

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: P1035758

Luminaire Tested: S125RDIW-B1090D770UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035758  
REPORT IS A COMBINATION OF REPORTS P1006118 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B1090D770UB30-4F0-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**

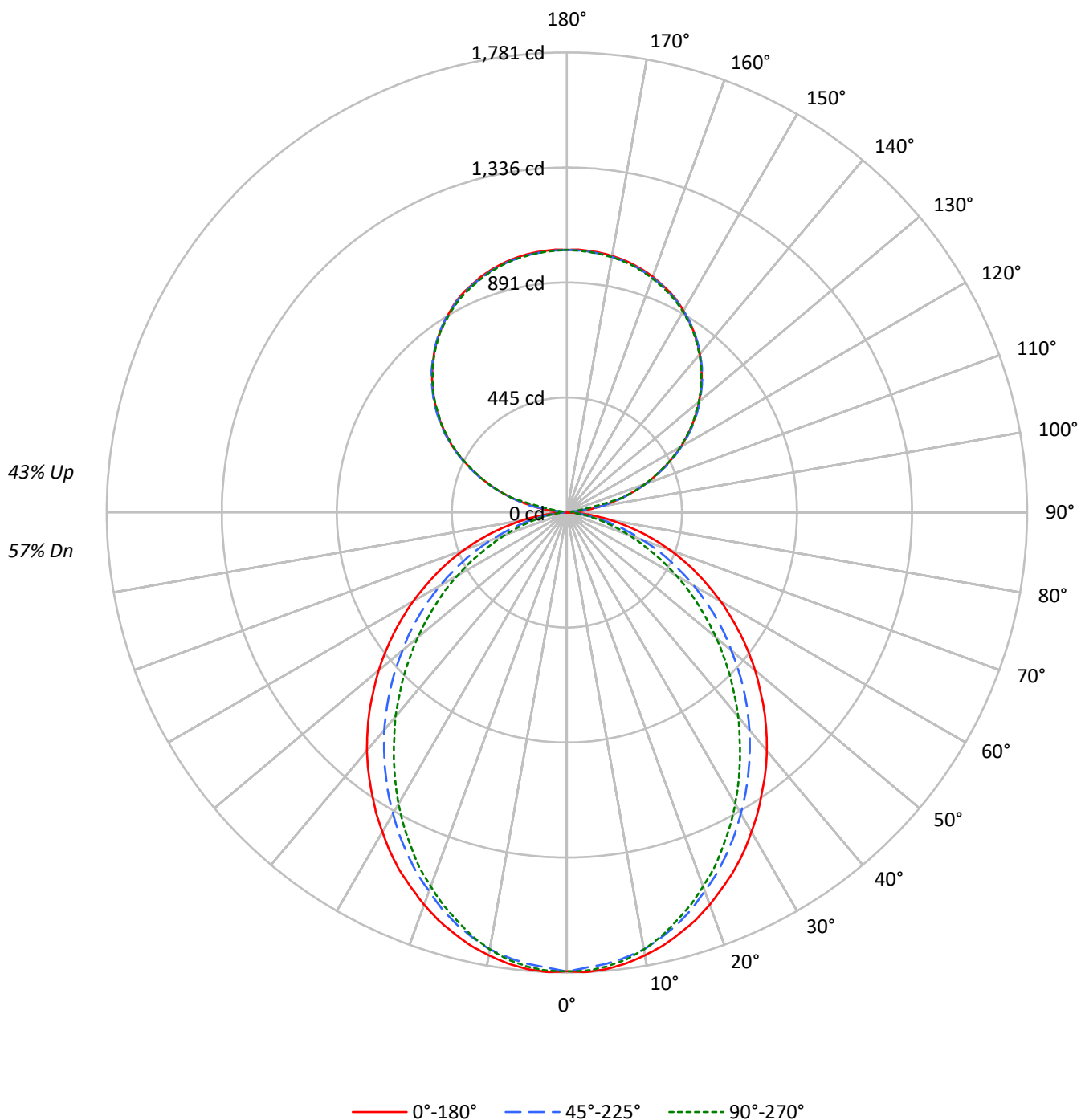
Lumens per Lamp: N/A  
Luminaire Lumens: 7323.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 |
| 1   | 100 | 95  | 92  | 88  | 93  | 89  | 86  | 83  | 77 | 75 | 72 | 66 | 64 | 63 | 56 | 55 | 54 |
| 2   | 91  | 84  | 78  | 72  | 85  | 78  | 73  | 68  | 68 | 64 | 60 | 58 | 55 | 53 | 50 | 47 | 46 |
| 3   | 83  | 74  | 66  | 61  | 77  | 69  | 63  | 57  | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 41 | 39 |
| 4   | 76  | 65  | 58  | 51  | 71  | 61  | 54  | 49  | 54 | 48 | 44 | 46 | 42 | 39 | 40 | 36 | 34 |
| 5   | 70  | 58  | 50  | 44  | 65  | 55  | 48  | 42  | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 32 | 30 |
| 6   | 65  | 53  | 44  | 39  | 60  | 49  | 42  | 37  | 43 | 38 | 33 | 38 | 33 | 30 | 33 | 29 | 26 |
| 7   | 60  | 48  | 40  | 34  | 56  | 45  | 38  | 32  | 39 | 34 | 29 | 34 | 30 | 26 | 30 | 26 | 23 |
| 8   | 56  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 36 | 30 | 26 | 32 | 27 | 24 | 27 | 24 | 21 |
| 9   | 52  | 40  | 32  | 27  | 48  | 37  | 30  | 26  | 33 | 27 | 24 | 29 | 25 | 21 | 25 | 22 | 19 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 19 | 24 | 20 | 17 |

