

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: P1001573

Luminaire Tested: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001573  
REPORT IS A COMBINATION OF REPORTS P996195 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

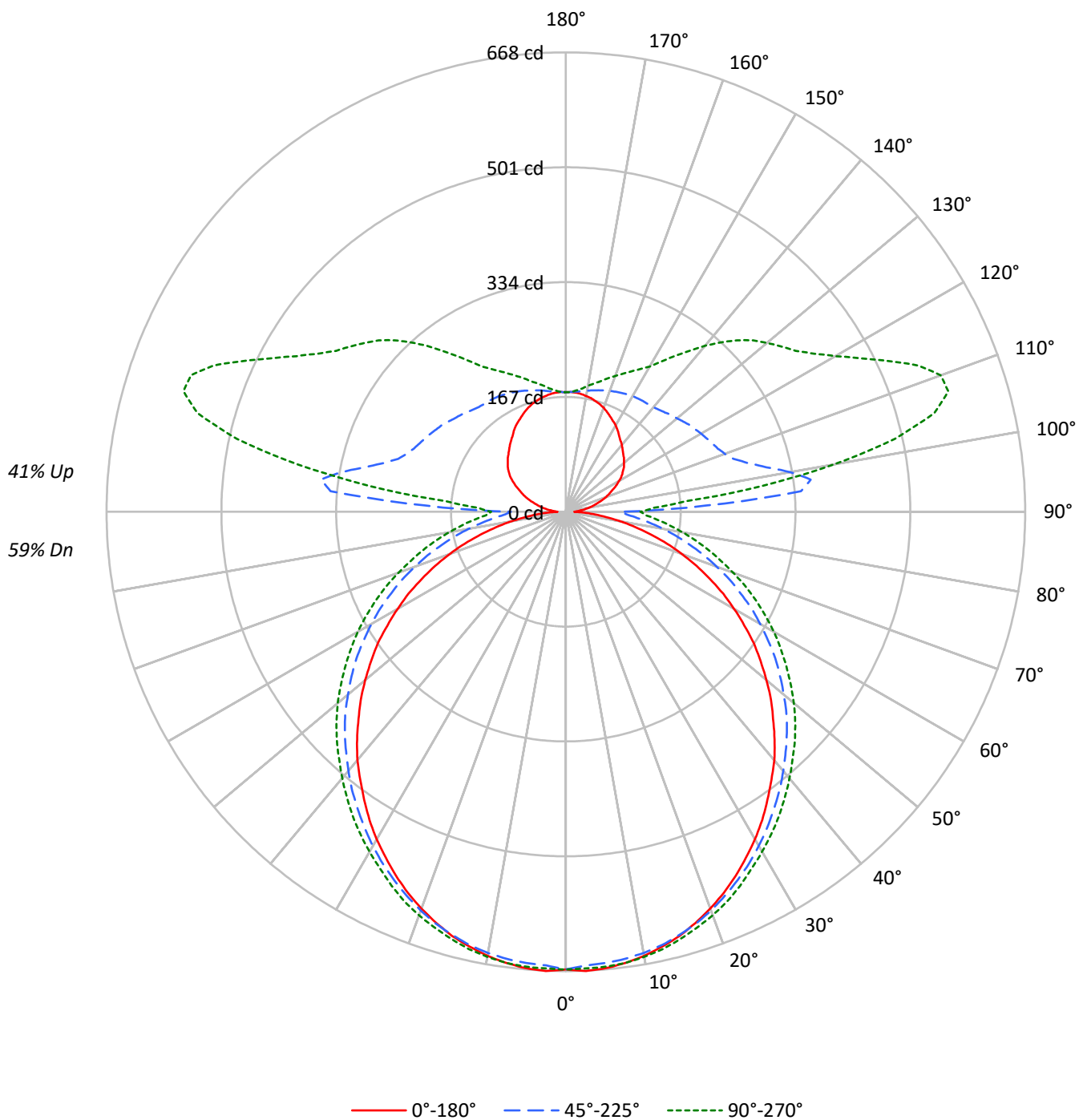
Lumens per Lamp: N/A  
Luminaire Lumens: 3539.5 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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: P1001573

