

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: P1001483

Luminaire Tested: SA4XXDIP-B575D1205UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001483  
REPORT IS A COMBINATION OF REPORTS P996102 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B575D1205UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

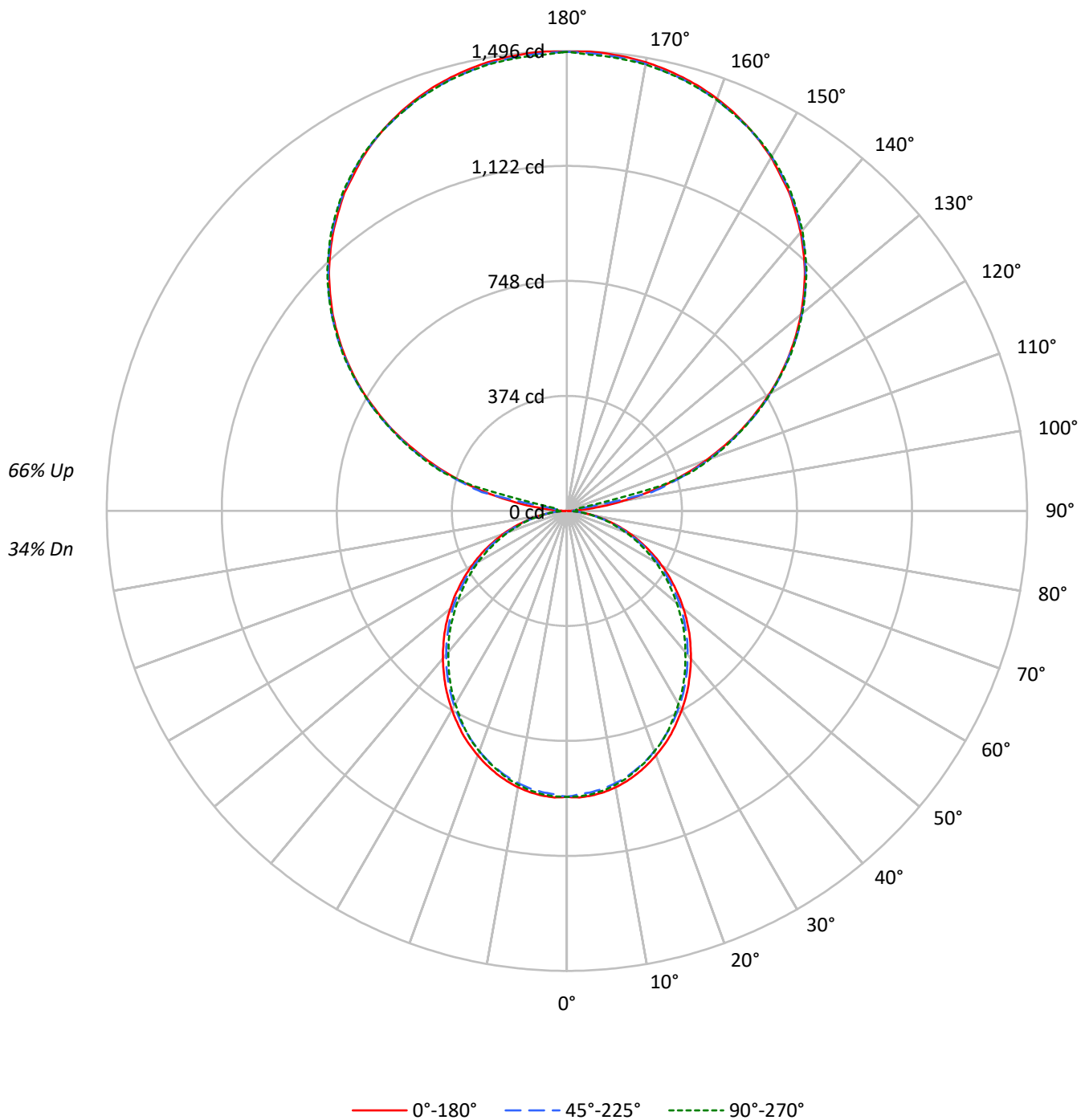
Lumens per Lamp: N/A  
Luminaire Lumens: 7009.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 57 | 57 | 57 | 42 | 42 | 42 |
| 1   | 94  | 90  | 86  | 83  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 48 | 37 | 36 | 35 |
| 2   | 86  | 79  | 73  | 67  | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 42 | 40 | 32 | 31 | 29 |
| 3   | 78  | 69  | 62  | 56  | 70 | 62 | 56 | 51 | 50 | 46 | 42 | 39 | 36 | 34 | 29 | 27 | 25 |
| 4   | 71  | 61  | 53  | 47  | 64 | 55 | 49 | 44 | 45 | 40 | 36 | 35 | 31 | 29 | 25 | 23 | 22 |
| 5   | 65  | 54  | 46  | 40  | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 |
| 6   | 60  | 48  | 41  | 35  | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 24 | 22 | 21 | 18 | 16 |
| 7   | 56  | 44  | 36  | 30  | 50 | 40 | 33 | 28 | 32 | 27 | 24 | 25 | 22 | 19 | 19 | 16 | 15 |
| 8   | 52  | 40  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 20 | 17 | 17 | 15 | 13 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 26 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 14 | 12 |
| 10  | 45  | 33  | 26  | 21  | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7584 | 7584 | 7584 |
| 5°  | 7589 | 7366 | 7375 |
| 10° | 7526 | 7161 | 7111 |
| 15° | 7417 | 6918 | 6813 |
| 20° | 7280 | 6655 | 6506 |
| 25° | 7125 | 6377 | 6174 |
| 30° | 6937 | 6077 | 5811 |
| 35° | 6744 | 5769 | 5459 |
| 40° | 6541 | 5438 | 5085 |
| 45° | 6330 | 5106 | 4735 |
| 50° | 6095 | 4785 | 4348 |
| 55° | 5841 | 4408 | 3963 |
| 60° | 5579 | 3997 | 3563 |
| 65° | 5282 | 3572 | 3111 |
| 70° | 4937 | 3059 | 2627 |
| 75° | 4424 | 2467 | 2104 |
| 80° | 3771 | 1783 | 1480 |