**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

TEST NUMBER: P1035758

CATALOG NUMBER: S125RDIW-B1090D770UB30-4F0-XX-W2A-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.2  | 2.3       |
| 10°-20°   | 467.3  | 6.4       |
| 20°-30°   | 677.6  | 9.3       |
| 30°-40°   | 772.0  | 10.5      |
| 40°-50°   | 752.5  | 10.3      |
| 50°-60°   | 633.3  | 8.6       |
| 60°-70°   | 443.8  | 6.1       |
| 70°-80°   | 227.5  | 3.1       |
| 80°-90°   | 58.3   | 0.8       |
| 90°-100°  | 34.5   | 0.5       |
| 100°-110° | 229.5  | 3.1       |
| 110°-120° | 413.3  | 5.6       |
| 120°-130° | 530.4  | 7.2       |
| 130°-140° | 570.5  | 7.8       |
| 140°-150° | 535.5  | 7.3       |
| 150°-160° | 433.1  | 5.9       |
| 160°-170° | 280.1  | 3.8       |
| 170°-180° | 96.6   | 1.3       |
| 0°-30°    | 1312.2 | 17.9      |
| 0°-40°    | 2084.2 | 28.5      |
| 0°-60°    | 3470.0 | 47.4      |
| 0°-90°    | 4199.5 | 57.3      |
| 90°-120°  | 677.3  | 9.2       |
| 90°-150°  | 2313.7 | 31.6      |
| 90°-180°  | 3124.0 | 42.7      |
| 0°-180°   | 7323.0 | 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    | 7     | 12   | 16    | 18   | 6    |
| 95°  | 43   | 41    | 12   | 16    | 16   | 53   |
| 105° | 222  | 225   | 225  | 225   | 224  | 235  |
| 115° | 416  | 420   | 421  | 418   | 413  | 412  |
| 125° | 592  | 597   | 597  | 594   | 592  | 529  |
| 135° | 738  | 742   | 741  | 739   | 735  | 569  |
| 145° | 856  | 857   | 857  | 858   | 853  | 535  |
| 155° | 942  | 938   | 939  | 942   | 935  | 434  |
| 165° | 994  | 990   | 990  | 995   | 989  | 281  |
| 175° | 1017 | 1012  | 1013 | 1019  | 1012 | 97   |
| 180° | 1017 | 1017  | 1017 | 1017  | 1017 |      |

