

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: P1035229

Luminaire Tested: S125DIW-B1270D770UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035229  
REPORT IS A COMBINATION OF REPORTS P1003373 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B1270D770UB50-4F0-XX-W2A-D  
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

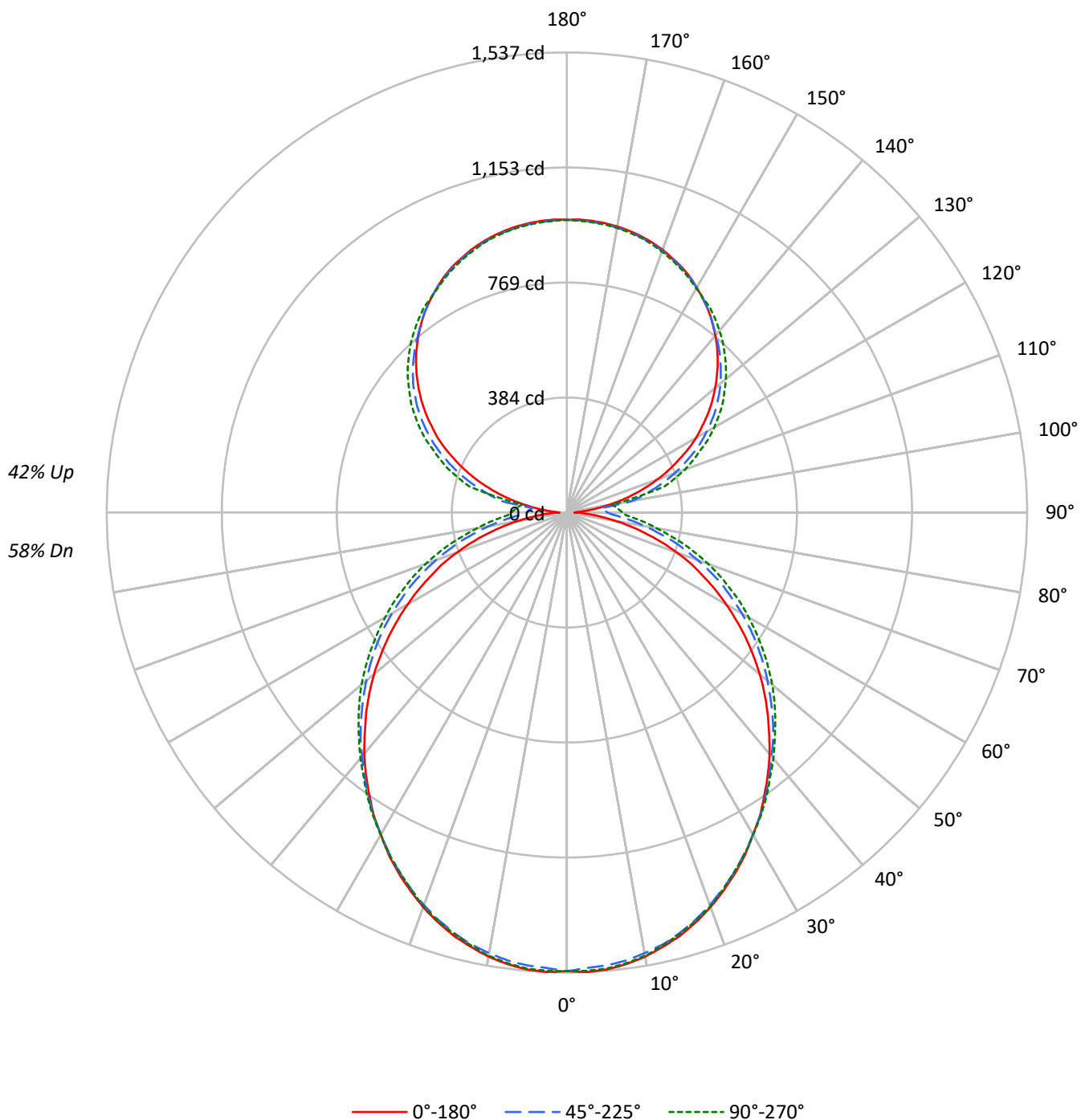
Lumens per Lamp: N/A  
Luminaire Lumens: 7752.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 84.5  
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 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 |
| 1   | 99  | 94  | 90  | 86  | 92  | 87  | 84  | 80  | 76 | 73 | 70 | 65 | 62 | 61 | 54 | 53 | 52 |
| 2   | 89  | 82  | 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 | 39 | 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 | 35 | 31 | 33 | 30 | 27 |
| 6   | 63  | 50  | 42  | 36  | 58  | 47  | 40  | 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 | 28 | 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  | 24  | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 |
| 10  | 47  | 35  | 27  | 22  | 44  | 33  | 26  | 21  | 29 | 23 | 19 | 25 | 20 | 17 | 22 | 18 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9818 | 9818 | 9818 |
| 5°  | 9834 | 9612 | 9636 |
| 10° | 9760 | 9416 | 9389 |
| 15° | 9642 | 9188 | 9086 |
| 20° | 9481 | 8913 | 8786 |
| 25° | 9291 | 8619 | 8421 |
| 30° | 9061 | 8300 | 8091 |
| 35° | 8846 | 8005 | 7785 |
| 40° | 8627 | 7695 | 7478 |
| 45° | 8380 | 7426 | 7201 |
| 50° | 8143 | 7133 | 6952 |
| 55° | 7858 | 6855 | 6662 |
| 60° | 7546 | 6537 | 6365 |
| 65° | 7220 | 6203 | 6031 |
| 70° | 6847 | 5755 | 5683 |
| 75° | 6258 | 5313 | 5258 |
| 80° | 5487 | 4774 | 4788 |
| 85° | 4723 | 4345 | 4541 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 8380 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.0  | 1.9       |
| 10°-20°   | 411.6  | 5.3       |
| 20°-30°   | 612.1  | 7.9       |
| 30°-40°   | 724.9  | 9.4       |
