

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: P1035148

Luminaire Tested: S125DIW-B1270D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035148  
REPORT IS A COMBINATION OF REPORTS P1003188 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B1270D1560UB27-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

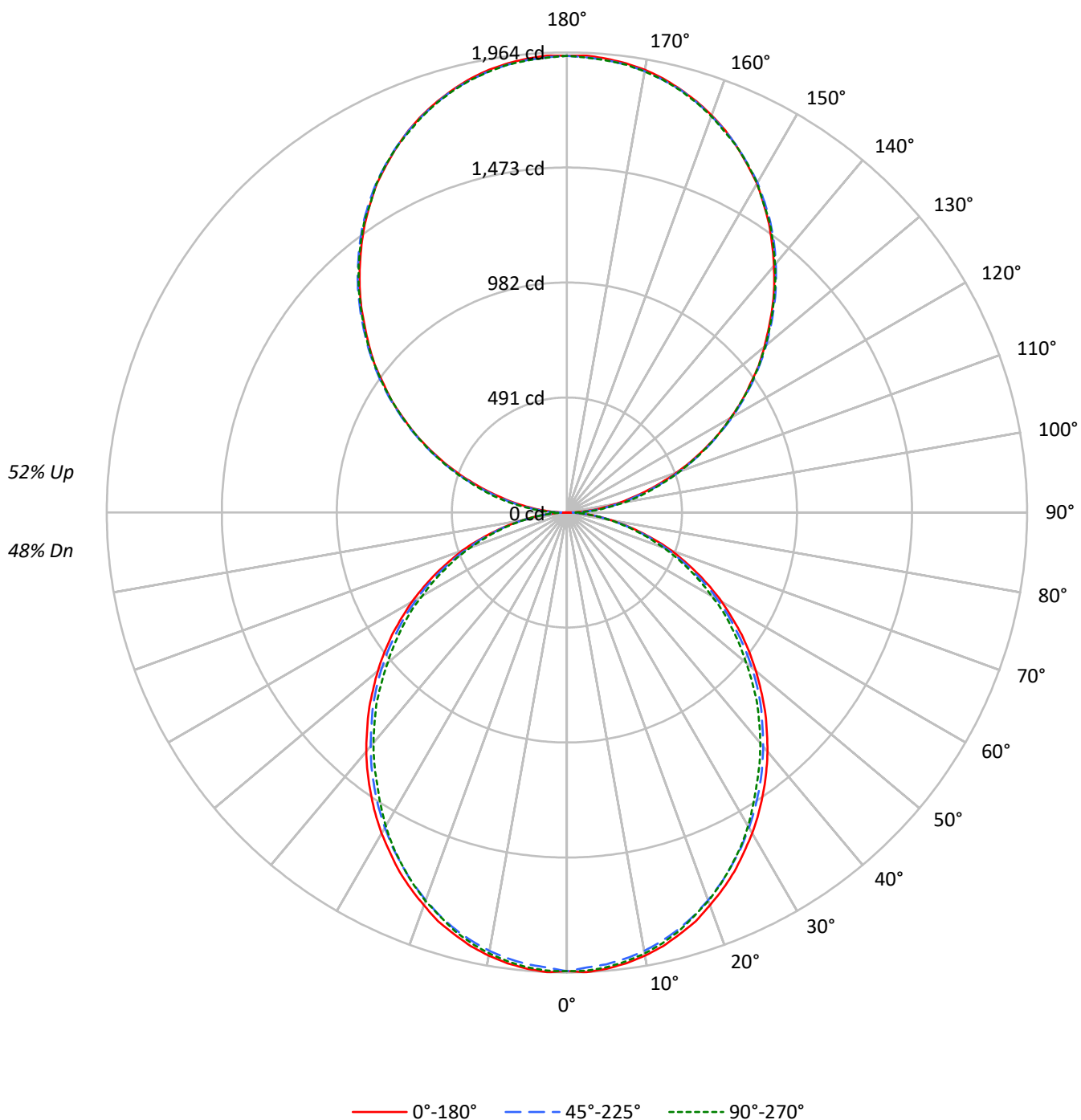
Lumens per Lamp: N/A  
Luminaire Lumens: 10540.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 113.5  
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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 97  | 93  | 89  | 86  | 89 | 86 | 82 | 79 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 39 | 44 | 39 | 34 | 37 | 33 | 30 | 30 | 27 | 25 |
| 6   | 62  | 50  | 42  | 36  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 |
| 7   | 58  | 45  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 26 | 30 | 26 | 23 | 25 | 22 | 19 |
| 8   | 54  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 16 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 17 | 20 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12544 | 12544 | 12544 |
| 5°  | 12545 | 12253 | 12277 |
| 10° | 12442 | 11972 | 11935 |
| 15° | 12278 | 11637 | 11532 |
| 20° | 12057 | 11247 | 11070 |
| 25° | 11820 | 10822 | 10576 |
| 30° | 11534 | 10379 | 10055 |
| 35° | 11228 | 9915  | 9471  |
| 40° | 10913 | 9424  | 8952  |
| 45° | 10571 | 8946  | 8400  |
| 50° | 10195 | 8404  | 7757  |
| 55° | 9823  | 7806  | 7166  |
| 60° | 9380  | 7176  | 6479  |
| 65° | 8848  | 6446  | 5768  |
| 70° | 8309  | 5607  | 4947  |
| 75° | 7400  | 4617  | 4000  |
| 80° | 6308  | 3449  | 2942  |
