

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: P1008196

Luminaire Tested: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008196  
REPORT IS A COMBINATION OF REPORTS P984614 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_3500K  
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

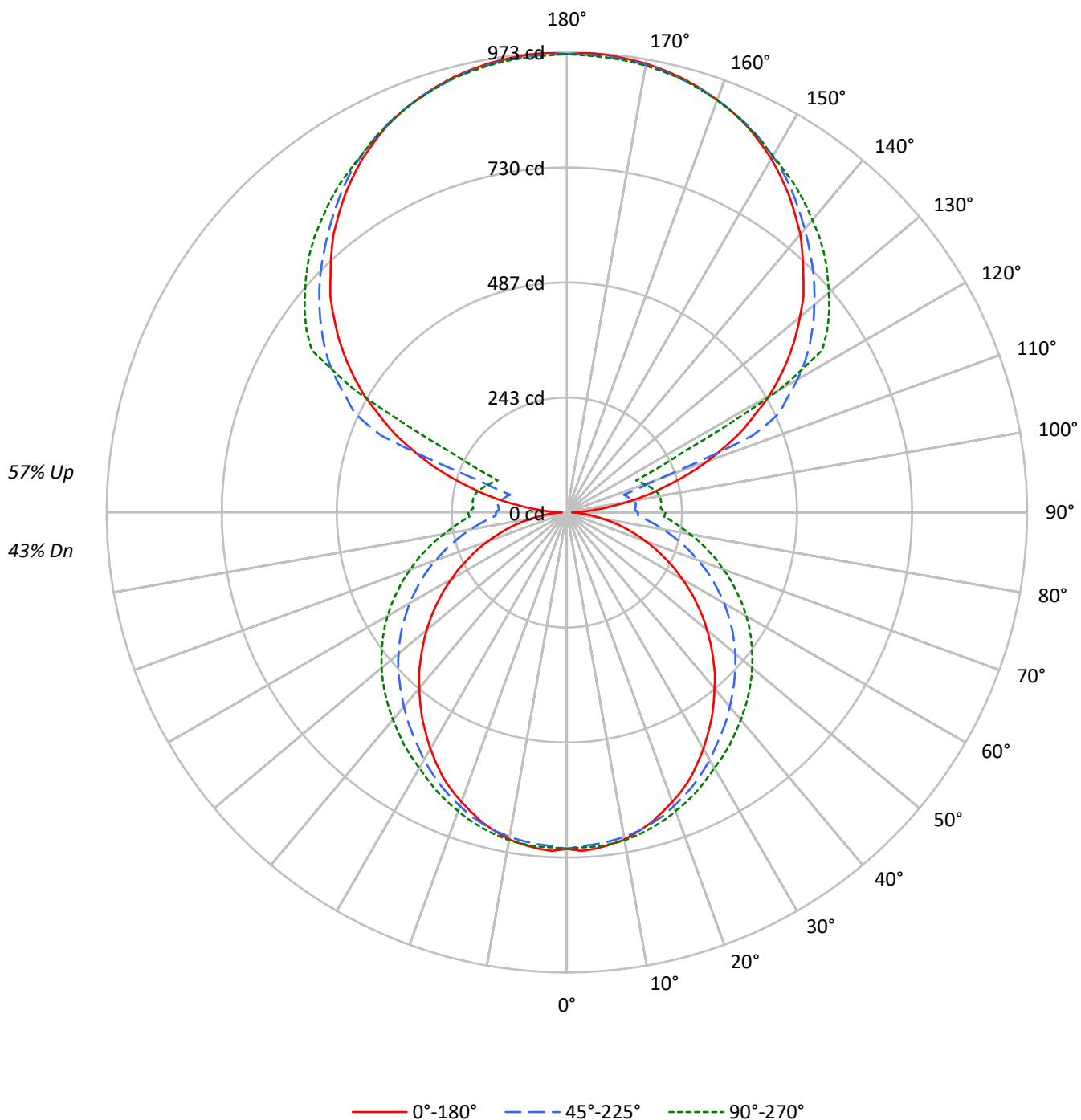
Lumens per Lamp: N/A  
Luminaire Lumens: 5557.9 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 57  
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 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |    |    |
| 1   | 95  | 90  | 86  | 82  | 87 | 82 | 79 | 75 | 68 | 65 | 63 | 54 | 53 | 51 | 42 | 41 | 40 | 34 |    |    |
| 2   | 86  | 78  | 71  | 66  | 78 | 71 | 66 | 61 | 59 | 54 | 51 | 47 | 44 | 41 | 36 | 34 | 32 | 27 |    |    |
| 3   | 78  | 68  | 60  | 54  | 71 | 62 | 56 | 50 | 51 | 46 | 42 | 41 | 38 | 34 | 32 | 29 | 27 | 23 |    |    |
| 4   | 71  | 60  | 52  | 45  | 65 | 55 | 48 | 42 | 45 | 40 | 35 | 36 | 32 | 29 | 28 | 25 | 23 | 19 |    |    |
| 5   | 65  | 53  | 45  | 39  | 59 | 49 | 41 | 36 | 40 | 35 | 30 | 33 | 28 | 25 | 25 | 22 | 20 | 16 |    |    |
| 6   | 60  | 48  | 39  | 33  | 54 | 44 | 36 | 31 | 36 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 17 | 14 |    |    |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 12 |    |    |
| 8   | 51  | 39  | 31  | 25  | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 11 |    |    |
| 9   | 48  | 35  | 28  | 22  | 43 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |    |    |
| 10  | 44  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 14 | 16 | 13 | 11 | 9  |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11259 | 11259 | 11259 |
| 5°  | 11309 | 10779 | 10717 |
| 10° | 11234 | 10404 | 10254 |
| 15° | 11076 | 10019 | 9778  |
| 20° | 10876 | 9614  | 9325  |
| 25° | 10678 | 9225  | 8916  |
| 30° | 10402 | 8831  | 8510  |
| 35° | 10121 | 8451  | 8212  |
| 40° | 9826  | 8121  | 7915  |
| 45° | 9546  | 7823  | 7658  |
| 50° | 9245  | 7548  | 7402  |
