

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: P1026805

Luminaire Tested: S125DIP-B1270D610UB2750-4F0-XX-W2A-D\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026805  
REPORT IS A COMBINATION OF REPORTS P1001714 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\_3000K  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

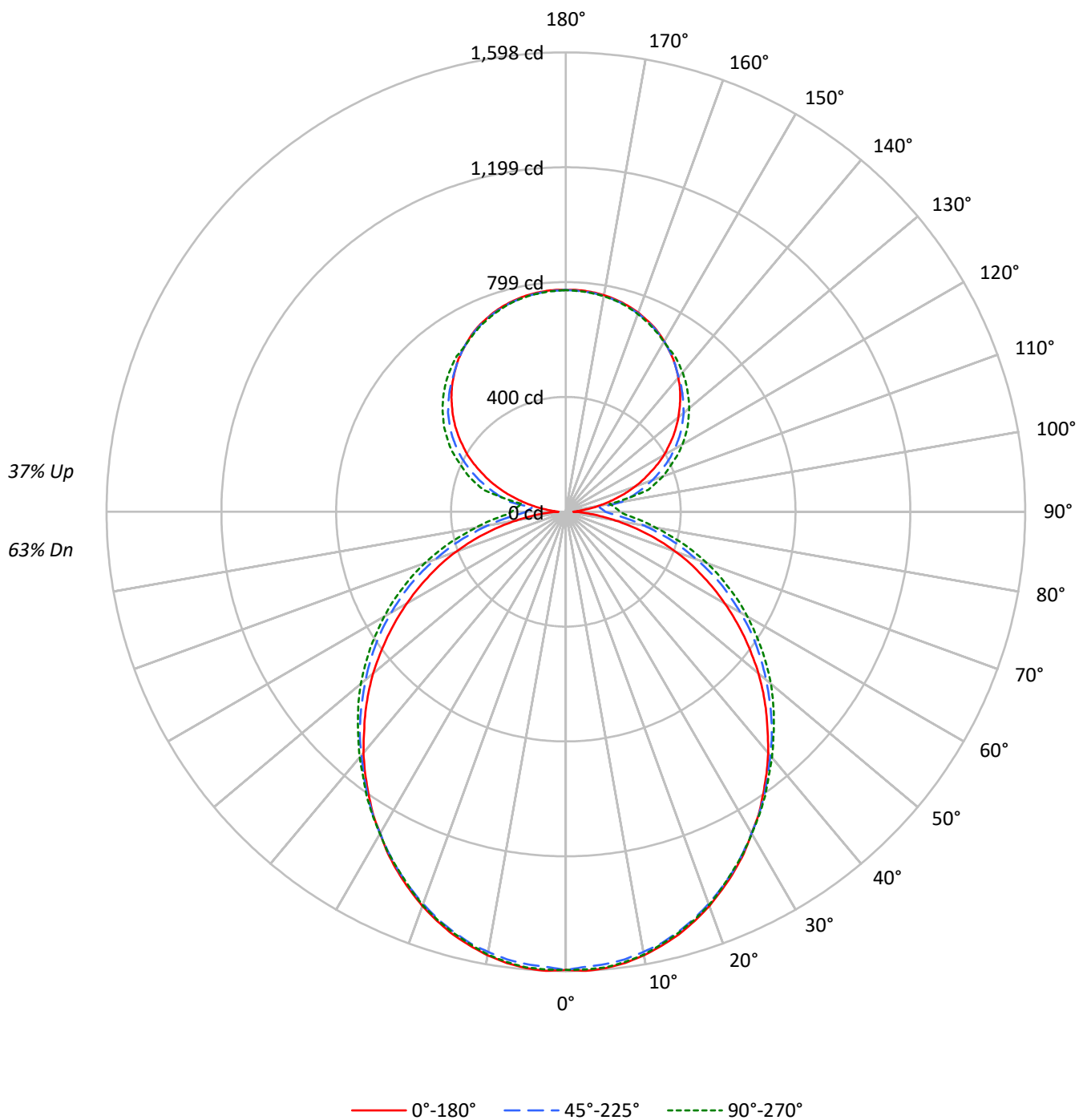
Lumens per Lamp: N/A  
Luminaire Lumens: 7307.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 79 | 79 | 79 | 68 | 68 | 68 | 68 | 68 | 68 |
| 1   | 100 | 95  | 91  | 87  | 93  | 89  | 85  | 82  | 78 | 75 | 73 | 68 | 66 | 64 | 59 | 57 | 56 | 56 | 56 | 52 |
| 2   | 91  | 82  | 76  | 70  | 85  | 77  | 72  | 67  | 68 | 64 | 60 | 59 | 56 | 53 | 51 | 49 | 46 | 46 | 46 | 42 |
| 3   | 82  | 72  | 64  | 58  | 77  | 68  | 61  | 55  | 60 | 54 | 50 | 52 | 48 | 44 | 45 | 42 | 39 | 39 | 39 | 35 |
| 4   | 75  | 64  | 55  | 49  | 70  | 60  | 52  | 47  | 53 | 47 | 42 | 46 | 42 | 38 | 40 | 37 | 33 | 33 | 33 | 30 |
| 5   | 69  | 57  | 48  | 42  | 64  | 54  | 46  | 40  | 47 | 41 | 36 | 42 | 37 | 33 | 36 | 32 | 29 | 29 | 29 | 26 |
| 6   | 64  | 51  | 42  | 36  | 59  | 48  | 40  | 35  | 43 | 36 | 32 | 38 | 32 | 28 | 33 | 29 | 25 | 25 | 25 | 23 |
| 7   | 59  | 46  | 38  | 32  | 55  | 43  | 36  | 30  | 39 | 32 | 28 | 34 | 29 | 25 | 30 | 26 | 23 | 23 | 23 | 20 |
| 8   | 55  | 42  | 34  | 28  | 51  | 40  | 32  | 27  | 35 | 29 | 25 | 31 | 26 | 22 | 28 | 23 | 20 | 20 | 20 | 18 |
| 9   | 51  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 32 | 26 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 18 | 18 | 16 |
| 10  | 48  | 35  | 28  | 23  | 45  | 33  | 26  | 22  | 30 | 24 | 20 | 27 | 22 | 18 | 24 | 19 | 17 | 17 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10211 | 10211 | 10211 |
| 5°  | 10228 | 9997  | 10021 |
| 10° | 10151 | 9793  | 9765  |
| 15° | 10027 | 9556  | 9450  |
| 20° | 9860  | 9269  | 9137  |
| 25° | 9663  | 8965  | 8759  |
| 30° | 9423  | 8632  | 8414  |
| 35° | 9200  | 8326  | 8097  |
| 40° | 8973  | 8003  | 7777  |
| 45° | 8715  | 7723  | 7490  |
| 50° | 8469  | 7419  | 7230  |
