

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: P1026806

Luminaire Tested: S125DIP-B1270D610UB2750-4F0-XX-W2A-D\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026806  
REPORT IS A COMBINATION OF REPORTS P1001715 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D610UB2750-4F0-XX-W2A-D\_3500K  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

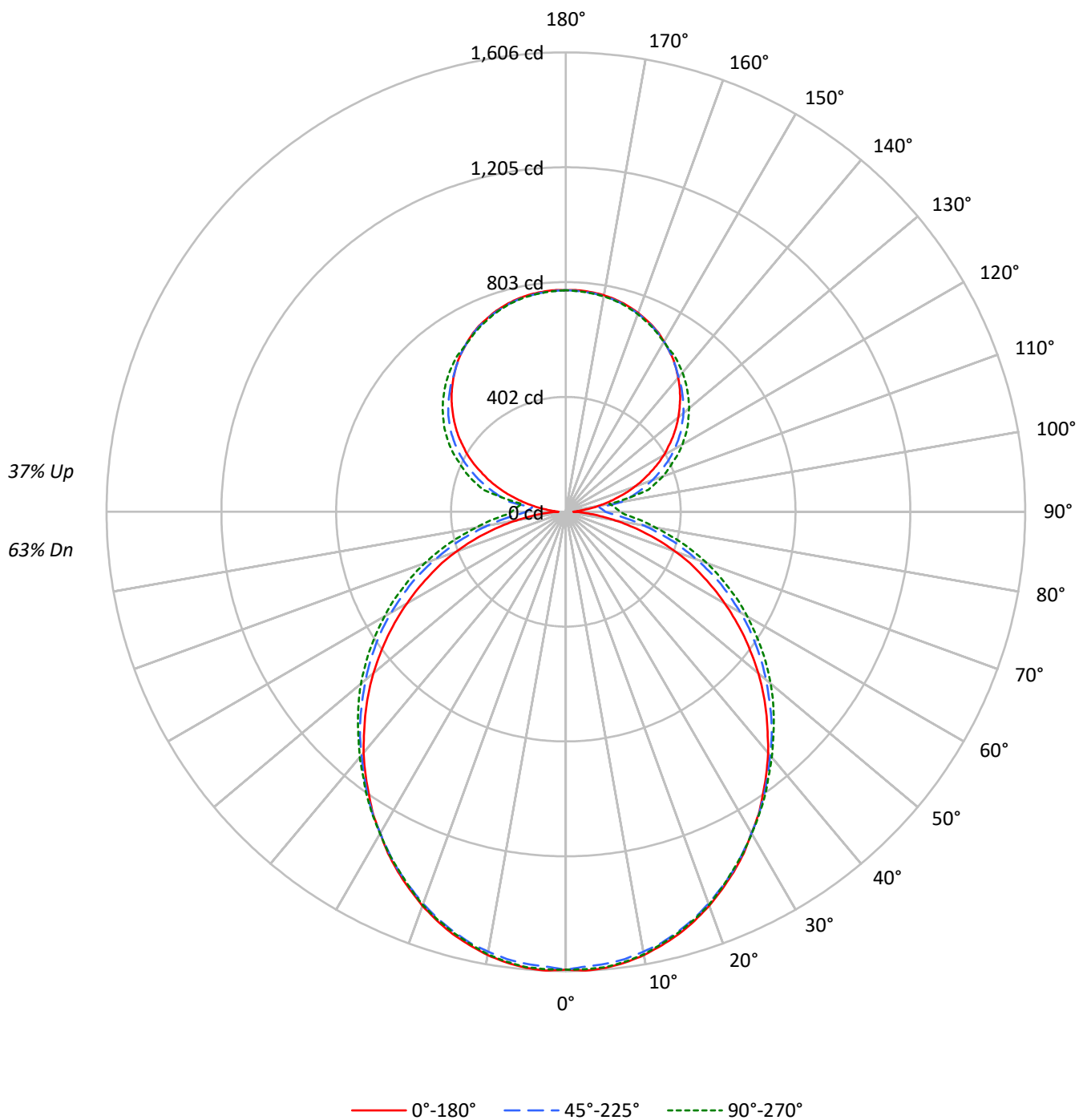
Lumens per Lamp: N/A  
Luminaire Lumens: 7339.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 76.7  
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 | 79 | 79 | 79 | 68 | 68 | 68 |
| 1   | 100 | 95  | 91  | 87  | 93  | 89  | 85  | 82  | 78 | 75 | 73 | 68 | 66 | 64 | 59 | 57 | 56 |
| 2   | 91  | 82  | 76  | 70  | 85  | 77  | 72  | 67  | 68 | 64 | 60 | 59 | 56 | 53 | 51 | 49 | 46 |
| 3   | 82  | 72  | 64  | 58  | 77  | 68  | 61  | 55  | 60 | 54 | 50 | 52 | 48 | 44 | 45 | 42 | 39 |
| 4   | 75  | 64  | 55  | 49  | 70  | 60  | 52  | 47  | 53 | 47 | 42 | 46 | 42 | 38 | 40 | 37 | 33 |
| 5   | 69  | 57  | 48  | 42  | 64  | 54  | 46  | 40  | 47 | 41 | 36 | 42 | 37 | 33 | 36 | 32 | 29 |
| 6   | 64  | 51  | 42  | 36  | 59  | 48  | 40  | 35  | 43 | 36 | 32 | 38 | 32 | 28 | 33 | 29 | 25 |
| 7   | 59  | 46  | 38  | 32  | 55  | 43  | 36  | 30  | 39 | 32 | 28 | 34 | 29 | 25 | 30 | 26 | 23 |
| 8   | 55  | 42  | 34  | 28  | 51  | 40  | 32  | 27  | 35 | 29 | 25 | 31 | 26 | 22 | 28 | 23 | 20 |
| 9   | 51  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 32 | 26 | 22 | 29 | 24 | 20 | 25 | 21 | 18 |
| 10  | 48  | 35  | 28  | 23  | 45  | 33  | 26  | 22  | 30 | 24 | 20 | 27 | 22 | 18 | 24 | 19 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10256 | 10256 | 10256 |
| 5°  | 10273 | 10042 | 10066 |
| 10° | 10196 | 9837  | 9809  |
| 15° | 10072 | 9599  | 9492  |
| 20° | 9904  | 9311  | 9178  |
| 25° | 9706  | 9004  | 8798  |
| 30° | 9466  | 8671  | 8452  |
