

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: P1031060

Luminaire Tested: S123RDIW-B1000D755UB2750-4F0-XX-W2A-F\_2700K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1031060  
REPORT IS A COMBINATION OF REPORTS P993910 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-B1000D755UB2750-4F0-XX-W2A-F\_2700K  
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

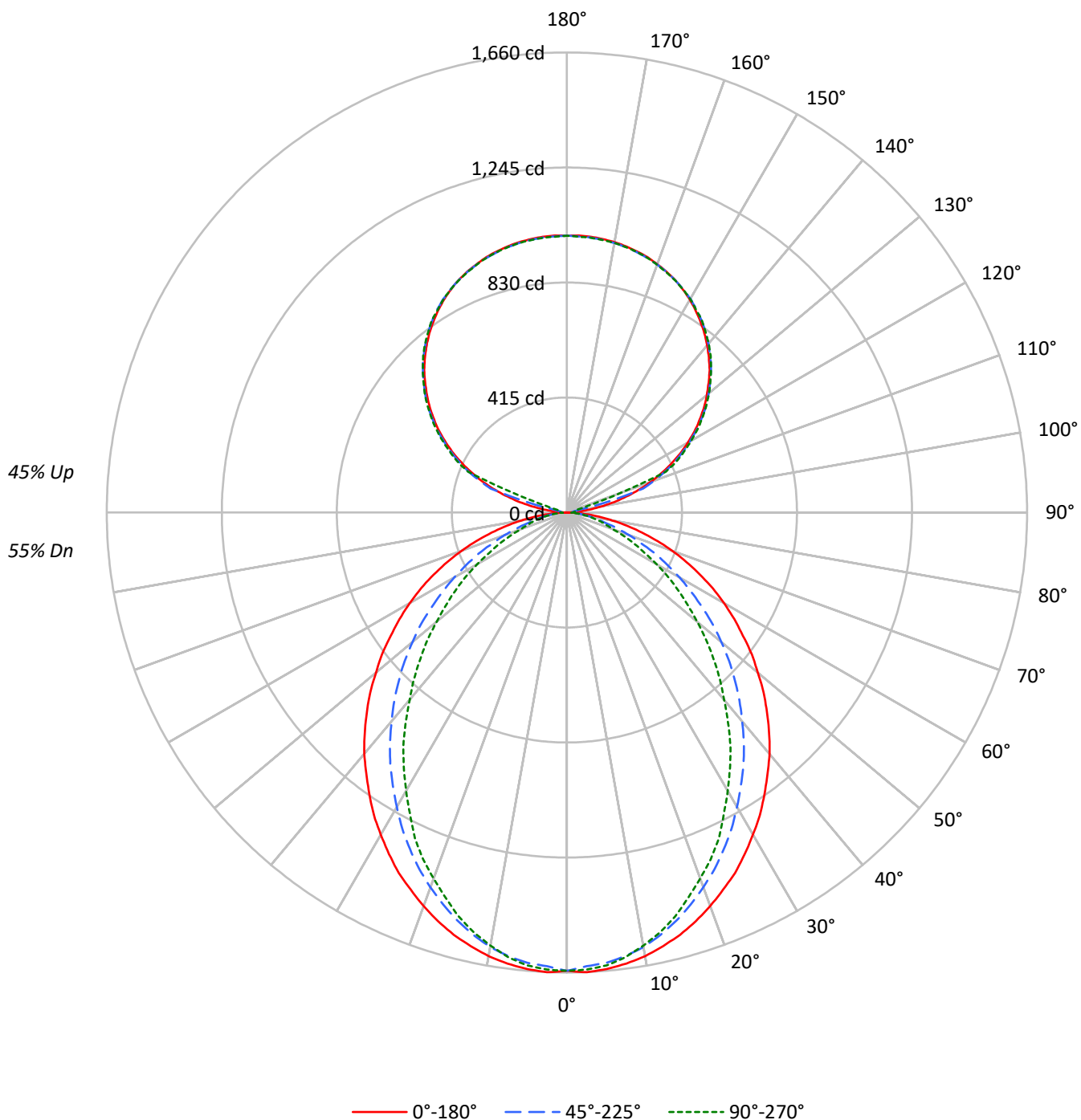
Lumens per Lamp: N/A  
Luminaire Lumens: 6783.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 70  
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   | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 |
| 1   | 99  | 95  | 91  | 88  | 92  | 88  | 85  | 82  | 76 | 74 | 72 | 65 | 63 | 62 | 54 | 53 | 52 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 73  | 68  | 67 | 63 | 60 | 57 | 54 | 52 | 48 | 46 | 44 |
| 3   | 83  | 74  | 66  | 61  | 77  | 69  | 62  | 57  | 60 | 55 | 51 | 51 | 47 | 44 | 43 | 40 | 38 |
| 4   | 76  | 65  | 58  | 52  | 70  | 61  | 54  | 49  | 53 | 48 | 44 | 46 | 42 | 38 | 39 | 36 | 33 |
| 5   | 70  | 58  | 50  | 45  | 65  | 55  | 48  | 42  | 48 | 42 | 38 | 41 | 37 | 33 | 35 | 32 | 29 |
| 6   | 65  | 53  | 45  | 39  | 60  | 49  | 42  | 37  | 43 | 37 | 33 | 37 | 33 | 29 | 32 | 28 | 26 |
| 7   | 60  | 48  | 40  | 34  | 55  | 45  | 38  | 33  | 39 | 33 | 29 | 34 | 30 | 26 | 29 | 26 | 23 |
| 8   | 56  | 43  | 36  | 30  | 52  | 41  | 34  | 29  | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 23 | 21 |
| 9   | 52  | 40  | 32  | 27  | 48  | 37  | 31  | 26  | 33 | 27 | 24 | 29 | 24 | 21 | 25 | 21 | 19 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 28  | 23  | 30 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17800 | 17800 | 17800 |
| 5°  | 17829 | 17170 | 17124 |
| 10° | 17689 | 16525 | 16199 |
| 15° | 17460 | 15727 | 15186 |
| 20° | 17158 | 14859 | 14055 |
| 25° | 16848 | 13958 | 12981 |
| 30° | 16449 | 12998 | 11714 |
| 35° | 16039 | 12056 | 10560 |
| 40° | 15652 | 11032 | 9284  |
| 45° | 15159 | 10031 | 8138  |
| 50° | 14612 | 8963  | 6950  |
| 55° | 14046 | 7819  | 5863  |
| 60° | 13505 | 6646  | 4759  |
| 65° | 12807 | 5442  | 3714  |
