

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: P1001553

Luminaire Tested: SA4XXDIP-B575D365UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001553  
REPORT IS A COMBINATION OF REPORTS P996175 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B575D365UB35-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

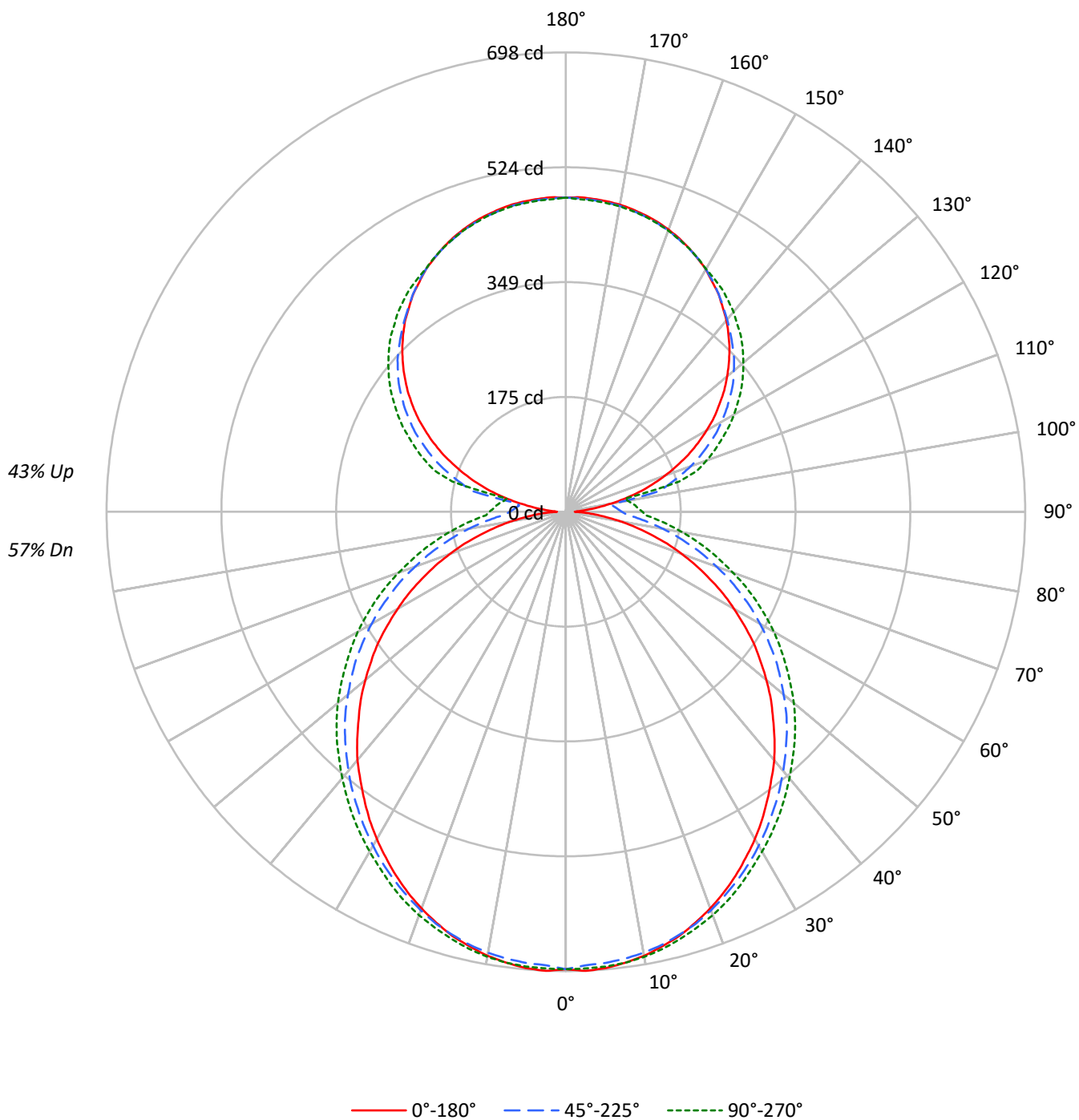
Lumens per Lamp: N/A  
Luminaire Lumens: 3848.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 33.3  
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: P1001553