| 85° | 2925 | 992  | 797  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6330 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.7   | 1.3       |
| 10°-20°   | 247.0  | 3.5       |
| 20°-30°   | 363.4  | 5.2       |
| 30°-40°   | 422.5  | 6.0       |
| 40°-50°   | 422.5  | 6.0       |
| 50°-60°   | 369.5  | 5.3       |
| 60°-70°   | 274.3  | 3.9       |
| 70°-80°   | 155.6  | 2.2       |
| 80°-90°   | 47.6   | 0.7       |
| 90°-100°  | 49.5   | 0.7       |
| 100°-110° | 326.3  | 4.7       |
| 110°-120° | 623.1  | 8.9       |
| 120°-130° | 791.0  | 11.3      |
| 130°-140° | 846.2  | 12.1      |
| 140°-150° | 791.3  | 11.3      |
| 150°-160° | 638.1  | 9.1       |
| 160°-170° | 411.5  | 5.9       |
| 170°-180° | 141.8  | 2.0       |
| 0°-30°    | 698.1  | 10.0      |
| 0°-40°    | 1120.5 | 16.0      |
| 0°-60°    | 1912.5 | 27.3      |
| 0°-90°    | 2390.1 | 34.1      |
| 90°-120°  | 999.0  | 14.3      |
| 90°-150°  | 3427.5 | 48.9      |
| 90°-180°  | 4619.0 | 65.9      |
| 0°-180°   | 7009.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 930  | 930   | 930  | 930   | 930  |      |
| 5°   | 929  | 926   | 918  | 926   | 925  | 88   |
| 15°  | 884  | 882   | 870  | 875   | 873  | 249  |
| 25°  | 801  | 796   | 785  | 786   | 783  | 369  |
| 35°  | 689  | 684   | 674  | 668   | 665  | 431  |
| 45°  | 563  | 557   | 546  | 537   | 535  | 434  |
| 55°  | 426  | 423   | 413  | 404   | 399  | 381  |
| 65°  | 288  | 285   | 277  | 270   | 266  | 285  |
| 75°  | 154  | 150   | 146  | 143   | 142  | 163  |
| 85°  | 40   | 40    | 39   | 39    | 38   | 43   |
| 90°  | 3    | 16    | 25   | 31    | 34   | 6    |
| 95°  | 61   | 23    | 25   | 31    | 32   | 76   |
| 105° | 336  | 343   | 348  | 358   | 318  | 352  |
| 115° | 627  | 631   | 630  | 632   | 632  | 618  |
| 125° | 882  | 886   | 884  | 888   | 889  | 788  |
| 135° | 1094 | 1093  | 1098 | 1100  | 1102 | 843  |
| 145° | 1262 | 1265  | 1265 | 1266  | 1268 | 788  |
| 155° | 1383 | 1384  | 1381 | 1386  | 1382 | 638  |
| 165° | 1459 | 1454  | 1454 | 1462  | 1452 | 412  |