| 70° | 11927 | 4115  | 2654  |
| 75° | 10662 | 2788  | 2104  |
| 80° | 9099  | 1937  | 1475  |
| 85° | 6829  | 1047  | 774   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.5  | 2.3       |
| 10°-20°   | 432.5  | 6.4       |
| 20°-30°   | 622.7  | 9.2       |
| 30°-40°   | 701.2  | 10.3      |
| 40°-50°   | 670.7  | 9.9       |
| 50°-60°   | 549.1  | 8.1       |
| 60°-70°   | 370.2  | 5.5       |
| 70°-80°   | 185.7  | 2.7       |
| 80°-90°   | 50.5   | 0.7       |
| 90°-100°  | 35.2   | 0.5       |
| 100°-110° | 170.3  | 2.5       |
| 110°-120° | 417.3  | 6.2       |
| 120°-130° | 529.8  | 7.8       |
| 130°-140° | 565.9  | 8.3       |
| 140°-150° | 529.2  | 7.8       |
| 150°-160° | 426.9  | 6.3       |
| 160°-170° | 275.5  | 4.1       |
| 170°-180° | 94.9   | 1.4       |
| 0°-30°    | 1210.6 | 17.8      |
| 0°-40°    | 1911.8 | 28.2      |
| 0°-60°    | 3131.6 | 46.2      |
| 0°-90°    | 3738.0 | 55.1      |
| 90°-120°  | 622.8  | 9.2       |
| 90°-150°  | 2247.8 | 33.1      |
| 90°-180°  | 3045.0 | 44.9      |
| 0°-180°   | 6783.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1654 | 1654  | 1654 | 1654  | 1654 |      |
| 5°   | 1654 | 1647  | 1631 | 1643  | 1640 | 157  |
| 15°  | 1577 | 1562  | 1525 | 1518  | 1509 | 444  |
| 25°  | 1435 | 1402  | 1340 | 1312  | 1297 | 660  |
| 35°  | 1242 | 1194  | 1110 | 1053  | 1029 | 777  |
| 45°  | 1021 | 960   | 857  | 781   | 748  | 788  |
| 55°  | 775  | 710   | 596  | 518   | 491  | 695  |
| 65°  | 530  | 456   | 351  | 286   | 271  | 524  |
| 75°  | 280  | 216   | 142  | 129   | 126  | 299  |
| 85°  | 71   | 42    | 38   | 35    | 35   | 78   |
| 90°  | 1    | 8     | 18   | 21    | 22   | 7    |
| 95°  | 45   | 15    | 23   | 28    | 28   | 54   |
| 105° | 221  | 229   | 162  | 31    | 33   | 234  |
| 115° | 415  | 419   | 426  | 433   | 436  | 410  |
| 125° | 585  | 591   | 594  | 595   | 597  | 522  |
| 135° | 728  | 732   | 735  | 738   | 735  | 560  |
| 145° | 840  | 845   | 847  | 848   | 848  | 526  |
| 155° | 925  | 924   | 925  | 928   | 924  | 426  |
| 165° | 976  | 974   | 973  | 979   | 974  | 276  |
