

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: P1008185

Luminaire Tested: S122DIP-B675D530UB2750-4F0-XX-W2A-F\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008185  
REPORT IS A COMBINATION OF REPORTS P984558 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D530UB2750-4F0-XX-W2A-F\_3000K  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

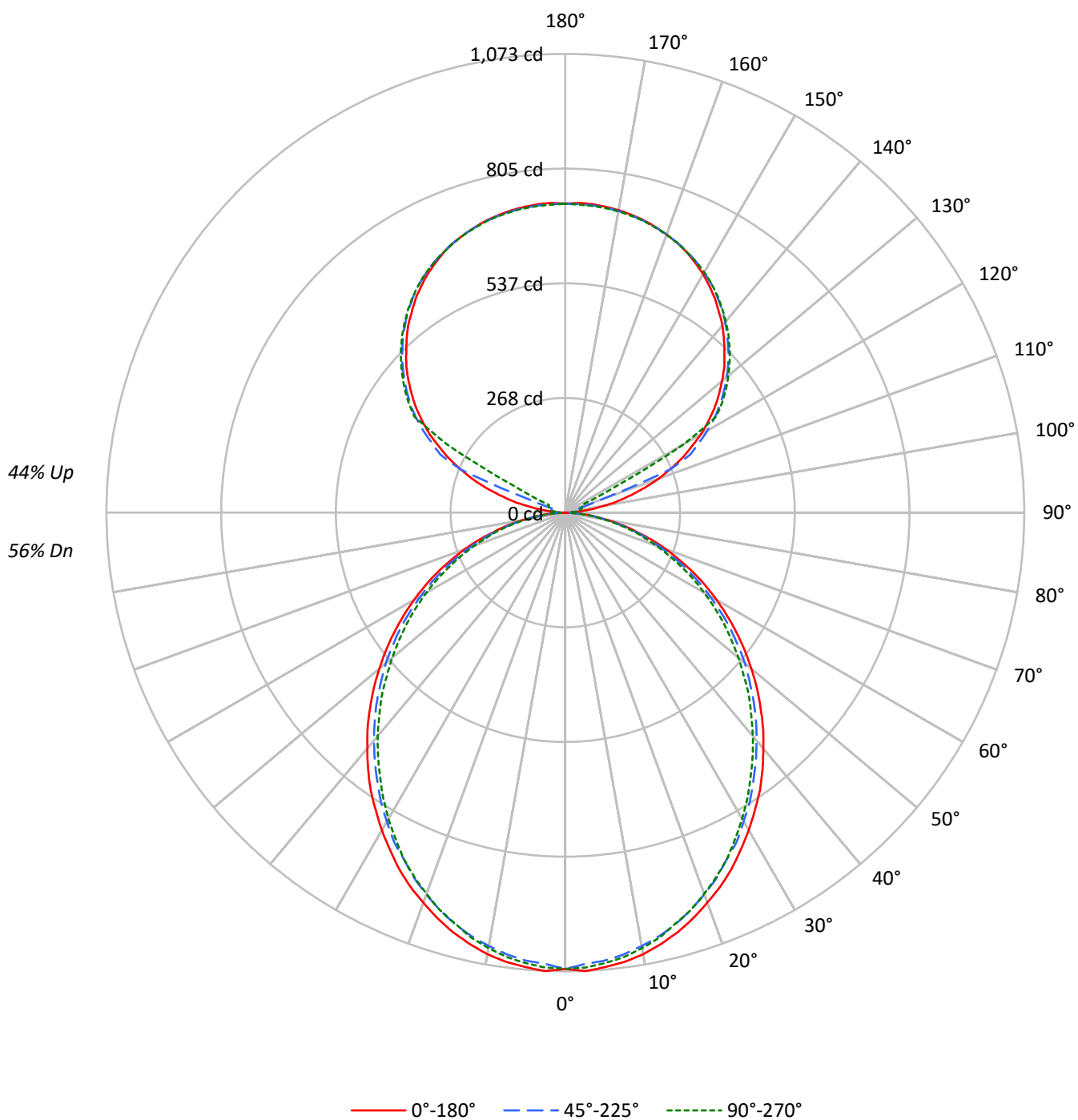
Lumens per Lamp: N/A  
Luminaire Lumens: 4835.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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

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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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 56 |    |    |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 82  | 76 | 74 | 71 | 65 | 63 | 61 | 55 | 53 | 52 | 47 |    |    |
| 2   | 90  | 83  | 77  | 71  | 84  | 77  | 72  | 67  | 67 | 63 | 59 | 57 | 54 | 51 | 48 | 46 | 44 | 40 |    |    |
| 3   | 82  | 73  | 65  | 59  | 76  | 68  | 61  | 56  | 59 | 54 | 50 | 50 | 47 | 43 | 43 | 40 | 37 | 34 |    |    |
| 4   | 75  | 64  | 56  | 50  | 70  | 60  | 53  | 48  | 52 | 47 | 42 | 45 | 41 | 37 | 38 | 35 | 32 | 29 |    |    |
| 5   | 69  | 57  | 49  | 43  | 64  | 54  | 46  | 41  | 47 | 41 | 37 | 40 | 36 | 32 | 34 | 31 | 28 | 25 |    |    |
| 6   | 64  | 52  | 43  | 38  | 59  | 48  | 41  | 36  | 42 | 36 | 32 | 37 | 32 | 28 | 31 | 28 | 25 | 22 |    |    |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 31  | 38 | 32 | 28 | 33 | 29 | 25 | 28 | 25 | 22 | 20 |    |    |
| 8   | 55  | 42  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 30 | 26 | 22 | 26 | 23 | 20 | 17 |    |    |
| 9   | 51  | 39  | 31  | 26  | 47  | 36  | 30  | 25  | 32 | 26 | 23 | 28 | 23 | 20 | 24 | 21 | 18 | 16 |    |    |
| 10  | 48  | 36  | 28  | 23  | 44  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16891 | 16891 | 16891 |
| 5°  | 16919 | 16102 | 15987 |
| 10° | 16782 | 15368 | 15062 |
| 15° | 16536 | 14627 | 14090 |
| 20° | 16204 | 13824 | 13168 |
| 25° | 15873 | 12984 | 12249 |
| 30° | 15456 | 12195 | 11284 |
| 35° | 15064 | 11362 | 10336 |
| 40° | 14578 | 10541 | 9441  |
