8 |

(END OF REPORT)