| 175° | 999  | 995   | 996  | 1001  | 995  | 95   |
| 180° | 999  | 999   | 999  | 999   | 999  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1653.7 | 1653.7 | 1653.7 | 1653.7 | 1653.7 |
| 2.5°   | 1660.4 | 1655.0 | 1638.9 | 1653.7 | 1651.0 |
| 5°     | 1653.7 | 1647.0 | 1630.9 | 1643.0 | 1640.3 |
| 7.5°   | 1641.6 | 1634.9 | 1614.8 | 1622.9 | 1618.8 |
| 10°    | 1625.5 | 1616.1 | 1592.0 | 1593.3 | 1586.6 |
| 12.5°  | 1602.7 | 1592.0 | 1561.2 | 1559.8 | 1551.8 |
| 15°    | 1577.3 | 1562.5 | 1524.9 | 1518.2 | 1508.8 |
| 17.5°  | 1546.4 | 1530.3 | 1483.4 | 1470.0 | 1456.5 |
| 20°    | 1511.5 | 1490.1 | 1439.1 | 1421.7 | 1405.6 |
| 22.5°  | 1472.6 | 1447.2 | 1392.2 | 1369.4 | 1354.6 |
| 25°    | 1435.1 | 1401.6 | 1339.9 | 1311.7 | 1296.9 |
| 27.5°  | 1389.5 | 1353.3 | 1286.2 | 1248.7 | 1225.9 |
| 30°    | 1342.5 | 1302.3 | 1227.2 | 1181.6 | 1160.1 |
| 32.5°  | 1295.6 | 1248.7 | 1168.2 | 1117.2 | 1094.4 |
| 35°    | 1242.0 | 1193.7 | 1110.5 | 1052.8 | 1028.7 |
| 37.5°  | 1188.3 | 1136.0 | 1048.8 | 984.4  | 954.9  |
| 40°    | 1137.3 | 1078.3 | 983.1  | 913.4  | 882.5  |
| 42.5°  | 1079.7 | 1020.7 | 921.4  | 843.6  | 816.8  |
| 45°    | 1020.7 | 960.3  | 857.0  | 780.6  | 748.4  |
| 47.5°  | 963.0  | 895.9  | 794.0  | 710.8  | 682.7  |
| 50°    | 898.6  | 835.6  | 726.9  | 643.8  | 612.9  |
| 52.5°  | 840.9  | 771.2  | 663.9  | 576.7  | 549.9  |
| 55°    | 775.2  | 709.5  | 595.5  | 517.7  | 490.9  |
| 57.5°  | 716.2  | 645.1  | 529.8  | 456.0  | 433.2  |
| 60°    | 654.5  | 580.7  | 469.4  | 397.0  | 374.2  |
| 62.5°  | 592.8  | 519.0  | 407.7  | 340.7  | 316.5  |
| 65°    | 529.8  | 456.0  | 351.4  | 285.7  | 270.9  |
| 67.5°  | 466.7  | 391.6  | 289.7  | 240.1  | 224.0  |
| 70°    | 405.0  | 332.6  | 238.7  | 191.8  | 177.0  |
| 72.5°  | 343.3  | 272.3  | 189.1  | 152.9  | 148.9  |
| 75°    | 280.3  | 215.9  | 142.2  | 128.8  | 126.1  |
| 77.5°  | 222.6  | 163.6  | 111.3  | 103.3  | 100.6  |
| 80°    | 167.6  | 112.7  | 84.5   | 80.5   | 77.8   |
| 82.5°  | 115.3  | 69.7   | 60.4   | 56.3   | 56.3   |
| 85°    | 71.1   | 41.6   | 37.6   | 34.9   | 34.9   |
| 87.5°  | 32.2   | 17.4   | 17.4   | 16.1   | 14.8   |