CATALOG NUMBER: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4

### Luminous Intensity Polar Plot



TEST NUMBER: P1001573

CATALOG NUMBER: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4

**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 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 65 | 65 | 65 |
| 1   | 99  | 94  | 89  | 85  | 92  | 88  | 84  | 80  | 76 | 73 | 70 | 65 | 63 | 61 | 55 | 54 | 52 |
| 2   | 89  | 81  | 74  | 69  | 83  | 76  | 70  | 65  | 66 | 61 | 57 | 56 | 53 | 50 | 48 | 45 | 43 |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 54  | 58 | 52 | 48 | 50 | 45 | 42 | 42 | 39 | 36 |
| 4   | 74  | 63  | 54  | 48  | 69  | 59  | 51  | 45  | 51 | 45 | 40 | 44 | 39 | 35 | 37 | 34 | 31 |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 44  | 39  | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 30 | 27 |
| 6   | 63  | 50  | 41  | 35  | 58  | 47  | 39  | 33  | 41 | 35 | 30 | 35 | 30 | 27 | 30 | 26 | 23 |
| 7   | 58  | 45  | 37  | 31  | 54  | 42  | 35  | 29  | 37 | 31 | 26 | 32 | 27 | 23 | 28 | 24 | 21 |
| 8   | 54  | 41  | 33  | 27  | 50  | 38  | 31  | 26  | 34 | 28 | 23 | 29 | 24 | 21 | 25 | 21 | 18 |
| 9   | 50  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 |
| 10  | 47  | 34  | 27  | 22  | 43  | 32  | 25  | 21  | 28 | 23 | 19 | 25 | 20 | 17 | 22 | 18 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5427 | 5427 | 5427 |
| 5°  | 5442 | 5285 | 5295 |
| 10° | 5406 | 5182 | 5167 |
| 15° | 5356 | 5065 | 5022 |
| 20° | 5281 | 4938 | 4881 |
| 25° | 5197 | 4798 | 4729 |
| 30° | 5105 | 4660 | 4575 |
| 35° | 5001 | 4518 | 4437 |
| 40° | 4918 | 4383 | 4294 |
| 45° | 4796 | 4255 | 4168 |
| 50° | 4691 | 4111 | 4036 |
| 55° | 4583 | 3972 | 3883 |
| 60° | 4416 | 3798 | 3738 |
| 65° | 4230 | 3611 | 3565 |
| 70° | 4007 | 3397 | 3364 |
| 75° | 3694 | 3160 | 3173 |
| 80° | 3340 | 2916 | 2975 |
| 85° | 2874 | 2673 | 2811 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4796 cd/sqm

TEST NUMBER: P1001573

CATALOG NUMBER: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.1   | 1.8       |
| 10°-20°   | 180.7  | 5.1       |
| 20°-30°   | 273.2  | 7.7       |
| 30°-40°   | 330.5  | 9.3       |
| 40°-50°   | 349.4  | 9.9       |
| 50°-60°   | 328.8  | 9.3       |
| 60°-70°   | 272.9  | 7.7       |
| 70°-80°   | 191.5  | 5.4       |
| 80°-90°   | 108.6  | 3.1       |
| 90°-100°  | 193.5  | 5.5       |
| 100°-110° | 310.5  | 8.8       |
| 110°-120° | 266.2  | 7.5       |
| 120°-130° | 214.8  | 6.1       |
| 130°-140° | 172.0  | 4.9       |
| 140°-150° | 127.0  | 3.6       |
| 150°-160° | 88.2   | 2.5       |
| 160°-170° | 51.9   | 1.5       |
| 170°-180° | 16.9   | 0.5       |
| 0°-30°    | 516.9  | 14.6      |
| 0°-40°    | 847.4  | 23.9      |
| 0°-60°    | 1525.6 | 43.1      |
| 0°-90°    | 2098.6 | 59.3      |
| 90°-120°  | 770.3  | 21.8      |
| 90°-150°  | 1284.1 | 36.3      |
| 90°-180°  | 1441.0 | 40.7      |
| 0°-180°   | 3539.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 666 | 666   | 666 | 666   | 666 |      |
| 5°   | 666 | 664   | 659 | 665   | 664 | 63   |
| 15°  | 639 | 639   | 637 | 644   | 643 | 180  |
| 25°  | 584 | 589   | 591 | 599   | 600 | 269  |
| 35°  | 511 | 520   | 528 | 538   | 540 | 320  |
| 45°  | 426 | 440   | 455 | 467   | 471 | 329  |
| 55°  | 334 | 350   | 372 | 387   | 391 | 298  |
| 65°  | 231 | 255   | 280 | 299   | 305 | 229  |
| 75°  | 128 | 156   | 187 | 208   | 215 | 136  |
| 85°  | 40  | 71    | 104 | 127   | 134 | 41   |
| 90°  | 12  | 44    | 80  | 102   | 109 | 9    |
| 95°  | 21  | 70    | 343 | 223   | 175 | 20   |
| 105° | 47  | 80    | 274 | 551   | 555 | 50   |
| 115° | 75  | 100   | 235 | 436   | 518 | 75   |
| 125° | 101 | 119   | 220 | 362   | 408 | 90   |
| 135° | 118 | 140   | 204 | 309   | 353 | 91   |
| 145° | 135 | 154   | 196 | 249   | 276 | 85   |
| 155° | 153 | 165   | 191 | 216   | 225 | 71   |
| 165° | 166 | 172   | 183 | 194   | 197 | 47   |
| 175° | 174 | 174   | 175 | 178   | 177 | 16   |
| 180° | 174 | 174   | 174 | 174   | 174 |      |