| 175° | 1493 | 1486  | 1487 | 1497  | 1484 | 142  |
| 180° | 1493 | 1493  | 1493 | 1493  | 1493 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 930.0 | 930.0 | 930.0 | 930.0 | 930.0 |
| 2.5°   | 933.0 | 930.7 | 922.5 | 930.0 | 929.2 |
| 5°     | 929.2 | 926.3 | 918.1 | 926.3 | 924.8 |
| 7.5°   | 922.5 | 919.6 | 910.6 | 917.3 | 916.6 |
| 10°    | 912.9 | 909.9 | 900.2 | 906.1 | 904.7 |
| 12.5°  | 900.2 | 897.2 | 886.8 | 893.5 | 891.2 |
| 15°    | 884.5 | 881.6 | 870.4 | 874.8 | 872.6 |
| 17.5°  | 866.6 | 862.9 | 852.5 | 855.5 | 854.0 |
| 20°    | 846.5 | 842.8 | 831.6 | 833.9 | 832.4 |
| 22.5°  | 824.9 | 819.7 | 808.5 | 813.0 | 810.0 |
| 25°    | 801.1 | 795.9 | 785.4 | 786.2 | 783.2 |
| 27.5°  | 774.2 | 769.0 | 759.3 | 757.9 | 754.1 |
| 30°    | 747.4 | 741.5 | 731.8 | 728.8 | 725.1 |
| 32.5°  | 719.1 | 713.9 | 703.5 | 699.7 | 696.0 |
| 35°    | 689.3 | 684.1 | 673.6 | 668.4 | 664.7 |
| 37.5°  | 658.0 | 653.5 | 642.3 | 637.1 | 631.9 |
| 40°    | 627.4 | 621.5 | 610.3 | 602.9 | 599.1 |
| 42.5°  | 594.7 | 591.7 | 579.0 | 570.1 | 567.8 |
| 45°    | 562.6 | 557.4 | 545.5 | 537.3 | 535.0 |
| 47.5°  | 529.1 | 525.4 | 514.2 | 505.2 | 499.3 |
| 50°    | 494.8 | 491.8 | 481.4 | 471.0 | 466.5 |
| 52.5°  | 461.3 | 457.5 | 446.4 | 437.4 | 431.5 |
| 55°    | 425.5 | 423.3 | 412.8 | 403.9 | 399.4 |
| 57.5°  | 392.0 | 389.7 | 379.3 | 370.4 | 365.9 |
| 60°    | 356.9 | 353.2 | 343.5 | 336.8 | 333.1 |
| 62.5°  | 322.7 | 319.7 | 309.3 | 303.3 | 299.6 |
| 65°    | 288.4 | 284.7 | 277.2 | 269.8 | 266.0 |
| 67.5°  | 253.4 | 250.4 | 242.9 | 235.5 | 234.7 |
| 70°    | 221.3 | 216.1 | 210.1 | 204.2 | 201.9 |
| 72.5°  | 187.0 | 181.8 | 177.4 | 172.9 | 170.6 |
| 75°    | 153.5 | 149.8 | 146.1 | 143.1 | 142.3 |
| 77.5°  | 120.7 | 119.2 | 115.5 | 114.8 | 112.5 |
| 80°    | 91.7  | 89.4  | 87.9  | 86.4  | 85.7  |
| 82.5°  | 63.3  | 62.6  | 62.6  | 61.9  | 61.1  |
| 85°    | 40.2  | 40.2  | 38.7  | 38.7  | 38.0  |
| 87.5°  | 19.4  | 18.6  | 17.9  | 17.9  | 17.9  |
| 90°    | 3.3   | 15.6  | 24.6  | 31.3  | 33.5  |
