

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: P1035795

Luminaire Tested: S125RDIW-B1270D1340UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035795  
REPORT IS A COMBINATION OF REPORTS P1006187 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B1270D1340UB27-4F0-XX-W2A-F1  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

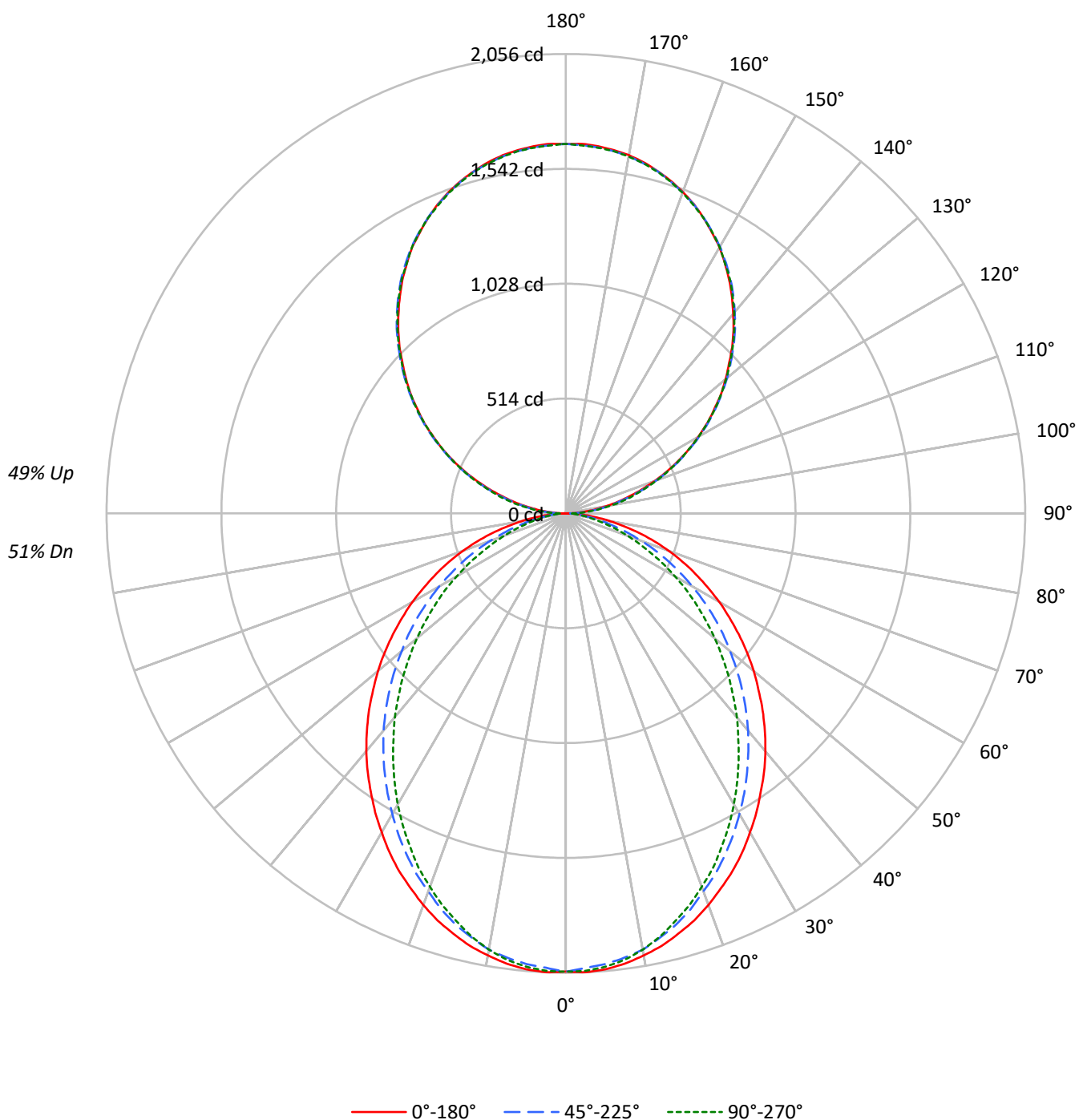
Lumens per Lamp: N/A  
Luminaire Lumens: 9463.0 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 | 99 | 99 | 99 | 99 | 84 | 84 | 84 |  | 70 | 70 | 70 |  | 57 |
| 1   | 98  | 94  | 90  | 87  | 91 | 87 | 84 | 81 | 74 | 72 | 70 |  | 62 | 60 | 59 |  | 51 |
| 2   | 90  | 82  | 76  | 71  | 83 | 76 | 71 | 67 | 65 | 61 | 58 |  | 55 | 52 | 49 |  | 45 |
| 3   | 82  | 73  | 65  | 60  | 75 | 67 | 61 | 56 | 58 | 53 | 49 |  | 49 | 45 | 42 |  | 40 |
| 4   | 75  | 64  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 |  | 43 | 39 | 36 |  | 36 |
| 5   | 69  | 57  | 49  | 43  | 64 | 53 | 46 | 41 | 46 | 40 | 36 |  | 39 | 35 | 32 |  | 33 |
| 6   | 64  | 52  | 44  | 38  | 59 | 48 | 41 | 36 | 42 | 36 | 32 |  | 35 | 31 | 28 |  | 30 |
| 7   | 59  | 47  | 39  | 33  | 54 | 44 | 36 | 31 | 38 | 32 | 28 |  | 32 | 28 | 25 |  | 27 |
| 8   | 55  | 42  | 35  | 29  | 50 | 40 | 33 | 28 | 34 | 29 | 25 |  | 30 | 25 | 22 |  | 25 |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 30 | 25 | 32 | 26 | 22 |  | 27 | 23 | 20 |  | 23 |
| 10  | 48  | 36  | 28  | 24  | 44 | 33 | 27 | 22 | 29 | 24 | 20 |  | 25 | 21 | 18 |  | 21 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13142 | 13142 | 13142 |
| 5°  | 13143 | 12814 | 12834 |
| 10° | 13015 | 12491 | 12381 |
| 15° | 12831 | 12039 | 11785 |
| 20° | 12603 | 11495 | 11159 |
| 25° | 12341 | 10964 | 10488 |
| 30° | 12021 | 10380 | 9784  |
| 35° | 11694 | 9788  | 9036  |
| 40° | 11384 | 9179  | 8305  |
| 45° | 11010 | 8521  | 7540  |
| 50° | 10632 | 7823  | 6760  |
| 55° | 10192 | 7137  | 5954  |
| 60° | 9742  | 6351  | 5116  |
| 65° | 9206  | 5473  | 4213  |
| 70° | 8580  | 4455  | 3316  |
| 75° | 7717  | 3350  | 2417  |
| 80° | 6508  | 2169  | 1630  |
