

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: P1034758

Luminaire Tested: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034758  
REPORT IS A COMBINATION OF REPORTS P1006202 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

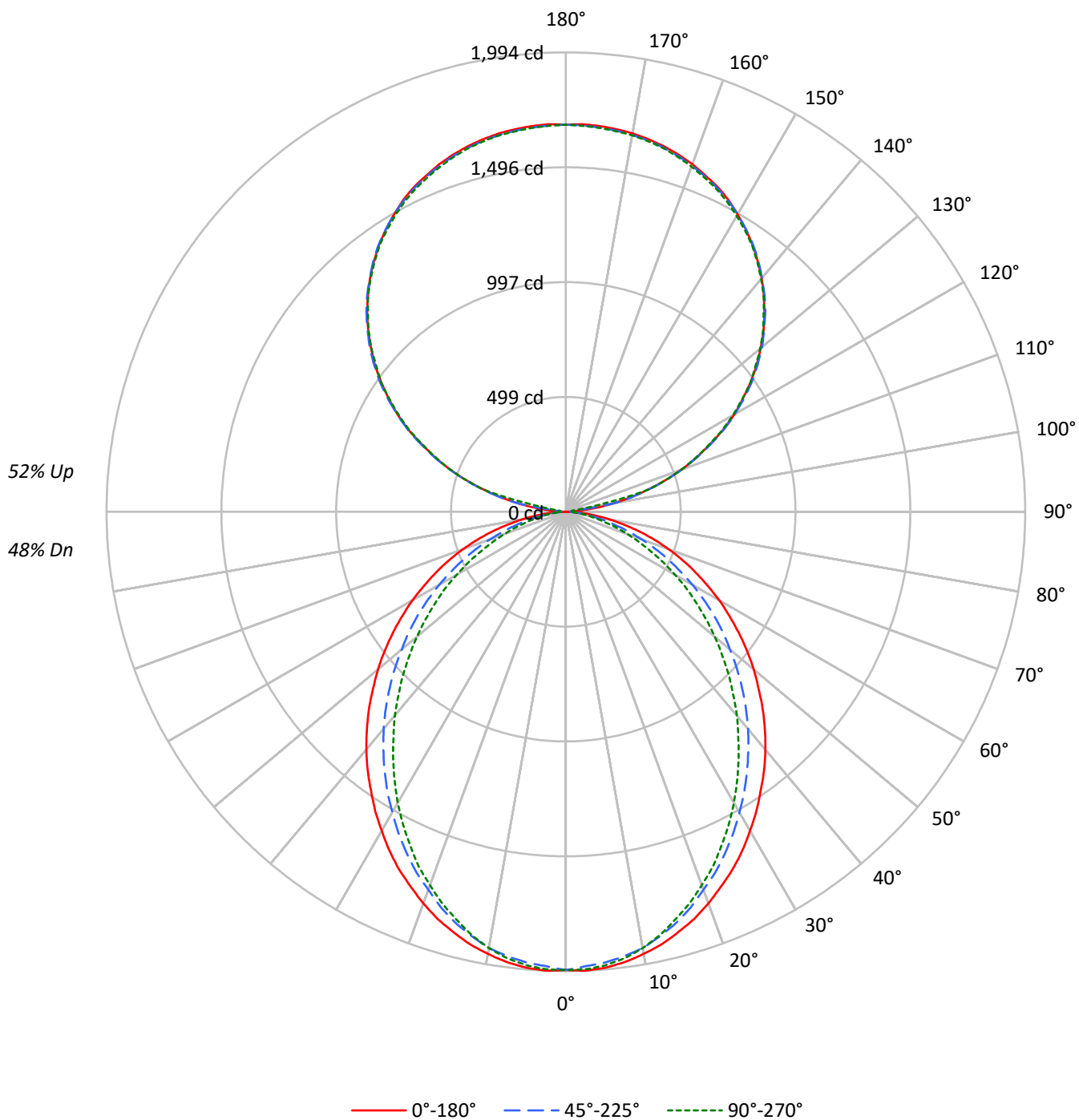
Lumens per Lamp: N/A  
Luminaire Lumens: 9864.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |  |    |    |    |  |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 |  | 67 | 67 | 67 |  | 54 |
| 1   | 97  | 93  | 89  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 |  | 60 | 58 | 57 |  | 48 |
| 2   | 89  | 82  | 76  | 71  | 82 | 75 | 70 | 66 | 64 | 60 | 56 |  | 53 | 50 | 48 |  | 43 |
| 3   | 81  | 72  | 65  | 59  | 74 | 66 | 60 | 55 | 56 | 52 | 48 |  | 47 | 43 | 40 |  | 38 |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 |  | 42 | 38 | 35 |  | 34 |
| 5   | 68  | 57  | 49  | 43  | 63 | 53 | 46 | 40 | 45 | 39 | 35 |  | 37 | 33 | 30 |  | 31 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 31 |  | 34 | 30 | 27 |  | 28 |
| 7   | 58  | 46  | 38  | 33  | 53 | 43 | 36 | 31 | 37 | 31 | 27 |  | 31 | 27 | 24 |  | 25 |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 33 | 28 | 24 |  | 28 | 24 | 21 |  | 23 |
| 9   | 50  | 38  | 31  | 26  | 46 | 36 | 29 | 24 | 31 | 25 | 22 |  | 26 | 22 | 19 |  | 22 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 20 |  | 24 | 20 | 17 |  | 20 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12746 | 12746 | 12746 |
| 5°  | 12747 | 12428 | 12448 |
| 10° | 12622 | 12115 | 12008 |
| 15° | 12444 | 11677 | 11429 |
| 20° | 12223 | 11149 | 10823 |
| 25° | 11969 | 10634 | 10172 |
| 30° | 11659 | 10068 | 9489  |
| 35° | 11341 | 9493  | 8763  |
| 40° | 11040 | 8902  | 8054  |
| 45° | 10679 | 8265  | 7313  |
| 50° | 10311 | 7588  | 6556  |
| 55° | 9885  | 6922  | 5773  |
| 60° | 9449  | 6160  | 4962  |
| 65° | 8928  | 5308  | 4087  |
| 70° | 8323  | 4322  | 3216  |
| 75° | 7483  | 3249  | 2344  |
| 80° | 6311  | 2104  | 1581  |
| 85° | 4723  | 1131  | 891   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10679 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 187.2  | 1.9       |
