

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: P1035208

Luminaire Tested: S125DIW-B1270D770UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035208  
REPORT IS A COMBINATION OF REPORTS P1003320 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B1270D770UB27-4F0-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**

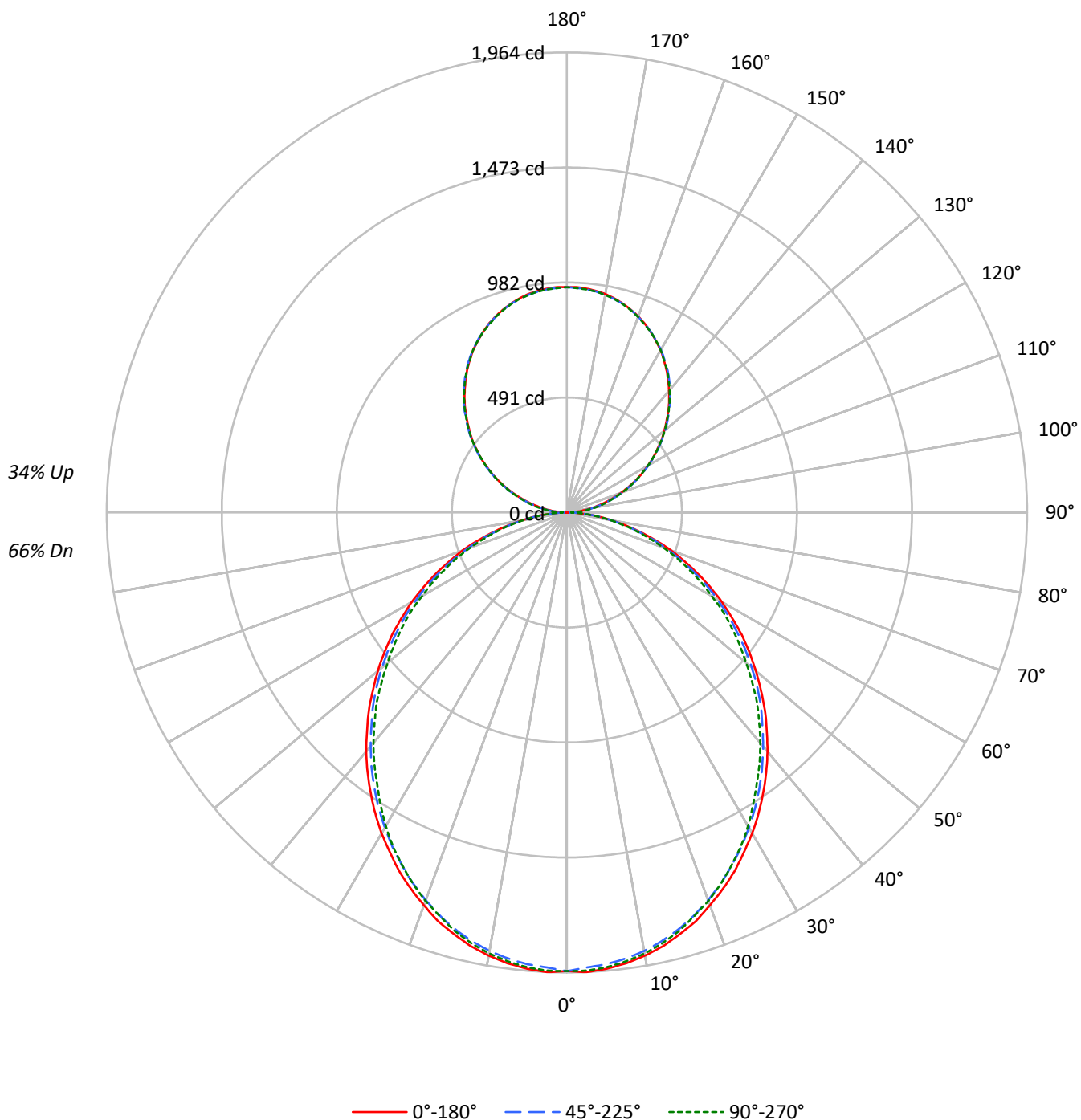
Lumens per Lamp: N/A  
Luminaire Lumens: 7782.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 70 | 70 | 70 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 84  | 81 | 78 | 76 | 71 | 69 | 67 | 62 | 61 | 59 |
| 2   | 92  | 84  | 78  | 73  | 86  | 80  | 74  | 69  | 71 | 66 | 62 | 62 | 59 | 56 | 55 | 52 | 50 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 63  | 58  | 62 | 57 | 53 | 55 | 51 | 47 | 48 | 45 | 42 |
| 4   | 77  | 66  | 58  | 51  | 72  | 62  | 55  | 49  | 55 | 49 | 45 | 49 | 44 | 41 | 43 | 40 | 37 |
| 5   | 71  | 59  | 50  | 44  | 66  | 56  | 48  | 42  | 50 | 43 | 39 | 44 | 39 | 35 | 39 | 35 | 32 |
| 6   | 65  | 53  | 44  | 38  | 61  | 50  | 42  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 35 | 31 | 28 |
| 7   | 60  | 48  | 39  | 34  | 57  | 45  | 38  | 32  | 41 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 |
| 8   | 56  | 43  | 35  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 25 | 30 | 26 | 22 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 27 | 23 | 20 |
| 10  | 49  | 36  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 |

