

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: P1028514

Luminaire Tested: S125RDIP-B1090D610UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028514  
REPORT IS A COMBINATION OF REPORTS P1005059 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIP-B1090D610UB30-4F0-XX-W2A-F1  
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

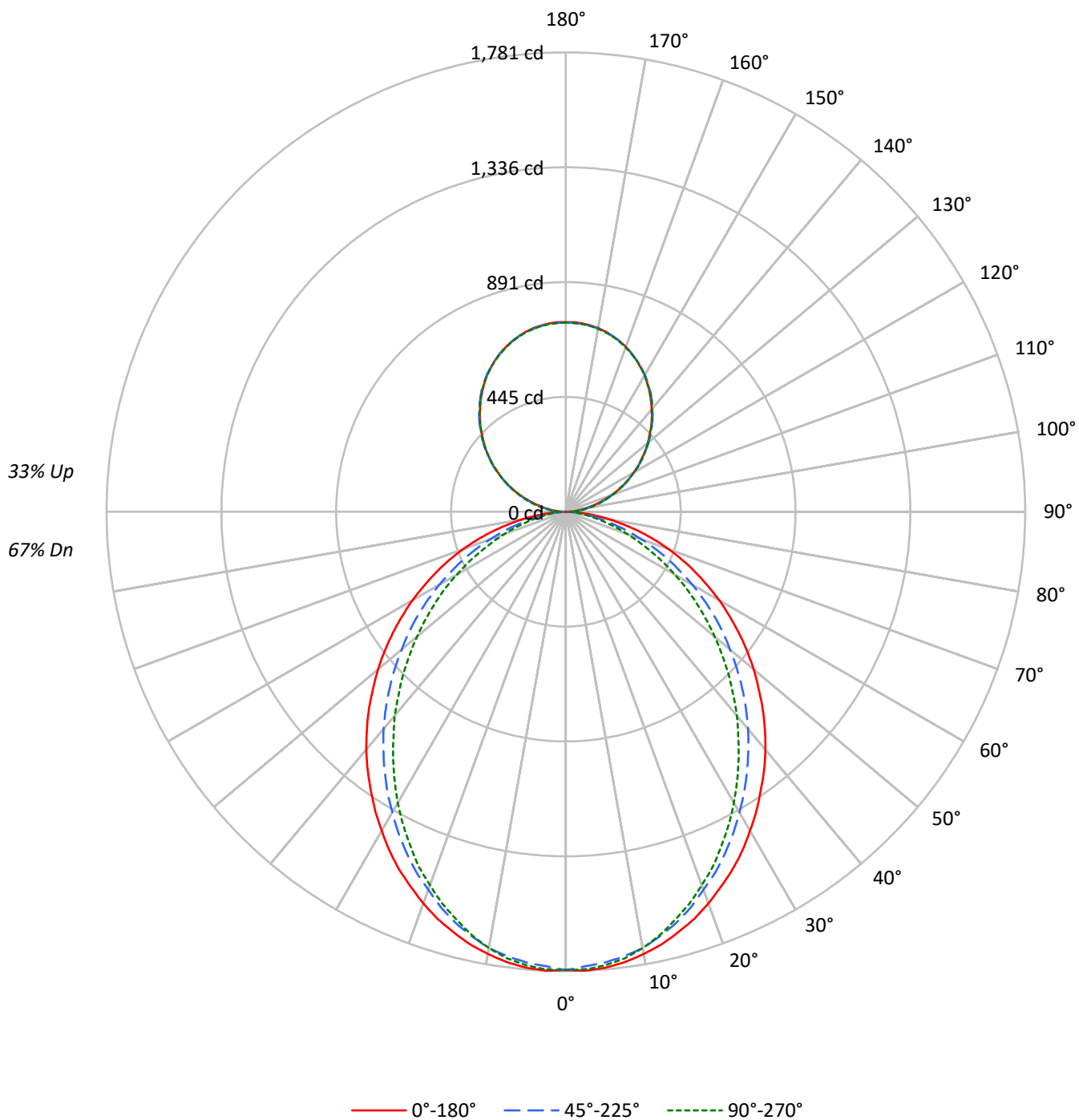
Lumens per Lamp: N/A  
Luminaire Lumens: 6249.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 62.2  
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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 |
| 1   | 102 | 98  | 94  | 90  | 96  | 92  | 89  | 86  | 82 | 79 | 77 | 73 | 71 | 69 | 64 | 63 | 61 |
| 2   | 93  | 86  | 79  | 74  | 88  | 81  | 76  | 71  | 72 | 68 | 64 | 64 | 61 | 58 | 57 | 54 | 52 |
| 3   | 85  | 76  | 68  | 62  | 80  | 72  | 65  | 60  | 64 | 59 | 54 | 57 | 53 | 49 | 51 | 47 | 45 |
| 4   | 78  | 67  | 59  | 53  | 73  | 64  | 56  | 51  | 57 | 51 | 47 | 51 | 46 | 43 | 45 | 42 | 39 |
| 5   | 72  | 60  | 52  | 46  | 67  | 57  | 50  | 44  | 51 | 45 | 41 | 46 | 41 | 37 | 41 | 37 | 34 |
| 6   | 66  | 54  | 46  | 40  | 62  | 51  | 44  | 38  | 46 | 40 | 36 | 42 | 37 | 33 | 37 | 33 | 30 |
| 7   | 61  | 49  | 41  | 35  | 58  | 47  | 39  | 34  | 42 | 36 | 32 | 38 | 33 | 29 | 34 | 30 | 27 |
| 8   | 57  | 45  | 37  | 31  | 54  | 43  | 35  | 30  | 39 | 33 | 28 | 35 | 30 | 26 | 31 | 27 | 24 |
| 9   | 53  | 41  | 33  | 28  | 50  | 39  | 32  | 27  | 36 | 30 | 25 | 32 | 27 | 24 | 29 | 25 | 22 |
| 10  | 50  | 38  | 30  | 25  | 47  | 36  | 29  | 25  | 33 | 27 | 23 | 30 | 25 | 21 | 27 | 23 | 20 |