| 40°-50°   | 749.5  | 9.7       |
| 50°-60°   | 690.4  | 8.9       |
| 60°-70°   | 558.1  | 7.2       |
| 70°-80°   | 373.4  | 4.8       |
| 80°-90°   | 194.5  | 2.5       |
| 90°-100°  | 141.9  | 1.8       |
| 100°-110° | 300.8  | 3.9       |
| 110°-120° | 451.0  | 5.8       |
| 120°-130° | 540.5  | 7.0       |
| 130°-140° | 561.9  | 7.2       |
| 140°-150° | 517.5  | 6.7       |
| 150°-160° | 416.5  | 5.4       |
| 160°-170° | 269.4  | 3.5       |
| 170°-180° | 92.9   | 1.2       |
| 0°-30°    | 1168.8 | 15.1      |
| 0°-40°    | 1893.7 | 24.4      |
| 0°-60°    | 3333.6 | 43.0      |
| 0°-90°    | 4459.6 | 57.5      |
| 90°-120°  | 893.8  | 11.5      |
| 90°-150°  | 2513.6 | 32.4      |
| 90°-180°  | 3292.0 | 42.5      |
| 0°-180°   | 7752.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1532 | 1532  | 1532 | 1532  | 1532 |      |
| 5°   | 1532 | 1529  | 1519 | 1531  | 1529 | 145  |
| 15°  | 1463 | 1465  | 1454 | 1463  | 1457 | 412  |
| 25°  | 1330 | 1334  | 1325 | 1331  | 1324 | 612  |
| 35°  | 1151 | 1161  | 1157 | 1161  | 1161 | 720  |
| 45°  | 948  | 964   | 972  | 982   | 984  | 731  |
| 55°  | 729  | 753   | 777  | 793   | 799  | 651  |
| 65°  | 502  | 536   | 572  | 595   | 601  | 498  |
| 75°  | 276  | 316   | 364  | 394   | 401  | 293  |
| 85°  | 83   | 132   | 185  | 218   | 230  | 86   |
| 90°  | 25   | 79    | 135  | 173   | 186  | 19   |
| 95°  | 61   | 98    | 121  | 158   | 168  | 66   |
| 105° | 227  | 254   | 299  | 329   | 338  | 240  |
| 115° | 409  | 423   | 463  | 487   | 492  | 406  |
| 125° | 575  | 579   | 609  | 630   | 635  | 513  |
| 135° | 713  | 715   | 724  | 743   | 746  | 549  |
| 145° | 824  | 824   | 824  | 832   | 834  | 515  |
| 155° | 906  | 902   | 903  | 905   | 900  | 417  |
| 165° | 956  | 952   | 952  | 957   | 951  | 270  |
| 175° | 978  | 973   | 974  | 980   | 973  | 93   |
| 180° | 978  | 978   | 978  | 978   | 978  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1532.4 | 1532.4 | 1532.4 | 1532.4 | 1532.4 |
