

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: P1027925

Luminaire Tested: S125DIP-B375D610UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027925  
REPORT IS A COMBINATION OF REPORTS P1002056 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D610UB50-4F0-XX-W2A-F  
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

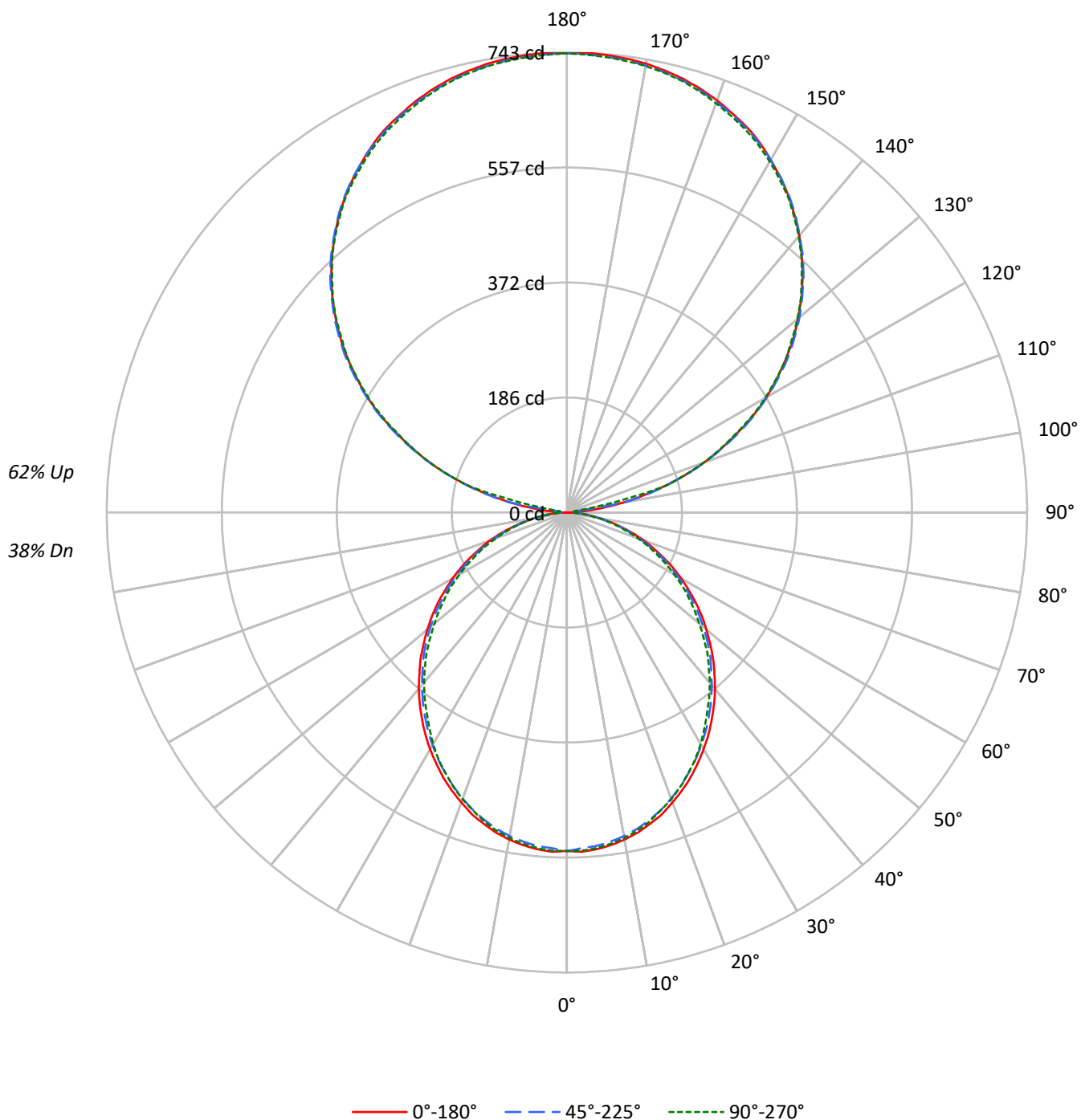
Lumens per Lamp: N/A  
Luminaire Lumens: 3702.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 28.4  
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: P1027925

