

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: P1028519

Luminaire Tested: S125RDIP-B1090D610UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028519  
REPORT IS A COMBINATION OF REPORTS P1005064 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIP-B1090D610UB35-4F0-XX-W2A-F  
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

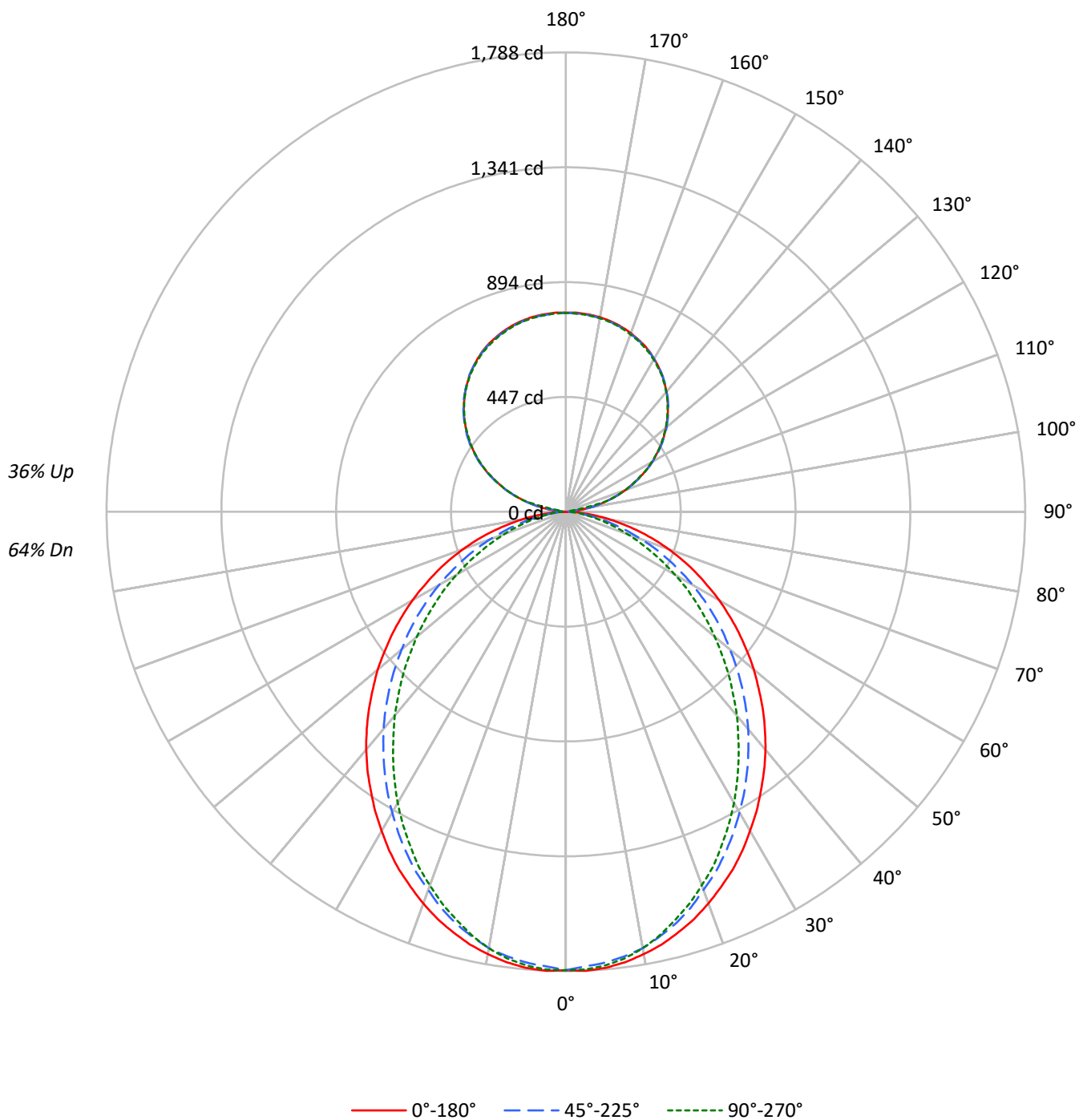
Lumens per Lamp: N/A  
Luminaire Lumens: 6596.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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   | 110 | 110 | 110 | 110 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 69 | 69 | 69 |
| 1   | 101 | 97  | 93  | 90  | 95  | 91  | 88  | 85  | 80 | 78 | 76 | 71 | 69 | 67 | 61 | 60 | 59 |
| 2   | 92  | 85  | 79  | 74  | 87  | 80  | 75  | 70  | 71 | 67 | 63 | 62 | 59 | 56 | 54 | 52 | 50 |
| 3   | 84  | 75  | 68  | 62  | 79  | 71  | 64  | 59  | 63 | 58 | 53 | 55 | 51 | 48 | 48 | 45 | 43 |
| 4   | 77  | 67  | 59  | 52  | 72  | 63  | 56  | 50  | 56 | 50 | 46 | 49 | 45 | 41 | 43 | 40 | 37 |
| 5   | 71  | 59  | 51  | 45  | 67  | 56  | 49  | 43  | 50 | 44 | 40 | 45 | 40 | 36 | 39 | 36 | 32 |
| 6   | 66  | 54  | 45  | 39  | 62  | 51  | 43  | 38  | 45 | 39 | 35 | 40 | 35 | 32 | 36 | 32 | 29 |
| 7   | 61  | 48  | 40  | 35  | 57  | 46  | 39  | 33  | 41 | 35 | 31 | 37 | 32 | 28 | 33 | 29 | 26 |
| 8   | 57  | 44  | 36  | 31  | 53  | 42  | 35  | 30  | 38 | 32 | 28 | 34 | 29 | 25 | 30 | 26 | 23 |
| 9   | 53  | 40  | 33  | 28  | 50  | 38  | 31  | 27  | 35 | 29 | 25 | 31 | 26 | 23 | 28 | 24 | 21 |
| 10  | 49  | 37  | 30  | 25  | 47  | 35  | 29  | 24  | 32 | 26 | 22 | 29 | 24 | 21 | 26 | 22 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11433 | 11433 | 11433 |
| 5°  | 11434 | 11148 | 11166 |
| 10° | 11323 | 10867 | 10771 |
| 15° | 11162 | 10474 | 10253 |
| 20° | 10964 | 10001 | 9708  |
| 25° | 10737 | 9539  | 9125  |
| 30° | 10458 | 9031  | 8512  |
| 35° | 10174 | 8515  | 7861  |
| 40° | 9903  | 7985  | 7225  |
| 45° | 9579  | 7414  | 6560  |
| 50° | 9250  | 6807  | 5881  |
| 55° | 8867  | 6209  | 5179  |
| 60° | 8476  | 5525  | 4451  |