| 45° | 14096 | 9725  | 8563  |
| 50° | 13569 | 8896  | 7650  |
| 55° | 13014 | 8010  | 6787  |
| 60° | 12393 | 7049  | 5890  |
| 65° | 11710 | 6075  | 4946  |
| 70° | 10844 | 5005  | 3993  |
| 75° | 9644  | 3859  | 3084  |
| 80° | 8191  | 2622  | 1985  |
| 85° | 5947  | 1220  | 844   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14096 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.4  | 2.1       |
| 10°-20°   | 282.6  | 5.8       |
| 20°-30°   | 415.3  | 8.6       |
| 30°-40°   | 482.3  | 10.0      |
| 40°-50°   | 481.7  | 10.0      |
| 50°-60°   | 420.0  | 8.7       |
| 60°-70°   | 310.5  | 6.4       |
| 70°-80°   | 175.7  | 3.6       |
| 80°-90°   | 47.6   | 1.0       |
| 90°-100°  | 23.8   | 0.5       |
| 100°-110° | 88.8   | 1.8       |
| 110°-120° | 235.6  | 4.9       |
| 120°-130° | 390.8  | 8.1       |
| 130°-140° | 415.1  | 8.6       |
| 140°-150° | 385.8  | 8.0       |
| 150°-160° | 310.2  | 6.4       |
| 160°-170° | 199.9  | 4.1       |
| 170°-180° | 68.8   | 1.4       |
| 0°-30°    | 798.3  | 16.5      |
| 0°-40°    | 1280.6 | 26.5      |
| 0°-60°    | 2182.4 | 45.1      |
| 0°-90°    | 2716.3 | 56.2      |
| 90°-120°  | 348.3  | 7.2       |
| 90°-150°  | 1539.9 | 31.8      |
| 90°-180°  | 2119.0 | 43.8      |
| 0°-180°   | 4835.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1067 | 1067  | 1067 | 1067  | 1067 |      |
| 5°   | 1067 | 1063  | 1052 | 1060  | 1058 | 101  |
| 15°  | 1016 | 1010  | 996  | 1000  | 995  | 286  |
| 25°  | 919  | 911   | 894  | 896   | 894  | 423  |
| 35°  | 793  | 783   | 766  | 760   | 755  | 495  |
| 45°  | 645  | 638   | 623  | 612   | 608  | 498  |
| 55°  | 488  | 482   | 470  | 458   | 452  | 437  |
| 65°  | 329  | 323   | 313  | 304   | 299  | 326  |
| 75°  | 172  | 170   | 165  | 159   | 161  | 184  |
| 85°  | 42   | 41    | 40   | 37    | 36   | 47   |
| 90°  | 0    | 6     | 10   | 13    | 14   | 4    |
| 95°  | 34   | 17    | 20   | 23    | 22   | 40   |
| 105° | 159  | 175   | 32   | 38    | 40   | 170  |
| 115° | 301  | 310   | 323  | 80    | 43   | 296  |
| 125° | 425  | 432   | 442  | 446   | 447  | 379  |
| 135° | 526  | 534   | 539  | 544   | 543  | 406  |