| 55° | 8173  | 7129  | 6929  |
| 60° | 7848  | 6799  | 6620  |
| 65° | 7510  | 6451  | 6273  |
| 70° | 7120  | 5985  | 5910  |
| 75° | 6510  | 5524  | 5469  |
| 80° | 5707  | 4966  | 4980  |
| 85° | 4911  | 4519  | 4723  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.8  | 2.1       |
| 10°-20°   | 428.1  | 5.9       |
| 20°-30°   | 636.6  | 8.7       |
| 30°-40°   | 754.0  | 10.3      |
| 40°-50°   | 779.5  | 10.7      |
| 50°-60°   | 718.0  | 9.8       |
| 60°-70°   | 580.5  | 7.9       |
| 70°-80°   | 388.4  | 5.3       |
| 80°-90°   | 201.9  | 2.8       |
| 90°-100°  | 139.2  | 1.9       |
| 100°-110° | 257.4  | 3.5       |
| 110°-120° | 369.2  | 5.1       |
| 120°-130° | 433.9  | 5.9       |
| 130°-140° | 446.5  | 6.1       |
| 140°-150° | 408.8  | 5.6       |
| 150°-160° | 328.5  | 4.5       |
| 160°-170° | 212.4  | 2.9       |
| 170°-180° | 73.3   | 1.0       |
| 0°-30°    | 1215.5 | 16.6      |
| 0°-40°    | 1969.5 | 27.0      |
| 0°-60°    | 3467.0 | 47.4      |
| 0°-90°    | 4637.7 | 63.5      |
| 90°-120°  | 765.9  | 10.5      |
| 90°-150°  | 2055.1 | 28.1      |
| 90°-180°  | 2669.0 | 36.5      |
| 0°-180°   | 7307.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1594 | 1594  | 1594 | 1594  | 1594 |      |
| 5°   | 1594 | 1591  | 1580 | 1592  | 1591 | 151  |
| 15°  | 1522 | 1523  | 1512 | 1522  | 1516 | 429  |
| 25°  | 1383 | 1388  | 1378 | 1384  | 1376 | 637  |
| 35°  | 1197 | 1208  | 1203 | 1208  | 1208 | 749  |
| 45°  | 986  | 1003  | 1011 | 1022  | 1023 | 761  |
| 55°  | 758  | 783   | 808  | 825   | 831  | 677  |
| 65°  | 522  | 558   | 595  | 619   | 625  | 518  |
| 75°  | 288  | 328   | 378  | 409   | 417  | 305  |
| 85°  | 86   | 138   | 192  | 227   | 239  | 90   |
| 90°  | 26   | 80    | 137  | 176   | 189  | 19   |
| 95°  | 53   | 92    | 123  | 160   | 171  | 56   |
| 105° | 182  | 210   | 256  | 288   | 298  | 193  |
| 115° | 325  | 339   | 380  | 406   | 412  | 322  |
| 125° | 455  | 458   | 489  | 511   | 518  | 406  |
| 135° | 563  | 565   | 574  | 594   | 598  | 434  |
| 145° | 650  | 650   | 650  | 658   | 661  | 406  |
