

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: P1004701

Luminaire Tested: S125DW-B1270DB27-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1004701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DW-B1270DB27-4F0-XX-W2A-F  
Description: Define 5 Direct Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

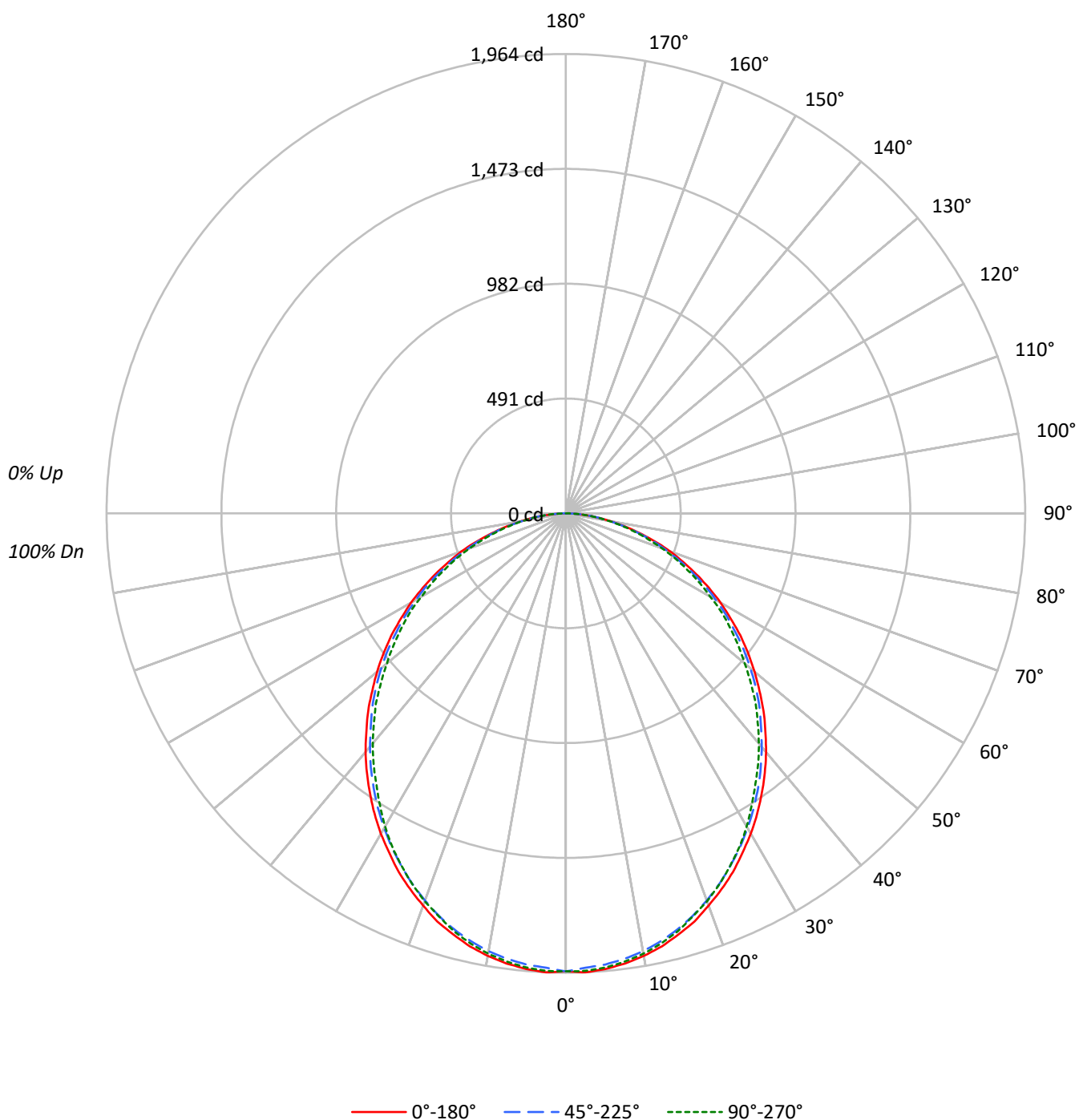
Lumens per Lamp: N/A  
Luminaire Lumens: 5096.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  |  | 82  | 78  | 74  |  | 79  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 67  | 63  |  | 70  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  |  | 58  | 52  | 47  |  | 57  |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  |  | 44  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12544 | 12544 | 12544 |
| 5°  | 12572 | 12453 | 12533 |
| 10° | 12497 | 12365 | 12436 |
| 15° | 12360 | 12217 | 12268 |
| 20° | 12167 | 12008 | 12030 |
| 25° | 11958 | 11761 | 11750 |
| 30° | 11700 | 11494 | 11437 |
| 35° | 11425 | 11207 | 11050 |
| 40° | 11142 | 10896 | 10740 |
| 45° | 10835 | 10610 | 10400 |
| 50° | 10499 | 10268 | 9959  |
| 55° | 10174 | 9880  | 9603  |
| 60° | 9786  | 9488  | 9151  |
| 65° | 9322  | 9017  | 8713  |
| 70° | 8879  | 8473  | 8183  |
| 75° | 8090  | 7823  | 7555  |
| 80° | 7202  | 7088  | 6914  |
| 85° | 6263  | 6374  | 6035  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10835 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.8  | 3.6       |
| 10°-20°   | 521.9  | 10.2      |
| 20°-30°   | 770.4  | 15.1      |
| 30°-40°   | 898.9  | 17.6      |
| 40°-50°   | 902.8  | 17.7      |
| 50°-60°   | 792.5  | 15.6      |
| 60°-70°   | 590.3  | 11.6      |
| 70°-80°   | 337.1  | 6.6       |
| 80°-90°   | 97.3   | 1.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 1477.1 | 29.0      |
| 0°-40°    | 2376.0 | 46.6      |
| 0°-60°    | 4071.3 | 79.9      |
| 0°-90°    | 5096.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5096.0 | 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   | 99   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**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°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)