

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: P1035232

Luminaire Tested: S125DIW-B1270D770UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035232  
REPORT IS A COMBINATION OF REPORTS P1003377 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-F1  
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

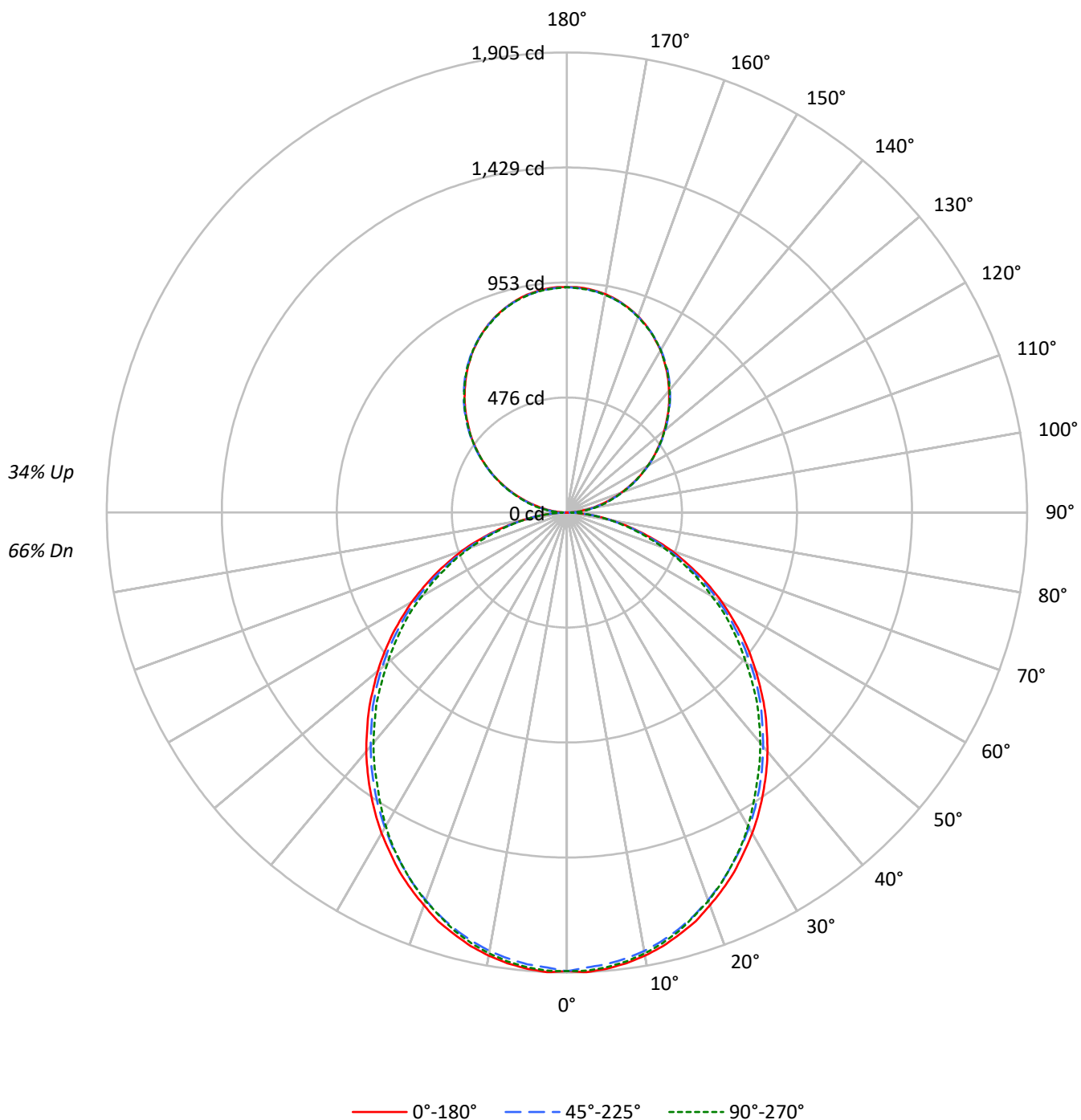
Lumens per Lamp: N/A  
Luminaire Lumens: 7547.9 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12168 | 12168 | 12168 |
| 5°  | 12168 | 11886 | 11908 |
| 10° | 12068 | 11613 | 11577 |
| 15° | 11910 | 11287 | 11186 |
| 20° | 11695 | 10909 | 10738 |
| 25° | 11465 | 10497 | 10258 |
| 30° | 11187 | 10068 | 9753  |
| 35° | 10891 | 9618  | 9186  |
| 40° | 10585 | 9142  | 8683  |
| 45° | 10254 | 8678  | 8148  |
| 50° | 9889  | 8152  | 7525  |
| 55° | 9529  | 7571  | 6951  |
| 60° | 9098  | 6960  | 6284  |
| 65° | 8583  | 6253  | 5594  |
| 70° | 8060  | 5438  | 4798  |
| 75° | 7178  | 4478  | 3880  |
| 80° | 6117  | 3345  | 2854  |
| 85° | 4723  | 1977  | 1572  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.2  | 2.4       |
| 10°-20°   | 506.2  | 6.7       |
| 20°-30°   | 747.3  | 9.9       |
| 30°-40°   | 871.9  | 11.6      |
| 40°-50°   | 875.7  | 11.6      |
| 50°-60°   | 768.7  | 10.2      |
| 60°-70°   | 572.6  | 7.6       |
| 70°-80°   | 327.0  | 4.3       |
| 80°-90°   | 95.8   | 1.3       |
| 90°-100°  | 62.0   | 0.8       |
| 100°-110° | 184.3  | 2.4       |
| 110°-120° | 312.5  | 4.1       |
| 120°-130° | 411.4  | 5.5       |
| 130°-140° | 461.1  | 6.1       |
| 140°-150° | 451.9  | 6.0       |
| 150°-160° | 379.6  | 5.0       |
| 160°-170° | 252.3  | 3.3       |
| 170°-180° | 88.3   | 1.2       |
| 0°-30°    | 1432.7 | 19.0      |
| 0°-40°    | 2304.6 | 30.5      |
| 0°-60°    | 3949.0 | 52.3      |
| 0°-90°    | 4944.4 | 65.5      |
| 90°-120°  | 558.8  | 7.4       |
| 90°-150°  | 1883.3 | 25.0      |
| 90°-180°  | 2603.0 | 34.5      |
| 0°-180°   | 7547.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1899 | 1899  | 1899 | 1899  | 1899 |      |
| 5°   | 1896 | 1893  | 1878 | 1892  | 1890 | 180  |
| 15°  | 1808 | 1803  | 1786 | 1794  | 1794 | 510  |
| 25°  | 1641 | 1633  | 1614 | 1617  | 1612 | 755  |
| 35°  | 1417 | 1411  | 1390 | 1382  | 1370 | 886  |
| 45°  | 1160 | 1154  | 1136 | 1118  | 1113 | 894  |
| 55°  | 884  | 879   | 858  | 844   | 834  | 789  |