| 145° | 610  | 610   | 619  | 622   | 620  | 382  |
| 155° | 672  | 667   | 674  | 677   | 672  | 310  |
| 165° | 708  | 705   | 706  | 710   | 706  | 200  |
| 175° | 724  | 721   | 722  | 725   | 720  | 69   |
| 180° | 723  | 723   | 723  | 723   | 723  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1067.1 | 1067.1 | 1067.1 | 1067.1 | 1067.1 |
| 2.5°   | 1073.3 | 1068.2 | 1056.9 | 1067.1 | 1065.1 |
| 5°     | 1067.1 | 1063.0 | 1051.8 | 1060.0 | 1057.9 |
| 7.5°   | 1060.0 | 1053.8 | 1042.5 | 1050.7 | 1048.7 |
| 10°    | 1048.7 | 1041.5 | 1029.2 | 1037.4 | 1034.3 |
| 12.5°  | 1033.3 | 1027.1 | 1014.8 | 1019.9 | 1017.9 |
| 15°    | 1015.8 | 1009.7 | 996.3  | 1000.5 | 995.3  |
| 17.5°  | 994.3  | 988.1  | 974.8  | 979.9  | 974.8  |
| 20°    | 970.7  | 964.5  | 950.2  | 953.3  | 949.1  |
| 22.5°  | 947.1  | 937.9  | 924.5  | 924.5  | 922.5  |
| 25°    | 919.4  | 911.2  | 893.7  | 895.8  | 893.7  |
| 27.5°  | 888.6  | 881.4  | 868.1  | 865.0  | 859.9  |
| 30°    | 857.8  | 849.6  | 834.2  | 831.1  | 827.0  |
| 32.5°  | 825.0  | 818.8  | 802.4  | 796.3  | 792.2  |
| 35°    | 793.2  | 782.9  | 766.5  | 760.3  | 755.2  |
| 37.5°  | 757.3  | 748.0  | 731.6  | 724.4  | 719.3  |
| 40°    | 720.3  | 712.1  | 695.7  | 686.5  | 682.4  |
| 42.5°  | 684.4  | 676.2  | 659.8  | 649.5  | 643.4  |
| 45°    | 645.4  | 638.2  | 622.8  | 611.6  | 607.5  |
| 47.5°  | 607.5  | 600.3  | 583.9  | 572.6  | 566.4  |
| 50°    | 567.4  | 562.3  | 547.9  | 533.6  | 528.4  |
| 52.5°  | 528.4  | 521.3  | 507.9  | 496.6  | 489.5  |
| 55°    | 488.4  | 482.3  | 470.0  | 457.6  | 452.5  |
| 57.5°  | 448.4  | 443.3  | 429.9  | 417.6  | 413.5  |
| 60°    | 408.4  | 404.3  | 389.9  | 378.6  | 375.6  |
| 62.5°  | 369.4  | 362.2  | 352.0  | 341.7  | 337.6  |
| 65°    | 329.4  | 323.2  | 313.0  | 303.7  | 298.6  |
| 67.5°  | 288.3  | 283.2  | 274.0  | 266.8  | 262.7  |
| 70°    | 250.4  | 246.3  | 237.0  | 229.8  | 225.7  |
| 72.5°  | 211.4  | 207.3  | 202.1  | 195.0  | 191.9  |
| 75°    | 172.4  | 170.3  | 165.2  | 159.0  | 161.1  |
| 77.5°  | 137.5  | 133.4  | 131.3  | 128.3  | 125.2  |
| 80°    | 102.6  | 101.6  | 99.5   | 96.5   | 94.4   |
