

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: P1001583

Luminaire Tested: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001583  
REPORT IS A COMBINATION OF REPORTS P996205 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

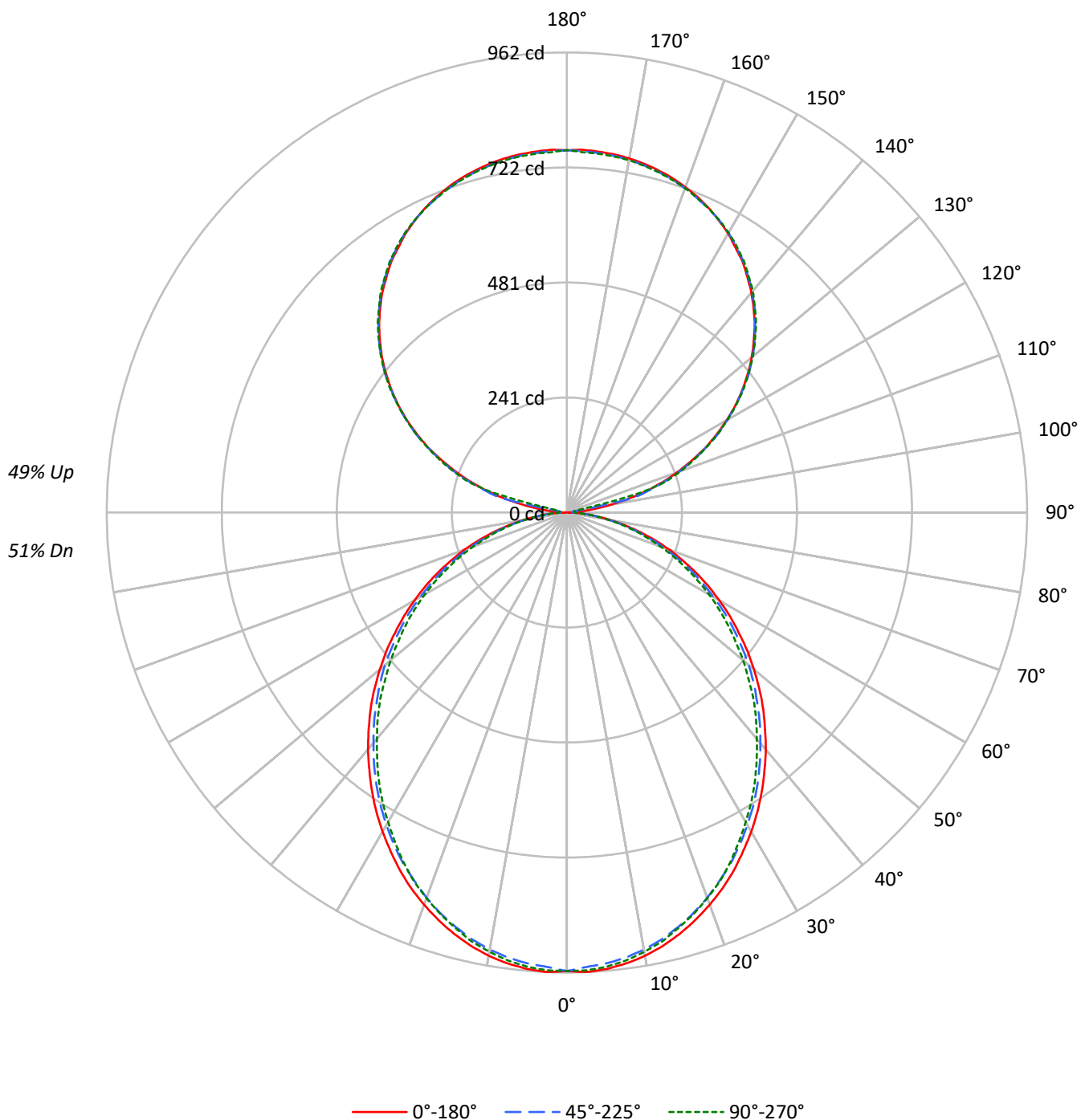
Lumens per Lamp: N/A  
Luminaire Lumens: 4807.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 39.4  
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