| 65° | 8009  | 4762  | 3665  |
| 70° | 7466  | 3876  | 2884  |
| 75° | 6714  | 2915  | 2102  |
| 80° | 5662  | 1887  | 1418  |
| 85° | 4237  | 1013  | 798   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9579 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.9  | 2.5       |
| 10°-20°   | 469.3  | 7.1       |
| 20°-30°   | 680.5  | 10.3      |
| 30°-40°   | 775.3  | 11.8      |
| 40°-50°   | 755.7  | 11.5      |
| 50°-60°   | 636.0  | 9.6       |
| 60°-70°   | 445.7  | 6.8       |
| 70°-80°   | 228.5  | 3.5       |
| 80°-90°   | 58.1   | 0.9       |
| 90°-100°  | 26.3   | 0.4       |
| 100°-110° | 174.8  | 2.6       |
| 110°-120° | 314.7  | 4.8       |
| 120°-130° | 404.0  | 6.1       |
| 130°-140° | 434.5  | 6.6       |
| 140°-150° | 407.8  | 6.2       |
| 150°-160° | 329.9  | 5.0       |
| 160°-170° | 213.3  | 3.2       |
| 170°-180° | 73.6   | 1.1       |
| 0°-30°    | 1317.8 | 20.0      |
| 0°-40°    | 2093.2 | 31.7      |
| 0°-60°    | 3484.9 | 52.8      |
| 0°-90°    | 4217.2 | 63.9      |
| 90°-120°  | 515.8  | 7.8       |
| 90°-150°  | 1762.1 | 26.7      |
| 90°-180°  | 2379.0 | 36.1      |
| 0°-180°   | 6596.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1784 | 1784  | 1784 | 1784  | 1784 |      |
| 5°   | 1782 | 1776  | 1762 | 1775  | 1772 | 169  |
| 15°  | 1694 | 1686  | 1658 | 1656  | 1644 | 478  |
| 25°  | 1536 | 1516  | 1466 | 1449  | 1434 | 707  |
| 35°  | 1324 | 1291  | 1230 | 1191  | 1173 | 829  |
| 45°  | 1084 | 1044  | 970  | 916   | 896  | 836  |
| 55°  | 822  | 779   | 704  | 643   | 621  | 735  |
| 65°  | 557  | 511   | 439  | 386   | 365  | 551  |
| 75°  | 296  | 256   | 200  | 170   | 160  | 313  |
| 85°  | 74   | 50    | 43   | 42    | 40   | 81   |
| 90°  | 1    | 5     | 9    | 12    | 14   | 6    |
| 95°  | 33   | 31    | 9    | 12    | 12   | 40   |
| 105° | 169  | 171   | 171  | 171   | 170  | 179  |
| 115° | 317  | 320   | 320  | 318   | 315  | 314  |
| 125° | 451  | 455   | 455  | 452   | 451  | 403  |
| 135° | 562  | 566   | 564  | 563   | 560  | 433  |
| 145° | 652  | 653   | 653  | 653   | 650  | 408  |