TEST NUMBER: P1035758

CATALOG NUMBER: S125RDIW-B1090D770UB30-4F0-XX-W2A-F

**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°    | 0.8    | 6.8    | 12.1   | 15.8   | 18.1   |
| 92.5°  | 14.3   | 7.5    | 12.1   | 15.8   | 16.6   |
| 95°    | 43.0   | 40.7   | 12.1   | 15.8   | 15.8   |
| 97.5°  | 80.7   | 85.2   | 13.6   | 15.1   | 15.8   |
| 100°   | 125.9  | 128.1  | 131.2  | 18.8   | 15.8   |
| 102.5° | 171.9  | 174.9  | 176.4  | 177.9  | 114.6  |
| 105°   | 221.6  | 224.6  | 224.6  | 224.6  | 223.9  |
| 107.5° | 272.9  | 272.9  | 274.4  | 275.1  | 272.1  |
| 110°   | 322.6  | 322.6  | 324.1  | 321.9  | 322.6  |



TEST NUMBER: P1035758

CATALOG NUMBER: S125RDIW-B1090D770UB30-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 369.3  | 371.6  | 372.4  | 369.3  | 367.8  |
| 115°   | 416.1  | 419.8  | 420.6  | 417.6  | 413.1  |
| 117.5° | 465.1  | 465.1  | 468.1  | 463.6  | 462.1  |
| 120°   | 510.3  | 509.5  | 511.8  | 510.3  | 506.5  |
| 122.5° | 550.2  | 554.0  | 554.8  | 553.3  | 548.7  |
| 125°   | 591.7  | 597.0  | 597.0  | 594.0  | 591.7  |
| 127.5° | 631.7  | 635.4  | 634.7  | 633.2  | 627.1  |
| 130°   | 667.8  | 671.6  | 672.4  | 670.1  | 666.3  |
| 132.5° | 704.0  | 708.5  | 706.3  | 706.3  | 702.5  |
| 135°   | 737.9  | 742.5  | 741.0  | 739.4  | 734.9  |
| 137.5° | 769.6  | 774.1  | 772.6  | 772.6  | 768.8  |
| 140°   | 800.5  | 802.0  | 801.3  | 802.8  | 798.2  |
| 142.5° | 828.4  | 829.1  | 830.7  | 830.7  | 826.1  |
| 145°   | 855.5  | 857.0  | 857.0  | 857.8  | 853.3  |
| 147.5° | 879.6  | 879.6  | 880.4  | 881.2  | 875.9  |
| 150°   | 902.3  | 900.8  | 902.3  | 903.8  | 897.7  |
| 152.5° | 924.1  | 920.3  | 921.9  | 923.4  | 918.1  |
| 155°   | 942.2  | 937.7  | 939.2  | 941.5  | 935.4  |
| 157.5° | 956.5  | 954.3  | 954.3  | 956.5  | 950.5  |
| 160°   | 971.6  | 967.1  | 967.8  | 970.9  | 964.8  |
| 162.5° | 983.7  | 979.1  | 979.9  | 984.4  | 977.6  |
| 165°   | 994.2  | 989.7  | 990.4  | 995.0  | 988.9  |
| 167.5° | 1002.5 | 998.0  | 998.7  | 1004.0 | 997.2  |
| 170°   | 1009.3 | 1004.0 | 1004.8 | 1010.8 | 1004.0 |
| 172.5° | 1013.8 | 1008.5 | 1010.0 | 1015.3 | 1008.5 |
| 175°   | 1016.8 | 1012.3 | 1013.1 | 1019.1 | 1012.3 |
| 177.5° | 1019.1 | 1014.6 | 1015.3 | 1020.6 | 1014.6 |
| 180°   | 1016.8 | 1016.8 | 1016.8 | 1016.8 | 1016.8 |

(END OF REPORT)