TEST NUMBER: P1001583

CATALOG NUMBER: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F

### Luminous Intensity Polar Plot



TEST NUMBER: P1001583

CATALOG NUMBER: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F

**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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 |
| 1   | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 49 | 48 |
| 2   | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 64 | 61 | 57 | 54 | 51 | 49 | 44 | 42 | 41 |
| 3   | 81  | 72  | 65  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 |
| 4   | 74  | 64  | 56  | 50  | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 |
| 5   | 68  | 57  | 49  | 43  | 63 | 53 | 45 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 25 | 23 |
| 7   | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 |
| 9   | 50  | 38  | 31  | 25  | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7819 | 7819 | 7819 |
| 5°  | 7826 | 7594 | 7603 |
| 10° | 7759 | 7383 | 7331 |
| 15° | 7648 | 7133 | 7025 |
| 20° | 7506 | 6861 | 6708 |
| 25° | 7345 | 6575 | 6366 |
| 30° | 7153 | 6265 | 5990 |
| 35° | 6953 | 5948 | 5628 |
| 40° | 6745 | 5607 | 5242 |
| 45° | 6527 | 5265 | 4882 |
| 50° | 6284 | 4933 | 4482 |
| 55° | 6022 | 4545 | 4086 |
| 60° | 5753 | 4121 | 3673 |
| 65° | 5445 | 3683 | 3208 |
| 70° | 5091 | 3156 | 2709 |
| 75° | 4562 | 2543 | 2169 |
| 80° | 3887 | 1839 | 1527 |
| 85° | 3020 | 1025 | 822  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6527 cd/sqm

TEST NUMBER: P1001583

CATALOG NUMBER: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.4   | 1.9       |
| 10°-20°   | 254.6  | 5.3       |
| 20°-30°   | 374.7  | 7.8       |
| 30°-40°   | 435.6  | 9.1       |
| 40°-50°   | 435.5  | 9.1       |
| 50°-60°   | 380.9  | 7.9       |
| 60°-70°   | 282.8  | 5.9       |
| 70°-80°   | 160.5  | 3.3       |
| 80°-90°   | 47.5   | 1.0       |
| 90°-100°  | 25.2   | 0.5       |
| 100°-110° | 165.6  | 3.4       |
| 110°-120° | 316.3  | 6.6       |
| 120°-130° | 401.5  | 8.4       |
| 130°-140° | 429.5  | 8.9       |
| 140°-150° | 401.6  | 8.4       |
| 150°-160° | 323.9  | 6.7       |
| 160°-170° | 208.9  | 4.3       |
| 170°-180° | 72.0   | 1.5       |
| 0°-30°    | 719.7  | 15.0      |
| 0°-40°    | 1155.3 | 24.0      |
| 0°-60°    | 1971.8 | 41.0      |
| 0°-90°    | 2462.6 | 51.2      |
| 90°-120°  | 507.0  | 10.5      |
| 90°-150°  | 1739.7 | 36.2      |
| 90°-180°  | 2344.0 | 48.8      |
| 0°-180°   | 4807.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 959 | 959   | 959 | 959   | 959 |      |
| 5°   | 958 | 955   | 946 | 955   | 953 | 91   |
| 15°  | 912 | 909   | 897 | 902   | 900 | 257  |
| 25°  | 826 | 820   | 810 | 810   | 808 | 380  |
| 35°  | 711 | 705   | 694 | 689   | 685 | 444  |
| 45°  | 580 | 575   | 562 | 554   | 552 | 447  |
| 55°  | 439 | 436   | 426 | 416   | 412 | 393  |
| 65°  | 297 | 294   | 286 | 278   | 274 | 294  |
| 75°  | 158 | 154   | 151 | 148   | 147 | 168  |
| 85°  | 42  | 42    | 40  | 40    | 39  | 45   |
| 90°  | 2   | 8     | 12  | 16    | 17  | 4    |
| 95°  | 31  | 12    | 12  | 16    | 16  | 38   |
| 105° | 171 | 174   | 177 | 182   | 162 | 179  |
| 115° | 318 | 320   | 320 | 321   | 321 | 313  |
| 125° | 448 | 450   | 449 | 450   | 451 | 400  |
| 135° | 555 | 555   | 557 | 558   | 559 | 428  |
| 145° | 640 | 642   | 642 | 643   | 644 | 400  |
| 155° | 702 | 703   | 701 | 703   | 702 | 324  |
| 165° | 741 | 738   | 738 | 742   | 737 | 209  |
| 175° | 758 | 754   | 755 | 760   | 753 | 72   |
| 180° | 758 | 758   | 758 | 758   | 758 |      |