| 10°-20°   | 523.2  | 5.3       |
| 20°-30°   | 758.7  | 7.7       |
| 30°-40°   | 864.3  | 8.8       |
| 40°-50°   | 842.5  | 8.5       |
| 50°-60°   | 709.0  | 7.2       |
| 60°-70°   | 496.8  | 5.0       |
| 70°-80°   | 254.7  | 2.6       |
| 80°-90°   | 66.0   | 0.7       |
| 90°-100°  | 57.0   | 0.6       |
| 100°-110° | 379.2  | 3.8       |
| 110°-120° | 682.9  | 6.9       |
| 120°-130° | 876.6  | 8.9       |
| 130°-140° | 942.8  | 9.6       |
| 140°-150° | 884.8  | 9.0       |
| 150°-160° | 715.7  | 7.3       |
| 160°-170° | 462.9  | 4.7       |
| 170°-180° | 159.6  | 1.6       |
| 0°-30°    | 1469.1 | 14.9      |
| 0°-40°    | 2333.5 | 23.7      |
| 0°-60°    | 3884.9 | 39.4      |
| 0°-90°    | 4702.5 | 47.7      |
| 90°-120°  | 1119.2 | 11.3      |
| 90°-150°  | 3823.3 | 38.8      |
| 90°-180°  | 5162.0 | 52.3      |
| 0°-180°   | 9864.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1989 | 1989  | 1989 | 1989  | 1989 |      |
| 5°   | 1986 | 1980  | 1964 | 1979  | 1976 | 188  |
| 15°  | 1889 | 1880  | 1848 | 1847  | 1833 | 533  |
| 25°  | 1713 | 1690  | 1635 | 1615  | 1599 | 788  |
| 35°  | 1475 | 1439  | 1372 | 1328  | 1307 | 924  |
| 45°  | 1208 | 1164  | 1082 | 1022  | 999  | 932  |
| 55°  | 916  | 868   | 784  | 717   | 693  | 820  |
| 65°  | 620  | 569   | 490  | 430   | 407  | 614  |
| 75°  | 330  | 286   | 222  | 189   | 179  | 349  |
| 85°  | 83   | 56    | 48   | 47    | 45   | 90   |
| 90°  | 1    | 11    | 20   | 26    | 30   | 8    |
| 95°  | 71   | 67    | 20   | 26    | 26   | 87   |
| 105° | 366  | 371   | 371  | 371   | 370  | 388  |
| 115° | 688  | 694   | 695  | 690   | 683  | 682  |
| 125° | 978  | 986   | 986  | 982   | 978  | 873  |
| 135° | 1219 | 1227  | 1224 | 1222  | 1214 | 940  |
| 145° | 1414 | 1416  | 1416 | 1418  | 1410 | 884  |
| 155° | 1557 | 1550  | 1552 | 1556  | 1546 | 717  |
| 165° | 1643 | 1636  | 1637 | 1644  | 1634 | 464  |
| 175° | 1680 | 1673  | 1674 | 1684  | 1673 | 160  |
