

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: P1008194

Luminaire Tested: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008194  
REPORT IS A COMBINATION OF REPORTS P984612 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

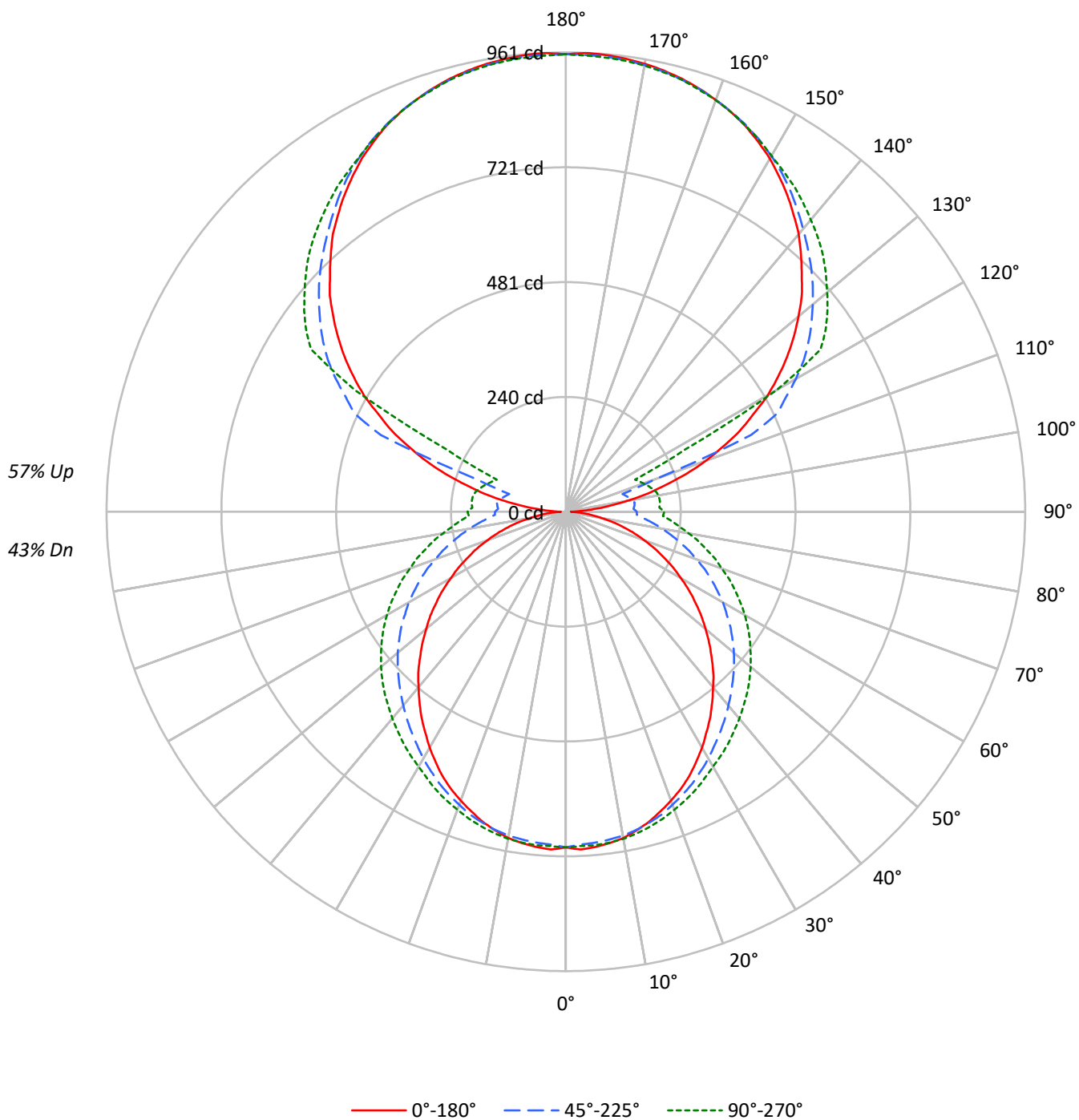
Lumens per Lamp: N/A  
Luminaire Lumens: 5487.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 57  
Input Voltage (V): 120  
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: P1008194

CATALOG NUMBER: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P1008194

CATALOG NUMBER: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K

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

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11114 | 11114 | 11114 |
| 5°  | 11164 | 10640 | 10580 |
| 10° | 11090 | 10272 | 10121 |
| 15° | 10933 | 9890  | 9652  |
| 20° | 10735 | 9489  | 9204  |
| 25° | 10540 | 9106  | 8801  |
| 30° | 10267 | 8717  | 8399  |
| 35° | 9991  | 8341  | 8105  |
| 40° | 9701  | 8016  | 7813  |
| 45° | 9422  | 7722  | 7558  |
| 50° | 9125  | 7451  | 7307  |
| 55° | 8812  | 7162  | 7051  |
| 60° | 8430  | 6861  | 6782  |
| 65° | 8031  | 6517  | 6471  |
| 70° | 7579  | 6146  | 6139  |
| 75° | 7004  | 5777  | 5822  |
| 80° | 6092  | 5389  | 5498  |
| 85° | 5170  | 5025  | 5216  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