TEST NUMBER: P1001583

CATALOG NUMBER: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 |
| 2.5°   | 961.9 | 959.6 | 951.1 | 958.8 | 958.1 |
| 5°     | 958.1 | 955.0 | 946.5 | 955.0 | 953.4 |
| 7.5°   | 951.1 | 948.1 | 938.8 | 945.8 | 945.0 |
| 10°    | 941.2 | 938.1 | 928.1 | 934.2 | 932.7 |
| 12.5°  | 928.1 | 925.0 | 914.3 | 921.2 | 918.9 |
| 15°    | 912.0 | 908.9 | 897.4 | 902.0 | 899.7 |
| 17.5°  | 893.5 | 889.7 | 878.9 | 882.0 | 880.5 |
| 20°    | 872.8 | 868.9 | 857.4 | 859.7 | 858.2 |
| 22.5°  | 850.5 | 845.1 | 833.6 | 838.2 | 835.1 |
| 25°    | 825.9 | 820.5 | 809.8 | 810.5 | 807.5 |
| 27.5°  | 798.2 | 792.9 | 782.9 | 781.3 | 777.5 |
| 30°    | 770.6 | 764.4 | 754.5 | 751.4 | 747.5 |
| 32.5°  | 741.4 | 736.0 | 725.3 | 721.4 | 717.6 |
| 35°    | 710.7 | 705.3 | 694.5 | 689.2 | 685.3 |
| 37.5°  | 678.4 | 673.8 | 662.3 | 656.9 | 651.5 |
| 40°    | 646.9 | 640.8 | 629.2 | 621.5 | 617.7 |
| 42.5°  | 613.1 | 610.0 | 597.0 | 587.7 | 585.4 |
| 45°    | 580.1 | 574.7 | 562.4 | 553.9 | 551.6 |
| 47.5°  | 545.5 | 541.6 | 530.1 | 520.9 | 514.8 |
| 50°    | 510.1 | 507.1 | 496.3 | 485.6 | 480.9 |
| 52.5°  | 475.6 | 471.7 | 460.2 | 451.0 | 444.8 |
| 55°    | 438.7 | 436.4 | 425.6 | 416.4 | 411.8 |
| 57.5°  | 404.1 | 401.8 | 391.1 | 381.8 | 377.2 |
| 60°    | 368.0 | 364.2 | 354.2 | 347.3 | 343.4 |
| 62.5°  | 332.7 | 329.6 | 318.8 | 312.7 | 308.9 |
| 65°    | 297.3 | 293.5 | 285.8 | 278.1 | 274.3 |
| 67.5°  | 261.2 | 258.1 | 250.5 | 242.8 | 242.0 |
| 70°    | 228.2 | 222.8 | 216.7 | 210.5 | 208.2 |
| 72.5°  | 192.8 | 187.5 | 182.9 | 178.2 | 175.9 |
| 75°    | 158.3 | 154.4 | 150.6 | 147.5 | 146.7 |
| 77.5°  | 124.5 | 122.9 | 119.1 | 118.3 | 116.0 |
| 80°    | 94.5  | 92.2  | 90.7  | 89.1  | 88.4  |
| 82.5°  | 65.3  | 64.5  | 64.5  | 63.8  | 63.0  |
| 85°    | 41.5  | 41.5  | 40.0  | 40.0  | 39.2  |
| 87.5°  | 20.0  | 19.2  | 18.4  | 18.4  | 18.4  |
| 90°    | 1.7   | 7.9   | 12.5  | 15.9  | 17.0  |
| 92.5°  | 8.5   | 7.4   | 11.9  | 15.3  | 15.3  |
| 95°    | 31.2  | 11.9  | 12.5  | 15.9  | 16.4  |
| 97.5°  | 59.5  | 72.0  | 12.5  | 15.3  | 15.9  |
| 100°   | 92.9  | 103.1 | 24.9  | 15.3  | 15.9  |
| 102.5° | 130.3 | 137.1 | 143.9 | 16.4  | 16.4  |
| 105°   | 170.6 | 174.0 | 176.8 | 181.9 | 161.5 |
| 107.5° | 207.4 | 209.1 | 213.1 | 215.9 | 218.2 |
| 110°   | 244.8 | 246.5 | 249.9 | 251.0 | 252.7 |