| 55° | 8926  | 7255  | 7142  |
| 60° | 8539  | 6952  | 6870  |
| 65° | 8134  | 6603  | 6555  |
| 70° | 7678  | 6226  | 6218  |
| 75° | 7093  | 5851  | 5899  |
| 80° | 6171  | 5460  | 5569  |
| 85° | 5241  | 5092  | 5284  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.4   | 1.2       |
| 10°-20°   | 193.4  | 3.5       |
| 20°-30°   | 293.0  | 5.3       |
| 30°-40°   | 356.8  | 6.4       |
| 40°-50°   | 383.9  | 6.9       |
| 50°-60°   | 372.8  | 6.7       |
| 60°-70°   | 325.6  | 5.9       |
| 70°-80°   | 250.6  | 4.5       |
| 80°-90°   | 169.5  | 3.1       |
| 90°-100°  | 147.8  | 2.7       |
| 100°-110° | 203.7  | 3.7       |
| 110°-120° | 371.9  | 6.7       |
| 120°-130° | 555.3  | 10.0      |
| 130°-140° | 569.9  | 10.3      |
| 140°-150° | 519.7  | 9.4       |
| 150°-160° | 416.1  | 7.5       |
| 160°-170° | 268.1  | 4.8       |
| 170°-180° | 92.3   | 1.7       |
| 0°-30°    | 553.8  | 10.0      |
| 0°-40°    | 910.7  | 16.4      |
| 0°-60°    | 1667.4 | 30.0      |
| 0°-90°    | 2413.1 | 43.4      |
| 90°-120°  | 723.4  | 13.0      |
| 90°-150°  | 2368.4 | 42.6      |
| 90°-180°  | 3145.0 | 56.6      |
| 0°-180°   | 5557.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 711 | 711   | 711 | 711   | 711 |      |
| 5°   | 713 | 710   | 704 | 710   | 709 | 68   |
| 15°  | 680 | 682   | 682 | 692   | 691 | 192  |
| 25°  | 618 | 626   | 635 | 647   | 650 | 284  |
| 35°  | 533 | 550   | 570 | 593   | 600 | 333  |
| 45°  | 437 | 465   | 501 | 533   | 543 | 337  |
| 55°  | 335 | 372   | 426 | 463   | 476 | 300  |
| 65°  | 229 | 279   | 340 | 382   | 396 | 227  |
| 75°  | 127 | 184   | 250 | 295   | 308 | 134  |
| 85°  | 37  | 101   | 167 | 210   | 225 | 39   |
| 90°  | 11  | 78    | 150 | 195   | 209 | 10   |
| 95°  | 54  | 79    | 146 | 189   | 200 | 60   |
| 105° | 218 | 269   | 132 | 175   | 189 | 234  |
| 115° | 408 | 431   | 495 | 201   | 162 | 401  |
| 125° | 572 | 582   | 628 | 661   | 672 | 511  |
| 135° | 707 | 718   | 735 | 763   | 770 | 546  |
