

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: P1034757

Luminaire Tested: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034757  
REPORT IS A COMBINATION OF REPORTS P1006200 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\_3500K  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

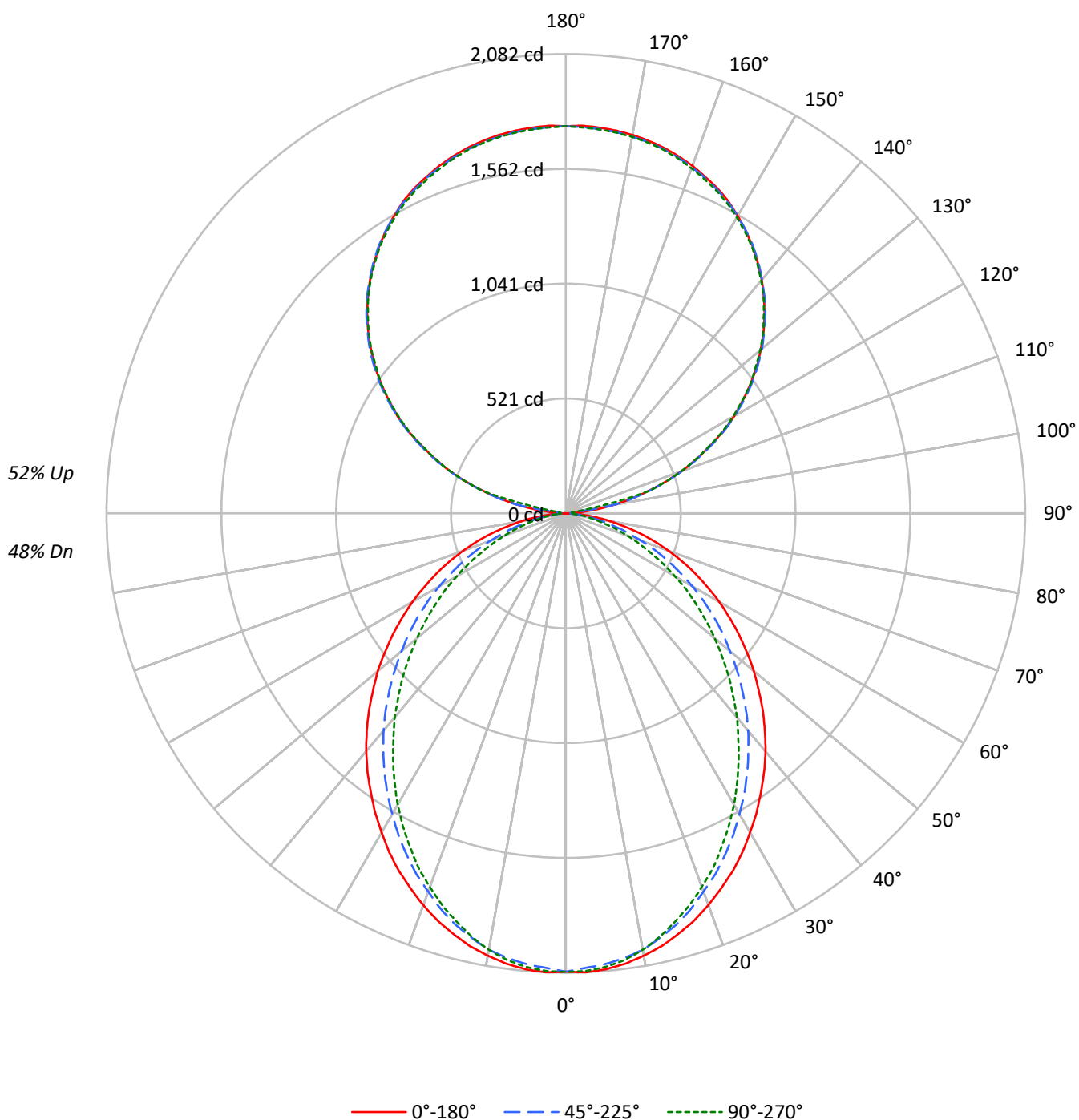
Lumens per Lamp: N/A  
Luminaire Lumens: 10302.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1034757

CATALOG NUMBER: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1034757

CATALOG NUMBER: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

**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°  | 13313 | 13313 | 13313 |
| 5°  | 13314 | 12981 | 13001 |
| 10° | 13184 | 12653 | 12542 |
| 15° | 12997 | 12195 | 11938 |
| 20° | 12766 | 11645 | 11304 |
| 25° | 12501 | 11107 | 10624 |
| 30° | 12177 | 10515 | 9911  |
| 35° | 11847 | 9915  | 9153  |
| 40° | 11532 | 9299  | 8413  |
| 45° | 11153 | 8632  | 7638  |
| 50° | 10769 | 7925  | 6848  |
| 55° | 10325 | 7230  | 6030  |
| 60° | 9869  | 6433  | 5182  |
| 65° | 9326  | 5544  | 4268  |
| 70° | 8693  | 4514  | 3359  |
| 75° | 7816  | 3394  | 2447  |
| 80° | 6592  | 2198  | 1650  |
| 85° | 4934  | 1180  | 930   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11153 cd/sqm