**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  | 2.7       |
| 10°-20°   | 467.3  | 7.5       |
| 20°-30°   | 677.6  | 10.8      |
| 30°-40°   | 772.0  | 12.4      |
| 40°-50°   | 752.5  | 12.0      |
| 50°-60°   | 633.3  | 10.1      |
| 60°-70°   | 443.8  | 7.1       |
| 70°-80°   | 227.5  | 3.6       |
| 80°-90°   | 57.9   | 0.9       |
| 90°-100°  | 48.8   | 0.8       |
| 100°-110° | 145.1  | 2.3       |
| 110°-120° | 246.1  | 3.9       |
| 120°-130° | 323.9  | 5.2       |
| 130°-140° | 363.0  | 5.8       |
| 140°-150° | 355.8  | 5.7       |
| 150°-160° | 298.9  | 4.8       |
| 160°-170° | 198.7  | 3.2       |
| 170°-180° | 69.5   | 1.1       |
| 0°-30°    | 1312.2 | 21.0      |
| 0°-40°    | 2084.2 | 33.4      |
| 0°-60°    | 3470.0 | 55.5      |
| 0°-90°    | 4199.1 | 67.2      |
| 90°-120°  | 440.0  | 7.0       |
| 90°-150°  | 1482.8 | 23.7      |
| 90°-180°  | 2050.0 | 32.8      |
| 0°-180°   | 6249.0 | 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    | 5     | 9    | 12    | 14   | 7    |
| 95°  | 37   | 38    | 44   | 48    | 49   | 39   |
| 105° | 130  | 133   | 137  | 140   | 142  | 139  |
| 115° | 246  | 249   | 250  | 249   | 249  | 244  |
| 125° | 360  | 363   | 364  | 362   | 362  | 322  |
| 135° | 468  | 471   | 472  | 472   | 469  | 360  |
| 145° | 566  | 569   | 570  | 570   | 569  | 354  |
| 155° | 648  | 648   | 649  | 651   | 648  | 299  |
| 165° | 705  | 704   | 704  | 706   | 703  | 199  |
| 175° | 733  | 730   | 730  | 734   | 730  | 70   |
| 180° | 734  | 734   | 734  | 734   | 734  |      |