| 180° | 1680 | 1680  | 1680 | 1680  | 1680 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 |
| 2.5°   | 1993.8 | 1989.3 | 1974.3 | 1989.3 | 1987.8 |
| 5°     | 1986.3 | 1980.3 | 1963.8 | 1978.8 | 1975.8 |
| 7.5°   | 1971.3 | 1965.3 | 1945.7 | 1957.7 | 1954.7 |
| 10°    | 1948.7 | 1944.2 | 1923.2 | 1927.7 | 1923.2 |
| 12.5°  | 1923.2 | 1917.2 | 1887.1 | 1890.1 | 1882.6 |
| 15°    | 1888.6 | 1879.6 | 1848.1 | 1846.6 | 1833.0 |
| 17.5°  | 1852.6 | 1839.0 | 1801.5 | 1794.0 | 1783.5 |
| 20°    | 1809.0 | 1794.0 | 1745.9 | 1738.4 | 1724.9 |
| 22.5°  | 1760.9 | 1745.9 | 1694.8 | 1678.3 | 1667.8 |
| 25°    | 1712.8 | 1690.3 | 1634.7 | 1615.2 | 1598.6 |
| 27.5°  | 1658.7 | 1631.7 | 1573.1 | 1547.6 | 1531.0 |
| 30°    | 1598.6 | 1570.1 | 1507.0 | 1472.4 | 1458.9 |
| 32.5°  | 1540.1 | 1505.5 | 1440.9 | 1401.8 | 1383.8 |
| 35°    | 1475.4 | 1439.4 | 1371.8 | 1328.2 | 1307.2 |
| 37.5°  | 1413.8 | 1370.3 | 1301.2 | 1250.1 | 1229.0 |
| 40°    | 1347.7 | 1302.7 | 1230.5 | 1173.4 | 1155.4 |
| 42.5°  | 1278.6 | 1232.0 | 1156.9 | 1102.8 | 1074.3 |
| 45°    | 1208.0 | 1164.4 | 1081.8 | 1021.7 | 999.2  |
| 47.5°  | 1134.4 | 1089.3 | 1006.7 | 945.1  | 919.5  |
| 50°    | 1065.3 | 1015.7 | 930.0  | 866.9  | 844.4  |
| 52.5°  | 990.1  | 939.1  | 859.4  | 790.3  | 767.8  |
| 55°    | 916.5  | 868.4  | 784.3  | 716.7  | 692.6  |
| 57.5°  | 841.4  | 790.3  | 709.2  | 643.1  | 622.0  |
| 60°    | 769.3  | 716.7  | 635.6  | 569.4  | 546.9  |
| 62.5°  | 692.6  | 643.1  | 560.4  | 500.3  | 477.8  |
| 65°    | 620.5  | 569.4  | 489.8  | 429.7  | 407.2  |
| 67.5°  | 548.4  | 497.3  | 420.7  | 363.6  | 345.6  |
| 70°    | 474.8  | 423.7  | 348.6  | 302.0  | 284.0  |
| 72.5°  | 402.7  | 353.1  | 284.0  | 241.9  | 231.4  |
| 75°    | 330.5  | 285.5  | 222.4  | 189.3  | 178.8  |
| 77.5°  | 256.9  | 220.9  | 168.3  | 142.7  | 133.7  |
| 80°    | 195.3  | 159.3  | 117.2  | 103.7  | 100.7  |
| 82.5°  | 135.2  | 103.7  | 78.1   | 73.6   | 72.1   |
| 85°    | 82.6   | 55.6   | 48.1   | 46.6   | 45.1   |
| 87.5°  | 34.6   | 24.0   | 22.5   | 22.5   | 21.0   |
| 90°    | 1.2    | 11.2   | 19.9   | 26.2   | 29.9   |
