

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: P1004727

Luminaire Tested: S125DW-B1270DB50-4F0-XX-W2A-D

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1004727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DW-B1270DB50-4F0-XX-W2A-D  
Description: Define 5 Direct Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

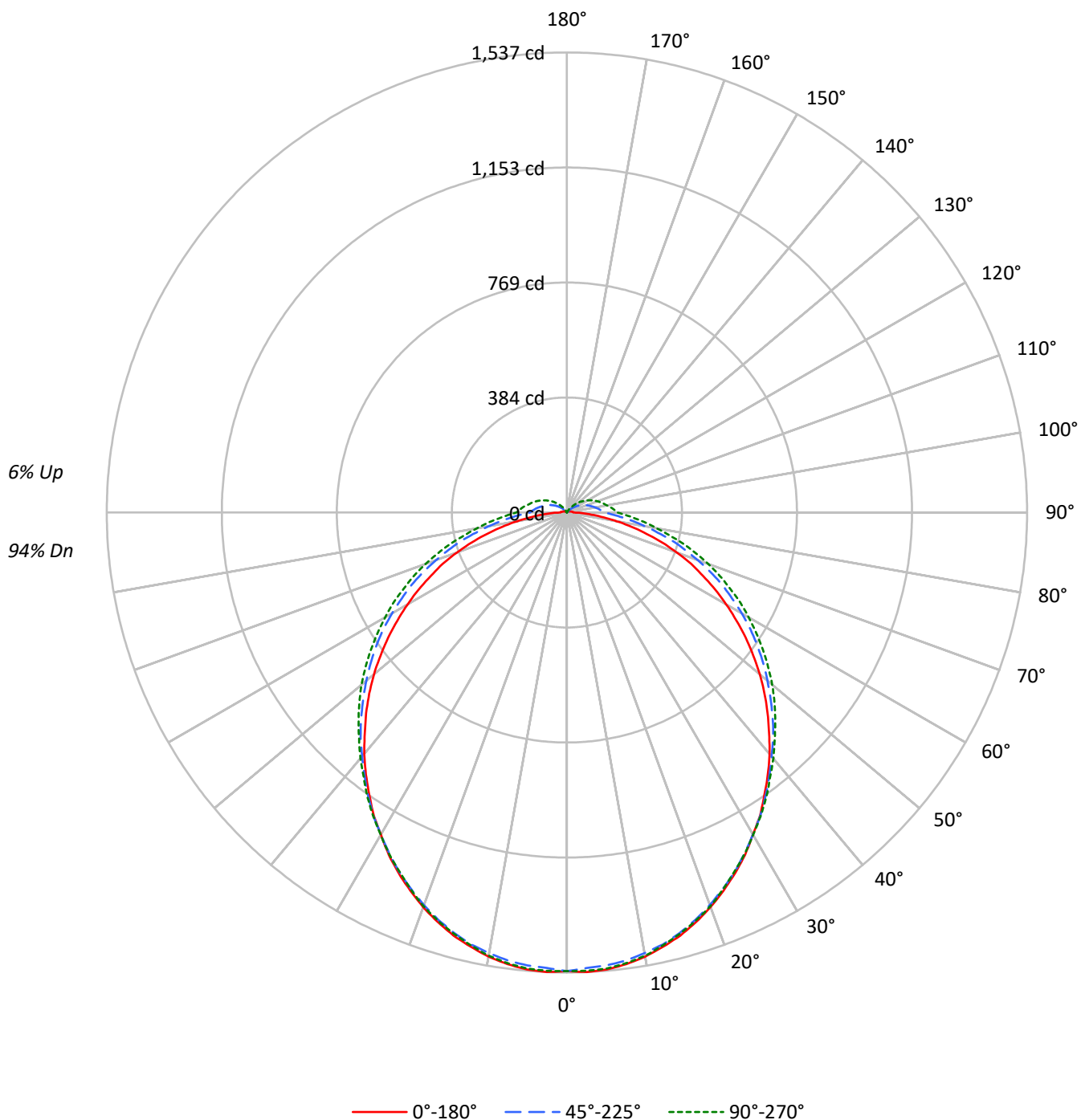
Lumens per Lamp: N/A  
Luminaire Lumens: 4747.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.3  
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   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 |
| 1   | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 93  | 89  | 86  | 88  | 85  | 82  | 83 | 81 | 79 |
| 2   | 96  | 88  | 80  | 74  | 93  | 85  | 78  | 73  | 81  | 75  | 70  | 76  | 72  | 68  | 72 | 69 | 65 |
| 3   | 88  | 77  | 68  | 61  | 84  | 75  | 67  | 60  | 71  | 64  | 59  | 67  | 61  | 57  | 64 | 59 | 55 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 55  | 50  | 60  | 53  | 48  | 57 | 51 | 47 |
| 5   | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 53  | 47  | 42  | 51 | 45 | 41 |
| 6   | 68  | 54  | 45  | 39  | 66  | 53  | 45  | 38  | 51  | 43  | 38  | 48  | 42  | 37  | 46 | 40 | 36 |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 37  | 33  | 42 | 36 | 32 |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 40  | 34  | 29  | 39 | 33 | 29 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 |
| 10  | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 28 | 23 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 9818 | 9818  | 9818  |
| 5°  | 9856 | 9768  | 9836  |
| 10° | 9803 | 9725  | 9784  |
| 15° | 9706 | 9646  | 9666  |
| 20° | 9567 | 9516  | 9547  |
| 25° | 9400 | 9367  | 9356  |
| 30° | 9192 | 9192  | 9203  |
| 35° | 9001 | 9048  | 9083  |
| 40° | 8808 | 8896  | 8972  |
| 45° | 8590 | 8807  | 8916  |
| 50° | 8386 | 8715  | 8925  |
| 55° | 8139 | 8676  | 8927  |
| 60° | 7873 | 8643  | 8990  |
| 65° | 7608 | 8678  | 9110  |
| 70° | 7317 | 8696  | 9400  |
| 75° | 6842 | 9001  | 9929  |
| 80° | 6265 | 9811  | 11254 |
| 85° | 6072 | 13585 | 16901 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 28907 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.0  | 3.1       |
| 10°-20°   | 411.6  | 8.7       |
| 20°-30°   | 612.1  | 12.9      |
| 30°-40°   | 724.9  | 15.3      |
| 40°-50°   | 749.5  | 15.8      |
| 50°-60°   | 690.4  | 14.5      |
| 60°-70°   | 558.1  | 11.8      |
| 70°-80°   | 373.4  | 7.9       |
| 80°-90°   | 193.0  | 4.1       |
| 90°-100°  | 108.7  | 2.3       |
| 100°-110° | 80.2   | 1.7       |
| 110°-120° | 53.6   | 1.1       |
| 120°-130° | 30.4   | 0.6       |
| 130°-140° | 13.3   | 0.3       |
| 140°-150° | 2.6    | 0.1       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1168.8 | 24.6      |
| 0°-40°    | 1893.7 | 39.9      |
| 0°-60°    | 3333.6 | 70.2      |
| 0°-90°    | 4458.2 | 93.9      |
| 90°-120°  | 242.5  | 5.1       |
| 90°-150°  | 288.8  | 6.1       |
| 90°-180°  | 289.0  | 6.1       |
| 0°-180°   | 4747.0 | 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°  | 24   | 72    | 123  | 158   | 168  | 17   |
| 95°  | 20   | 59    | 110  | 143   | 153  | 15   |
| 105° | 14   | 38    | 83   | 113   | 123  | 14   |
| 115° | 9    | 20    | 59   | 86    | 95   | 9    |
| 125° | 6    | 4     | 35   | 59    | 66   | 5    |
| 135° | 3    | 2     | 12   | 32    | 39   | 2    |
| 145° | 2    | 0     | 0    | 8     | 14   | 1    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |

