

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: P1009567

Luminaire Tested: S122DIP-B865D725UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009567  
REPORT IS A COMBINATION OF REPORTS P984901 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B865D725UB27-4F0-XX-W2A-D  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

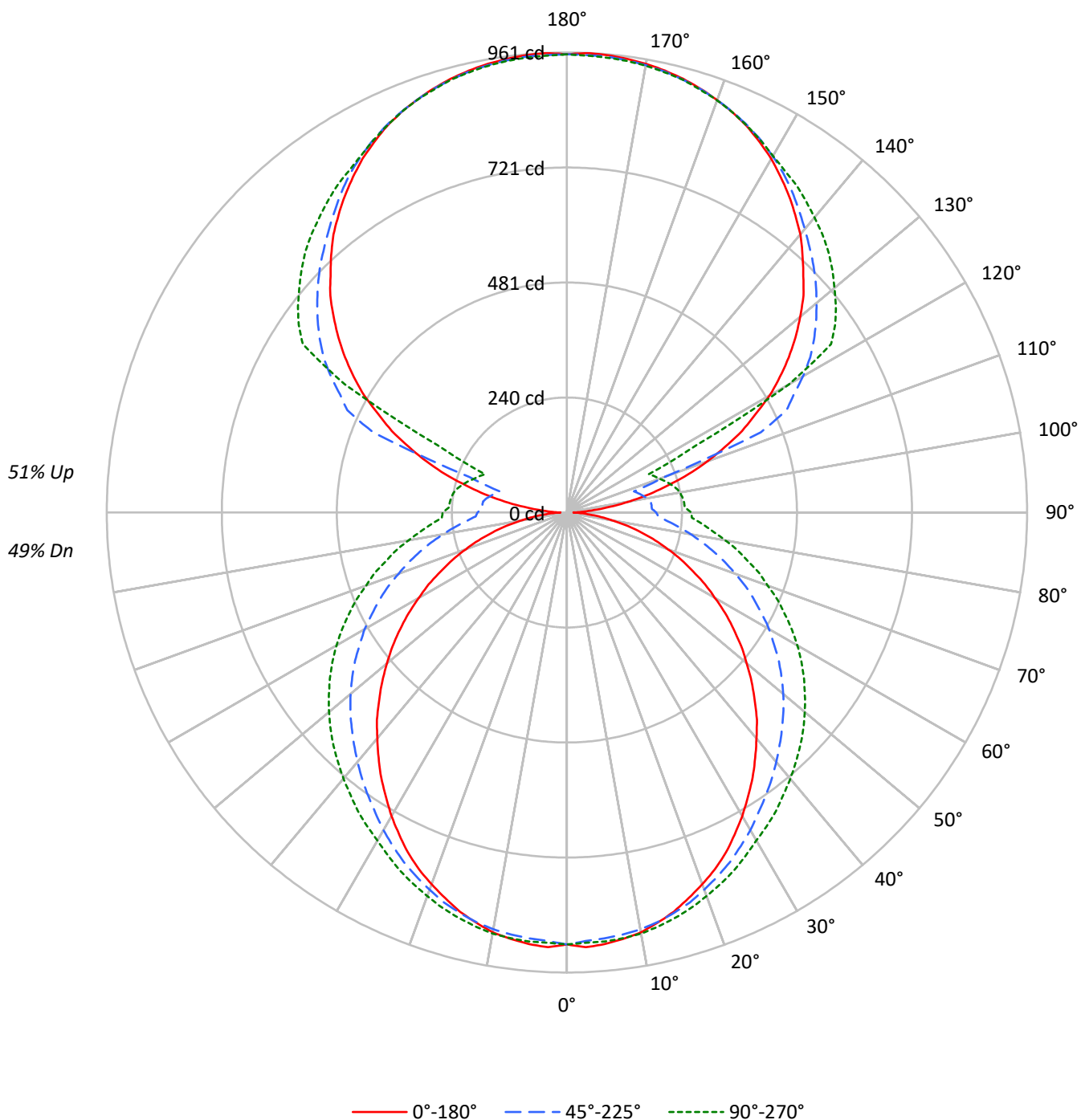
Lumens per Lamp: N/A  
Luminaire Lumens: 6251.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 67.9  
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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 96  | 91  | 87  | 83  | 88 | 84 | 80 | 77 | 70 | 68 | 65 | 58 | 56 | 54 | 46 | 45 | 44 |
| 2   | 87  | 79  | 72  | 66  | 80 | 73 | 67 | 62 | 61 | 56 | 53 | 50 | 47 | 44 | 40 | 38 | 36 |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 56 | 51 | 53 | 48 | 44 | 44 | 40 | 36 | 35 | 32 | 30 |
| 4   | 72  | 60  | 52  | 46  | 66 | 56 | 48 | 43 | 47 | 41 | 37 | 39 | 34 | 31 | 31 | 28 | 25 |
| 5   | 66  | 54  | 45  | 39  | 60 | 50 | 42 | 36 | 42 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 22 |
| 6   | 61  | 48  | 40  | 33  | 55 | 44 | 37 | 31 | 37 | 32 | 27 | 31 | 26 | 23 | 25 | 22 | 19 |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 33 | 27 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 19 | 17 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 |
| 10  | 45  | 33  | 25  | 20  | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 22 | 17 | 14 | 18 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14283 | 14283 | 14283 |
| 5°  | 14349 | 13674 | 13596 |
| 10° | 14252 | 13200 | 13008 |
| 15° | 14050 | 12710 | 12404 |
| 20° | 13797 | 12196 | 11829 |
| 25° | 13546 | 11704 | 11310 |
| 30° | 13195 | 11202 | 10795 |
| 35° | 12840 | 10720 | 10417 |
| 40° | 12465 | 10303 | 10041 |
| 45° | 12110 | 9925  | 9714  |
| 50° | 11727 | 9576  | 9390  |
| 55° | 11325 | 9205  | 9062  |
| 60° | 10833 | 8819  | 8716  |
| 65° | 10320 | 8376  | 8318  |
| 70° | 9740  | 7899  | 7888  |
| 75° | 9001  | 7423  | 7484  |
| 80° | 7832  | 6928  | 7066  |
| 85° | 6653  | 6461  | 6704  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12110 cd/sqm