| 35° | 9241  | 8362  | 8133  |
| 40° | 9013  | 8038  | 7812  |
| 45° | 8754  | 7757  | 7523  |
| 50° | 8507  | 7452  | 7263  |
| 55° | 8210  | 7161  | 6960  |
| 60° | 7884  | 6830  | 6649  |
| 65° | 7543  | 6479  | 6301  |
| 70° | 7152  | 6011  | 5936  |
| 75° | 6539  | 5549  | 5492  |
| 80° | 5729  | 4988  | 5002  |
| 85° | 4934  | 4538  | 4743  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.5  | 2.1       |
| 10°-20°   | 430.0  | 5.9       |
| 20°-30°   | 639.5  | 8.7       |
| 30°-40°   | 757.3  | 10.3      |
| 40°-50°   | 782.9  | 10.7      |
| 50°-60°   | 721.2  | 9.8       |
| 60°-70°   | 583.0  | 7.9       |
| 70°-80°   | 390.1  | 5.3       |
| 80°-90°   | 202.8  | 2.8       |
| 90°-100°  | 139.9  | 1.9       |
| 100°-110° | 258.5  | 3.5       |
| 110°-120° | 370.8  | 5.1       |
| 120°-130° | 435.7  | 5.9       |
| 130°-140° | 448.4  | 6.1       |
| 140°-150° | 410.5  | 5.6       |
| 150°-160° | 329.9  | 4.5       |
| 160°-170° | 213.3  | 2.9       |
| 170°-180° | 73.6   | 1.0       |
| 0°-30°    | 1221.0 | 16.6      |
| 0°-40°    | 1978.3 | 27.0      |
| 0°-60°    | 3482.4 | 47.5      |
| 0°-90°    | 4658.4 | 63.5      |
| 90°-120°  | 769.2  | 10.5      |
| 90°-150°  | 2063.8 | 28.1      |
| 90°-180°  | 2681.0 | 36.5      |
| 0°-180°   | 7339.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1601 | 1601  | 1601 | 1601  | 1601 |      |
| 5°   | 1601 | 1598  | 1587 | 1599  | 1598 | 152  |
| 15°  | 1529 | 1530  | 1519 | 1529  | 1522 | 431  |
| 25°  | 1389 | 1394  | 1384 | 1390  | 1383 | 639  |
| 35°  | 1202 | 1213  | 1208 | 1213  | 1213 | 753  |
| 45°  | 990  | 1008  | 1015 | 1026  | 1028 | 764  |
| 55°  | 761  | 786   | 811  | 829   | 835  | 680  |
| 65°  | 524  | 560   | 598  | 622   | 628  | 520  |
| 75°  | 289  | 330   | 380  | 411   | 419  | 306  |
| 85°  | 86   | 138   | 193  | 228   | 240  | 90   |
| 90°  | 26   | 80    | 138  | 177   | 190  | 19   |