TEST NUMBER: P1034757

CATALOG NUMBER: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 195.6   | 1.9       |
| 10°-20°   | 546.5   | 5.3       |
| 20°-30°   | 792.4   | 7.7       |
| 30°-40°   | 902.8   | 8.8       |
| 40°-50°   | 879.9   | 8.5       |
| 50°-60°   | 740.5   | 7.2       |
| 60°-70°   | 518.9   | 5.0       |
| 70°-80°   | 266.0   | 2.6       |
| 80°-90°   | 68.9    | 0.7       |
| 90°-100°  | 59.5    | 0.6       |
| 100°-110° | 396.0   | 3.8       |
| 110°-120° | 713.2   | 6.9       |
| 120°-130° | 915.4   | 8.9       |
| 130°-140° | 984.6   | 9.6       |
| 140°-150° | 924.1   | 9.0       |
| 150°-160° | 747.5   | 7.3       |
| 160°-170° | 483.4   | 4.7       |
| 170°-180° | 166.7   | 1.6       |
| 0°-30°    | 1534.4  | 14.9      |
| 0°-40°    | 2437.2  | 23.7      |
| 0°-60°    | 4057.7  | 39.4      |
| 0°-90°    | 4911.6  | 47.7      |
| 90°-120°  | 1168.8  | 11.3      |
| 90°-150°  | 3992.8  | 38.8      |
| 90°-180°  | 5390.0  | 52.3      |
| 0°-180°   | 10302.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2078 | 2078  | 2078 | 2078  | 2078 |      |
| 5°   | 2075 | 2068  | 2051 | 2067  | 2064 | 197  |
| 15°  | 1973 | 1963  | 1930 | 1929  | 1914 | 556  |
| 25°  | 1789 | 1766  | 1707 | 1687  | 1670 | 823  |
| 35°  | 1541 | 1503  | 1433 | 1387  | 1365 | 965  |
| 45°  | 1262 | 1216  | 1130 | 1067  | 1044 | 973  |
| 55°  | 957  | 907   | 819  | 749   | 723  | 856  |
| 65°  | 648  | 595   | 512  | 449   | 425  | 642  |
| 75°  | 345  | 298   | 232  | 198   | 187  | 365  |
| 85°  | 86   | 58    | 50   | 49    | 47   | 95   |
| 90°  | 1    | 12    | 21   | 27    | 31   | 9    |
| 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 |      |

TEST NUMBER: P1034757

CATALOG NUMBER: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2077.8 | 2077.8 | 2077.8 | 2077.8 | 2077.8 |
| 2.5°   | 2082.5 | 2077.8 | 2062.1 | 2077.8 | 2076.2 |
| 5°     | 2074.6 | 2068.3 | 2051.1 | 2066.8 | 2063.6 |
| 7.5°   | 2058.9 | 2052.6 | 2032.2 | 2044.8 | 2041.7 |
| 10°    | 2035.4 | 2030.7 | 2008.7 | 2013.4 | 2008.7 |
| 12.5°  | 2008.7 | 2002.4 | 1971.0 | 1974.2 | 1966.3 |
| 15°    | 1972.6 | 1963.2 | 1930.2 | 1928.7 | 1914.5 |
| 17.5°  | 1935.0 | 1920.8 | 1881.6 | 1873.7 | 1862.8 |
| 20°    | 1889.4 | 1873.7 | 1823.5 | 1815.7 | 1801.6 |
| 22.5°  | 1839.2 | 1823.5 | 1770.2 | 1752.9 | 1741.9 |
| 25°    | 1789.0 | 1765.5 | 1707.4 | 1687.0 | 1669.7 |
| 27.5°  | 1732.5 | 1704.3 | 1643.1 | 1616.4 | 1599.1 |
| 30°    | 1669.7 | 1639.9 | 1574.0 | 1537.9 | 1523.8 |
| 32.5°  | 1608.5 | 1572.4 | 1505.0 | 1464.2 | 1445.3 |
| 35°    | 1541.1 | 1503.4 | 1432.8 | 1387.3 | 1365.3 |
| 37.5°  | 1476.7 | 1431.2 | 1359.0 | 1305.7 | 1283.7 |
| 40°    | 1407.7 | 1360.6 | 1285.3 | 1225.6 | 1206.8 |
| 42.5°  | 1335.5 | 1286.8 | 1208.4 | 1151.9 | 1122.1 |
| 45°    | 1261.7 | 1216.2 | 1129.9 | 1067.1 | 1043.6 |
| 47.5°  | 1184.8 | 1137.7 | 1051.4 | 987.1  | 960.4  |
| 50°    | 1112.6 | 1060.8 | 971.4  | 905.5  | 881.9  |
| 52.5°  | 1034.2 | 980.8  | 897.6  | 825.5  | 801.9  |
| 55°    | 957.3  | 907.1  | 819.2  | 748.6  | 723.4  |
| 57.5°  | 878.8  | 825.5  | 740.7  | 671.7  | 649.7  |
| 60°    | 803.5  | 748.6  | 663.8  | 594.8  | 571.2  |
| 62.5°  | 723.4  | 671.7  | 585.3  | 522.6  | 499.0  |
| 65°    | 648.1  | 594.8  | 511.6  | 448.8  | 425.3  |
| 67.5°  | 572.8  | 519.4  | 439.4  | 379.8  | 360.9  |
| 70°    | 495.9  | 442.5  | 364.1  | 315.4  | 296.6  |
| 72.5°  | 420.6  | 368.8  | 296.6  | 252.7  | 241.7  |
| 75°    | 345.2  | 298.2  | 232.3  | 197.7  | 186.7  |
| 77.5°  | 268.4  | 230.7  | 175.8  | 149.1  | 139.7  |
| 80°    | 204.0  | 166.3  | 122.4  | 108.3  | 105.1  |
| 82.5°  | 141.2  | 108.3  | 81.6   | 76.9   | 75.3   |
| 85°    | 86.3   | 58.1   | 50.2   | 48.6   | 47.1   |
| 87.5°  | 36.1   | 25.1   | 23.5   | 23.5   | 22.0   |
| 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  |



TEST NUMBER: P1034757

CATALOG NUMBER: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F\_3500K

**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)