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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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 63 | 63 | 63 |
| 1   | 98  | 93  | 89  | 85  | 91  | 87  | 83  | 80  | 75 | 72 | 69 | 64 | 62 | 60 | 53 | 52 | 51 |
| 2   | 89  | 81  | 74  | 68  | 82  | 75  | 69  | 64  | 65 | 60 | 56 | 55 | 52 | 49 | 46 | 44 | 42 |
| 3   | 81  | 71  | 63  | 56  | 75  | 66  | 59  | 53  | 57 | 51 | 47 | 48 | 44 | 41 | 41 | 38 | 35 |
| 4   | 74  | 62  | 54  | 47  | 68  | 58  | 51  | 45  | 50 | 44 | 40 | 43 | 38 | 35 | 36 | 33 | 30 |
| 5   | 68  | 55  | 47  | 40  | 63  | 52  | 44  | 38  | 45 | 39 | 34 | 38 | 34 | 30 | 32 | 29 | 26 |
| 6   | 62  | 50  | 41  | 35  | 58  | 46  | 39  | 33  | 40 | 34 | 29 | 35 | 30 | 26 | 29 | 25 | 22 |
| 7   | 58  | 45  | 36  | 31  | 53  | 42  | 34  | 29  | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 23 | 20 |
| 8   | 53  | 41  | 32  | 27  | 49  | 38  | 31  | 26  | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 21 | 18 |
| 9   | 50  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 30 | 25 | 20 | 26 | 22 | 18 | 23 | 19 | 16 |
| 10  | 46  | 34  | 26  | 21  | 43  | 32  | 25  | 20  | 28 | 22 | 18 | 24 | 20 | 16 | 21 | 17 | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5668 | 5668 | 5668 |
| 5°  | 5684 | 5521 | 5531 |
| 10° | 5647 | 5412 | 5397 |
| 15° | 5594 | 5290 | 5246 |
| 20° | 5516 | 5157 | 5098 |
| 25° | 5428 | 5012 | 4940 |
| 30° | 5333 | 4868 | 4779 |
| 35° | 5224 | 4720 | 4635 |
| 40° | 5137 | 4578 | 4486 |
| 45° | 5010 | 4445 | 4354 |
| 50° | 4901 | 4294 | 4216 |
| 55° | 4787 | 4148 | 4055 |
| 60° | 4611 | 3967 | 3905 |
| 65° | 4419 | 3772 | 3724 |
| 70° | 4185 | 3547 | 3514 |
| 75° | 3859 | 3300 | 3315 |
| 80° | 3488 | 3046 | 3106 |
| 85° | 3005 | 2793 | 2937 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5010 cd/sqm

TEST NUMBER: P1001553

CATALOG NUMBER: SA4XXDIP-B575D365UB35-4F0-XX-W2A-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.9   | 1.7       |
| 10°-20°   | 188.7  | 4.9       |
| 20°-30°   | 285.3  | 7.4       |
| 30°-40°   | 345.2  | 9.0       |
| 40°-50°   | 364.9  | 9.5       |
| 50°-60°   | 343.5  | 8.9       |
| 60°-70°   | 285.0  | 7.4       |
| 70°-80°   | 200.0  | 5.2       |
| 80°-90°   | 113.7  | 3.0       |
| 90°-100°  | 83.0   | 2.2       |
| 100°-110° | 154.1  | 4.0       |
| 110°-120° | 232.6  | 6.0       |
| 120°-130° | 271.7  | 7.1       |
| 130°-140° | 278.7  | 7.2       |
| 140°-150° | 254.7  | 6.6       |
| 150°-160° | 204.1  | 5.3       |
| 160°-170° | 131.6  | 3.4       |
| 170°-180° | 45.4   | 1.2       |
| 0°-30°    | 539.9  | 14.0      |
| 0°-40°    | 885.1  | 23.0      |
| 0°-60°    | 1593.5 | 41.4      |
| 0°-90°    | 2192.3 | 57.0      |
| 90°-120°  | 469.6  | 12.2      |
| 90°-150°  | 1274.7 | 33.1      |
| 90°-180°  | 1656.0 | 43.0      |
| 0°-180°   | 3848.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 695 | 695   | 695 | 695   | 695 |      |
| 5°   | 696 | 694   | 688 | 694   | 694 | 66   |
| 15°  | 667 | 668   | 666 | 673   | 672 | 188  |
| 25°  | 610 | 615   | 617 | 626   | 627 | 281  |
| 35°  | 534 | 543   | 551 | 562   | 564 | 334  |
| 45°  | 445 | 460   | 475 | 488   | 492 | 344  |
| 55°  | 349 | 365   | 388 | 404   | 409 | 311  |
| 65°  | 241 | 266   | 293 | 312   | 318 | 239  |
| 75°  | 134 | 163   | 195 | 217   | 224 | 142  |
| 85°  | 41  | 74    | 109 | 132   | 140 | 43   |
| 90°  | 14  | 49    | 85  | 110   | 117 | 10   |
| 95°  | 30  | 43    | 76  | 99    | 106 | 32   |
| 105° | 114 | 132   | 163 | 185   | 179 | 120  |
| 115° | 205 | 213   | 238 | 256   | 261 | 202  |
| 125° | 285 | 286   | 305 | 320   | 326 | 255  |
| 135° | 352 | 351   | 358 | 371   | 376 | 271  |
| 145° | 404 | 404   | 404 | 410   | 413 | 253  |
| 155° | 442 | 443   | 442 | 443   | 442 | 204  |
| 165° | 467 | 465   | 465 | 468   | 464 | 132  |
| 175° | 477 | 475   | 476 | 479   | 474 | 45   |
| 180° | 477 | 477   | 477 | 477   | 477 |      |