TEST NUMBER: P1001583

CATALOG NUMBER: SA4XXDIP-B575D590UB27-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 281.1 | 284.5 | 285.6 | 285.0 | 287.3 |
| 115°   | 318.5 | 320.2 | 319.6 | 320.7 | 320.7 |
| 117.5° | 351.9 | 354.2 | 355.9 | 355.3 | 355.3 |
| 120°   | 385.9 | 388.2 | 387.6 | 388.7 | 387.6 |
| 122.5° | 417.6 | 418.8 | 419.9 | 420.5 | 419.3 |
| 125°   | 447.7 | 449.9 | 448.8 | 450.5 | 451.1 |
| 127.5° | 476.6 | 477.1 | 480.0 | 479.4 | 478.8 |
| 130°   | 504.3 | 504.9 | 506.6 | 507.2 | 507.2 |
| 132.5° | 529.8 | 531.0 | 533.2 | 533.8 | 533.2 |
| 135°   | 555.3 | 554.8 | 557.0 | 558.2 | 559.3 |
| 137.5° | 578.0 | 578.0 | 580.8 | 582.0 | 581.4 |
| 140°   | 600.1 | 601.2 | 602.4 | 604.1 | 604.6 |
| 142.5° | 619.9 | 622.2 | 622.8 | 623.9 | 623.9 |
| 145°   | 640.3 | 642.0 | 642.0 | 642.6 | 643.7 |
| 147.5° | 656.2 | 659.6 | 659.0 | 659.6 | 660.2 |
| 150°   | 673.8 | 676.0 | 675.5 | 675.5 | 676.0 |
| 152.5° | 688.5 | 690.2 | 689.1 | 690.2 | 689.6 |
| 155°   | 702.1 | 702.7 | 701.0 | 703.2 | 701.5 |
| 157.5° | 714.0 | 714.0 | 711.7 | 714.6 | 711.7 |
| 160°   | 724.2 | 722.5 | 721.9 | 725.3 | 721.9 |
| 162.5° | 733.3 | 731.0 | 730.4 | 733.8 | 729.9 |
| 165°   | 740.6 | 737.8 | 737.8 | 742.3 | 737.2 |
| 167.5° | 746.9 | 744.0 | 743.5 | 748.6 | 742.9 |
| 170°   | 752.0 | 748.6 | 749.1 | 753.7 | 748.0 |
| 172.5° | 755.4 | 752.0 | 752.5 | 757.1 | 750.8 |
| 175°   | 757.6 | 754.2 | 754.8 | 759.9 | 753.1 |
| 177.5° | 759.3 | 755.4 | 756.5 | 761.0 | 754.2 |
| 180°   | 757.6 | 757.6 | 757.6 | 757.6 | 757.6 |

(END OF REPORT)