| 90°    | 0.7    | 8.2    | 17.8   | 20.8   | 22.3   |
| 92.5°  | 17.1   | 12.6   | 19.3   | 24.5   | 25.2   |
| 95°    | 45.3   | 14.8   | 23.0   | 28.2   | 28.2   |
| 97.5°  | 82.4   | 61.6   | 23.7   | 29.7   | 30.4   |
| 100°   | 125.4  | 140.3  | 24.5   | 30.4   | 31.2   |
| 102.5° | 174.4  | 184.0  | 54.9   | 30.4   | 31.9   |
| 105°   | 221.1  | 229.3  | 162.5  | 31.2   | 32.7   |
| 107.5° | 270.9  | 277.5  | 288.7  | 174.4  | 77.2   |
| 110°   | 320.6  | 326.5  | 334.7  | 310.2  | 204.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5° | 45°   | 67.5°  | 90°   |
|--------|--------|-------|-------|--------|-------|
| 112.5° | 368.1  | 373.3 | 381.4 | 388.1  | 386.6 |
| 115°   | 414.8  | 419.3 | 425.9 | 433.4  | 436.3 |
| 117.5° | 460.8  | 466.0 | 469.7 | 475.7  | 476.4 |
| 120°   | 503.1  | 509.8 | 512.0 | 518.0  | 518.0 |
| 122.5° | 546.2  | 551.4 | 554.3 | 558.0  | 558.8 |
| 125°   | 584.8  | 590.7 | 593.7 | 595.1  | 596.6 |
| 127.5° | 623.3  | 629.3 | 633.0 | 635.2  | 633.7 |
| 130°   | 659.0  | 664.9 | 667.9 | 670.8  | 669.3 |
| 132.5° | 693.1  | 699.0 | 701.3 | 704.2  | 702.0 |
| 135°   | 728.0  | 732.4 | 735.4 | 737.6  | 735.4 |
| 137.5° | 757.7  | 763.6 | 765.1 | 768.8  | 767.3 |
| 140°   | 787.3  | 791.8 | 794.0 | 797.0  | 795.5 |
| 142.5° | 814.8  | 819.2 | 821.5 | 823.7  | 821.5 |
| 145°   | 840.0  | 845.2 | 846.7 | 848.2  | 848.2 |
| 147.5° | 864.5  | 868.2 | 869.7 | 871.2  | 867.5 |
| 150°   | 886.8  | 889.0 | 890.5 | 892.0  | 889.7 |
| 152.5° | 906.8  | 907.6 | 908.3 | 911.3  | 907.6 |
| 155°   | 925.4  | 923.9 | 924.6 | 928.3  | 923.9 |
| 157.5° | 940.2  | 940.2 | 939.5 | 943.9  | 938.0 |
| 160°   | 953.6  | 952.8 | 952.1 | 956.5  | 951.3 |
| 162.5° | 966.2  | 963.9 | 963.2 | 968.4  | 963.9 |
| 165°   | 975.8  | 973.6 | 972.9 | 978.8  | 973.6 |
| 167.5° | 984.0  | 981.0 | 981.0 | 987.0  | 981.0 |
| 170°   | 990.7  | 987.7 | 987.7 | 993.6  | 987.7 |
| 172.5° | 995.1  | 991.4 | 992.1 | 998.1  | 991.4 |
| 175°   | 998.8  | 995.1 | 995.9 | 1001.1 | 995.1 |
| 177.5° | 1000.3 | 996.6 | 997.3 | 1003.3 | 995.9 |
| 180°   | 998.8  | 998.8 | 998.8 | 998.8  | 998.8 |

(END OF REPORT)