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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°    | 0.6    | 5.1    | 9.1    | 12.0   | 13.7   |
| 92.5°  | 17.1   | 20.0   | 25.1   | 29.2   | 30.3   |
| 95°    | 37.2   | 38.3   | 44.0   | 48.0   | 49.2   |
| 97.5°  | 57.2   | 57.7   | 65.7   | 69.2   | 69.7   |
| 100°   | 80.0   | 80.0   | 87.5   | 92.6   | 93.7   |
| 102.5° | 104.6  | 107.5  | 110.3  | 116.0  | 117.7  |
| 105°   | 130.3  | 133.2  | 136.6  | 140.0  | 141.8  |
| 107.5° | 158.3  | 161.2  | 164.0  | 165.8  | 165.8  |
| 110°   | 187.5  | 190.3  | 192.0  | 193.8  | 193.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 217.2 | 218.3 | 220.6 | 221.2 | 220.1 |
| 115°   | 246.3 | 248.6 | 249.8 | 249.2 | 248.6 |
| 117.5° | 276.1 | 276.6 | 277.8 | 278.4 | 276.1 |
| 120°   | 303.5 | 306.4 | 306.9 | 306.9 | 304.6 |
| 122.5° | 333.2 | 333.8 | 335.5 | 334.9 | 333.2 |
| 125°   | 359.5 | 363.0 | 363.5 | 362.4 | 361.8 |
| 127.5° | 388.7 | 390.4 | 391.0 | 390.4 | 389.2 |
| 130°   | 414.4 | 417.2 | 418.4 | 417.8 | 416.7 |
| 132.5° | 440.1 | 445.3 | 444.7 | 444.1 | 442.4 |
| 135°   | 467.5 | 471.0 | 471.5 | 471.5 | 469.3 |
| 137.5° | 493.3 | 496.7 | 497.8 | 498.4 | 495.6 |
| 140°   | 517.8 | 520.7 | 522.4 | 523.6 | 520.7 |
| 142.5° | 542.4 | 544.7 | 547.0 | 547.6 | 544.7 |
| 145°   | 566.4 | 568.7 | 570.4 | 570.4 | 568.7 |
| 147.5° | 588.7 | 590.4 | 591.6 | 593.3 | 588.7 |
| 150°   | 611.0 | 610.4 | 612.7 | 612.7 | 611.6 |
| 152.5° | 629.3 | 630.4 | 631.0 | 632.7 | 630.4 |
| 155°   | 648.2 | 648.2 | 648.7 | 651.0 | 648.2 |
| 157.5° | 665.3 | 664.2 | 664.7 | 667.0 | 663.0 |
| 160°   | 680.2 | 678.5 | 679.0 | 681.3 | 678.5 |
| 162.5° | 693.3 | 692.2 | 692.2 | 695.0 | 691.6 |
| 165°   | 704.8 | 703.6 | 704.2 | 706.5 | 703.0 |
| 167.5° | 715.0 | 712.8 | 712.8 | 716.2 | 712.8 |
| 170°   | 723.0 | 720.8 | 720.8 | 724.2 | 720.2 |
| 172.5° | 728.8 | 726.5 | 726.5 | 729.9 | 726.5 |
| 175°   | 732.8 | 730.5 | 730.5 | 733.9 | 729.9 |
| 177.5° | 735.6 | 733.3 | 732.8 | 736.2 | 732.2 |
| 180°   | 734.5 | 734.5 | 734.5 | 734.5 | 734.5 |

(END OF REPORT)