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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°    | 24.0   | 72.1   | 123.2  | 157.7  | 168.3  |
| 92.5°  | 21.0   | 64.6   | 117.2  | 150.2  | 160.7  |
| 95°    | 19.5   | 58.6   | 109.7  | 142.7  | 153.2  |
| 97.5°  | 18.0   | 54.1   | 103.7  | 135.2  | 145.7  |
| 100°   | 16.5   | 48.1   | 96.1   | 127.7  | 136.7  |
| 102.5° | 15.0   | 43.6   | 90.1   | 120.2  | 129.2  |
| 105°   | 13.5   | 37.6   | 82.6   | 112.7  | 123.2  |
| 107.5° | 12.0   | 33.1   | 76.6   | 106.7  | 115.7  |
| 110°   | 10.5   | 28.5   | 70.6   | 99.2   | 109.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°   |
|--------|------|-------|------|-------|-------|
| 112.5° | 10.5 | 24.0  | 64.6 | 91.6  | 102.2 |
| 115°   | 9.0  | 19.5  | 58.6 | 85.6  | 94.6  |
| 117.5° | 7.5  | 15.0  | 52.6 | 78.1  | 88.6  |
| 120°   | 7.5  | 12.0  | 46.6 | 72.1  | 81.1  |
| 122.5° | 6.0  | 7.5   | 40.6 | 64.6  | 73.6  |
| 125°   | 6.0  | 4.5   | 34.6 | 58.6  | 66.1  |
| 127.5° | 4.5  | 3.0   | 28.5 | 51.1  | 60.1  |
| 130°   | 4.5  | 3.0   | 24.0 | 45.1  | 52.6  |
| 132.5° | 3.0  | 3.0   | 18.0 | 39.1  | 45.1  |
| 135°   | 3.0  | 1.5   | 12.0 | 31.5  | 39.1  |
| 137.5° | 3.0  | 1.5   | 7.5  | 25.5  | 31.5  |
| 140°   | 1.5  | 1.5   | 3.0  | 19.5  | 25.5  |
| 142.5° | 1.5  | 0.0   | 0.0  | 13.5  | 19.5  |
| 145°   | 1.5  | 0.0   | 0.0  | 7.5   | 13.5  |
| 147.5° | 0.0  | 0.0   | 0.0  | 3.0   | 6.0   |
| 150°   | 0.0  | 0.0   | 0.0  | 0.0   | 1.5   |
| 152.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 155°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 157.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 160°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 162.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 165°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 167.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 170°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 172.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 175°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 177.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |
| 180°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   |

(END OF REPORT)