TEST NUMBER: P1001573

CATALOG NUMBER: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 |
| 2.5°   | 668.5 | 666.3 | 660.3 | 665.5 | 664.8 |
| 5°     | 666.3 | 664.0 | 658.8 | 664.8 | 664.0 |
| 7.5°   | 661.8 | 660.3 | 655.8 | 662.5 | 661.8 |
| 10°    | 655.8 | 655.1 | 651.4 | 658.1 | 657.3 |
| 12.5°  | 647.6 | 647.6 | 645.4 | 651.4 | 651.4 |
| 15°    | 638.7 | 639.4 | 637.2 | 643.9 | 643.2 |
| 17.5°  | 626.8 | 629.0 | 628.2 | 635.0 | 634.2 |
| 20°    | 614.1 | 616.3 | 617.1 | 624.5 | 624.5 |
| 22.5°  | 599.9 | 602.9 | 604.4 | 611.9 | 613.3 |
| 25°    | 584.3 | 588.7 | 591.0 | 599.2 | 599.9 |
| 27.5°  | 567.1 | 573.8 | 576.8 | 584.3 | 585.0 |
| 30°    | 550.0 | 556.0 | 561.2 | 569.4 | 570.9 |
| 32.5°  | 531.4 | 538.8 | 544.8 | 554.5 | 556.0 |
| 35°    | 511.2 | 520.2 | 527.6 | 538.1 | 540.3 |
| 37.5°  | 491.1 | 501.6 | 510.5 | 520.9 | 523.2 |
| 40°    | 471.7 | 481.4 | 491.9 | 503.0 | 506.0 |
| 42.5°  | 449.4 | 460.6 | 473.2 | 485.9 | 488.1 |
| 45°    | 426.3 | 440.4 | 454.6 | 467.3 | 471.0 |
| 47.5°  | 404.7 | 418.8 | 435.2 | 447.9 | 452.4 |
| 50°    | 380.8 | 397.2 | 413.6 | 428.5 | 433.0 |
| 52.5°  | 357.0 | 373.4 | 392.7 | 407.7 | 412.1 |
| 55°    | 333.9 | 349.5 | 371.9 | 386.8 | 391.3 |
| 57.5°  | 307.8 | 327.2 | 348.8 | 366.7 | 370.4 |
| 60°    | 282.5 | 301.8 | 326.4 | 343.6 | 349.5 |
| 62.5°  | 257.9 | 279.5 | 304.1 | 321.2 | 327.2 |
| 65°    | 231.0 | 254.9 | 280.2 | 298.8 | 304.8 |
| 67.5°  | 205.7 | 231.0 | 257.9 | 276.5 | 282.5 |
| 70°    | 179.6 | 204.9 | 233.3 | 253.4 | 258.6 |
| 72.5°  | 154.3 | 180.4 | 210.9 | 230.3 | 236.2 |
| 75°    | 128.2 | 155.8 | 187.1 | 207.9 | 214.6 |
| 77.5°  | 103.6 | 132.7 | 165.4 | 186.3 | 193.8 |
| 80°    | 81.2  | 111.0 | 143.8 | 166.2 | 172.2 |
| 82.5°  | 58.9  | 90.2  | 123.0 | 146.1 | 152.8 |
| 85°    | 39.5  | 70.8  | 104.3 | 126.7 | 134.1 |
| 87.5°  | 24.6  | 55.1  | 87.9  | 109.6 | 116.3 |
| 90°    | 12.2  | 44.4  | 80.0  | 102.2 | 108.6 |
| 92.5°  | 16.0  | 63.6  | 203.3 | 134.4 | 127.2 |
| 95°    | 21.0  | 69.8  | 343.4 | 223.0 | 175.1 |
| 97.5°  | 27.7  | 70.0  | 359.2 | 362.2 | 287.5 |
| 100°   | 34.2  | 72.1  | 331.5 | 466.6 | 395.5 |
| 102.5° | 41.0  | 75.2  | 298.7 | 529.7 | 490.2 |
| 105°   | 46.7  | 79.6  | 273.5 | 550.7 | 554.8 |
| 107.5° | 54.6  | 84.8  | 255.7 | 539.2 | 583.1 |
| 110°   | 61.7  | 89.4  | 246.2 | 507.4 | 580.1 |



