

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: P1035700

Luminaire Tested: S125RDIW-B1090D1340UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035700  
REPORT IS A COMBINATION OF REPORTS P1005986 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B1090D1340UB30-4F0-XX-W2A-F  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

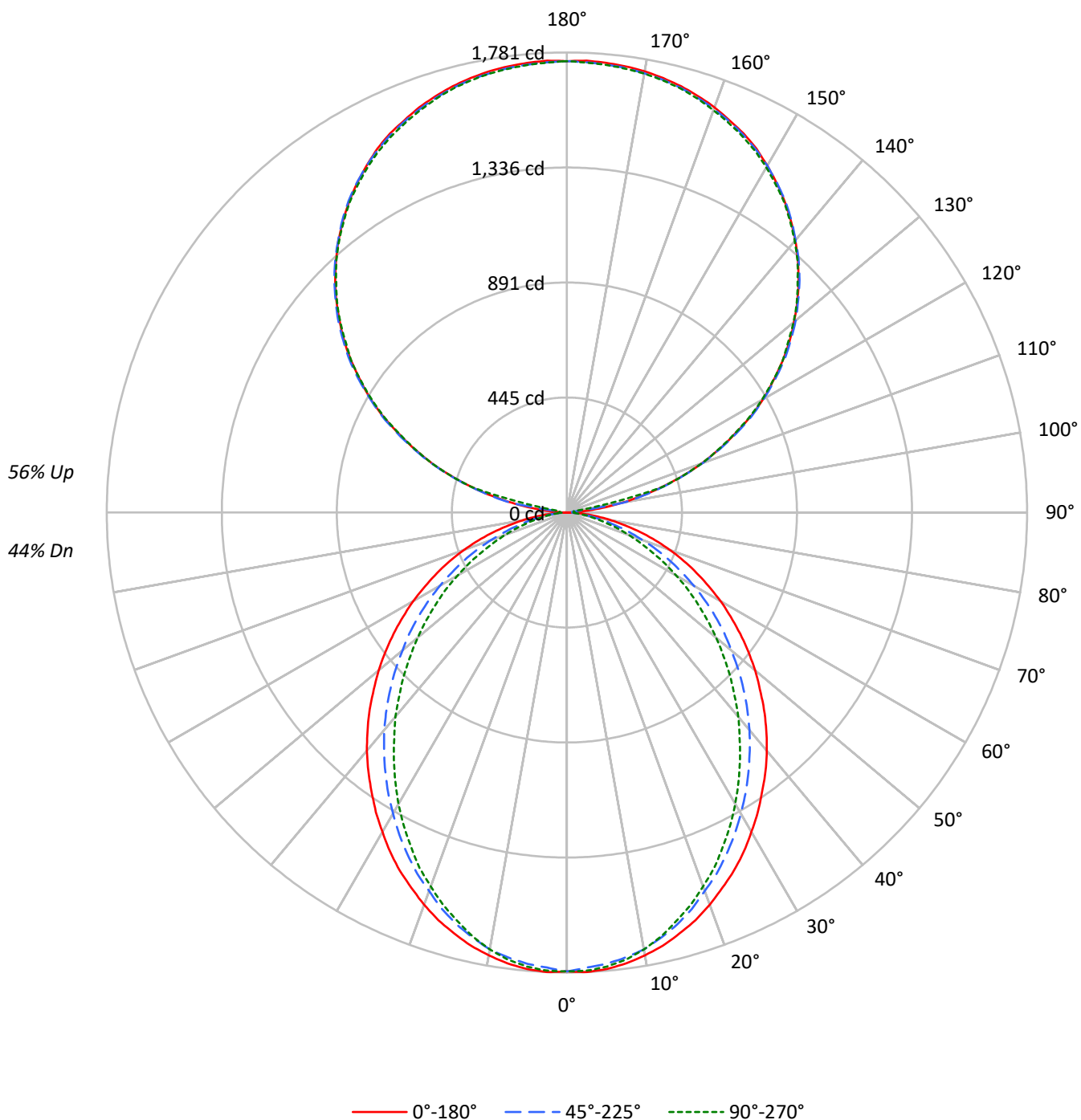
Lumens per Lamp: N/A  
Luminaire Lumens: 9568.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 88.9  
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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 |
| 1   | 97  | 92  | 89  | 85  | 88 | 85 | 82 | 79 | 70 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 50 | 48 | 46 | 40 | 38 | 37 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 39 | 35 | 33 | 31 |
| 4   | 74  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 44 | 40 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 |
| 6   | 62  | 50  | 43  | 37  | 57 | 47 | 40 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 19 |
| 8   | 53  | 41  | 34  | 29  | 49 | 38 | 32 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 35  | 28  | 23  | 43 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11384 | 11384 | 11384 |
| 5°  | 11385 | 11100 | 11118 |
| 10° | 11275 | 10821 | 10726 |
| 15° | 11115 | 10429 | 10209 |
| 20° | 10918 | 9958  | 9667  |
| 25° | 10691 | 9498  | 9086  |
| 30° | 10414 | 8992  | 8476  |
| 35° | 10131 | 8479  | 7827  |
| 40° | 9862  | 7951  | 7194  |
| 45° | 9538  | 7382  | 6531  |
| 50° | 9210  | 6778  | 5856  |
| 55° | 8829  | 6182  | 5157  |
| 60° | 8439  | 5502  | 4432  |
| 65° | 7976  | 4741  | 3650  |
| 70° | 7434  | 3859  | 2872  |
| 75° | 6684  | 2902  | 2093  |
| 80° | 5639  | 1880  | 1411  |
| 85° | 4220  | 1009  | 796   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.2  | 1.7       |
| 10°-20°   | 467.3  | 4.9       |
| 20°-30°   | 677.6  | 7.1       |
| 30°-40°   | 772.0  | 8.1       |
| 40°-50°   | 752.5  | 7.9       |