| 82.5°  | 69.8   | 69.8   | 68.7   | 64.6   | 64.6   |
| 85°    | 42.1   | 41.0   | 40.0   | 36.9   | 35.9   |
| 87.5°  | 18.5   | 16.4   | 14.4   | 11.3   | 10.3   |
| 90°    | 0.5    | 6.3    | 10.5   | 13.1   | 14.1   |
| 92.5°  | 13.1   | 11.0   | 12.6   | 13.6   | 14.1   |
| 95°    | 34.0   | 16.7   | 20.4   | 23.0   | 22.5   |
| 97.5°  | 61.2   | 18.3   | 26.7   | 28.2   | 28.8   |
| 100°   | 92.6   | 20.9   | 29.8   | 34.0   | 35.0   |
| 102.5° | 127.1  | 126.0  | 30.9   | 36.6   | 38.2   |
| 105°   | 159.0  | 174.7  | 31.9   | 37.7   | 39.7   |
| 107.5° | 196.1  | 209.2  | 32.9   | 38.7   | 40.8   |
| 110°   | 231.7  | 242.6  | 91.5   | 39.2   | 41.3   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 265.1 | 274.5 | 265.7 | 40.3  | 41.8  |
| 115°   | 300.7 | 309.6 | 322.7 | 80.5  | 42.9  |
| 117.5° | 331.5 | 342.0 | 350.9 | 276.1 | 139.1 |
| 120°   | 366.1 | 373.9 | 383.3 | 389.6 | 319.0 |
| 122.5° | 395.3 | 403.7 | 414.2 | 417.3 | 417.8 |
| 125°   | 425.2 | 432.0 | 441.9 | 445.5 | 447.1 |
| 127.5° | 452.3 | 459.7 | 467.5 | 472.7 | 473.3 |
| 130°   | 478.0 | 486.3 | 492.1 | 497.8 | 497.3 |
| 132.5° | 504.1 | 510.9 | 516.7 | 521.4 | 520.9 |
| 135°   | 526.1 | 534.4 | 539.2 | 544.4 | 543.3 |
| 137.5° | 549.1 | 555.4 | 560.6 | 565.8 | 564.3 |
| 140°   | 571.6 | 575.8 | 581.5 | 586.2 | 583.6 |
| 142.5° | 590.4 | 594.1 | 600.9 | 605.0 | 602.4 |
| 145°   | 610.3 | 609.8 | 618.6 | 622.3 | 619.7 |
| 147.5° | 627.5 | 626.0 | 634.9 | 637.5 | 635.4 |
| 150°   | 644.3 | 640.6 | 649.0 | 652.1 | 649.5 |
| 152.5° | 658.4 | 654.2 | 662.0 | 665.2 | 661.5 |
| 155°   | 672.0 | 667.3 | 673.6 | 676.7 | 672.5 |
| 157.5° | 683.0 | 678.8 | 683.5 | 687.1 | 683.0 |
| 160°   | 692.4 | 689.2 | 692.4 | 695.5 | 691.9 |
| 162.5° | 700.7 | 697.6 | 700.2 | 703.9 | 699.2 |
| 165°   | 708.1 | 704.9 | 706.5 | 710.2 | 706.5 |
| 167.5° | 713.8 | 710.7 | 712.2 | 715.9 | 711.2 |
| 170°   | 718.5 | 715.4 | 716.4 | 720.1 | 715.4 |
| 172.5° | 721.7 | 718.5 | 719.6 | 723.2 | 718.5 |
| 175°   | 724.3 | 720.6 | 721.7 | 725.3 | 720.1 |
| 177.5° | 725.3 | 721.7 | 722.2 | 725.8 | 721.1 |
| 180°   | 722.7 | 722.7 | 722.7 | 722.7 | 722.7 |

(END OF REPORT)