| 85° | 4871  | 2039  | 1622  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 184.8   | 1.8       |
| 10°-20°   | 521.9   | 5.0       |
| 20°-30°   | 770.4   | 7.3       |
| 30°-40°   | 898.9   | 8.5       |
| 40°-50°   | 902.8   | 8.6       |
| 50°-60°   | 792.5   | 7.5       |
| 60°-70°   | 590.3   | 5.6       |
| 70°-80°   | 337.1   | 3.2       |
| 80°-90°   | 100.4   | 1.0       |
| 90°-100°  | 129.6   | 1.2       |
| 100°-110° | 385.1   | 3.7       |
| 110°-120° | 653.2   | 6.2       |
| 120°-130° | 859.9   | 8.2       |
| 130°-140° | 963.5   | 9.1       |
| 140°-150° | 944.4   | 9.0       |
| 150°-160° | 793.3   | 7.5       |
| 160°-170° | 527.3   | 5.0       |
| 170°-180° | 184.5   | 1.8       |
| 0°-30°    | 1477.1  | 14.0      |
| 0°-40°    | 2376.0  | 22.5      |
| 0°-60°    | 4071.3  | 38.6      |
| 0°-90°    | 5099.0  | 48.4      |
| 90°-120°  | 1167.9  | 11.1      |
| 90°-150°  | 3935.8  | 37.3      |
| 90°-180°  | 5441.0  | 51.6      |
| 0°-180°   | 10540.0 | 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   | 93   |
| 90°  | 2    | 14    | 24   | 32    | 36   | 12   |
| 95°  | 99   | 102   | 117  | 127   | 130  | 103  |
| 105° | 346  | 354   | 363  | 372   | 376  | 369  |
| 115° | 654  | 660   | 663  | 662   | 660  | 647  |
| 125° | 954  | 963   | 965  | 962   | 960  | 855  |
| 135° | 1241 | 1250  | 1252 | 1252  | 1246 | 957  |
| 145° | 1504 | 1510  | 1514 | 1514  | 1510 | 940  |
| 155° | 1720 | 1720  | 1722 | 1728  | 1720 | 792  |
| 165° | 1871 | 1868  | 1869 | 1875  | 1866 | 528  |
| 175° | 1945 | 1939  | 1939 | 1948  | 1937 | 185  |
| 180° | 1950 | 1950  | 1950 | 1950  | 1950 |      |

