

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: P1025554

Luminaire Tested: S124DIP-B575D1205UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025554  
REPORT IS A COMBINATION OF REPORTS P996124 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1205UB40-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

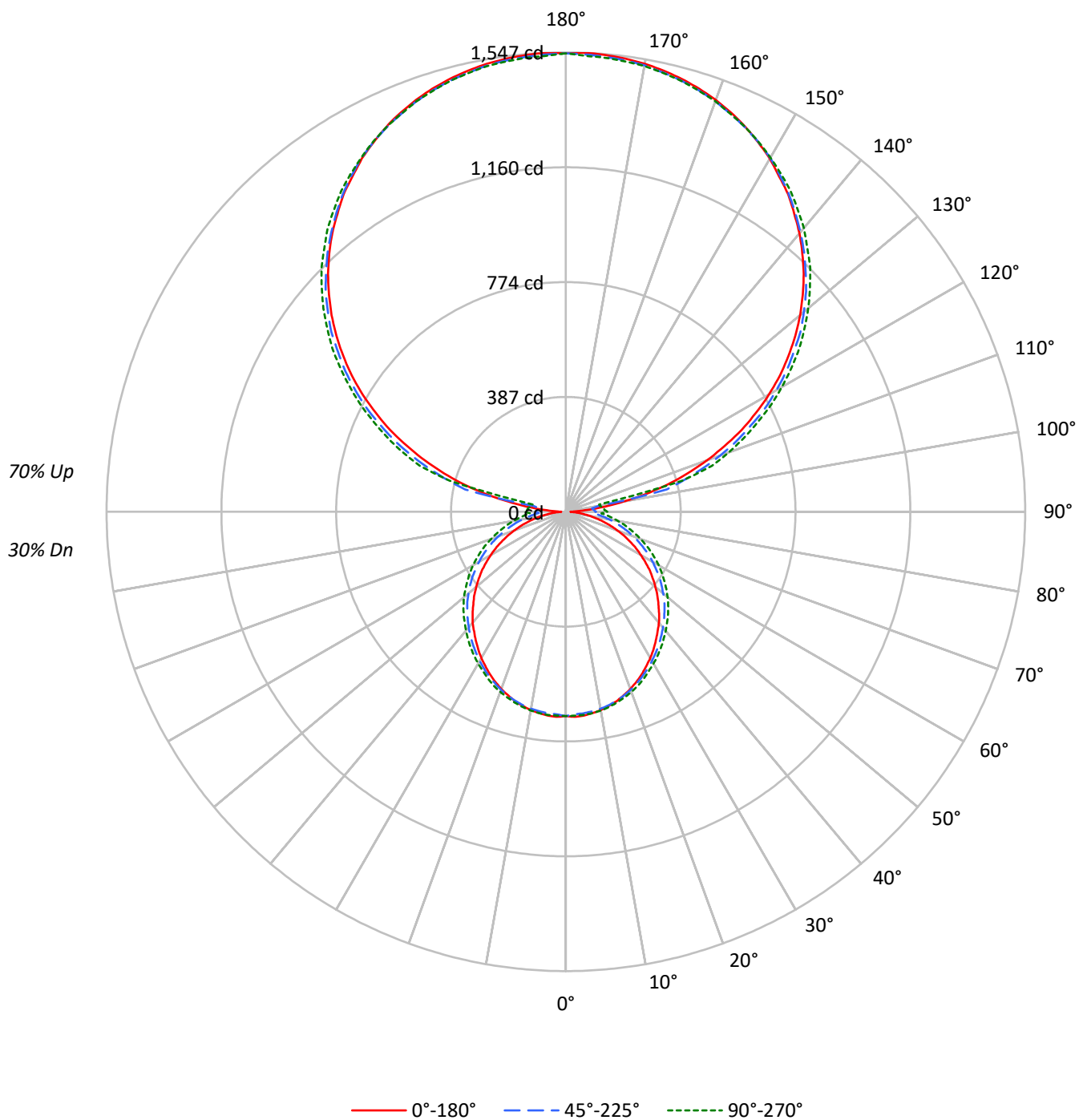
Lumens per Lamp: N/A  
Luminaire Lumens: 7126.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 59  
Input Voltage (V):  
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°  | 5611 | 5611 | 5611 |
| 5°  | 5627 | 5465 | 5475 |
| 10° | 5590 | 5358 | 5342 |
| 15° | 5538 | 5236 | 5192 |
| 20° | 5460 | 5105 | 5047 |
| 25° | 5373 | 4961 | 4890 |
| 30° | 5279 | 4818 | 4730 |
| 35° | 5172 | 4672 | 4587 |
| 40° | 5086 | 4532 | 4440 |
| 45° | 4959 | 4400 | 4310 |
| 50° | 4850 | 4251 | 4173 |
| 55° | 4738 | 4106 | 4014 |
| 60° | 4565 | 3927 | 3865 |
| 65° | 4375 | 3733 | 3686 |
| 70° | 4143 | 3512 | 3479 |
| 75° | 3818 | 3266 | 3281 |
| 80° | 3455 | 3016 | 3075 |
| 85° | 2969 | 2765 | 2907 |

