

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: P1013080

Luminaire Tested: S124DIP-B575D1205UB2750-4F0-XX-W2A-D\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013080  
REPORT IS A COMBINATION OF REPORTS P996093 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1205UB2750-4F0-XX-W2A-D\_2700K  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

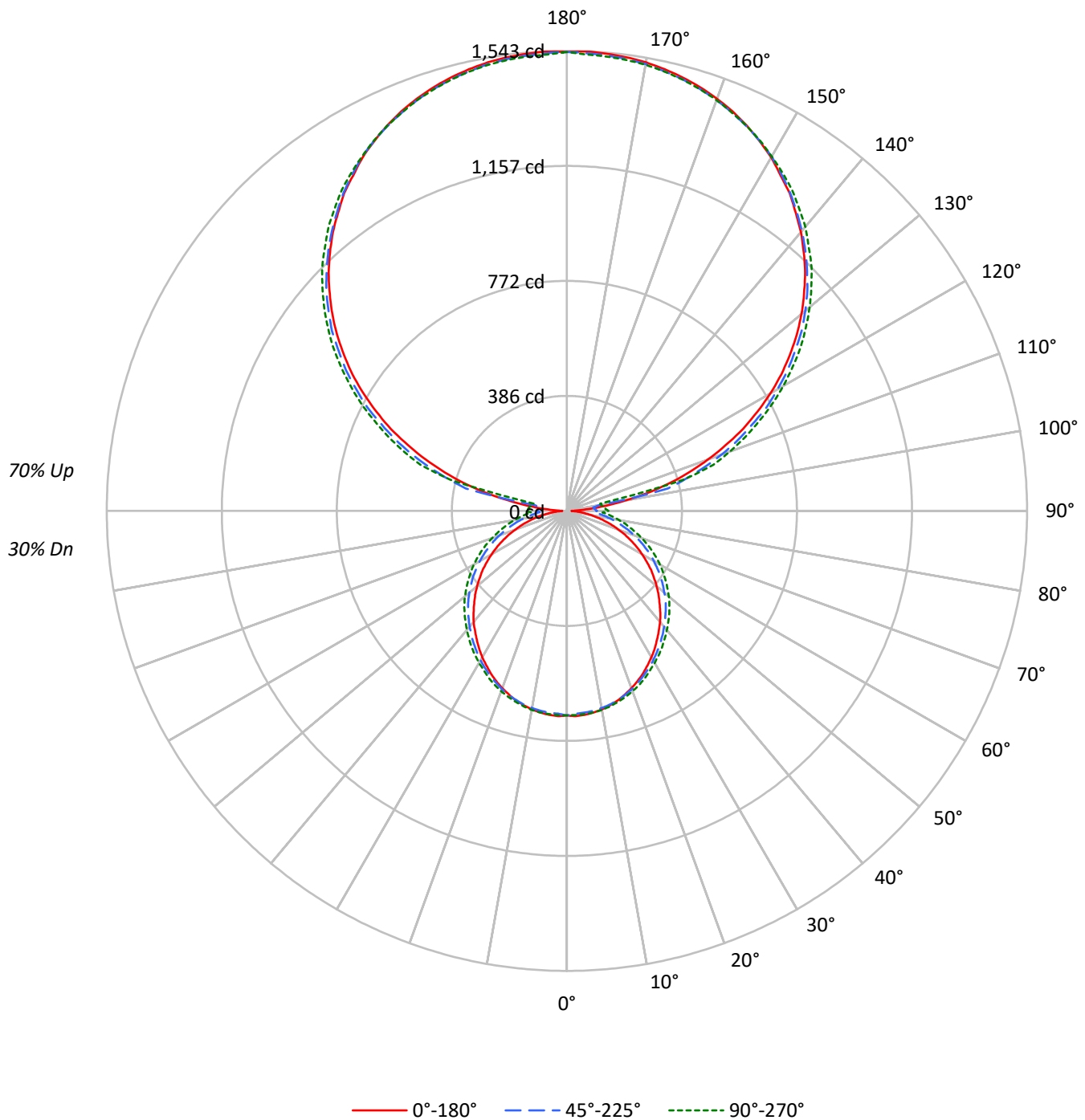
Lumens per Lamp: N/A  
Luminaire Lumens: 7105.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 59  
Input Voltage (V): 120  
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   | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 55 | 55 | 55 | 38 | 38 | 38 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 47 | 45 | 44 | 33 | 32 | 31 |
| 2   | 84  | 77  | 71  | 65  | 75 | 69 | 64 | 59 | 54 | 51 | 47 | 41 | 38 | 36 | 28 | 27 | 26 |
| 3   | 77  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 48 | 43 | 40 | 36 | 33 | 30 | 25 | 23 | 21 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 47 | 41 | 42 | 37 | 33 | 32 | 28 | 26 | 22 | 20 | 18 |
| 5   | 64  | 52  | 44  | 39  | 57 | 47 | 40 | 35 | 37 | 32 | 29 | 28 | 25 | 22 | 20 | 18 | 16 |
| 6   | 59  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 34 | 28 | 25 | 26 | 22 | 19 | 18 | 16 | 14 |
| 7   | 54  | 42  | 34  | 29  | 48 | 38 | 31 | 26 | 30 | 25 | 22 | 23 | 19 | 17 | 16 | 14 | 12 |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 28 | 23 | 19 | 21 | 17 | 15 | 15 | 13 | 11 |
| 9   | 47  | 35  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 17 | 19 | 16 | 13 | 14 | 11 | 10 |
| 10  | 43  | 32  | 25  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 10 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5594 | 5594 | 5594 |
| 5°  | 5610 | 5448 | 5458 |
| 10° | 5574 | 5341 | 5326 |
| 15° | 5521 | 5220 | 5177 |
| 20° | 5444 | 5090 | 5032 |
| 25° | 5357 | 4946 | 4875 |
| 30° | 5263 | 4804 | 4716 |
| 35° | 5156 | 4658 | 4574 |
| 40° | 5070 | 4518 | 4427 |
| 45° | 4944 | 4387 | 4297 |
| 50° | 4836 | 4238 | 4161 |
| 55° | 4725 | 4094 | 4002 |
| 60° | 4552 | 3915 | 3854 |