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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°    | 1.5    | 13.7   | 24.3   | 31.9   | 36.4   |
| 92.5°  | 45.5   | 53.1   | 66.8   | 77.4   | 80.4   |
| 95°    | 98.6   | 101.6  | 116.8  | 127.4  | 130.5  |
| 97.5°  | 151.7  | 153.2  | 174.5  | 183.6  | 185.1  |
| 100°   | 212.4  | 212.4  | 232.1  | 245.8  | 248.8  |
| 102.5° | 277.6  | 285.2  | 292.8  | 308.0  | 312.5  |
| 105°   | 345.9  | 353.5  | 362.6  | 371.7  | 376.3  |
| 107.5° | 420.2  | 427.8  | 435.4  | 440.0  | 440.0  |
| 110°   | 497.6  | 505.2  | 509.8  | 514.3  | 512.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 576.5  | 579.5  | 585.6  | 587.1  | 584.1  |
| 115°   | 653.9  | 660.0  | 663.0  | 661.5  | 660.0  |
| 117.5° | 732.8  | 734.3  | 737.3  | 738.8  | 732.8  |
| 120°   | 805.6  | 813.2  | 814.7  | 814.7  | 808.6  |
| 122.5° | 884.5  | 886.0  | 890.6  | 889.0  | 884.5  |
| 125°   | 954.3  | 963.4  | 964.9  | 961.9  | 960.3  |
| 127.5° | 1031.7 | 1036.2 | 1037.7 | 1036.2 | 1033.2 |
| 130°   | 1099.9 | 1107.5 | 1110.5 | 1109.0 | 1106.0 |
| 132.5° | 1168.2 | 1181.9 | 1180.3 | 1178.8 | 1174.3 |
| 135°   | 1241.0 | 1250.1 | 1251.6 | 1251.6 | 1245.6 |
| 137.5° | 1309.3 | 1318.4 | 1321.4 | 1322.9 | 1315.4 |
| 140°   | 1374.5 | 1382.1 | 1386.7 | 1389.7 | 1382.1 |
| 142.5° | 1439.8 | 1445.8 | 1451.9 | 1453.4 | 1445.8 |
| 145°   | 1503.5 | 1509.6 | 1514.1 | 1514.1 | 1509.6 |
| 147.5° | 1562.7 | 1567.2 | 1570.2 | 1574.8 | 1562.7 |
| 150°   | 1621.8 | 1620.3 | 1626.4 | 1626.4 | 1623.3 |
| 152.5° | 1670.4 | 1673.4 | 1674.9 | 1679.5 | 1673.4 |
| 155°   | 1720.4 | 1720.4 | 1722.0 | 1728.0 | 1720.4 |
| 157.5° | 1766.0 | 1762.9 | 1764.4 | 1770.5 | 1759.9 |
| 160°   | 1805.4 | 1800.8 | 1802.4 | 1808.4 | 1800.8 |
| 162.5° | 1840.3 | 1837.3 | 1837.3 | 1844.8 | 1835.7 |
| 165°   | 1870.6 | 1867.6 | 1869.1 | 1875.2 | 1866.1 |
| 167.5° | 1897.9 | 1891.9 | 1891.9 | 1901.0 | 1891.9 |
| 170°   | 1919.2 | 1913.1 | 1913.1 | 1922.2 | 1911.6 |
| 172.5° | 1934.4 | 1928.3 | 1928.3 | 1937.4 | 1928.3 |
| 175°   | 1945.0 | 1938.9 | 1938.9 | 1948.0 | 1937.4 |
| 177.5° | 1952.6 | 1946.5 | 1945.0 | 1954.1 | 1943.5 |
| 180°   | 1949.5 | 1949.5 | 1949.5 | 1949.5 | 1949.5 |

(END OF REPORT)