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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 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 38 | 38 | 38 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 79 | 76 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 38 | 32 | 32 | 32 |
| 2   | 87  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 35 | 34 | 32 | 27 | 27 | 27 |
| 3   | 79  | 70  | 62  | 57  | 71 | 64 | 57 | 52 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 23 | 23 | 23 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 26 | 24 | 20 | 20 | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 23 | 21 | 17 | 17 | 17 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 | 15 | 15 |
| 7   | 56  | 44  | 36  | 31  | 51 | 41 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 | 13 | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 12 | 12 | 12 |
| 9   | 48  | 36  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 | 11 | 11 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 14 | 12 | 10 | 10 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3503 | 3503 | 3503 |
| 5°  | 3503 | 3422 | 3428 |
| 10° | 3474 | 3343 | 3333 |
| 15° | 3428 | 3249 | 3221 |
| 20° | 3367 | 3141 | 3091 |
| 25° | 3300 | 3022 | 2953 |
| 30° | 3221 | 2898 | 2808 |
| 35° | 3136 | 2769 | 2645 |
| 40° | 3047 | 2632 | 2500 |
| 45° | 2952 | 2498 | 2346 |
| 50° | 2847 | 2346 | 2166 |
| 55° | 2743 | 2180 | 2001 |
| 60° | 2619 | 2004 | 1809 |
| 65° | 2471 | 1800 | 1611 |
| 70° | 2321 | 1566 | 1382 |
| 75° | 2067 | 1289 | 1117 |
| 80° | 1761 | 962  | 821  |
| 85° | 1361 | 569  | 452  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

TEST NUMBER: P1027925

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.6   | 1.4       |
| 10°-20°   | 145.7  | 3.9       |
| 20°-30°   | 215.1  | 5.8       |
| 30°-40°   | 251.0  | 6.8       |
| 40°-50°   | 252.1  | 6.8       |
| 50°-60°   | 221.3  | 6.0       |
| 60°-70°   | 164.8  | 4.5       |
| 70°-80°   | 94.1   | 2.5       |
| 80°-90°   | 28.3   | 0.8       |
| 90°-100°  | 25.2   | 0.7       |
| 100°-110° | 167.3  | 4.5       |
| 110°-120° | 301.4  | 8.1       |
| 120°-130° | 386.9  | 10.4      |
| 130°-140° | 416.1  | 11.2      |
| 140°-150° | 390.5  | 10.5      |
| 150°-160° | 315.9  | 8.5       |
| 160°-170° | 204.3  | 5.5       |
| 170°-180° | 70.4   | 1.9       |
| 0°-30°    | 412.5  | 11.1      |
| 0°-40°    | 663.5  | 17.9      |
| 0°-60°    | 1136.8 | 30.7      |
| 0°-90°    | 1424.1 | 38.5      |
| 90°-120°  | 493.9  | 13.3      |
| 90°-150°  | 1687.3 | 45.6      |
| 90°-180°  | 2278.0 | 61.5      |
| 0°-180°   | 3702.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 547 | 547   | 547 | 547   | 547 |      |
| 5°   | 546 | 545   | 541 | 545   | 544 | 52   |
| 15°  | 520 | 519   | 514 | 516   | 516 | 147  |
| 25°  | 472 | 470   | 464 | 465   | 464 | 217  |
| 35°  | 408 | 406   | 400 | 398   | 394 | 255  |
| 45°  | 334 | 332   | 327 | 322   | 320 | 257  |
| 55°  | 254 | 253   | 247 | 243   | 240 | 227  |
| 65°  | 172 | 171   | 166 | 162   | 160 | 170  |
| 75°  | 91  | 90    | 88  | 87    | 85  | 97   |
| 85°  | 24  | 24    | 24  | 24    | 23  | 26   |
| 90°  | 0   | 5     | 9   | 12    | 13  | 3    |
| 95°  | 31  | 30    | 9   | 12    | 12  | 38   |
| 105° | 162 | 164   | 164 | 164   | 163 | 171  |
| 115° | 303 | 306   | 307 | 304   | 301 | 301  |
| 125° | 432 | 435   | 435 | 433   | 432 | 385  |
| 135° | 538 | 542   | 540 | 539   | 536 | 415  |
| 145° | 624 | 625   | 625 | 626   | 622 | 390  |
| 155° | 687 | 684   | 685 | 687   | 682 | 317  |
| 165° | 725 | 722   | 722 | 726   | 721 | 205  |
| 175° | 742 | 738   | 739 | 743   | 738 | 71   |
| 180° | 742 | 742   | 742 | 742   | 742 |      |