| 155° | 715  | 711   | 712  | 714   | 709  | 329  |
| 165° | 754  | 751   | 751  | 755   | 750  | 213  |
| 175° | 771  | 768   | 768  | 773   | 768  | 73   |
| 180° | 771  | 771   | 771  | 771   | 771  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1593.7 | 1593.7 | 1593.7 | 1593.7 | 1593.7 |
| 2.5°   | 1598.4 | 1595.3 | 1584.3 | 1595.3 | 1593.7 |
| 5°     | 1593.7 | 1590.6 | 1579.6 | 1592.1 | 1590.6 |
| 7.5°   | 1582.8 | 1581.2 | 1570.3 | 1581.2 | 1579.6 |
| 10°    | 1567.1 | 1567.1 | 1554.6 | 1565.6 | 1564.0 |
| 12.5°  | 1545.3 | 1546.8 | 1537.5 | 1545.3 | 1540.6 |
| 15°    | 1521.8 | 1523.4 | 1512.5 | 1521.8 | 1515.6 |
| 17.5°  | 1492.1 | 1495.3 | 1484.3 | 1492.1 | 1487.5 |
| 20°    | 1459.3 | 1462.5 | 1451.5 | 1456.2 | 1456.2 |
| 22.5°  | 1421.8 | 1428.1 | 1415.6 | 1421.8 | 1417.1 |
| 25°    | 1382.8 | 1387.5 | 1378.1 | 1384.3 | 1376.5 |
| 27.5°  | 1340.6 | 1346.8 | 1335.9 | 1340.6 | 1337.5 |
| 30°    | 1292.1 | 1301.5 | 1292.1 | 1295.3 | 1293.7 |
| 32.5°  | 1248.4 | 1256.2 | 1250.0 | 1253.1 | 1251.5 |
| 35°    | 1196.8 | 1207.8 | 1203.1 | 1207.8 | 1207.8 |
| 37.5°  | 1146.8 | 1156.2 | 1154.7 | 1160.9 | 1159.3 |
| 40°    | 1095.3 | 1107.8 | 1106.2 | 1112.5 | 1115.6 |
| 42.5°  | 1039.0 | 1056.2 | 1060.9 | 1068.7 | 1068.7 |
| 45°    | 985.9  | 1003.1 | 1010.9 | 1021.8 | 1023.4 |
| 47.5°  | 931.2  | 946.8  | 959.3  | 975.0  | 978.1  |
| 50°    | 875.0  | 892.2  | 909.3  | 926.5  | 931.2  |
| 52.5°  | 815.6  | 837.5  | 859.3  | 878.1  | 881.2  |
| 55°    | 757.8  | 782.8  | 807.8  | 825.0  | 831.2  |
| 57.5°  | 698.4  | 728.1  | 756.2  | 775.0  | 779.7  |
| 60°    | 639.0  | 670.3  | 701.5  | 725.0  | 729.7  |
| 62.5°  | 581.2  | 612.5  | 646.9  | 673.4  | 679.7  |
| 65°    | 521.9  | 557.8  | 595.3  | 618.7  | 625.0  |
| 67.5°  | 467.2  | 501.5  | 539.0  | 567.2  | 575.0  |
| 70°    | 406.2  | 442.2  | 482.8  | 512.5  | 521.9  |
| 72.5°  | 346.9  | 384.4  | 429.7  | 462.5  | 468.7  |
| 75°    | 287.5  | 328.1  | 378.1  | 409.4  | 417.2  |
| 77.5°  | 229.7  | 276.6  | 323.4  | 357.8  | 364.1  |
| 80°    | 176.6  | 223.4  | 276.6  | 310.9  | 317.2  |
| 82.5°  | 128.1  | 178.1  | 232.8  | 265.6  | 278.1  |
