

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: P1034417

Luminaire Tested: S125DIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034417  
REPORT IS A COMBINATION OF REPORTS P1003142 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K  
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

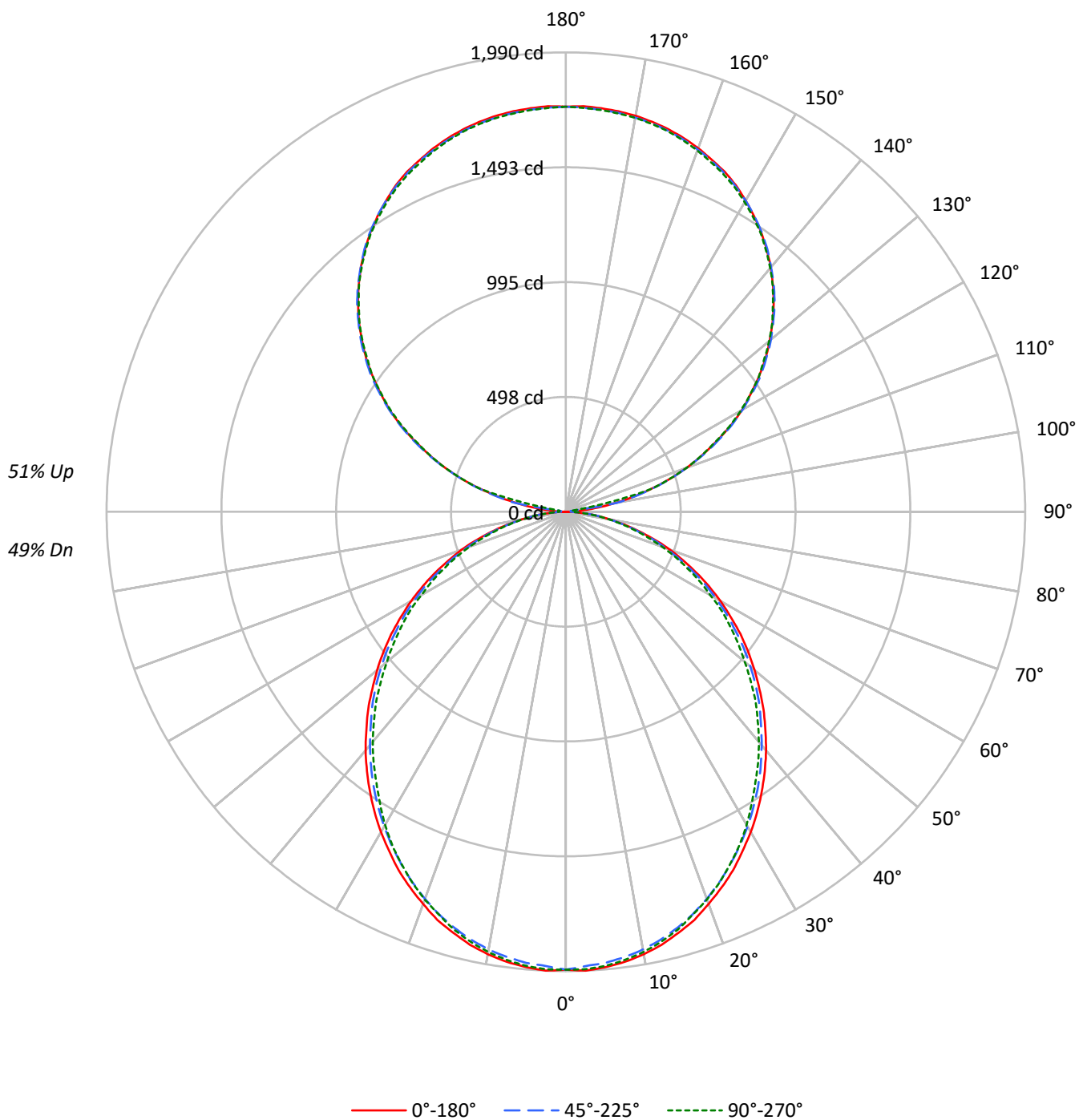
Lumens per Lamp: N/A  
Luminaire Lumens: 10556.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 103.4  
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 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 97  | 93  | 89  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 49 | 48 | 46 |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 60 | 56 | 53 | 50 | 47 | 43 | 41 | 39 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 35 | 33 |
| 4   | 74  | 63  | 55  | 49  | 68 | 59 | 52 | 46 | 50 | 44 | 40 | 41 | 38 | 34 | 34 | 31 | 29 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 |
| 6   | 63  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 34 | 29 | 26 | 28 | 24 | 22 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 19 |
| 8   | 54  | 41  | 34  | 28  | 49 | 38 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 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 | 20 | 17 | 20 | 17 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12710 | 12710 | 12710 |
| 5°  | 12710 | 12415 | 12439 |
| 10° | 12605 | 12130 | 12092 |
| 15° | 12439 | 11790 | 11684 |
| 20° | 12216 | 11395 | 11216 |
| 25° | 11975 | 10964 | 10715 |
| 30° | 11686 | 10516 | 10187 |
| 35° | 11376 | 10046 | 9595  |
| 40° | 11056 | 9548  | 9069  |
| 45° | 10710 | 9064  | 8511  |
| 50° | 10330 | 8515  | 7859  |
| 55° | 9953  | 7909  | 7261  |
| 60° | 9503  | 7270  | 6564  |
| 65° | 8964  | 6530  | 5843  |
| 70° | 8417  | 5681  | 5012  |
| 75° | 7497  | 4677  | 4053  |
| 80° | 6389  | 3494  | 2981  |
| 85° | 4934  | 2067  | 1644  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10710 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 187.2   | 1.8       |
| 10°-20°   | 528.7   | 5.0       |