| 95°  | 53   | 92    | 124  | 161   | 172  | 56   |
| 105° | 183  | 210   | 257  | 289   | 299  | 194  |
| 115° | 326  | 340   | 382  | 408   | 414  | 323  |
| 125° | 457  | 459   | 491  | 514   | 520  | 408  |
| 135° | 565  | 567   | 577  | 596   | 600  | 436  |
| 145° | 653  | 653   | 653  | 661   | 664  | 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°     | 1600.8 | 1600.8 | 1600.8 | 1600.8 | 1600.8 |
| 2.5°   | 1605.5 | 1602.4 | 1591.4 | 1602.4 | 1600.8 |
| 5°     | 1600.8 | 1597.7 | 1586.7 | 1599.2 | 1597.7 |
| 7.5°   | 1589.8 | 1588.2 | 1577.3 | 1588.2 | 1586.7 |
| 10°    | 1574.1 | 1574.1 | 1561.6 | 1572.6 | 1571.0 |
| 12.5°  | 1552.1 | 1553.7 | 1544.3 | 1552.1 | 1547.4 |
| 15°    | 1528.6 | 1530.2 | 1519.2 | 1528.6 | 1522.3 |
| 17.5°  | 1498.8 | 1501.9 | 1490.9 | 1498.8 | 1494.1 |
| 20°    | 1465.8 | 1469.0 | 1458.0 | 1462.7 | 1462.7 |
| 22.5°  | 1428.2 | 1434.4 | 1421.9 | 1428.2 | 1423.5 |
| 25°    | 1388.9 | 1393.6 | 1384.2 | 1390.5 | 1382.7 |
| 27.5°  | 1346.6 | 1352.8 | 1341.8 | 1346.6 | 1343.4 |
| 30°    | 1297.9 | 1307.3 | 1297.9 | 1301.0 | 1299.5 |
| 32.5°  | 1254.0 | 1261.8 | 1255.5 | 1258.7 | 1257.1 |
| 35°    | 1202.2 | 1213.2 | 1208.4 | 1213.2 | 1213.2 |
| 37.5°  | 1151.9 | 1161.4 | 1159.8 | 1166.1 | 1164.5 |
| 40°    | 1100.2 | 1112.7 | 1111.1 | 1117.4 | 1120.6 |
| 42.5°  | 1043.7 | 1060.9 | 1065.6 | 1073.5 | 1073.5 |
| 45°    | 990.3  | 1007.6 | 1015.4 | 1026.4 | 1028.0 |
| 47.5°  | 935.4  | 951.1  | 963.6  | 979.3  | 982.5  |
| 50°    | 878.9  | 896.1  | 913.4  | 930.7  | 935.4  |
| 52.5°  | 819.2  | 841.2  | 863.2  | 882.0  | 885.1  |
| 55°    | 761.2  | 786.3  | 811.4  | 828.6  | 834.9  |
| 57.5°  | 701.5  | 731.3  | 759.6  | 778.4  | 783.1  |
| 60°    | 641.9  | 673.3  | 704.7  | 728.2  | 732.9  |
| 62.5°  | 583.8  | 615.2  | 649.7  | 676.4  | 682.7  |
| 65°    | 524.2  | 560.3  | 597.9  | 621.5  | 627.8  |