| 145° | 819 | 818   | 830 | 841   | 843 | 512  |
| 155° | 902 | 895   | 904 | 908   | 902 | 415  |
| 165° | 950 | 946   | 948 | 953   | 948 | 268  |
| 175° | 972 | 967   | 968 | 973   | 966 | 92   |
| 180° | 970 | 970   | 970 | 970   | 970 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 |
| 2.5°   | 716.4 | 713.3 | 706.1 | 711.3 | 709.2 |
| 5°     | 713.3 | 710.3 | 704.1 | 710.3 | 709.2 |
| 7.5°   | 708.2 | 706.1 | 701.0 | 708.2 | 707.2 |
| 10°    | 702.0 | 699.9 | 696.8 | 705.1 | 704.1 |
| 12.5°  | 691.7 | 692.7 | 690.7 | 698.9 | 697.9 |
| 15°    | 680.4 | 682.4 | 682.4 | 691.7 | 690.7 |
| 17.5°  | 665.9 | 670.0 | 673.1 | 682.4 | 682.4 |
| 20°    | 651.5 | 656.6 | 660.8 | 672.1 | 672.1 |
| 22.5°  | 636.0 | 642.2 | 648.4 | 659.7 | 661.8 |
| 25°    | 618.5 | 625.7 | 635.0 | 647.4 | 650.5 |
| 27.5°  | 597.9 | 609.2 | 619.5 | 635.0 | 637.1 |
| 30°    | 577.3 | 590.7 | 604.1 | 620.6 | 623.7 |
| 32.5°  | 554.6 | 570.1 | 586.5 | 606.1 | 612.3 |
| 35°    | 532.9 | 550.5 | 570.1 | 592.7 | 600.0 |
| 37.5°  | 509.2 | 528.8 | 553.6 | 578.3 | 585.5 |
| 40°    | 485.5 | 508.2 | 536.0 | 562.8 | 572.1 |
| 42.5°  | 462.8 | 485.5 | 518.5 | 548.4 | 557.7 |
| 45°    | 437.1 | 464.9 | 501.0 | 532.9 | 543.3 |
| 47.5°  | 412.3 | 442.2 | 483.5 | 516.5 | 527.8 |
| 50°    | 386.6 | 418.5 | 464.9 | 500.0 | 511.3 |
| 52.5°  | 361.8 | 395.8 | 445.3 | 481.4 | 493.8 |
| 55°    | 335.0 | 372.1 | 425.7 | 462.8 | 476.2 |
| 57.5°  | 309.3 | 350.5 | 404.1 | 444.3 | 457.7 |
| 60°    | 281.4 | 325.7 | 384.5 | 423.7 | 438.1 |
| 62.5°  | 256.7 | 303.1 | 361.8 | 404.1 | 417.5 |
| 65°    | 228.8 | 279.4 | 340.2 | 382.4 | 395.8 |
| 67.5°  | 204.1 | 256.7 | 318.5 | 360.8 | 375.2 |
| 70°    | 177.3 | 230.9 | 294.8 | 339.1 | 351.5 |
| 72.5°  | 152.6 | 208.2 | 273.2 | 316.5 | 331.9 |
| 75°    | 126.8 | 184.5 | 250.5 | 294.8 | 308.2 |
| 77.5°  | 102.1 | 161.8 | 228.8 | 273.2 | 287.6 |
| 80°    | 77.3  | 140.2 | 207.2 | 250.5 | 264.9 |
| 82.5°  | 56.7  | 118.5 | 186.6 | 229.9 | 243.3 |
| 85°    | 37.1  | 101.0 | 167.0 | 210.3 | 224.7 |