| 85°    | 85.9   | 137.5  | 192.2  | 226.6  | 239.1  |
| 87.5°  | 54.7   | 104.7  | 157.8  | 193.7  | 204.7  |
| 90°    | 25.6   | 80.1   | 137.2  | 176.1  | 188.7  |
| 92.5°  | 32.8   | 72.9   | 131.0  | 168.2  | 179.8  |
| 95°    | 52.9   | 91.8   | 123.2  | 160.4  | 171.4  |
| 97.5°  | 79.9   | 120.8  | 118.1  | 152.0  | 163.6  |
| 100°   | 112.7  | 147.2  | 199.5  | 147.1  | 154.2  |
| 102.5° | 145.9  | 177.9  | 227.5  | 259.9  | 221.3  |
| 105°   | 182.2  | 209.5  | 256.3  | 287.6  | 297.9  |
| 107.5° | 219.4  | 241.3  | 287.8  | 319.6  | 326.7  |
| 110°   | 255.6  | 274.4  | 319.2  | 347.2  | 358.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 291.0 | 306.8 | 349.6 | 375.4 | 385.2 |
| 115°   | 325.0 | 338.7 | 379.9 | 405.8 | 411.7 |
| 117.5° | 360.5 | 368.3 | 409.7 | 432.8 | 442.6 |
| 120°   | 394.8 | 398.9 | 436.6 | 462.0 | 468.6 |
| 122.5° | 423.5 | 428.0 | 462.9 | 486.8 | 492.8 |
| 125°   | 455.0 | 457.5 | 488.7 | 511.4 | 517.5 |
| 127.5° | 483.7 | 485.0 | 511.0 | 533.3 | 538.1 |
| 130°   | 511.2 | 512.4 | 534.9 | 555.1 | 560.0 |
| 132.5° | 537.0 | 540.5 | 554.3 | 576.2 | 579.7 |
| 135°   | 562.8 | 564.7 | 574.4 | 593.6 | 598.0 |
| 137.5° | 586.8 | 588.7 | 593.7 | 612.5 | 615.9 |
| 140°   | 608.7 | 609.8 | 610.8 | 629.1 | 632.0 |
| 142.5° | 629.9 | 628.8 | 630.0 | 644.1 | 646.8 |
| 145°   | 650.4 | 650.0 | 650.0 | 658.3 | 661.2 |
| 147.5° | 667.1 | 667.1 | 667.7 | 671.4 | 670.5 |
| 150°   | 684.3 | 683.1 | 684.3 | 685.4 | 682.4 |
| 152.5° | 700.9 | 698.0 | 699.1 | 700.3 | 696.3 |
| 155°   | 714.6 | 711.1 | 712.3 | 714.0 | 709.4 |
| 157.5° | 725.4 | 723.7 | 723.7 | 725.4 | 720.9 |
| 160°   | 736.9 | 733.4 | 734.0 | 736.3 | 731.7 |
| 162.5° | 746.0 | 742.6 | 743.2 | 746.6 | 741.4 |
| 165°   | 754.0 | 750.6 | 751.2 | 754.6 | 750.0 |
| 167.5° | 760.3 | 756.9 | 757.4 | 761.4 | 756.3 |
| 170°   | 765.4 | 761.4 | 762.0 | 766.6 | 761.4 |
| 172.5° | 768.9 | 764.9 | 766.0 | 770.0 | 764.9 |
| 175°   | 771.2 | 767.7 | 768.3 | 772.9 | 767.7 |
| 177.5° | 772.9 | 769.5 | 770.0 | 774.0 | 769.5 |
| 180°   | 771.2 | 771.2 | 771.2 | 771.2 | 771.2 |

(END OF REPORT)