| 20°-30°   | 780.6   | 7.4       |
| 30°-40°   | 910.7   | 8.6       |
| 40°-50°   | 914.7   | 8.7       |
| 50°-60°   | 802.9   | 7.6       |
| 60°-70°   | 598.0   | 5.7       |
| 70°-80°   | 341.6   | 3.2       |
| 80°-90°   | 101.2   | 1.0       |
| 90°-100°  | 59.5    | 0.6       |
| 100°-110° | 396.0   | 3.8       |
| 110°-120° | 713.2   | 6.8       |
| 120°-130° | 915.4   | 8.7       |
| 130°-140° | 984.6   | 9.3       |
| 140°-150° | 924.1   | 8.8       |
| 150°-160° | 747.5   | 7.1       |
| 160°-170° | 483.4   | 4.6       |
| 170°-180° | 166.7   | 1.6       |
| 0°-30°    | 1496.5  | 14.2      |
| 0°-40°    | 2407.2  | 22.8      |
| 0°-60°    | 4124.8  | 39.1      |
| 0°-90°    | 5165.6  | 48.9      |
| 90°-120°  | 1168.8  | 11.1      |
| 90°-150°  | 3992.8  | 37.8      |
| 90°-180°  | 5390.0  | 51.1      |
| 0°-180°   | 10556.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1984 | 1984  | 1984 | 1984  | 1984 |      |
| 5°   | 1980 | 1977  | 1962 | 1976  | 1974 | 188  |
| 15°  | 1888 | 1883  | 1866 | 1874  | 1874 | 532  |
| 25°  | 1714 | 1706  | 1686 | 1689  | 1684 | 789  |
| 35°  | 1480 | 1474  | 1452 | 1444  | 1431 | 926  |
| 45°  | 1212 | 1205  | 1186 | 1168  | 1163 | 933  |
| 55°  | 923  | 918   | 896  | 882   | 871  | 824  |
| 65°  | 623  | 620   | 603  | 588   | 582  | 618  |
| 75°  | 331  | 328   | 320  | 315   | 309  | 353  |
| 85°  | 86   | 88    | 88   | 86    | 83   | 95   |
| 90°  | 1    | 12    | 21   | 27    | 31   | 10   |
| 95°  | 74   | 70    | 21   | 27    | 27   | 91   |
| 105° | 382  | 388   | 388  | 388   | 386  | 405  |
| 115° | 718  | 725   | 726  | 721   | 713  | 712  |
| 125° | 1021 | 1030  | 1030 | 1025  | 1021 | 912  |
| 135° | 1274 | 1281  | 1279 | 1276  | 1268 | 982  |
| 145° | 1476 | 1479  | 1479 | 1480  | 1472 | 923  |
| 155° | 1626 | 1618  | 1621 | 1625  | 1614 | 749  |
| 165° | 1716 | 1708  | 1709 | 1717  | 1707 | 485  |
| 175° | 1755 | 1747  | 1748 | 1759  | 1747 | 167  |
| 180° | 1755 | 1755  | 1755 | 1755  | 1755 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1983.7 | 1983.7 | 1983.7 | 1983.7 | 1983.7 |