| 87.5°  | 22.7  | 84.5  | 150.5 | 192.8 | 206.2 |
| 90°    | 11.0  | 78.5  | 150.1 | 194.8 | 208.6 |
| 92.5°  | 26.8  | 78.6  | 143.6 | 185.2 | 198.3 |
| 95°    | 53.8  | 79.1  | 145.9 | 188.6 | 200.3 |
| 97.5°  | 89.3  | 76.1  | 147.1 | 187.4 | 200.4 |
| 100°   | 131.4 | 73.5  | 143.1 | 186.8 | 199.6 |
| 102.5° | 176.7 | 209.3 | 137.3 | 182.1 | 195.5 |
| 105°   | 218.5 | 269.3 | 131.5 | 175.2 | 189.4 |
| 107.5° | 268.3 | 310.5 | 125.6 | 168.4 | 182.5 |
| 110°   | 314.9 | 350.2 | 198.1 | 160.8 | 175.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 359.8 | 388.9 | 424.4 | 155.0 | 168.5 |
| 115°   | 407.5 | 430.8 | 494.7 | 200.8 | 161.6 |
| 117.5° | 447.9 | 470.1 | 525.3 | 456.0 | 282.5 |
| 120°   | 494.2 | 508.8 | 562.6 | 599.9 | 516.6 |
| 122.5° | 533.5 | 545.7 | 597.9 | 629.9 | 639.9 |
| 125°   | 572.4 | 581.6 | 627.8 | 660.6 | 672.0 |
| 127.5° | 608.9 | 617.6 | 656.1 | 688.8 | 698.8 |
| 130°   | 643.3 | 653.4 | 682.8 | 715.3 | 722.9 |
| 132.5° | 678.4 | 686.4 | 709.6 | 739.6 | 747.1 |
| 135°   | 706.7 | 718.0 | 734.6 | 763.3 | 770.1 |
| 137.5° | 737.6 | 746.0 | 758.2 | 784.9 | 790.0 |
| 140°   | 767.8 | 772.4 | 782.2 | 805.0 | 807.6 |
| 142.5° | 793.0 | 796.9 | 806.1 | 824.1 | 825.7 |
| 145°   | 818.7 | 818.0 | 829.9 | 841.0 | 842.6 |
| 147.5° | 841.8 | 839.7 | 851.7 | 856.2 | 856.5 |
| 150°   | 864.3 | 859.4 | 870.6 | 874.8 | 871.3 |
| 152.5° | 883.2 | 877.6 | 888.1 | 892.4 | 887.4 |
| 155°   | 901.5 | 895.2 | 903.6 | 907.8 | 902.2 |
| 157.5° | 916.2 | 910.6 | 916.9 | 921.8 | 916.2 |
| 160°   | 928.8 | 924.6 | 928.8 | 933.0 | 928.1 |
| 162.5° | 940.1 | 935.8 | 939.4 | 944.3 | 938.0 |
| 165°   | 949.9 | 945.7 | 947.8 | 952.7 | 947.8 |
| 167.5° | 957.6 | 953.4 | 955.5 | 960.4 | 954.1 |
| 170°   | 963.9 | 959.7 | 961.1 | 966.0 | 959.7 |
| 172.5° | 968.1 | 963.9 | 965.3 | 970.2 | 963.9 |
| 175°   | 971.6 | 966.7 | 968.1 | 973.0 | 966.0 |
| 177.5° | 973.0 | 968.1 | 968.8 | 973.7 | 967.4 |
| 180°   | 969.5 | 969.5 | 969.5 | 969.5 | 969.5 |

(END OF REPORT)