| 67.5°  | 469.3  | 503.8  | 541.4  | 569.7  | 577.5  |
| 70°    | 408.0  | 444.1  | 484.9  | 514.8  | 524.2  |
| 72.5°  | 348.4  | 386.1  | 431.6  | 464.5  | 470.8  |
| 75°    | 288.8  | 329.6  | 379.8  | 411.2  | 419.0  |
| 77.5°  | 230.7  | 277.8  | 324.9  | 359.4  | 365.7  |
| 80°    | 177.3  | 224.4  | 277.8  | 312.3  | 318.6  |
| 82.5°  | 128.7  | 178.9  | 233.8  | 266.8  | 279.4  |
| 85°    | 86.3   | 138.1  | 193.0  | 227.6  | 240.1  |
| 87.5°  | 54.9   | 105.2  | 158.5  | 194.6  | 205.6  |
| 90°    | 25.7   | 80.5   | 137.9  | 176.9  | 189.6  |
| 92.5°  | 32.9   | 73.2   | 131.6  | 169.0  | 180.5  |
| 95°    | 53.1   | 92.2   | 123.8  | 161.2  | 172.2  |
| 97.5°  | 80.2   | 121.4  | 118.6  | 152.7  | 164.3  |
| 100°   | 113.2  | 147.8  | 200.3  | 147.8  | 154.9  |
| 102.5° | 146.6  | 178.7  | 228.5  | 261.1  | 222.3  |
| 105°   | 182.9  | 210.3  | 257.4  | 288.8  | 299.2  |
| 107.5° | 220.4  | 242.3  | 289.0  | 320.9  | 328.0  |
| 110°   | 256.7  | 275.5  | 320.6  | 348.7  | 360.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 292.3 | 308.1 | 351.1 | 377.0 | 386.8 |
| 115°   | 326.3 | 340.2 | 381.5 | 407.5 | 413.5 |
| 117.5° | 362.0 | 369.9 | 411.4 | 434.7 | 444.5 |
| 120°   | 396.4 | 400.7 | 438.5 | 463.9 | 470.5 |
| 122.5° | 425.4 | 429.7 | 464.9 | 488.9 | 494.8 |
| 125°   | 456.9 | 459.4 | 490.8 | 513.6 | 519.7 |
| 127.5° | 485.8 | 487.0 | 513.2 | 535.6 | 540.4 |
| 130°   | 513.3 | 514.6 | 537.2 | 557.4 | 562.4 |
| 132.5° | 539.3 | 542.7 | 556.7 | 578.7 | 582.1 |
| 135°   | 565.1 | 567.1 | 576.9 | 596.2 | 600.5 |
| 137.5° | 589.2 | 591.2 | 596.2 | 615.1 | 618.6 |
| 140°   | 611.3 | 612.4 | 613.3 | 631.8 | 634.6 |
| 142.5° | 632.5 | 631.5 | 632.6 | 646.7 | 649.6 |
| 145°   | 653.2 | 652.7 | 652.7 | 661.1 | 663.9 |
| 147.5° | 669.9 | 669.9 | 670.5 | 674.2 | 673.4 |
| 150°   | 687.2 | 686.0 | 687.2 | 688.3 | 685.3 |
| 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)