| 85° | 4871  | 1166  | 919   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11010 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 193.0  | 2.0       |
| 10°-20°   | 539.5  | 5.7       |
| 20°-30°   | 782.2  | 8.3       |
| 30°-40°   | 891.2  | 9.4       |
| 40°-50°   | 868.6  | 9.2       |
| 50°-60°   | 731.0  | 7.7       |
| 60°-70°   | 512.3  | 5.4       |
| 70°-80°   | 262.6  | 2.8       |
| 80°-90°   | 68.1   | 0.7       |
| 90°-100°  | 110.0  | 1.2       |
| 100°-110° | 326.6  | 3.5       |
| 110°-120° | 553.9  | 5.9       |
| 120°-130° | 729.2  | 7.7       |
| 130°-140° | 817.2  | 8.6       |
| 140°-150° | 801.0  | 8.5       |
| 150°-160° | 672.8  | 7.1       |
| 160°-170° | 447.2  | 4.7       |
| 170°-180° | 156.5  | 1.7       |
| <hr/>     |        |           |
| 0°-30°    | 1514.8 | 16.0      |
| 0°-40°    | 2405.9 | 25.4      |
| 0°-60°    | 4005.6 | 42.3      |
| 0°-90°    | 4848.6 | 51.2      |
| 90°-120°  | 990.5  | 10.5      |
| 90°-150°  | 3337.9 | 35.3      |
| 90°-180°  | 4614.0 | 48.8      |
| 0°-180°   | 9463.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2051 | 2051  | 2051 | 2051  | 2051 |      |
| 5°   | 2048 | 2042  | 2025 | 2040  | 2037 | 194  |
| 15°  | 1947 | 1938  | 1906 | 1904  | 1890 | 549  |
| 25°  | 1766 | 1743  | 1686 | 1665  | 1648 | 813  |
| 35°  | 1521 | 1484  | 1414 | 1370  | 1348 | 953  |
| 45°  | 1246 | 1201  | 1115 | 1053  | 1030 | 961  |
| 55°  | 945  | 895   | 809  | 739   | 714  | 845  |
| 65°  | 640  | 587   | 505  | 443   | 420  | 634  |
| 75°  | 341  | 294   | 229  | 195   | 184  | 360  |
| 85°  | 85   | 57    | 50   | 48    | 46   | 93   |
| 90°  | 1    | 12    | 21   | 27    | 31   | 11   |
| 95°  | 84   | 86    | 99   | 108   | 111  | 87   |
| 105° | 293  | 300   | 308  | 315   | 319  | 313  |
| 115° | 555  | 560   | 562  | 561   | 560  | 549  |
| 125° | 809  | 817   | 818  | 816   | 814  | 725  |
| 135° | 1052 | 1060  | 1062 | 1062  | 1056 | 811  |
| 145° | 1275 | 1280  | 1284 | 1284  | 1280 | 797  |
| 155° | 1459 | 1459  | 1460 | 1466  | 1459 | 672  |
| 165° | 1586 | 1584  | 1585 | 1590  | 1583 | 448  |
| 175° | 1650 | 1644  | 1644 | 1652  | 1643 | 157  |