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CATALOG NUMBER: S122DIP-B865D725UB27-4F0-XX-W2A-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.5   | 1.4       |
| 10°-20°   | 245.3  | 3.9       |
| 20°-30°   | 371.7  | 5.9       |
| 30°-40°   | 452.7  | 7.2       |
| 40°-50°   | 487.0  | 7.8       |
| 50°-60°   | 473.0  | 7.6       |
| 60°-70°   | 413.1  | 6.6       |
| 70°-80°   | 317.9  | 5.1       |
| 80°-90°   | 214.6  | 3.4       |
| 90°-100°  | 178.5  | 2.9       |
| 100°-110° | 224.9  | 3.6       |
| 110°-120° | 382.9  | 6.1       |
| 120°-130° | 557.0  | 8.9       |
| 130°-140° | 566.4  | 9.1       |
| 140°-150° | 513.8  | 8.2       |
| 150°-160° | 410.8  | 6.6       |
| 160°-170° | 264.7  | 4.2       |
| 170°-180° | 91.1   | 1.5       |
| 0°-30°    | 702.6  | 11.2      |
| 0°-40°    | 1155.3 | 18.5      |
| 0°-60°    | 2115.3 | 33.8      |
| 0°-90°    | 3060.8 | 49.0      |
| 90°-120°  | 786.3  | 12.6      |
| 90°-150°  | 2423.5 | 38.8      |
| 90°-180°  | 3190.0 | 51.0      |
| 0°-180°   | 6251.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 902 | 902   | 902 | 902   | 902 |      |
| 5°   | 905 | 901   | 893 | 901   | 900 | 86   |
| 15°  | 863 | 866   | 866 | 878   | 876 | 243  |
| 25°  | 785 | 794   | 806 | 821   | 825 | 361  |
| 35°  | 676 | 698   | 723 | 752   | 761 | 423  |
| 45°  | 554 | 590   | 636 | 676   | 689 | 428  |
| 55°  | 425 | 472   | 540 | 587   | 604 | 380  |
| 65°  | 290 | 354   | 432 | 485   | 502 | 288  |
| 75°  | 161 | 234   | 318 | 374   | 391 | 170  |
| 85°  | 47  | 128   | 212 | 267   | 285 | 50   |
| 90°  | 14  | 97    | 186 | 242   | 259 | 12   |
| 95°  | 56  | 94    | 177 | 231   | 246 | 61   |
| 105° | 217 | 276   | 155 | 208   | 225 | 232  |
| 115° | 404 | 430   | 506 | 224   | 189 | 397  |
| 125° | 566 | 575   | 630 | 670   | 684 | 505  |
| 135° | 698 | 709   | 728 | 763   | 772 | 540  |
| 145° | 808 | 808   | 819 | 832   | 835 | 506  |
| 155° | 890 | 884   | 892 | 896   | 891 | 410  |
| 165° | 938 | 934   | 936 | 941   | 936 | 265  |
| 175° | 959 | 954   | 956 | 961   | 954 | 91   |
| 180° | 957 | 957   | 957 | 957   | 957 |      |