| 92.5°  | 23.7   | 12.5   | 19.9   | 26.2   | 27.4   |
| 95°    | 71.0   | 67.3   | 19.9   | 26.2   | 26.2   |
| 97.5°  | 133.3  | 140.8  | 22.4   | 24.9   | 26.2   |
| 100°   | 208.0  | 211.7  | 216.7  | 31.1   | 26.2   |
| 102.5° | 284.0  | 289.0  | 291.5  | 294.0  | 189.3  |
| 105°   | 366.2  | 371.2  | 371.2  | 371.2  | 369.9  |
| 107.5° | 450.9  | 450.9  | 453.4  | 454.6  | 449.7  |
| 110°   | 533.1  | 533.1  | 535.6  | 531.9  | 533.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 610.3  | 614.1  | 615.3  | 610.3  | 607.8  |
| 115°   | 687.6  | 693.8  | 695.0  | 690.1  | 682.6  |
| 117.5° | 768.5  | 768.5  | 773.5  | 766.0  | 763.5  |
| 120°   | 843.3  | 842.0  | 845.8  | 843.3  | 837.0  |
| 122.5° | 909.3  | 915.5  | 916.8  | 914.3  | 906.8  |
| 125°   | 977.8  | 986.5  | 986.5  | 981.5  | 977.8  |
| 127.5° | 1043.8 | 1050.0 | 1048.8 | 1046.3 | 1036.3 |
| 130°   | 1103.6 | 1109.8 | 1111.1 | 1107.3 | 1101.1 |
| 132.5° | 1163.4 | 1170.8 | 1167.1 | 1167.1 | 1160.9 |
| 135°   | 1219.4 | 1226.9 | 1224.4 | 1221.9 | 1214.4 |
| 137.5° | 1271.7 | 1279.2 | 1276.7 | 1276.7 | 1270.5 |
| 140°   | 1322.8 | 1325.3 | 1324.1 | 1326.5 | 1319.1 |
| 142.5° | 1368.9 | 1370.1 | 1372.6 | 1372.6 | 1365.2 |
| 145°   | 1413.7 | 1416.2 | 1416.2 | 1417.5 | 1410.0 |
| 147.5° | 1453.6 | 1453.6 | 1454.8 | 1456.1 | 1447.4 |
| 150°   | 1491.0 | 1488.5 | 1491.0 | 1493.5 | 1483.5 |
| 152.5° | 1527.1 | 1520.9 | 1523.4 | 1525.8 | 1517.1 |
| 155°   | 1557.0 | 1549.5 | 1552.0 | 1555.7 | 1545.8 |
| 157.5° | 1580.6 | 1576.9 | 1576.9 | 1580.6 | 1570.7 |
| 160°   | 1605.6 | 1598.1 | 1599.3 | 1604.3 | 1594.3 |
| 162.5° | 1625.5 | 1618.0 | 1619.3 | 1626.7 | 1615.5 |
| 165°   | 1642.9 | 1635.5 | 1636.7 | 1644.2 | 1634.2 |
| 167.5° | 1656.6 | 1649.2 | 1650.4 | 1659.1 | 1647.9 |
| 170°   | 1667.8 | 1659.1 | 1660.4 | 1670.3 | 1659.1 |
| 172.5° | 1675.3 | 1666.6 | 1669.1 | 1677.8 | 1666.6 |
| 175°   | 1680.3 | 1672.8 | 1674.1 | 1684.0 | 1672.8 |
| 177.5° | 1684.0 | 1676.6 | 1677.8 | 1686.5 | 1676.6 |
| 180°   | 1680.3 | 1680.3 | 1680.3 | 1680.3 | 1680.3 |

(END OF REPORT)