| 50°-60°   | 633.3  | 6.6       |
| 60°-70°   | 443.8  | 4.6       |
| 70°-80°   | 227.5  | 2.4       |
| 80°-90°   | 59.3   | 0.6       |
| 90°-100°  | 59.3   | 0.6       |
| 100°-110° | 394.4  | 4.1       |
| 110°-120° | 710.2  | 7.4       |
| 120°-130° | 911.5  | 9.5       |
| 130°-140° | 980.4  | 10.2      |
| 140°-150° | 920.1  | 9.6       |
| 150°-160° | 744.3  | 7.8       |
| 160°-170° | 481.3  | 5.0       |
| 170°-180° | 166.0  | 1.7       |
| 0°-30°    | 1312.2 | 13.7      |
| 0°-40°    | 2084.2 | 21.8      |
| 0°-60°    | 3470.0 | 36.3      |
| 0°-90°    | 4200.6 | 43.9      |
| 90°-120°  | 1163.8 | 12.2      |
| 90°-150°  | 3975.8 | 41.6      |
| 90°-180°  | 5367.0 | 56.1      |
| 0°-180°   | 9568.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1777 | 1777  | 1777 | 1777  | 1777 |      |
| 5°   | 1774 | 1769  | 1754 | 1767  | 1765 | 168  |
| 15°  | 1687 | 1679  | 1651 | 1649  | 1637 | 476  |
| 25°  | 1530 | 1510  | 1460 | 1443  | 1428 | 704  |
| 35°  | 1318 | 1286  | 1225 | 1186  | 1168 | 825  |
| 45°  | 1079 | 1040  | 966  | 913   | 892  | 832  |
| 55°  | 819  | 776   | 700  | 640   | 619  | 732  |
| 65°  | 554  | 509   | 438  | 384   | 364  | 549  |
| 75°  | 295  | 255   | 199  | 169   | 160  | 312  |
| 85°  | 74   | 50    | 43   | 42    | 40   | 81   |
| 90°  | 1    | 12    | 21   | 27    | 31   | 8    |
| 95°  | 74   | 70    | 21   | 27    | 27   | 90   |
| 105° | 381  | 386   | 386  | 386   | 385  | 403  |
| 115° | 715  | 722   | 723  | 718   | 710  | 709  |
| 125° | 1017 | 1026  | 1026 | 1021  | 1017 | 908  |
| 135° | 1268 | 1276  | 1273 | 1271  | 1263 | 978  |
| 145° | 1470 | 1473  | 1473 | 1474  | 1466 | 919  |
| 155° | 1619 | 1611  | 1614 | 1618  | 1607 | 746  |
| 165° | 1708 | 1701  | 1702 | 1710  | 1699 | 483  |
| 175° | 1747 | 1740  | 1741 | 1751  | 1740 | 166  |
| 180° | 1747 | 1747  | 1747 | 1747  | 1747 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.8 | 1776.8 | 1776.8 | 1776.8 | 1776.8 |
| 2.5°   | 1780.8 | 1776.8 | 1763.4 | 1776.8 | 1775.5 |