| 2.5°   | 1536.9 | 1533.9 | 1523.4 | 1533.9 | 1532.4 |
| 5°     | 1532.4 | 1529.4 | 1518.8 | 1530.9 | 1529.4 |
| 7.5°   | 1521.8 | 1520.3 | 1509.8 | 1520.3 | 1518.8 |
| 10°    | 1506.8 | 1506.8 | 1494.8 | 1505.3 | 1503.8 |
| 12.5°  | 1485.8 | 1487.3 | 1478.3 | 1485.8 | 1481.3 |
| 15°    | 1463.3 | 1464.8 | 1454.2 | 1463.3 | 1457.2 |
| 17.5°  | 1434.7 | 1437.7 | 1427.2 | 1434.7 | 1430.2 |
| 20°    | 1403.2 | 1406.2 | 1395.7 | 1400.2 | 1400.2 |
| 22.5°  | 1367.1 | 1373.1 | 1361.1 | 1367.1 | 1362.6 |
| 25°    | 1329.6 | 1334.1 | 1325.0 | 1331.1 | 1323.5 |
| 27.5°  | 1289.0 | 1295.0 | 1284.5 | 1289.0 | 1286.0 |
| 30°    | 1242.4 | 1251.4 | 1242.4 | 1245.4 | 1243.9 |
| 32.5°  | 1200.4 | 1207.9 | 1201.9 | 1204.9 | 1203.4 |
| 35°    | 1150.8 | 1161.3 | 1156.8 | 1161.3 | 1161.3 |
| 37.5°  | 1102.7 | 1111.7 | 1110.2 | 1116.2 | 1114.7 |
| 40°    | 1053.1 | 1065.1 | 1063.6 | 1069.7 | 1072.7 |
| 42.5°  | 999.0  | 1015.6 | 1020.1 | 1027.6 | 1027.6 |
| 45°    | 948.0  | 964.5  | 972.0  | 982.5  | 984.0  |
| 47.5°  | 895.4  | 910.4  | 922.4  | 937.4  | 940.5  |
| 50°    | 841.3  | 857.8  | 874.3  | 890.9  | 895.4  |
| 52.5°  | 784.2  | 805.2  | 826.3  | 844.3  | 847.3  |
| 55°    | 728.6  | 752.7  | 776.7  | 793.2  | 799.2  |
| 57.5°  | 671.5  | 700.1  | 727.1  | 745.2  | 749.7  |
| 60°    | 614.4  | 644.5  | 674.5  | 697.1  | 701.6  |
| 62.5°  | 558.9  | 588.9  | 622.0  | 647.5  | 653.5  |
| 65°    | 501.8  | 536.3  | 572.4  | 594.9  | 600.9  |
| 67.5°  | 449.2  | 482.2  | 518.3  | 545.3  | 552.9  |
| 70°    | 390.6  | 425.2  | 464.2  | 492.8  | 501.8  |
| 72.5°  | 333.5  | 369.6  | 413.1  | 444.7  | 450.7  |
| 75°    | 276.4  | 315.5  | 363.6  | 393.6  | 401.1  |
| 77.5°  | 220.8  | 265.9  | 311.0  | 344.0  | 350.0  |
| 80°    | 169.8  | 214.8  | 265.9  | 299.0  | 305.0  |
| 82.5°  | 123.2  | 171.3  | 223.8  | 255.4  | 267.4  |
| 85°    | 82.6   | 132.2  | 184.8  | 217.8  | 229.9  |
| 87.5°  | 52.6   | 100.7  | 151.7  | 186.3  | 196.8  |