TEST NUMBER: P1001573

CATALOG NUMBER: SA4XXDIP-B575D365UB50-4F0-XX-W2A-D4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 68.4  | 94.7  | 239.5 | 469.4 | 555.4 |
| 115°   | 74.9  | 99.6  | 235.0 | 435.6 | 518.4 |
| 117.5° | 82.4  | 104.6 | 230.9 | 407.6 | 483.0 |
| 120°   | 89.2  | 108.9 | 227.2 | 387.2 | 452.5 |
| 122.5° | 96.0  | 113.6 | 223.1 | 373.2 | 427.6 |
| 125°   | 101.1 | 118.8 | 219.9 | 362.0 | 408.0 |
| 127.5° | 106.6 | 124.9 | 215.4 | 350.6 | 394.7 |
| 130°   | 110.2 | 130.2 | 211.3 | 338.4 | 382.0 |
| 132.5° | 114.7 | 135.4 | 208.0 | 324.8 | 369.1 |
| 135°   | 118.1 | 140.2 | 204.0 | 308.8 | 352.6 |
| 137.5° | 122.2 | 143.8 | 201.0 | 292.8 | 334.1 |
| 140°   | 126.6 | 147.7 | 198.4 | 277.2 | 315.0 |
| 142.5° | 130.6 | 151.3 | 196.9 | 263.0 | 294.9 |
| 145°   | 135.0 | 153.8 | 196.2 | 249.3 | 276.5 |
| 147.5° | 140.2 | 156.9 | 195.2 | 237.1 | 259.1 |
| 150°   | 145.0 | 159.8 | 194.2 | 228.7 | 244.1 |
| 152.5° | 148.7 | 162.6 | 192.5 | 222.2 | 233.8 |
| 155°   | 152.8 | 165.0 | 190.8 | 216.0 | 225.3 |
| 157.5° | 156.9 | 167.1 | 189.0 | 210.2 | 217.4 |
| 160°   | 160.7 | 169.0 | 187.0 | 204.4 | 210.2 |
| 162.5° | 164.1 | 170.6 | 184.9 | 198.8 | 203.4 |
| 165°   | 166.5 | 171.6 | 182.9 | 193.6 | 196.6 |
| 167.5° | 169.2 | 172.4 | 180.8 | 189.2 | 191.1 |
| 170°   | 170.9 | 173.1 | 178.8 | 184.8 | 186.0 |
| 172.5° | 172.6 | 173.6 | 176.7 | 180.8 | 180.8 |
| 175°   | 173.7 | 174.0 | 175.4 | 177.8 | 177.1 |
| 177.5° | 174.3 | 174.0 | 174.3 | 175.6 | 174.3 |
| 180°   | 174.0 | 174.0 | 174.0 | 174.0 | 174.0 |

(END OF REPORT)