| 5°     | 1774.1 | 1768.8 | 1754.0 | 1767.4 | 1764.7 |
| 7.5°   | 1760.7 | 1755.4 | 1737.9 | 1748.6 | 1746.0 |
| 10°    | 1740.6 | 1736.6 | 1717.8 | 1721.8 | 1717.8 |
| 12.5°  | 1717.8 | 1712.4 | 1685.6 | 1688.3 | 1681.5 |
| 15°    | 1686.9 | 1678.9 | 1650.7 | 1649.3 | 1637.3 |
| 17.5°  | 1654.7 | 1642.6 | 1609.1 | 1602.4 | 1593.0 |
| 20°    | 1615.8 | 1602.4 | 1559.4 | 1552.7 | 1540.6 |
| 22.5°  | 1572.8 | 1559.4 | 1513.8 | 1499.0 | 1489.6 |
| 25°    | 1529.9 | 1509.8 | 1460.1 | 1442.7 | 1427.9 |
| 27.5°  | 1481.6 | 1457.4 | 1405.1 | 1382.3 | 1367.5 |
| 30°    | 1427.9 | 1402.4 | 1346.0 | 1315.2 | 1303.1 |
| 32.5°  | 1375.6 | 1344.7 | 1287.0 | 1252.1 | 1236.0 |
| 35°    | 1317.9 | 1285.6 | 1225.3 | 1186.3 | 1167.5 |
| 37.5°  | 1262.8 | 1223.9 | 1162.2 | 1116.6 | 1097.8 |
| 40°    | 1203.8 | 1163.5 | 1099.1 | 1048.1 | 1032.0 |
| 42.5°  | 1142.1 | 1100.4 | 1033.3 | 985.0  | 959.5  |
| 45°    | 1079.0 | 1040.1 | 966.2  | 912.6  | 892.4  |
| 47.5°  | 1013.2 | 973.0  | 899.1  | 844.1  | 821.3  |
| 50°    | 951.5  | 907.2  | 830.7  | 774.3  | 754.2  |
| 52.5°  | 884.4  | 838.8  | 767.6  | 705.9  | 685.8  |
| 55°    | 818.6  | 775.7  | 700.5  | 640.1  | 618.7  |
| 57.5°  | 751.5  | 705.9  | 633.4  | 574.4  | 555.6  |
| 60°    | 687.1  | 640.1  | 567.7  | 508.6  | 488.5  |
| 62.5°  | 618.7  | 574.4  | 500.6  | 446.9  | 426.8  |
| 65°    | 554.3  | 508.6  | 437.5  | 383.8  | 363.7  |
| 67.5°  | 489.8  | 444.2  | 375.8  | 324.8  | 308.7  |
| 70°    | 424.1  | 378.4  | 311.3  | 269.7  | 253.6  |
| 72.5°  | 359.7  | 315.4  | 253.6  | 216.1  | 206.7  |
| 75°    | 295.2  | 255.0  | 198.6  | 169.1  | 159.7  |
| 77.5°  | 229.5  | 197.3  | 150.3  | 127.5  | 119.4  |
| 80°    | 174.5  | 142.3  | 104.7  | 92.6   | 89.9   |
| 82.5°  | 120.8  | 92.6   | 69.8   | 65.8   | 64.4   |
| 85°    | 73.8   | 49.7   | 42.9   | 41.6   | 40.3   |
| 87.5°  | 30.9   | 21.5   | 20.1   | 20.1   | 18.8   |
| 90°    | 1.3    | 11.7   | 20.7   | 27.2   | 31.1   |
| 92.5°  | 24.6   | 13.0   | 20.7   | 27.2   | 28.5   |