**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°    | 65.2   | 0.9       |
| 10°-20°   | 186.8  | 2.6       |
| 20°-30°   | 282.4  | 4.0       |
| 30°-40°   | 341.7  | 4.8       |
| 40°-50°   | 361.2  | 5.1       |
| 50°-60°   | 340.0  | 4.8       |
| 60°-70°   | 282.1  | 4.0       |
| 70°-80°   | 198.0  | 2.8       |
| 80°-90°   | 114.8  | 1.6       |
| 90°-100°  | 117.7  | 1.7       |
| 100°-110° | 386.7  | 5.4       |
| 110°-120° | 677.4  | 9.5       |
| 120°-130° | 836.7  | 11.7      |
| 130°-140° | 883.2  | 12.4      |
| 140°-150° | 819.9  | 11.5      |
| 150°-160° | 659.9  | 9.3       |
| 160°-170° | 425.6  | 6.0       |
| 170°-180° | 146.7  | 2.1       |
| 0°-30°    | 534.4  | 7.5       |
| 0°-40°    | 876.2  | 12.3      |
| 0°-60°    | 1577.4 | 22.1      |
| 0°-90°    | 2172.3 | 30.5      |
| 90°-120°  | 1181.8 | 16.6      |
| 90°-150°  | 3721.5 | 52.2      |
| 90°-180°  | 4954.0 | 69.5      |
| 0°-180°   | 7126.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 688  | 688   | 688  | 688   | 688  |      |
| 5°   | 689  | 687   | 681  | 687   | 687  | 65   |
| 15°  | 660  | 661   | 659  | 666   | 665  | 186  |
| 25°  | 604  | 609   | 611  | 620   | 620  | 278  |
| 35°  | 529  | 538   | 546  | 556   | 559  | 331  |
| 45°  | 441  | 455   | 470  | 483   | 487  | 341  |
| 55°  | 345  | 361   | 384  | 400   | 404  | 308  |
| 65°  | 239  | 264   | 290  | 309   | 315  | 237  |
| 75°  | 132  | 161   | 193  | 215   | 222  | 141  |
| 85°  | 41   | 73    | 108  | 131   | 139  | 43   |
| 90°  | 16   | 59    | 102  | 131   | 139  | 12   |
| 95°  | 74   | 60    | 92   | 120   | 128  | 86   |
| 105° | 354  | 377   | 411  | 441   | 405  | 372  |
| 115° | 654  | 664   | 687  | 707   | 712  | 644  |
| 125° | 915  | 919   | 936  | 954   | 960  | 818  |
| 135° | 1133 | 1132  | 1142 | 1157  | 1164 | 873  |
| 145° | 1306 | 1308  | 1308 | 1314  | 1319 | 816  |
| 155° | 1431 | 1432  | 1428 | 1433  | 1429 | 660  |
| 165° | 1509 | 1503  | 1503 | 1512  | 1502 | 426  |
| 175° | 1544 | 1537  | 1538 | 1548  | 1534 | 147  |
| 180° | 1544 | 1544  | 1544 | 1544  | 1544 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 |
| 2.5°   | 691.2 | 688.9 | 682.7 | 688.1 | 687.3 |
| 5°     | 688.9 | 686.6 | 681.2 | 687.3 | 686.6 |
| 7.5°   | 684.2 | 682.7 | 678.1 | 685.0 | 684.2 |
| 10°    | 678.1 | 677.3 | 673.5 | 680.4 | 679.6 |
| 12.5°  | 669.6 | 669.6 | 667.3 | 673.5 | 673.5 |
| 15°    | 660.4 | 661.1 | 658.8 | 665.7 | 665.0 |
| 17.5°  | 648.0 | 650.3 | 649.6 | 656.5 | 655.7 |
| 20°    | 634.9 | 637.2 | 638.0 | 645.7 | 645.7 |
| 22.5°  | 620.3 | 623.4 | 624.9 | 632.6 | 634.2 |
| 25°    | 604.1 | 608.7 | 611.0 | 619.5 | 620.3 |
| 27.5°  | 586.4 | 593.3 | 596.4 | 604.1 | 604.9 |
| 30°    | 568.7 | 574.8 | 580.2 | 588.7 | 590.2 |
| 32.5°  | 549.4 | 557.1 | 563.3 | 573.3 | 574.8 |
| 35°    | 528.6 | 537.8 | 545.5 | 556.3 | 558.6 |
| 37.5°  | 507.8 | 518.6 | 527.8 | 538.6 | 540.9 |
| 40°    | 487.8 | 497.8 | 508.6 | 520.1 | 523.2 |
| 42.5°  | 464.6 | 476.2 | 489.3 | 502.4 | 504.7 |