| 155° | 718  | 714   | 715  | 717   | 712  | 331  |
| 165° | 757  | 754   | 754  | 758   | 753  | 214  |
| 175° | 774  | 771   | 772  | 776   | 771  | 74   |
| 180° | 774  | 774   | 774  | 774   | 774  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1784.4 | 1784.4 | 1784.4 | 1784.4 | 1784.4 |
| 2.5°   | 1788.5 | 1784.4 | 1771.0 | 1784.4 | 1783.1 |
| 5°     | 1781.7 | 1776.4 | 1761.5 | 1775.0 | 1772.3 |
| 7.5°   | 1768.3 | 1762.9 | 1745.4 | 1756.1 | 1753.4 |
| 10°    | 1748.1 | 1744.0 | 1725.1 | 1729.2 | 1725.1 |
| 12.5°  | 1725.1 | 1719.7 | 1692.8 | 1695.5 | 1688.8 |
| 15°    | 1694.1 | 1686.1 | 1657.8 | 1656.4 | 1644.3 |
| 17.5°  | 1661.8 | 1649.7 | 1616.0 | 1609.2 | 1599.8 |
| 20°    | 1622.7 | 1609.2 | 1566.1 | 1559.4 | 1547.2 |
| 22.5°  | 1579.6 | 1566.1 | 1520.3 | 1505.5 | 1496.0 |
| 25°    | 1536.5 | 1516.2 | 1466.4 | 1448.8 | 1434.0 |
| 27.5°  | 1487.9 | 1463.7 | 1411.1 | 1388.2 | 1373.4 |
| 30°    | 1434.0 | 1408.4 | 1351.8 | 1320.8 | 1308.7 |
| 32.5°  | 1381.5 | 1350.5 | 1292.5 | 1257.5 | 1241.3 |
| 35°    | 1323.5 | 1291.2 | 1230.5 | 1191.4 | 1172.6 |
| 37.5°  | 1268.2 | 1229.2 | 1167.2 | 1121.3 | 1102.5 |
| 40°    | 1208.9 | 1168.5 | 1103.8 | 1052.6 | 1036.4 |
| 42.5°  | 1146.9 | 1105.2 | 1037.8 | 989.3  | 963.7  |
| 45°    | 1083.6 | 1044.5 | 970.4  | 916.5  | 896.3  |
| 47.5°  | 1017.6 | 977.1  | 903.0  | 847.7  | 824.8  |
| 50°    | 955.6  | 911.1  | 834.3  | 777.7  | 757.4  |
| 52.5°  | 888.2  | 842.4  | 770.9  | 708.9  | 688.7  |
| 55°    | 822.1  | 779.0  | 703.5  | 642.9  | 621.3  |
| 57.5°  | 754.7  | 708.9  | 636.1  | 576.8  | 558.0  |
| 60°    | 690.1  | 642.9  | 570.1  | 510.8  | 490.6  |
| 62.5°  | 621.3  | 576.8  | 502.7  | 448.8  | 428.6  |
| 65°    | 556.6  | 510.8  | 439.4  | 385.5  | 365.2  |
| 67.5°  | 491.9  | 446.1  | 377.4  | 326.2  | 310.0  |
| 70°    | 425.9  | 380.1  | 312.7  | 270.9  | 254.7  |
| 72.5°  | 361.2  | 316.7  | 254.7  | 217.0  | 207.6  |
| 75°    | 296.5  | 256.1  | 199.5  | 169.8  | 160.4  |
| 77.5°  | 230.5  | 198.1  | 150.9  | 128.0  | 120.0  |
| 80°    | 175.2  | 142.9  | 105.1  | 93.0   | 90.3   |
| 82.5°  | 121.3  | 93.0   | 70.1   | 66.0   | 64.7   |