| 180° | 1653 | 1653  | 1653 | 1653  | 1653 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2051.1 | 2051.1 | 2051.1 | 2051.1 | 2051.1 |
| 2.5°   | 2055.7 | 2051.1 | 2035.6 | 2051.1 | 2049.5 |
| 5°     | 2048.0 | 2041.8 | 2024.8 | 2040.2 | 2037.1 |
| 7.5°   | 2032.5 | 2026.3 | 2006.2 | 2018.6 | 2015.5 |
| 10°    | 2009.3 | 2004.6 | 1982.9 | 1987.6 | 1982.9 |
| 12.5°  | 1982.9 | 1976.7 | 1945.7 | 1948.8 | 1941.1 |
| 15°    | 1947.3 | 1938.0 | 1905.5 | 1903.9 | 1890.0 |
| 17.5°  | 1910.1 | 1896.2 | 1857.4 | 1849.7 | 1838.9 |
| 20°    | 1865.2 | 1849.7 | 1800.1 | 1792.4 | 1778.4 |
| 22.5°  | 1815.6 | 1800.1 | 1747.5 | 1730.4 | 1719.6 |
| 25°    | 1766.0 | 1742.8 | 1685.5 | 1665.4 | 1648.3 |
| 27.5°  | 1710.3 | 1682.4 | 1622.0 | 1595.6 | 1578.6 |
| 30°    | 1648.3 | 1618.9 | 1553.8 | 1518.2 | 1504.2 |
| 32.5°  | 1587.9 | 1552.3 | 1485.6 | 1445.4 | 1426.8 |
| 35°    | 1521.3 | 1484.1 | 1414.4 | 1369.5 | 1347.8 |
| 37.5°  | 1457.8 | 1412.8 | 1341.6 | 1288.9 | 1267.2 |
| 40°    | 1389.6 | 1343.1 | 1268.8 | 1209.9 | 1191.3 |
| 42.5°  | 1318.3 | 1270.3 | 1192.9 | 1137.1 | 1107.7 |
| 45°    | 1245.5 | 1200.6 | 1115.4 | 1053.4 | 1030.2 |
| 47.5°  | 1169.6 | 1123.1 | 1037.9 | 974.4  | 948.1  |
| 50°    | 1098.4 | 1047.2 | 958.9  | 893.9  | 870.6  |
| 52.5°  | 1020.9 | 968.2  | 886.1  | 814.9  | 791.6  |
| 55°    | 945.0  | 895.4  | 808.7  | 739.0  | 714.2  |
| 57.5°  | 867.5  | 814.9  | 731.2  | 663.0  | 641.4  |
| 60°    | 793.2  | 739.0  | 655.3  | 587.1  | 563.9  |
| 62.5°  | 714.2  | 663.0  | 577.8  | 515.9  | 492.6  |
| 65°    | 639.8  | 587.1  | 505.0  | 443.1  | 419.8  |
| 67.5°  | 565.4  | 512.8  | 433.8  | 374.9  | 356.3  |
| 70°    | 489.5  | 436.9  | 359.4  | 311.4  | 292.8  |
| 72.5°  | 415.2  | 364.1  | 292.8  | 249.4  | 238.6  |
| 75°    | 340.8  | 294.3  | 229.3  | 195.2  | 184.4  |
| 77.5°  | 264.9  | 227.7  | 173.5  | 147.2  | 137.9  |
| 80°    | 201.4  | 164.2  | 120.8  | 106.9  | 103.8  |
| 82.5°  | 139.4  | 106.9  | 80.6   | 75.9   | 74.4   |
| 85°    | 85.2   | 57.3   | 49.6   | 48.0   | 46.5   |
| 87.5°  | 35.6   | 24.8   | 23.2   | 23.2   | 21.7   |