TEST NUMBER: P1009567

CATALOG NUMBER: S122DIP-B865D725UB27-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 902.3 | 902.3 | 902.3 | 902.3 | 902.3 |
| 2.5°   | 908.9 | 905.0 | 895.8 | 902.3 | 899.7 |
| 5°     | 905.0 | 901.0 | 893.2 | 901.0 | 899.7 |
| 7.5°   | 898.4 | 895.8 | 889.3 | 898.4 | 897.1 |
| 10°    | 890.6 | 888.0 | 884.0 | 894.5 | 893.2 |
| 12.5°  | 877.5 | 878.8 | 876.2 | 886.6 | 885.3 |
| 15°    | 863.1 | 865.7 | 865.7 | 877.5 | 876.2 |
| 17.5°  | 844.8 | 850.0 | 854.0 | 865.7 | 865.7 |
| 20°    | 826.5 | 833.0 | 838.3 | 852.6 | 852.6 |
| 22.5°  | 806.9 | 814.7 | 822.6 | 836.9 | 839.6 |
| 25°    | 784.6 | 793.8 | 805.6 | 821.3 | 825.2 |
| 27.5°  | 758.5 | 772.9 | 785.9 | 805.6 | 808.2 |
| 30°    | 732.3 | 749.3 | 766.3 | 787.3 | 791.2 |
| 32.5°  | 703.6 | 723.2 | 744.1 | 768.9 | 776.8 |
| 35°    | 676.1 | 698.3 | 723.2 | 751.9 | 761.1 |
| 37.5°  | 646.0 | 670.9 | 702.3 | 733.6 | 742.8 |
| 40°    | 615.9 | 644.7 | 680.0 | 714.0 | 725.8 |
| 42.5°  | 587.2 | 615.9 | 657.8 | 695.7 | 707.5 |
| 45°    | 554.5 | 589.8 | 635.6 | 676.1 | 689.2 |
| 47.5°  | 523.1 | 561.0 | 613.3 | 655.2 | 669.6 |
| 50°    | 490.4 | 530.9 | 589.8 | 634.3 | 648.6 |
| 52.5°  | 459.0 | 502.2 | 564.9 | 610.7 | 626.4 |
| 55°    | 425.0 | 472.1 | 540.1 | 587.2 | 604.2 |
| 57.5°  | 392.3 | 444.6 | 512.6 | 563.6 | 580.6 |
| 60°    | 357.0 | 413.2 | 487.8 | 537.5 | 555.8 |
| 62.5°  | 325.6 | 384.5 | 459.0 | 512.6 | 529.6 |
| 65°    | 290.3 | 354.4 | 431.6 | 485.2 | 502.2 |
| 67.5°  | 258.9 | 325.6 | 404.1 | 457.7 | 476.0 |
| 70°    | 224.9 | 292.9 | 374.0 | 430.2 | 445.9 |
| 72.5°  | 193.5 | 264.2 | 346.5 | 401.5 | 421.1 |
| 75°    | 160.9 | 234.1 | 317.8 | 374.0 | 391.0 |
| 77.5°  | 129.5 | 205.3 | 290.3 | 346.5 | 364.9 |
| 80°    | 98.1  | 177.9 | 262.9 | 317.8 | 336.1 |
| 82.5°  | 71.9  | 150.4 | 236.7 | 291.6 | 308.6 |
| 85°    | 47.1  | 128.2 | 211.9 | 266.8 | 285.1 |
| 87.5°  | 28.8  | 107.2 | 190.9 | 244.5 | 261.5 |
| 90°    | 13.8  | 97.2  | 186.5 | 242.2 | 259.3 |
| 92.5°  | 29.1  | 95.6  | 177.5 | 229.9 | 246.2 |
| 95°    | 55.5  | 94.1  | 177.4 | 230.6 | 245.6 |
| 97.5°  | 90.2  | 89.6  | 176.5 | 227.0 | 243.4 |
| 100°   | 131.8 | 85.2  | 170.3 | 224.2 | 239.9 |
| 102.5° | 176.1 | 217.9 | 162.5 | 217.2 | 233.7 |
| 105°   | 217.1 | 275.8 | 154.8 | 208.1 | 225.2 |
| 107.5° | 266.2 | 315.0 | 146.9 | 199.1 | 216.2 |
| 110°   | 312.0 | 352.8 | 216.7 | 189.2 | 206.4 |