| 85°    | 74.1   | 49.9   | 43.1   | 41.8   | 40.4   |
| 87.5°  | 31.0   | 21.6   | 20.2   | 20.2   | 18.9   |
| 90°    | 0.6    | 5.2    | 9.2    | 12.1   | 13.8   |
| 92.5°  | 10.9   | 5.7    | 9.2    | 12.1   | 12.6   |
| 95°    | 32.7   | 31.0   | 9.2    | 12.1   | 12.1   |
| 97.5°  | 61.4   | 64.9   | 10.3   | 11.5   | 12.1   |
| 100°   | 95.9   | 97.6   | 99.9   | 14.4   | 12.1   |
| 102.5° | 130.9  | 133.2  | 134.3  | 135.5  | 87.3   |
| 105°   | 168.8  | 171.1  | 171.1  | 171.1  | 170.5  |
| 107.5° | 207.8  | 207.8  | 209.0  | 209.5  | 207.2  |
| 110°   | 245.7  | 245.7  | 246.8  | 245.1  | 245.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 281.3 | 283.0 | 283.6 | 281.3 | 280.1 |
| 115°   | 316.9 | 319.8 | 320.3 | 318.0 | 314.6 |
| 117.5° | 354.2 | 354.2 | 356.5 | 353.1 | 351.9 |
| 120°   | 388.6 | 388.1 | 389.8 | 388.6 | 385.8 |
| 122.5° | 419.1 | 421.9 | 422.5 | 421.4 | 417.9 |
| 125°   | 450.6 | 454.7 | 454.7 | 452.4 | 450.6 |
| 127.5° | 481.1 | 483.9 | 483.4 | 482.2 | 477.6 |
| 130°   | 508.6 | 511.5 | 512.1 | 510.3 | 507.5 |
| 132.5° | 536.2 | 539.6 | 537.9 | 537.9 | 535.0 |
| 135°   | 562.0 | 565.5 | 564.3 | 563.2 | 559.7 |
| 137.5° | 586.1 | 589.6 | 588.4 | 588.4 | 585.6 |
| 140°   | 609.7 | 610.8 | 610.2 | 611.4 | 607.9 |
| 142.5° | 630.9 | 631.5 | 632.6 | 632.6 | 629.2 |
| 145°   | 651.6 | 652.7 | 652.7 | 653.3 | 649.8 |
| 147.5° | 669.9 | 669.9 | 670.5 | 671.1 | 667.1 |
| 150°   | 687.2 | 686.0 | 687.2 | 688.3 | 683.7 |
| 152.5° | 703.8 | 700.9 | 702.1 | 703.2 | 699.2 |
| 155°   | 717.6 | 714.1 | 715.3 | 717.0 | 712.4 |
| 157.5° | 728.5 | 726.8 | 726.8 | 728.5 | 723.9 |
| 160°   | 740.0 | 736.5 | 737.1 | 739.4 | 734.8 |
| 162.5° | 749.2 | 745.7 | 746.3 | 749.7 | 744.6 |
| 165°   | 757.2 | 753.8 | 754.3 | 757.8 | 753.2 |
| 167.5° | 763.5 | 760.1 | 760.6 | 764.7 | 759.5 |
| 170°   | 768.7 | 764.7 | 765.2 | 769.8 | 764.7 |
| 172.5° | 772.1 | 768.1 | 769.3 | 773.3 | 768.1 |
| 175°   | 774.4 | 771.0 | 771.5 | 776.1 | 771.0 |
| 177.5° | 776.1 | 772.7 | 773.3 | 777.3 | 772.7 |
| 180°   | 774.4 | 774.4 | 774.4 | 774.4 | 774.4 |

(END OF REPORT)