TEST NUMBER: P1001553

CATALOG NUMBER: SA4XXDIP-B575D365UB35-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 |
| 2.5°   | 698.2 | 695.9 | 689.7 | 695.1 | 694.4 |
| 5°     | 695.9 | 693.6 | 688.1 | 694.4 | 693.6 |
| 7.5°   | 691.2 | 689.7 | 685.0 | 692.0 | 691.2 |
| 10°    | 685.0 | 684.2 | 680.3 | 687.4 | 686.6 |
| 12.5°  | 676.5 | 676.5 | 674.1 | 680.3 | 680.3 |
| 15°    | 667.1 | 667.9 | 665.6 | 672.6 | 671.8 |
| 17.5°  | 654.7 | 657.0 | 656.2 | 663.2 | 662.4 |
| 20°    | 641.4 | 643.8 | 644.5 | 652.3 | 652.3 |
| 22.5°  | 626.6 | 629.7 | 631.3 | 639.1 | 640.6 |
| 25°    | 610.3 | 615.0 | 617.3 | 625.9 | 626.6 |
| 27.5°  | 592.4 | 599.4 | 602.5 | 610.3 | 611.1 |
| 30°    | 574.5 | 580.7 | 586.2 | 594.7 | 596.3 |
| 32.5°  | 555.0 | 562.8 | 569.0 | 579.1 | 580.7 |
| 35°    | 534.0 | 543.3 | 551.1 | 562.0 | 564.4 |
| 37.5°  | 513.0 | 523.9 | 533.2 | 544.1 | 546.5 |
| 40°    | 492.7 | 502.9 | 513.8 | 525.4 | 528.6 |
| 42.5°  | 469.4 | 481.1 | 494.3 | 507.5 | 509.9 |
| 45°    | 445.3 | 460.1 | 474.8 | 488.1 | 492.0 |
| 47.5°  | 422.7 | 437.5 | 454.6 | 467.8 | 472.5 |
| 50°    | 397.8 | 414.9 | 432.0 | 447.6 | 452.3 |
| 52.5°  | 372.9 | 390.0 | 410.2 | 425.8 | 430.5 |
| 55°    | 348.7 | 365.1 | 388.4 | 404.0 | 408.7 |
| 57.5°  | 321.5 | 341.7 | 364.3 | 383.0 | 386.9 |
| 60°    | 295.0 | 315.3 | 341.0 | 358.9 | 365.1 |
| 62.5°  | 269.3 | 291.9 | 317.6 | 335.5 | 341.7 |
| 65°    | 241.3 | 266.2 | 292.7 | 312.1 | 318.4 |
| 67.5°  | 214.8 | 241.3 | 269.3 | 288.8 | 295.0 |
| 70°    | 187.6 | 214.1 | 243.6 | 264.7 | 270.1 |
| 72.5°  | 161.1 | 188.4 | 220.3 | 240.5 | 246.8 |
| 75°    | 133.9 | 162.7 | 195.4 | 217.2 | 224.2 |
| 77.5°  | 108.2 | 138.6 | 172.8 | 194.6 | 202.4 |
| 80°    | 84.8  | 116.0 | 150.2 | 173.6 | 179.8 |
| 82.5°  | 61.5  | 94.2  | 128.4 | 152.6 | 159.6 |
| 85°    | 41.3  | 74.0  | 109.0 | 132.3 | 140.1 |
| 87.5°  | 25.7  | 57.6  | 91.9  | 114.4 | 121.4 |
| 90°    | 13.6  | 48.6  | 85.0  | 109.6 | 116.6 |
| 92.5°  | 17.1  | 43.5  | 79.9  | 103.8 | 110.0 |
| 95°    | 29.7  | 43.3  | 75.6  | 98.7  | 106.1 |
| 97.5°  | 46.8  | 77.2  | 71.7  | 93.7  | 101.1 |
| 100°   | 67.2  | 93.8  | 74.9  | 89.8  | 95.6  |
| 102.5° | 90.7  | 112.1 | 146.0 | 85.9  | 92.1  |
| 105°   | 114.5 | 132.2 | 162.8 | 185.4 | 178.8 |
| 107.5° | 137.7 | 151.9 | 181.7 | 202.9 | 209.8 |
| 110°   | 160.4 | 172.4 | 201.8 | 220.5 | 227.7 |