| 65°  | 596  | 594   | 577  | 563   | 557  | 592  |
| 75°  | 317  | 314   | 306  | 302   | 296  | 337  |
| 85°  | 83   | 84    | 84   | 83    | 80   | 90   |
| 90°  | 1    | 6     | 12   | 15    | 17   | 9    |
| 95°  | 47   | 49    | 56   | 61    | 62   | 49   |
| 105° | 166  | 169   | 174  | 178   | 180  | 176  |
| 115° | 313  | 316   | 317  | 316   | 316  | 310  |
| 125° | 457  | 461   | 462  | 460   | 460  | 409  |
| 135° | 594  | 598   | 599  | 599   | 596  | 458  |
| 145° | 719  | 722   | 724  | 724   | 722  | 450  |
| 155° | 823  | 823   | 824  | 827   | 823  | 379  |
| 165° | 895  | 894   | 894  | 897   | 893  | 253  |
| 175° | 931  | 928   | 928  | 932   | 927  | 88   |
| 180° | 933  | 933   | 933  | 933   | 933  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1899.1 | 1899.1 | 1899.1 | 1899.1 | 1899.1 |
| 2.5°   | 1905.2 | 1900.6 | 1885.6 | 1900.6 | 1899.1 |
| 5°     | 1896.1 | 1893.1 | 1878.1 | 1891.6 | 1890.1 |
| 7.5°   | 1882.6 | 1879.6 | 1863.1 | 1876.6 | 1875.1 |
| 10°    | 1863.1 | 1860.1 | 1843.6 | 1855.6 | 1854.1 |
| 12.5°  | 1839.0 | 1833.0 | 1818.0 | 1827.0 | 1827.0 |
| 15°    | 1807.5 | 1803.0 | 1786.5 | 1794.0 | 1794.0 |
| 17.5°  | 1774.4 | 1766.9 | 1750.4 | 1759.4 | 1751.9 |
| 20°    | 1730.9 | 1727.9 | 1708.3 | 1718.8 | 1711.3 |
| 22.5°  | 1687.3 | 1681.3 | 1663.3 | 1669.3 | 1664.8 |
| 25°    | 1640.7 | 1633.2 | 1613.7 | 1616.7 | 1612.2 |
| 27.5°  | 1586.6 | 1582.1 | 1562.6 | 1564.1 | 1559.6 |
| 30°    | 1534.0 | 1529.5 | 1507.0 | 1504.0 | 1499.5 |
| 32.5°  | 1476.9 | 1469.4 | 1449.9 | 1443.9 | 1434.9 |
| 35°    | 1416.8 | 1410.8 | 1389.8 | 1382.3 | 1370.3 |
| 37.5°  | 1355.2 | 1347.7 | 1328.2 | 1317.7 | 1310.2 |
| 40°    | 1292.1 | 1284.6 | 1263.6 | 1250.1 | 1245.6 |
| 42.5°  | 1224.5 | 1218.5 | 1197.5 | 1185.5 | 1177.9 |
| 45°    | 1159.9 | 1153.9 | 1135.9 | 1117.8 | 1113.3 |
| 47.5°  | 1089.3 | 1090.8 | 1068.3 | 1050.2 | 1039.7 |
| 50°    | 1021.7 | 1017.2 | 999.2  | 979.6  | 969.1  |
| 52.5°  | 952.6  | 949.6  | 930.0  | 913.5  | 901.5  |
| 55°    | 883.5  | 879.0  | 857.9  | 844.4  | 833.9  |
| 57.5°  | 809.8  | 808.3  | 790.3  | 772.3  | 767.8  |
| 60°    | 740.7  | 734.7  | 718.2  | 703.2  | 692.6  |
| 62.5°  | 668.6  | 664.1  | 650.6  | 634.0  | 626.5  |
| 65°    | 596.5  | 593.5  | 577.0  | 563.4  | 557.4  |
| 67.5°  | 525.9  | 519.9  | 507.8  | 495.8  | 492.8  |
| 70°    | 459.8  | 452.2  | 438.7  | 429.7  | 423.7  |