| 2.5°   | 1989.9 | 1985.2 | 1969.5 | 1985.2 | 1983.7 |
| 5°     | 1980.5 | 1977.4 | 1961.7 | 1975.8 | 1974.3 |
| 7.5°   | 1966.4 | 1963.3 | 1946.0 | 1960.1 | 1958.6 |
| 10°    | 1946.0 | 1942.9 | 1925.6 | 1938.2 | 1936.6 |
| 12.5°  | 1920.9 | 1914.6 | 1898.9 | 1908.3 | 1908.3 |
| 15°    | 1887.9 | 1883.2 | 1866.0 | 1873.8 | 1873.8 |
| 17.5°  | 1853.4 | 1845.6 | 1828.3 | 1837.7 | 1829.9 |
| 20°    | 1807.9 | 1804.8 | 1784.4 | 1795.3 | 1787.5 |
| 22.5°  | 1762.4 | 1756.1 | 1737.3 | 1743.6 | 1738.8 |
| 25°    | 1713.7 | 1705.9 | 1685.5 | 1688.6 | 1683.9 |
| 27.5°  | 1657.2 | 1652.5 | 1632.1 | 1633.7 | 1629.0 |
| 30°    | 1602.3 | 1597.6 | 1574.1 | 1570.9 | 1566.2 |
| 32.5°  | 1542.7 | 1534.8 | 1514.4 | 1508.2 | 1498.7 |
| 35°    | 1479.9 | 1473.6 | 1451.7 | 1443.8 | 1431.3 |
| 37.5°  | 1415.6 | 1407.7 | 1387.3 | 1376.3 | 1368.5 |
| 40°    | 1349.6 | 1341.8 | 1319.8 | 1305.7 | 1301.0 |
| 42.5°  | 1279.0 | 1272.7 | 1250.8 | 1238.2 | 1230.4 |
| 45°    | 1211.5 | 1205.3 | 1186.4 | 1167.6 | 1162.9 |
| 47.5°  | 1137.8 | 1139.4 | 1115.8 | 1097.0 | 1086.0 |
| 50°    | 1067.2 | 1062.5 | 1043.6 | 1023.2 | 1012.2 |
| 52.5°  | 995.0  | 991.8  | 971.4  | 954.2  | 941.6  |
| 55°    | 922.8  | 918.1  | 896.1  | 882.0  | 871.0  |
| 57.5°  | 845.9  | 844.3  | 825.5  | 806.6  | 801.9  |
| 60°    | 773.7  | 767.4  | 750.2  | 734.5  | 723.5  |
| 62.5°  | 698.4  | 693.7  | 679.5  | 662.3  | 654.4  |
| 65°    | 623.0  | 619.9  | 602.6  | 588.5  | 582.2  |
| 67.5°  | 549.3  | 543.0  | 530.4  | 517.9  | 514.7  |
| 70°    | 480.2  | 472.4  | 458.3  | 448.8  | 442.6  |
| 72.5°  | 404.9  | 400.2  | 392.3  | 381.4  | 375.1  |
| 75°    | 331.1  | 328.0  | 320.1  | 315.4  | 309.2  |
| 77.5°  | 262.1  | 260.5  | 255.8  | 252.7  | 248.0  |
| 80°    | 197.7  | 197.7  | 194.6  | 193.0  | 189.9  |
| 82.5°  | 141.2  | 138.1  | 138.1  | 135.0  | 135.0  |
| 85°    | 86.3   | 87.9   | 87.9   | 86.3   | 83.2   |
| 87.5°  | 42.4   | 42.4   | 40.8   | 40.8   | 37.7   |
| 90°    | 1.3    | 11.7   | 20.8   | 27.3   | 31.2   |