| 65° | 4362 | 3723 | 3675 |
| 70° | 4130 | 3502 | 3469 |
| 75° | 3807 | 3256 | 3272 |
| 80° | 3442 | 3008 | 3066 |
| 85° | 2962 | 2757 | 2899 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5154 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.0   | 0.9       |
| 10°-20°   | 186.2  | 2.6       |
| 20°-30°   | 281.6  | 4.0       |
| 30°-40°   | 340.7  | 4.8       |
| 40°-50°   | 360.2  | 5.1       |
| 50°-60°   | 339.0  | 4.8       |
| 60°-70°   | 281.3  | 4.0       |
| 70°-80°   | 197.4  | 2.8       |
| 80°-90°   | 114.5  | 1.6       |
| 90°-100°  | 117.3  | 1.7       |
| 100°-110° | 385.5  | 5.4       |
| 110°-120° | 675.4  | 9.5       |
| 120°-130° | 834.2  | 11.7      |
| 130°-140° | 880.6  | 12.4      |
| 140°-150° | 817.5  | 11.5      |
| 150°-160° | 658.0  | 9.3       |
| 160°-170° | 424.3  | 6.0       |
| 170°-180° | 146.2  | 2.1       |
| 0°-30°    | 532.8  | 7.5       |
| 0°-40°    | 873.5  | 12.3      |
| 0°-60°    | 1572.7 | 22.1      |
| 0°-90°    | 2165.8 | 30.5      |
| 90°-120°  | 1178.3 | 16.6      |
| 90°-150°  | 3710.6 | 52.2      |
| 90°-180°  | 4939.0 | 69.5      |
| 0°-180°   | 7105.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 686  | 686   | 686  | 686   | 686  |      |
| 5°   | 687  | 684   | 679  | 685   | 684  | 65   |
| 15°  | 658  | 659   | 657  | 664   | 663  | 186  |
| 25°  | 602  | 607   | 609  | 618   | 618  | 277  |
| 35°  | 527  | 536   | 544  | 555   | 557  | 330  |
| 45°  | 439  | 454   | 469  | 482   | 486  | 340  |
| 55°  | 344  | 360   | 383  | 399   | 403  | 307  |
| 65°  | 238  | 263   | 289  | 308   | 314  | 236  |
| 75°  | 132  | 161   | 193  | 214   | 221  | 140  |
| 85°  | 41   | 73    | 108  | 131   | 138  | 42   |
| 90°  | 16   | 59    | 101  | 130   | 139  | 12   |
| 95°  | 73   | 60    | 92   | 120   | 128  | 86   |
| 105° | 353  | 376   | 410  | 439   | 404  | 370  |
| 115° | 652  | 662   | 685  | 705   | 710  | 642  |
| 125° | 913  | 916   | 933  | 951   | 957  | 815  |
| 135° | 1130 | 1129  | 1139 | 1153  | 1160 | 871  |
| 145° | 1302 | 1304  | 1304 | 1310  | 1316 | 813  |