| 90°    | 1.3    | 11.6   | 20.6   | 27.0   | 30.9   |
| 92.5°  | 38.6   | 45.0   | 56.6   | 65.6   | 68.2   |
| 95°    | 83.6   | 86.2   | 99.1   | 108.1  | 110.7  |
| 97.5°  | 128.7  | 130.0  | 148.0  | 155.7  | 157.0  |
| 100°   | 180.1  | 180.1  | 196.9  | 208.4  | 211.0  |
| 102.5° | 235.5  | 241.9  | 248.3  | 261.2  | 265.1  |
| 105°   | 293.4  | 299.8  | 307.5  | 315.2  | 319.1  |
| 107.5° | 356.4  | 362.8  | 369.3  | 373.1  | 373.1  |
| 110°   | 422.0  | 428.5  | 432.3  | 436.2  | 434.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 488.9  | 491.5  | 496.7  | 497.9  | 495.4  |
| 115°   | 554.6  | 559.7  | 562.3  | 561.0  | 559.7  |
| 117.5° | 621.5  | 622.7  | 625.3  | 626.6  | 621.5  |
| 120°   | 683.2  | 689.7  | 690.9  | 690.9  | 685.8  |
| 122.5° | 750.1  | 751.4  | 755.3  | 754.0  | 750.1  |
| 125°   | 809.3  | 817.0  | 818.3  | 815.7  | 814.5  |
| 127.5° | 874.9  | 878.8  | 880.1  | 878.8  | 876.2  |
| 130°   | 932.8  | 939.3  | 941.8  | 940.6  | 938.0  |
| 132.5° | 990.7  | 1002.3 | 1001.0 | 999.7  | 995.9  |
| 135°   | 1052.5 | 1060.2 | 1061.5 | 1061.5 | 1056.4 |
| 137.5° | 1110.4 | 1118.1 | 1120.7 | 1122.0 | 1115.5 |
| 140°   | 1165.7 | 1172.2 | 1176.0 | 1178.6 | 1172.2 |
| 142.5° | 1221.1 | 1226.2 | 1231.3 | 1232.6 | 1226.2 |
| 145°   | 1275.1 | 1280.2 | 1284.1 | 1284.1 | 1280.2 |
| 147.5° | 1325.3 | 1329.1 | 1331.7 | 1335.6 | 1325.3 |
| 150°   | 1375.5 | 1374.2 | 1379.3 | 1379.3 | 1376.7 |
| 152.5° | 1416.6 | 1419.2 | 1420.5 | 1424.3 | 1419.2 |
| 155°   | 1459.1 | 1459.1 | 1460.4 | 1465.5 | 1459.1 |
| 157.5° | 1497.7 | 1495.1 | 1496.4 | 1501.5 | 1492.5 |
| 160°   | 1531.1 | 1527.3 | 1528.6 | 1533.7 | 1527.3 |
| 162.5° | 1560.7 | 1558.2 | 1558.2 | 1564.6 | 1556.9 |
| 165°   | 1586.5 | 1583.9 | 1585.2 | 1590.3 | 1582.6 |
| 167.5° | 1609.6 | 1604.5 | 1604.5 | 1612.2 | 1604.5 |
| 170°   | 1627.6 | 1622.5 | 1622.5 | 1630.2 | 1621.2 |
| 172.5° | 1640.5 | 1635.4 | 1635.4 | 1643.1 | 1635.4 |
| 175°   | 1649.5 | 1644.4 | 1644.4 | 1652.1 | 1643.1 |
| 177.5° | 1655.9 | 1650.8 | 1649.5 | 1657.2 | 1648.2 |
| 180°   | 1653.4 | 1653.4 | 1653.4 | 1653.4 | 1653.4 |

(END OF REPORT)