| 92.5°  | 24.7   | 13.0   | 20.8   | 27.3   | 28.6   |
| 95°    | 74.1   | 70.2   | 20.8   | 27.3   | 27.3   |
| 97.5°  | 139.2  | 147.0  | 23.4   | 26.0   | 27.3   |
| 100°   | 217.2  | 221.1  | 226.3  | 32.5   | 27.3   |
| 102.5° | 296.6  | 301.8  | 304.4  | 307.0  | 197.7  |
| 105°   | 382.4  | 387.6  | 387.6  | 387.6  | 386.3  |
| 107.5° | 470.9  | 470.9  | 473.5  | 474.8  | 469.6  |
| 110°   | 556.8  | 556.8  | 559.4  | 555.5  | 556.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 637.4  | 641.3  | 642.6  | 637.4  | 634.8  |
| 115°   | 718.1  | 724.6  | 725.9  | 720.7  | 712.8  |
| 117.5° | 802.6  | 802.6  | 807.8  | 800.0  | 797.4  |
| 120°   | 880.7  | 879.4  | 883.3  | 880.7  | 874.2  |
| 122.5° | 949.6  | 956.1  | 957.4  | 954.8  | 947.0  |
| 125°   | 1021.1 | 1030.3 | 1030.3 | 1025.0 | 1021.1 |
| 127.5° | 1090.1 | 1096.6 | 1095.3 | 1092.7 | 1082.3 |
| 130°   | 1152.5 | 1159.0 | 1160.3 | 1156.4 | 1149.9 |
| 132.5° | 1215.0 | 1222.8 | 1218.9 | 1218.9 | 1212.4 |
| 135°   | 1273.5 | 1281.3 | 1278.7 | 1276.1 | 1268.3 |
| 137.5° | 1328.1 | 1335.9 | 1333.3 | 1333.3 | 1326.8 |
| 140°   | 1381.5 | 1384.1 | 1382.8 | 1385.4 | 1377.6 |
| 142.5° | 1429.6 | 1430.9 | 1433.5 | 1433.5 | 1425.7 |
| 145°   | 1476.4 | 1479.0 | 1479.0 | 1480.3 | 1472.5 |
| 147.5° | 1518.1 | 1518.1 | 1519.4 | 1520.7 | 1511.6 |
| 150°   | 1557.1 | 1554.5 | 1557.1 | 1559.7 | 1549.3 |
| 152.5° | 1594.8 | 1588.3 | 1590.9 | 1593.5 | 1584.4 |
| 155°   | 1626.0 | 1618.2 | 1620.8 | 1624.7 | 1614.3 |
| 157.5° | 1650.7 | 1646.8 | 1646.8 | 1650.7 | 1640.3 |
| 160°   | 1676.8 | 1669.0 | 1670.3 | 1675.5 | 1665.1 |
| 162.5° | 1697.6 | 1689.8 | 1691.1 | 1698.9 | 1687.2 |
| 165°   | 1715.8 | 1708.0 | 1709.3 | 1717.1 | 1706.7 |
| 167.5° | 1730.1 | 1722.3 | 1723.6 | 1732.7 | 1721.0 |
| 170°   | 1741.8 | 1732.7 | 1734.0 | 1744.4 | 1732.7 |
| 172.5° | 1749.6 | 1740.5 | 1743.1 | 1752.2 | 1740.5 |
| 175°   | 1754.8 | 1747.0 | 1748.3 | 1758.7 | 1747.0 |
| 177.5° | 1758.7 | 1750.9 | 1752.2 | 1761.3 | 1750.9 |
| 180°   | 1754.8 | 1754.8 | 1754.8 | 1754.8 | 1754.8 |

(END OF REPORT)