| 72.5°  | 387.6  | 383.1  | 375.6  | 365.1  | 359.1  |
| 75°    | 317.0  | 314.0  | 306.5  | 302.0  | 296.0  |
| 77.5°  | 250.9  | 249.4  | 244.9  | 241.9  | 237.4  |
| 80°    | 189.3  | 189.3  | 186.3  | 184.8  | 181.8  |
| 82.5°  | 135.2  | 132.2  | 132.2  | 129.2  | 129.2  |
| 85°    | 82.6   | 84.1   | 84.1   | 82.6   | 79.6   |
| 87.5°  | 40.6   | 40.6   | 39.1   | 39.1   | 36.1   |
| 90°    | 0.7    | 6.5    | 11.6   | 15.2   | 17.4   |
| 92.5°  | 21.8   | 25.4   | 31.9   | 37.0   | 38.5   |
| 95°    | 47.2   | 48.6   | 55.9   | 61.0   | 62.4   |
| 97.5°  | 72.6   | 73.3   | 83.5   | 87.8   | 88.6   |
| 100°   | 101.6  | 101.6  | 111.1  | 117.6  | 119.1  |
| 102.5° | 132.9  | 136.5  | 140.1  | 147.4  | 149.5  |
| 105°   | 165.5  | 169.1  | 173.5  | 177.9  | 180.0  |
| 107.5° | 201.1  | 204.7  | 208.4  | 210.5  | 210.5  |
| 110°   | 238.1  | 241.7  | 243.9  | 246.1  | 245.4  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 275.9 | 277.3 | 280.2 | 280.9 | 279.5 |
| 115°   | 312.9 | 315.8 | 317.2 | 316.5 | 315.8 |
| 117.5° | 350.6 | 351.4 | 352.8 | 353.5 | 350.6 |
| 120°   | 385.5 | 389.1 | 389.8 | 389.8 | 386.9 |
| 122.5° | 423.2 | 424.0 | 426.1 | 425.4 | 423.2 |
| 125°   | 456.6 | 461.0 | 461.7 | 460.3 | 459.5 |
| 127.5° | 493.7 | 495.8 | 496.6 | 495.8 | 494.4 |
| 130°   | 526.3 | 530.0 | 531.4 | 530.7 | 529.2 |
| 132.5° | 559.0 | 565.5 | 564.8 | 564.1 | 561.9 |
| 135°   | 593.8 | 598.2 | 598.9 | 598.9 | 596.0 |
| 137.5° | 626.5 | 630.9 | 632.3 | 633.0 | 629.4 |
| 140°   | 657.7 | 661.4 | 663.5 | 665.0 | 661.4 |
| 142.5° | 688.9 | 691.8 | 694.7 | 695.5 | 691.8 |
| 145°   | 719.4 | 722.3 | 724.5 | 724.5 | 722.3 |
| 147.5° | 747.7 | 749.9 | 751.4 | 753.6 | 747.7 |
| 150°   | 776.1 | 775.3 | 778.2 | 778.2 | 776.8 |
| 152.5° | 799.3 | 800.7 | 801.5 | 803.6 | 800.7 |
| 155°   | 823.2 | 823.2 | 824.0 | 826.9 | 823.2 |
| 157.5° | 845.0 | 843.6 | 844.3 | 847.2 | 842.1 |
| 160°   | 863.9 | 861.7 | 862.4 | 865.3 | 861.7 |
| 162.5° | 880.6 | 879.1 | 879.1 | 882.8 | 878.4 |
| 165°   | 895.1 | 893.7 | 894.4 | 897.3 | 892.9 |
| 167.5° | 908.2 | 905.3 | 905.3 | 909.6 | 905.3 |
| 170°   | 918.3 | 915.4 | 915.4 | 919.8 | 914.7 |
| 172.5° | 925.6 | 922.7 | 922.7 | 927.1 | 922.7 |
| 175°   | 930.7 | 927.8 | 927.8 | 932.1 | 927.1 |
| 177.5° | 934.3 | 931.4 | 930.7 | 935.0 | 930.0 |
| 180°   | 932.9 | 932.9 | 932.9 | 932.9 | 932.9 |

(END OF REPORT)