| 90°    | 24.7   | 78.6   | 134.8  | 172.9  | 185.7  |
| 92.5°  | 34.8   | 71.8   | 128.8  | 165.4  | 176.6  |
| 95°    | 60.8   | 97.7   | 121.3  | 157.9  | 168.4  |
| 97.5°  | 95.6   | 136.0  | 116.7  | 149.7  | 160.9  |
| 100°   | 137.5  | 171.3  | 222.2  | 145.8  | 151.9  |
| 102.5° | 180.3  | 211.8  | 259.7  | 291.3  | 239.4  |
| 105°   | 226.6  | 253.6  | 298.6  | 328.7  | 338.5  |
| 107.5° | 274.4  | 295.5  | 340.4  | 371.3  | 377.4  |
| 110°   | 320.7  | 338.7  | 382.3  | 408.7  | 419.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 365.7 | 381.3 | 422.7 | 446.8 | 455.9 |
| 115°   | 409.1 | 423.2 | 463.1 | 487.2 | 491.8 |
| 117.5° | 454.7 | 462.2 | 502.7 | 523.9 | 532.9 |
| 120°   | 498.2 | 502.0 | 538.8 | 562.8 | 568.2 |
| 122.5° | 535.1 | 540.2 | 574.1 | 596.6 | 601.3 |
| 125°   | 575.0 | 578.6 | 608.7 | 629.8 | 635.1 |
| 127.5° | 611.9 | 614.0 | 638.8 | 660.0 | 663.2 |
| 130°   | 646.7 | 648.8 | 670.5 | 689.5 | 693.3 |
| 132.5° | 680.0 | 684.3 | 697.2 | 718.3 | 720.6 |
| 135°   | 712.6 | 715.4 | 724.5 | 742.6 | 745.8 |
| 137.5° | 743.0 | 745.9 | 750.4 | 768.4 | 770.8 |
| 140°   | 771.3 | 772.7 | 773.5 | 791.4 | 793.1 |
| 142.5° | 798.1 | 797.3 | 798.8 | 812.3 | 813.9 |
| 145°   | 824.2 | 824.1 | 824.1 | 832.3 | 834.0 |
| 147.5° | 845.9 | 845.9 | 846.6 | 850.3 | 848.2 |
| 150°   | 867.6 | 866.2 | 867.6 | 869.1 | 864.8 |
| 152.5° | 888.6 | 885.0 | 886.5 | 887.9 | 882.8 |
| 155°   | 906.0 | 901.7 | 903.1 | 905.3 | 899.5 |
| 157.5° | 919.8 | 917.6 | 917.6 | 919.8 | 914.0 |
| 160°   | 934.3 | 929.9 | 930.7 | 933.6 | 927.8 |
| 162.5° | 945.9 | 941.5 | 942.3 | 946.6 | 940.1 |
| 165°   | 956.0 | 951.7 | 952.4 | 956.8 | 951.0 |
| 167.5° | 964.0 | 959.7 | 960.4 | 965.5 | 958.9 |
| 170°   | 970.5 | 965.5 | 966.2 | 972.0 | 965.5 |
| 172.5° | 974.9 | 969.8 | 971.3 | 976.3 | 969.8 |
| 175°   | 977.8 | 973.4 | 974.2 | 980.0 | 973.4 |
| 177.5° | 980.0 | 975.6 | 976.3 | 981.4 | 975.6 |
| 180°   | 977.8 | 977.8 | 977.8 | 977.8 | 977.8 |

(END OF REPORT)