| 95°    | 73.8   | 69.9   | 20.7   | 27.2   | 27.2   |
| 97.5°  | 138.6  | 146.4  | 23.3   | 25.9   | 27.2   |
| 100°   | 216.3  | 220.2  | 225.4  | 32.4   | 27.2   |
| 102.5° | 295.3  | 300.5  | 303.1  | 305.7  | 196.9  |
| 105°   | 380.8  | 386.0  | 386.0  | 386.0  | 384.7  |
| 107.5° | 468.9  | 468.9  | 471.5  | 472.8  | 467.6  |
| 110°   | 554.4  | 554.4  | 557.0  | 553.1  | 554.4  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 634.7  | 638.6  | 639.9  | 634.7  | 632.1  |
| 115°   | 715.0  | 721.5  | 722.8  | 717.6  | 709.8  |
| 117.5° | 799.2  | 799.2  | 804.4  | 796.6  | 794.0  |
| 120°   | 876.9  | 875.6  | 879.5  | 876.9  | 870.4  |
| 122.5° | 945.5  | 952.0  | 953.3  | 950.7  | 943.0  |
| 125°   | 1016.8 | 1025.9 | 1025.9 | 1020.7 | 1016.8 |
| 127.5° | 1085.4 | 1091.9 | 1090.6 | 1088.0 | 1077.7 |
| 130°   | 1147.6 | 1154.1 | 1155.4 | 1151.5 | 1145.0 |
| 132.5° | 1209.8 | 1217.6 | 1213.7 | 1213.7 | 1207.2 |
| 135°   | 1268.1 | 1275.8 | 1273.3 | 1270.7 | 1262.9 |
| 137.5° | 1322.5 | 1330.2 | 1327.7 | 1327.7 | 1321.2 |
| 140°   | 1375.6 | 1378.2 | 1376.9 | 1379.5 | 1371.7 |
| 142.5° | 1423.5 | 1424.8 | 1427.4 | 1427.4 | 1419.6 |
| 145°   | 1470.1 | 1472.7 | 1472.7 | 1474.0 | 1466.2 |
| 147.5° | 1511.6 | 1511.6 | 1512.9 | 1514.2 | 1505.1 |
| 150°   | 1550.4 | 1547.9 | 1550.4 | 1553.0 | 1542.7 |
| 152.5° | 1588.0 | 1581.5 | 1584.1 | 1586.7 | 1577.6 |
| 155°   | 1619.1 | 1611.3 | 1613.9 | 1617.8 | 1607.4 |
| 157.5° | 1643.7 | 1639.8 | 1639.8 | 1643.7 | 1633.3 |
| 160°   | 1669.6 | 1661.8 | 1663.1 | 1668.3 | 1657.9 |
| 162.5° | 1690.3 | 1682.6 | 1683.9 | 1691.6 | 1680.0 |
| 165°   | 1708.5 | 1700.7 | 1702.0 | 1709.8 | 1699.4 |
| 167.5° | 1722.7 | 1714.9 | 1716.2 | 1725.3 | 1713.6 |
| 170°   | 1734.4 | 1725.3 | 1726.6 | 1737.0 | 1725.3 |
| 172.5° | 1742.1 | 1733.1 | 1735.7 | 1744.7 | 1733.1 |
| 175°   | 1747.3 | 1739.6 | 1740.8 | 1751.2 | 1739.6 |
| 177.5° | 1751.2 | 1743.4 | 1744.7 | 1753.8 | 1743.4 |
| 180°   | 1747.3 | 1747.3 | 1747.3 | 1747.3 | 1747.3 |

(END OF REPORT)