| 45°    | 440.8 | 455.4 | 470.0 | 483.1 | 487.0 |
| 47.5°  | 418.4 | 433.0 | 450.0 | 463.1 | 467.7 |
| 50°    | 393.7 | 410.7 | 427.7 | 443.1 | 447.7 |
| 52.5°  | 369.1 | 386.0 | 406.1 | 421.5 | 426.1 |
| 55°    | 345.2 | 361.4 | 384.5 | 399.9 | 404.5 |
| 57.5°  | 318.2 | 338.3 | 360.6 | 379.1 | 383.0 |
| 60°    | 292.0 | 312.1 | 337.5 | 355.2 | 361.4 |
| 62.5°  | 266.6 | 289.0 | 314.4 | 332.1 | 338.3 |
| 65°    | 238.9 | 263.5 | 289.7 | 309.0 | 315.2 |
| 67.5°  | 212.7 | 238.9 | 266.6 | 285.9 | 292.0 |
| 70°    | 185.7 | 211.9 | 241.2 | 262.0 | 267.4 |
| 72.5°  | 159.5 | 186.5 | 218.1 | 238.1 | 244.3 |
| 75°    | 132.5 | 161.0 | 193.4 | 215.0 | 221.9 |
| 77.5°  | 107.1 | 137.2 | 171.1 | 192.6 | 200.3 |
| 80°    | 84.0  | 114.8 | 148.7 | 171.8 | 178.0 |
| 82.5°  | 60.9  | 93.2  | 127.1 | 151.0 | 158.0 |
| 85°    | 40.8  | 73.2  | 107.9 | 131.0 | 138.7 |
| 87.5°  | 25.4  | 57.0  | 90.9  | 113.3 | 120.2 |
| 90°    | 15.8  | 59.4  | 101.7 | 130.9 | 139.4 |
| 92.5°  | 28.9  | 53.5  | 95.9  | 124.4 | 130.6 |
| 95°    | 73.5  | 59.6  | 92.4  | 120.1 | 128.3 |
| 97.5°  | 130.4 | 178.2 | 88.6  | 114.4 | 122.5 |
| 100°   | 197.9 | 238.6 | 109.4 | 110.6 | 117.1 |
| 102.5° | 274.1 | 304.8 | 348.0 | 108.2 | 114.4 |
| 105°   | 354.4 | 376.8 | 411.1 | 440.7 | 405.4 |
| 107.5° | 429.5 | 446.1 | 481.1 | 506.2 | 516.2 |
| 110°   | 505.0 | 519.3 | 553.1 | 573.1 | 582.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 578.1  | 594.2  | 622.0  | 637.8  | 648.6  |
| 115°   | 653.5  | 664.0  | 687.4  | 706.7  | 712.1  |
| 117.5° | 721.6  | 730.8  | 757.5  | 772.4  | 778.6  |
| 120°   | 790.2  | 797.1  | 818.3  | 836.0  | 839.9  |
| 122.5° | 854.9  | 857.2  | 880.3  | 896.8  | 899.9  |
| 125°   | 915.2  | 919.1  | 936.1  | 954.1  | 959.9  |
| 127.5° | 974.1  | 974.5  | 995.7  | 1008.4 | 1012.6 |
| 130°   | 1029.9 | 1030.3 | 1046.1 | 1061.1 | 1065.8 |
| 132.5° | 1081.9 | 1083.4 | 1097.3 | 1111.5 | 1115.0 |
| 135°   | 1133.0 | 1131.9 | 1141.9 | 1156.6 | 1163.5 |
| 137.5° | 1179.2 | 1178.5 | 1187.4 | 1201.2 | 1203.9 |
| 140°   | 1224.2 | 1225.8 | 1228.9 | 1242.4 | 1247.4 |
| 142.5° | 1263.9 | 1268.6 | 1268.9 | 1279.7 | 1282.8 |
| 145°   | 1305.5 | 1308.2 | 1308.2 | 1313.9 | 1319.3 |
| 147.5° | 1337.8 | 1344.0 | 1342.8 | 1344.8 | 1349.0 |
| 150°   | 1373.6 | 1377.5 | 1376.3 | 1376.3 | 1377.5 |
| 152.5° | 1402.9 | 1406.3 | 1404.0 | 1406.3 | 1405.2 |
| 155°   | 1430.6 | 1431.7 | 1428.3 | 1432.9 | 1429.4 |
| 157.5° | 1454.8 | 1454.8 | 1450.2 | 1456.0 | 1450.2 |
| 160°   | 1475.6 | 1472.1 | 1471.0 | 1477.9 | 1471.0 |
| 162.5° | 1494.1 | 1489.5 | 1488.3 | 1495.2 | 1487.1 |
| 165°   | 1509.1 | 1503.3 | 1503.3 | 1512.5 | 1502.2 |
| 167.5° | 1521.8 | 1516.0 | 1514.9 | 1525.2 | 1513.7 |
| 170°   | 1532.2 | 1525.2 | 1526.4 | 1535.6 | 1524.1 |
| 172.5° | 1539.1 | 1532.2 | 1533.3 | 1542.6 | 1529.9 |
| 175°   | 1543.7 | 1536.8 | 1537.9 | 1548.3 | 1534.5 |
| 177.5° | 1547.2 | 1539.1 | 1541.4 | 1550.6 | 1536.8 |
| 180°   | 1543.7 | 1543.7 | 1543.7 | 1543.7 | 1543.7 |

(END OF REPORT)