| 92.5°  | 16.7  | 14.5  | 23.4  | 30.1  | 30.1  |
| 95°    | 61.4  | 23.4  | 24.6  | 31.3  | 32.4  |
| 97.5°  | 117.2 | 141.8 | 24.6  | 30.1  | 31.3  |
| 100°   | 183.1 | 203.2 | 49.1  | 30.1  | 31.3  |
| 102.5° | 256.8 | 270.2 | 283.6 | 32.4  | 32.4  |
| 105°   | 336.1 | 342.7 | 348.3 | 358.4 | 318.2 |
| 107.5° | 408.6 | 412.0 | 419.8 | 425.4 | 429.8 |
| 110°   | 482.3 | 485.7 | 492.4 | 494.6 | 497.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 553.8  | 560.5  | 562.7  | 561.6  | 566.0  |
| 115°   | 627.4  | 630.8  | 629.7  | 631.9  | 631.9  |
| 117.5° | 693.3  | 697.8  | 701.1  | 700.0  | 700.0  |
| 120°   | 760.3  | 764.8  | 763.7  | 765.9  | 763.7  |
| 122.5° | 822.8  | 825.1  | 827.3  | 828.4  | 826.2  |
| 125°   | 882.0  | 886.5  | 884.2  | 887.6  | 888.7  |
| 127.5° | 938.9  | 940.1  | 945.6  | 944.5  | 943.4  |
| 130°   | 993.6  | 994.8  | 998.1  | 999.2  | 999.2  |
| 132.5° | 1043.9 | 1046.1 | 1050.6 | 1051.7 | 1050.6 |
| 135°   | 1094.1 | 1093.0 | 1097.5 | 1099.7 | 1101.9 |
| 137.5° | 1138.8 | 1138.8 | 1144.4 | 1146.6 | 1145.5 |
| 140°   | 1182.3 | 1184.6 | 1186.8 | 1190.1 | 1191.3 |
| 142.5° | 1221.4 | 1225.9 | 1227.0 | 1229.2 | 1229.2 |
| 145°   | 1261.6 | 1264.9 | 1264.9 | 1266.1 | 1268.3 |
| 147.5° | 1292.8 | 1299.5 | 1298.4 | 1299.5 | 1300.7 |
| 150°   | 1327.5 | 1331.9 | 1330.8 | 1330.8 | 1331.9 |
| 152.5° | 1356.5 | 1359.8 | 1357.6 | 1359.8 | 1358.7 |
| 155°   | 1383.3 | 1384.4 | 1381.0 | 1385.5 | 1382.2 |
| 157.5° | 1406.7 | 1406.7 | 1402.3 | 1407.8 | 1402.3 |
| 160°   | 1426.8 | 1423.5 | 1422.4 | 1429.1 | 1422.4 |
| 162.5° | 1444.7 | 1440.2 | 1439.1 | 1445.8 | 1438.0 |
| 165°   | 1459.2 | 1453.6 | 1453.6 | 1462.5 | 1452.5 |
| 167.5° | 1471.5 | 1465.9 | 1464.8 | 1474.8 | 1463.7 |
| 170°   | 1481.5 | 1474.8 | 1475.9 | 1484.9 | 1473.7 |
| 172.5° | 1488.2 | 1481.5 | 1482.6 | 1491.6 | 1479.3 |
| 175°   | 1492.7 | 1486.0 | 1487.1 | 1497.2 | 1483.8 |
| 177.5° | 1496.0 | 1488.2 | 1490.5 | 1499.4 | 1486.0 |
| 180°   | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 |

(END OF REPORT)