TEST NUMBER: P1027925

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 546.7 | 546.7 | 546.7 | 546.7 | 546.7 |
| 2.5°   | 548.5 | 547.2 | 542.8 | 547.2 | 546.7 |
| 5°     | 545.9 | 545.0 | 540.7 | 544.6 | 544.1 |
| 7.5°   | 542.0 | 541.1 | 536.3 | 540.2 | 539.8 |
| 10°    | 536.3 | 535.5 | 530.7 | 534.2 | 533.8 |
| 12.5°  | 529.4 | 527.7 | 523.4 | 526.0 | 526.0 |
| 15°    | 520.3 | 519.0 | 514.3 | 516.5 | 516.5 |
| 17.5°  | 510.8 | 508.7 | 503.9 | 506.5 | 504.3 |
| 20°    | 498.3 | 497.4 | 491.8 | 494.8 | 492.7 |
| 22.5°  | 485.7 | 484.0 | 478.8 | 480.6 | 479.3 |
| 25°    | 472.3 | 470.2 | 464.5 | 465.4 | 464.1 |
| 27.5°  | 456.8 | 455.5 | 449.8 | 450.3 | 449.0 |
| 30°    | 441.6 | 440.3 | 433.8 | 433.0 | 431.7 |
| 32.5°  | 425.2 | 423.0 | 417.4 | 415.7 | 413.1 |
| 35°    | 407.9 | 406.2 | 400.1 | 397.9 | 394.5 |
| 37.5°  | 390.1 | 388.0 | 382.4 | 379.3 | 377.2 |
| 40°    | 372.0 | 369.8 | 363.8 | 359.9 | 358.6 |
| 42.5°  | 352.5 | 350.8 | 344.7 | 341.3 | 339.1 |
| 45°    | 333.9 | 332.2 | 327.0 | 321.8 | 320.5 |
| 47.5°  | 313.6 | 314.0 | 307.5 | 302.3 | 299.3 |
| 50°    | 294.1 | 292.8 | 287.6 | 282.0 | 279.0 |
| 52.5°  | 274.2 | 273.4 | 267.7 | 263.0 | 259.5 |
| 55°    | 254.3 | 253.0 | 247.0 | 243.1 | 240.1 |
| 57.5°  | 233.1 | 232.7 | 227.5 | 222.3 | 221.0 |
| 60°    | 213.2 | 211.5 | 206.8 | 202.4 | 199.4 |
| 62.5°  | 192.5 | 191.2 | 187.3 | 182.5 | 180.4 |
| 65°    | 171.7 | 170.9 | 166.1 | 162.2 | 160.5 |
| 67.5°  | 151.4 | 149.7 | 146.2 | 142.7 | 141.9 |
| 70°    | 132.4 | 130.2 | 126.3 | 123.7 | 122.0 |
| 72.5°  | 111.6 | 110.3 | 108.1 | 105.1 | 103.4 |
| 75°    | 91.3  | 90.4  | 88.2  | 86.9  | 85.2  |
| 77.5°  | 72.2  | 71.8  | 70.5  | 69.6  | 68.3  |
| 80°    | 54.5  | 54.5  | 53.6  | 53.2  | 52.3  |
| 82.5°  | 38.9  | 38.1  | 38.1  | 37.2  | 37.2  |
| 85°    | 23.8  | 24.2  | 24.2  | 23.8  | 22.9  |
| 87.5°  | 11.7  | 11.7  | 11.2  | 11.2  | 10.4  |
| 90°    | 0.5   | 4.9   | 8.8   | 11.5  | 13.2  |
| 92.5°  | 10.4  | 5.5   | 8.8   | 11.5  | 12.1  |
| 95°    | 31.3  | 29.7  | 8.8   | 11.5  | 11.5  |
| 97.5°  | 58.8  | 62.1  | 9.9   | 11.0  | 11.5  |
| 100°   | 91.8  | 93.5  | 95.6  | 13.7  | 11.5  |
| 102.5° | 125.3 | 127.5 | 128.6 | 129.7 | 83.6  |
| 105°   | 161.6 | 163.8 | 163.8 | 163.8 | 163.3 |
| 107.5° | 199.0 | 199.0 | 200.1 | 200.6 | 198.4 |
| 110°   | 235.3 | 235.3 | 236.4 | 234.7 | 235.3 |