| 155° | 1426 | 1428  | 1424 | 1429  | 1425 | 658  |
| 165° | 1505 | 1499  | 1499 | 1508  | 1498 | 425  |
| 175° | 1539 | 1532  | 1533 | 1544  | 1530 | 147  |
| 180° | 1539 | 1539  | 1539 | 1539  | 1539 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 686.0 | 686.0 | 686.0 | 686.0 | 686.0 |
| 2.5°   | 689.1 | 686.8 | 680.7 | 686.0 | 685.3 |
| 5°     | 686.8 | 684.5 | 679.1 | 685.3 | 684.5 |
| 7.5°   | 682.2 | 680.7 | 676.1 | 683.0 | 682.2 |
| 10°    | 676.1 | 675.3 | 671.4 | 678.4 | 677.6 |
| 12.5°  | 667.6 | 667.6 | 665.3 | 671.4 | 671.4 |
| 15°    | 658.4 | 659.2 | 656.8 | 663.8 | 663.0 |
| 17.5°  | 646.1 | 648.4 | 647.6 | 654.5 | 653.8 |
| 20°    | 633.0 | 635.3 | 636.1 | 643.8 | 643.8 |
| 22.5°  | 618.4 | 621.5 | 623.0 | 630.7 | 632.3 |
| 25°    | 602.3 | 606.9 | 609.2 | 617.7 | 618.4 |
| 27.5°  | 584.6 | 591.5 | 594.6 | 602.3 | 603.1 |
| 30°    | 567.0 | 573.1 | 578.5 | 586.9 | 588.5 |
| 32.5°  | 547.8 | 555.4 | 561.6 | 571.6 | 573.1 |
| 35°    | 527.0 | 536.2 | 543.9 | 554.7 | 557.0 |
| 37.5°  | 506.3 | 517.0 | 526.2 | 537.0 | 539.3 |
| 40°    | 486.3 | 496.3 | 507.0 | 518.6 | 521.6 |
| 42.5°  | 463.3 | 474.8 | 487.8 | 500.9 | 503.2 |
| 45°    | 439.4 | 454.0 | 468.6 | 481.7 | 485.5 |
| 47.5°  | 417.2 | 431.8 | 448.7 | 461.7 | 466.3 |
| 50°    | 392.6 | 409.5 | 426.4 | 441.7 | 446.4 |
| 52.5°  | 368.0 | 384.9 | 404.9 | 420.2 | 424.8 |
| 55°    | 344.2 | 360.3 | 383.4 | 398.7 | 403.3 |
| 57.5°  | 317.3 | 337.3 | 359.5 | 378.0 | 381.8 |
| 60°    | 291.2 | 311.1 | 336.5 | 354.2 | 360.3 |
| 62.5°  | 265.8 | 288.1 | 313.4 | 331.1 | 337.3 |
| 65°    | 238.2 | 262.7 | 288.9 | 308.1 | 314.2 |
| 67.5°  | 212.0 | 238.2 | 265.8 | 285.0 | 291.2 |
| 70°    | 185.1 | 211.3 | 240.5 | 261.2 | 266.6 |
| 72.5°  | 159.0 | 185.9 | 217.4 | 237.4 | 243.5 |
| 75°    | 132.1 | 160.6 | 192.8 | 214.3 | 221.3 |
| 77.5°  | 106.8 | 136.7 | 170.6 | 192.1 | 199.7 |
| 80°    | 83.7  | 114.5 | 148.3 | 171.3 | 177.5 |
| 82.5°  | 60.7  | 93.0  | 126.8 | 150.6 | 157.5 |
| 85°    | 40.7  | 73.0  | 107.6 | 130.6 | 138.3 |
| 87.5°  | 25.4  | 56.9  | 90.7  | 112.9 | 119.8 |