**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  | 2.4       |
| 10°-20°   | 521.9  | 6.7       |
| 20°-30°   | 770.4  | 9.9       |
| 30°-40°   | 898.9  | 11.6      |
| 40°-50°   | 902.8  | 11.6      |
| 50°-60°   | 792.5  | 10.2      |
| 60°-70°   | 590.3  | 7.6       |
| 70°-80°   | 337.1  | 4.3       |
| 80°-90°   | 98.8   | 1.3       |
| 90°-100°  | 64.0   | 0.8       |
| 100°-110° | 190.0  | 2.4       |
| 110°-120° | 322.3  | 4.1       |
| 120°-130° | 424.2  | 5.5       |
| 130°-140° | 475.4  | 6.1       |
| 140°-150° | 466.0  | 6.0       |
| 150°-160° | 391.4  | 5.0       |
| 160°-170° | 260.2  | 3.3       |
| 170°-180° | 91.1   | 1.2       |
| 0°-30°    | 1477.1 | 19.0      |
| 0°-40°    | 2376.0 | 30.5      |
| 0°-60°    | 4071.3 | 52.3      |
| 0°-90°    | 5097.5 | 65.5      |
| 90°-120°  | 576.3  | 7.4       |
| 90°-150°  | 1941.9 | 25.0      |
| 90°-180°  | 2685.0 | 34.5      |
| 0°-180°   | 7782.0 | 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°  | 1    | 7     | 12   | 16    | 18   | 9    |
| 95°  | 49   | 50    | 58   | 63    | 64   | 51   |
| 105° | 171  | 174   | 179  | 183   | 186  | 182  |
| 115° | 323  | 326   | 327  | 326   | 326  | 319  |
| 125° | 471  | 475   | 476  | 475   | 474  | 422  |
| 135° | 612  | 617   | 618  | 618   | 614  | 472  |
| 145° | 742  | 745   | 747  | 747   | 745  | 464  |
| 155° | 849  | 849   | 850  | 853   | 849  | 391  |
| 165° | 923  | 921   | 922  | 925   | 921  | 260  |
| 175° | 960  | 957   | 957  | 961   | 956  | 91   |
| 180° | 962  | 962   | 962  | 962   | 962  |      |

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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°    | 0.7    | 6.7    | 12.0   | 15.7   | 18.0   |
| 92.5°  | 22.5   | 26.2   | 32.9   | 38.2   | 39.7   |
| 95°    | 48.7   | 50.2   | 57.6   | 62.9   | 64.4   |
| 97.5°  | 74.9   | 75.6   | 86.1   | 90.6   | 91.3   |
| 100°   | 104.8  | 104.8  | 114.5  | 121.3  | 122.8  |
| 102.5° | 137.0  | 140.7  | 144.5  | 152.0  | 154.2  |
| 105°   | 170.7  | 174.4  | 178.9  | 183.4  | 185.6  |
| 107.5° | 207.3  | 211.1  | 214.8  | 217.1  | 217.1  |
| 110°   | 245.5  | 249.3  | 251.5  | 253.8  | 253.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 284.4 | 285.9 | 288.9 | 289.7 | 288.2 |
| 115°   | 322.6 | 325.6 | 327.1 | 326.4 | 325.6 |
| 117.5° | 361.5 | 362.3 | 363.8 | 364.5 | 361.5 |
| 120°   | 397.5 | 401.2 | 402.0 | 402.0 | 399.0 |
| 122.5° | 436.4 | 437.1 | 439.4 | 438.6 | 436.4 |
| 125°   | 470.8 | 475.3 | 476.1 | 474.6 | 473.8 |
| 127.5° | 509.0 | 511.3 | 512.0 | 511.3 | 509.8 |
| 130°   | 542.7 | 546.4 | 547.9 | 547.2 | 545.7 |
| 132.5° | 576.4 | 583.1 | 582.4 | 581.6 | 579.4 |
| 135°   | 612.3 | 616.8 | 617.5 | 617.5 | 614.5 |
| 137.5° | 646.0 | 650.5 | 652.0 | 652.7 | 649.0 |
| 140°   | 678.2 | 681.9 | 684.2 | 685.7 | 681.9 |
| 142.5° | 710.4 | 713.4 | 716.4 | 717.1 | 713.4 |
| 145°   | 741.8 | 744.8 | 747.0 | 747.0 | 744.8 |
| 147.5° | 771.0 | 773.2 | 774.7 | 777.0 | 771.0 |
| 150°   | 800.2 | 799.4 | 802.4 | 802.4 | 800.9 |
| 152.5° | 824.1 | 825.6 | 826.4 | 828.6 | 825.6 |
| 155°   | 848.8 | 848.8 | 849.6 | 852.6 | 848.8 |
| 157.5° | 871.3 | 869.8 | 870.5 | 873.5 | 868.3 |
| 160°   | 890.8 | 888.5 | 889.3 | 892.3 | 888.5 |
| 162.5° | 908.0 | 906.5 | 906.5 | 910.2 | 905.7 |
| 165°   | 922.9 | 921.4 | 922.2 | 925.2 | 920.7 |
| 167.5° | 936.4 | 933.4 | 933.4 | 937.9 | 933.4 |
| 170°   | 946.9 | 943.9 | 943.9 | 948.4 | 943.2 |
| 172.5° | 954.4 | 951.4 | 951.4 | 955.9 | 951.4 |
| 175°   | 959.6 | 956.6 | 956.6 | 961.1 | 955.9 |
| 177.5° | 963.4 | 960.4 | 959.6 | 964.1 | 958.9 |
| 180°   | 961.9 | 961.9 | 961.9 | 961.9 | 961.9 |

(END OF REPORT)