TEST NUMBER: P1001553

CATALOG NUMBER: SA4XXDIP-B575D365UB35-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 182.5 | 194.0 | 220.4 | 237.2 | 244.8 |
| 115°   | 205.3 | 213.4 | 238.0 | 255.8 | 261.3 |
| 117.5° | 226.4 | 232.4 | 256.9 | 272.8 | 279.1 |
| 120°   | 247.0 | 250.8 | 273.0 | 289.3 | 294.8 |
| 122.5° | 267.0 | 267.7 | 289.4 | 305.4 | 310.1 |
| 125°   | 285.1 | 285.8 | 304.6 | 320.4 | 325.5 |
| 127.5° | 303.3 | 302.9 | 320.3 | 333.9 | 339.1 |
| 130°   | 320.0 | 319.7 | 333.2 | 347.5 | 352.2 |
| 132.5° | 336.1 | 336.1 | 346.8 | 360.4 | 364.7 |
| 135°   | 351.5 | 351.1 | 357.9 | 371.2 | 376.5 |
| 137.5° | 365.8 | 365.0 | 369.8 | 382.3 | 385.8 |
| 140°   | 379.7 | 379.6 | 381.1 | 392.3 | 396.5 |
| 142.5° | 391.4 | 392.8 | 392.4 | 401.7 | 404.8 |
| 145°   | 404.2 | 404.5 | 404.5 | 409.6 | 413.4 |
| 147.5° | 414.2 | 415.6 | 415.2 | 416.4 | 419.8 |
| 150°   | 425.3 | 425.9 | 425.6 | 425.6 | 425.9 |
| 152.5° | 433.8 | 434.8 | 434.1 | 434.8 | 434.5 |
| 155°   | 442.3 | 442.7 | 441.6 | 443.1 | 442.0 |
| 157.5° | 449.8 | 449.8 | 448.4 | 450.2 | 448.4 |
| 160°   | 456.3 | 455.2 | 454.8 | 457.0 | 454.8 |
| 162.5° | 462.0 | 460.5 | 460.2 | 462.3 | 459.8 |
| 165°   | 466.6 | 464.8 | 464.8 | 467.7 | 464.5 |
| 167.5° | 470.5 | 468.8 | 468.4 | 471.6 | 468.0 |
| 170°   | 473.8 | 471.6 | 472.0 | 474.8 | 471.3 |
| 172.5° | 475.9 | 473.8 | 474.1 | 477.0 | 473.0 |
| 175°   | 477.3 | 475.2 | 475.5 | 478.8 | 474.5 |
| 177.5° | 478.4 | 475.9 | 476.6 | 479.5 | 475.2 |
| 180°   | 477.3 | 477.3 | 477.3 | 477.3 | 477.3 |

(END OF REPORT)