TEST NUMBER: P1009567

CATALOG NUMBER: S122DIP-B865D725UB27-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 356.4 | 389.8 | 438.2 | 181.5 | 197.9 |
| 115°   | 403.5 | 429.7 | 505.9 | 224.4 | 188.9 |
| 117.5° | 443.0 | 467.4 | 534.1 | 474.2 | 305.8 |
| 120°   | 488.8 | 504.4 | 569.2 | 614.1 | 535.0 |
| 122.5° | 527.5 | 539.9 | 602.2 | 641.6 | 654.1 |
| 125°   | 565.7 | 574.7 | 629.8 | 669.9 | 683.7 |
| 127.5° | 601.7 | 610.1 | 655.8 | 695.5 | 708.0 |
| 130°   | 635.7 | 645.5 | 680.6 | 719.6 | 729.3 |
| 132.5° | 670.3 | 678.0 | 705.2 | 741.6 | 751.4 |
| 135°   | 698.1 | 709.2 | 728.5 | 762.9 | 772.0 |
| 137.5° | 728.6 | 736.9 | 750.3 | 782.2 | 789.2 |
| 140°   | 758.4 | 762.6 | 772.8 | 800.0 | 804.4 |
| 142.5° | 783.3 | 786.9 | 795.9 | 817.1 | 820.1 |
| 145°   | 808.3 | 807.6 | 819.4 | 832.1 | 835.2 |
| 147.5° | 831.2 | 829.1 | 840.9 | 845.6 | 846.8 |
| 150°   | 853.3 | 848.5 | 859.6 | 863.7 | 860.3 |
| 152.5° | 872.1 | 866.5 | 876.9 | 881.1 | 876.2 |
| 155°   | 890.1 | 883.8 | 892.1 | 896.3 | 890.8 |
| 157.5° | 904.6 | 899.1 | 905.3 | 910.1 | 904.6 |
| 160°   | 917.1 | 912.9 | 917.1 | 921.2 | 916.4 |
| 162.5° | 928.2 | 924.0 | 927.5 | 932.3 | 926.1 |
| 165°   | 937.9 | 933.7 | 935.8 | 940.6 | 935.8 |
| 167.5° | 945.5 | 941.3 | 943.4 | 948.2 | 942.0 |
| 170°   | 951.7 | 947.6 | 948.9 | 953.8 | 947.6 |
| 172.5° | 955.9 | 951.7 | 953.1 | 957.9 | 951.7 |
| 175°   | 959.3 | 954.5 | 955.9 | 960.7 | 953.8 |
| 177.5° | 960.7 | 955.9 | 956.6 | 961.4 | 955.2 |
| 180°   | 957.2 | 957.2 | 957.2 | 957.2 | 957.2 |

(END OF REPORT)