| 90°    | 15.8  | 59.1  | 101.4 | 130.5 | 139.0 |
| 92.5°  | 28.8  | 53.4  | 95.6  | 124.1 | 130.2 |
| 95°    | 73.3  | 59.5  | 92.1  | 119.8 | 127.9 |
| 97.5°  | 130.1 | 177.7 | 88.3  | 114.1 | 122.1 |
| 100°   | 197.3 | 237.9 | 109.1 | 110.2 | 116.7 |
| 102.5° | 273.3 | 304.0 | 346.9 | 107.9 | 114.1 |
| 105°   | 353.4 | 375.7 | 409.9 | 439.4 | 404.2 |
| 107.5° | 428.3 | 444.8 | 479.8 | 504.7 | 514.6 |
| 110°   | 503.4 | 517.7 | 551.5 | 571.5 | 581.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 576.4  | 592.5  | 620.1  | 636.0  | 646.7  |
| 115°   | 651.6  | 661.9  | 685.4  | 704.6  | 710.0  |
| 117.5° | 719.5  | 728.7  | 755.3  | 770.2  | 776.3  |
| 120°   | 787.8  | 794.7  | 815.8  | 833.5  | 837.3  |
| 122.5° | 852.3  | 854.6  | 877.7  | 894.1  | 897.2  |
| 125°   | 912.6  | 916.4  | 933.3  | 951.3  | 957.1  |
| 127.5° | 971.3  | 971.6  | 992.8  | 1005.4 | 1009.7 |
| 130°   | 1026.9 | 1027.2 | 1043.0 | 1058.1 | 1062.7 |
| 132.5° | 1078.7 | 1080.2 | 1094.1 | 1108.3 | 1111.7 |
| 135°   | 1129.7 | 1128.6 | 1138.6 | 1153.2 | 1160.1 |
| 137.5° | 1175.8 | 1175.1 | 1183.8 | 1197.7 | 1200.4 |
| 140°   | 1220.7 | 1222.3 | 1225.3 | 1238.7 | 1243.8 |
| 142.5° | 1260.2 | 1264.9 | 1265.2 | 1276.0 | 1279.0 |
| 145°   | 1301.7 | 1304.3 | 1304.3 | 1310.1 | 1315.5 |
| 147.5° | 1333.9 | 1340.0 | 1338.9 | 1340.8 | 1345.0 |
| 150°   | 1369.6 | 1373.4 | 1372.3 | 1372.3 | 1373.4 |
| 152.5° | 1398.7 | 1402.2 | 1399.9 | 1402.2 | 1401.1 |
| 155°   | 1426.4 | 1427.5 | 1424.1 | 1428.7 | 1425.2 |
| 157.5° | 1450.6 | 1450.6 | 1445.9 | 1451.7 | 1445.9 |
| 160°   | 1471.3 | 1467.8 | 1466.7 | 1473.6 | 1466.7 |
| 162.5° | 1489.7 | 1485.1 | 1483.9 | 1490.8 | 1482.8 |
| 165°   | 1504.7 | 1498.9 | 1498.9 | 1508.1 | 1497.8 |
| 167.5° | 1517.3 | 1511.6 | 1510.4 | 1520.8 | 1509.3 |
| 170°   | 1527.7 | 1520.8 | 1521.9 | 1531.1 | 1519.6 |
| 172.5° | 1534.6 | 1527.7 | 1528.8 | 1538.0 | 1525.4 |
| 175°   | 1539.2 | 1532.3 | 1533.4 | 1543.8 | 1530.0 |
| 177.5° | 1542.7 | 1534.6 | 1536.9 | 1546.1 | 1532.3 |
| 180°   | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 |

(END OF REPORT)