TEST NUMBER: P1027925

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 269.4 | 271.0 | 271.6 | 269.4 | 268.3 |
| 115°   | 303.4 | 306.2 | 306.7 | 304.5 | 301.2 |
| 117.5° | 339.2 | 339.2 | 341.4 | 338.1 | 337.0 |
| 120°   | 372.2 | 371.6 | 373.3 | 372.2 | 369.4 |
| 122.5° | 401.3 | 404.0 | 404.6 | 403.5 | 400.2 |
| 125°   | 431.5 | 435.4 | 435.4 | 433.2 | 431.5 |
| 127.5° | 460.7 | 463.4 | 462.9 | 461.8 | 457.4 |
| 130°   | 487.0 | 489.8 | 490.3 | 488.7 | 485.9 |
| 132.5° | 513.4 | 516.7 | 515.1 | 515.1 | 512.3 |
| 135°   | 538.2 | 541.5 | 540.4 | 539.3 | 536.0 |
| 137.5° | 561.3 | 564.5 | 563.4 | 563.4 | 560.7 |
| 140°   | 583.8 | 584.9 | 584.3 | 585.4 | 582.1 |
| 142.5° | 604.1 | 604.7 | 605.8 | 605.8 | 602.5 |
| 145°   | 623.9 | 625.0 | 625.0 | 625.6 | 622.3 |
| 147.5° | 641.5 | 641.5 | 642.1 | 642.6 | 638.8 |
| 150°   | 658.0 | 656.9 | 658.0 | 659.1 | 654.7 |
| 152.5° | 673.9 | 671.2 | 672.3 | 673.4 | 669.5 |
| 155°   | 687.1 | 683.8 | 684.9 | 686.6 | 682.2 |
| 157.5° | 697.6 | 695.9 | 695.9 | 697.6 | 693.2 |
| 160°   | 708.6 | 705.3 | 705.8 | 708.0 | 703.6 |
| 162.5° | 717.4 | 714.1 | 714.6 | 717.9 | 713.0 |
| 165°   | 725.1 | 721.8 | 722.3 | 725.6 | 721.2 |
| 167.5° | 731.1 | 727.8 | 728.4 | 732.2 | 727.3 |
| 170°   | 736.1 | 732.2 | 732.8 | 737.2 | 732.2 |
| 172.5° | 739.4 | 735.5 | 736.6 | 740.5 | 735.5 |
| 175°   | 741.6 | 738.3 | 738.8 | 743.2 | 738.3 |
| 177.5° | 743.2 | 739.9 | 740.5 | 744.3 | 739.9 |
| 180°   | 741.6 | 741.6 | 741.6 | 741.6 | 741.6 |

(END OF REPORT)