TEST NUMBER: P1008194

CATALOG NUMBER: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.6   | 1.2       |
| 10°-20°   | 190.9  | 3.5       |
| 20°-30°   | 289.2  | 5.3       |
| 30°-40°   | 352.2  | 6.4       |
| 40°-50°   | 379.0  | 6.9       |
| 50°-60°   | 368.0  | 6.7       |
| 60°-70°   | 321.4  | 5.9       |
| 70°-80°   | 247.4  | 4.5       |
| 80°-90°   | 167.4  | 3.1       |
| 90°-100°  | 145.9  | 2.7       |
| 100°-110° | 201.1  | 3.7       |
| 110°-120° | 367.2  | 6.7       |
| 120°-130° | 548.3  | 10.0      |
| 130°-140° | 562.7  | 10.3      |
| 140°-150° | 513.2  | 9.4       |
| 150°-160° | 410.8  | 7.5       |
| 160°-170° | 264.7  | 4.8       |
| 170°-180° | 91.1   | 1.7       |
| 0°-30°    | 546.7  | 10.0      |
| 0°-40°    | 898.9  | 16.4      |
| 0°-60°    | 1645.9 | 30.0      |
| 0°-90°    | 2382.0 | 43.4      |
| 90°-120°  | 714.2  | 13.0      |
| 90°-150°  | 2338.3 | 42.6      |
| 90°-180°  | 3105.0 | 56.6      |
| 0°-180°   | 5487.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 702 | 702   | 702 | 702   | 702 |      |
| 5°   | 704 | 701   | 695 | 701   | 700 | 67   |
| 15°  | 672 | 674   | 674 | 683   | 682 | 189  |
| 25°  | 610 | 618   | 627 | 639   | 642 | 281  |
| 35°  | 526 | 543   | 563 | 585   | 592 | 329  |
| 45°  | 431 | 459   | 494 | 526   | 536 | 333  |
| 55°  | 331 | 367   | 420 | 457   | 470 | 296  |
| 65°  | 226 | 276   | 336 | 378   | 391 | 224  |
| 75°  | 125 | 182   | 247 | 291   | 304 | 132  |
| 85°  | 37  | 100   | 165 | 208   | 222 | 39   |
| 90°  | 11  | 78    | 148 | 192   | 206 | 10   |
| 95°  | 53  | 78    | 144 | 186   | 198 | 60   |
| 105° | 216 | 266   | 130 | 173   | 187 | 231  |
| 115° | 402 | 425   | 488 | 198   | 160 | 396  |
| 125° | 565 | 574   | 620 | 652   | 663 | 504  |
| 135° | 698 | 709   | 725 | 754   | 760 | 539  |
| 145° | 808 | 808   | 819 | 830   | 832 | 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: P1008194

CATALOG NUMBER: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 702.1 | 702.1 | 702.1 | 702.1 | 702.1 |
| 2.5°   | 707.2 | 704.1 | 697.0 | 702.1 | 700.1 |
| 5°     | 704.1 | 701.1 | 695.0 | 701.1 | 700.1 |
| 7.5°   | 699.1 | 697.0 | 691.9 | 699.1 | 698.0 |
| 10°    | 693.0 | 690.9 | 687.9 | 696.0 | 695.0 |
| 12.5°  | 682.8 | 683.8 | 681.8 | 689.9 | 688.9 |
| 15°    | 671.6 | 673.6 | 673.6 | 682.8 | 681.8 |
| 17.5°  | 657.3 | 661.4 | 664.5 | 673.6 | 673.6 |
| 20°    | 643.1 | 648.2 | 652.2 | 663.4 | 663.4 |
| 22.5°  | 627.8 | 633.9 | 640.0 | 651.2 | 653.3 |
| 25°    | 610.5 | 617.7 | 626.8 | 639.0 | 642.1 |
| 27.5°  | 590.2 | 601.4 | 611.5 | 626.8 | 628.8 |
| 30°    | 569.8 | 583.1 | 596.3 | 612.6 | 615.6 |
| 32.5°  | 547.4 | 562.7 | 579.0 | 598.3 | 604.4 |
| 35°    | 526.1 | 543.4 | 562.7 | 585.1 | 592.2 |
| 37.5°  | 502.7 | 522.0 | 546.4 | 570.8 | 578.0 |
| 40°    | 479.3 | 501.7 | 529.1 | 555.6 | 564.7 |
| 42.5°  | 456.9 | 479.3 | 511.8 | 541.3 | 550.5 |
| 45°    | 431.4 | 458.9 | 494.5 | 526.1 | 536.2 |
| 47.5°  | 407.0 | 436.5 | 477.2 | 509.8 | 521.0 |
| 50°    | 381.6 | 413.1 | 458.9 | 493.5 | 504.7 |
| 52.5°  | 357.2 | 390.7 | 439.6 | 475.2 | 487.4 |
| 55°    | 330.7 | 367.3 | 420.2 | 456.9 | 470.1 |
| 57.5°  | 305.3 | 346.0 | 398.9 | 438.6 | 451.8 |
| 60°    | 277.8 | 321.5 | 379.5 | 418.2 | 432.5 |
| 62.5°  | 253.4 | 299.2 | 357.2 | 398.9 | 412.1 |
| 65°    | 225.9 | 275.8 | 335.8 | 377.5 | 390.7 |
| 67.5°  | 201.5 | 253.4 | 314.4 | 356.1 | 370.4 |
| 70°    | 175.0 | 227.9 | 291.0 | 334.8 | 347.0 |
| 72.5°  | 150.6 | 205.5 | 269.7 | 312.4 | 327.7 |
| 75°    | 125.2 | 182.1 | 247.3 | 291.0 | 304.2 |
| 77.5°  | 100.7 | 159.8 | 225.9 | 269.7 | 283.9 |
| 80°    | 76.3  | 138.4 | 204.5 | 247.3 | 261.5 |
| 82.5°  | 56.0  | 117.0 | 184.2 | 226.9 | 240.1 |
| 85°    | 36.6  | 99.7  | 164.8 | 207.6 | 221.8 |
| 87.5°  | 22.4  | 83.4  | 148.6 | 190.3 | 203.5 |
| 90°    | 10.9  | 77.5  | 148.2 | 192.3 | 205.9 |
| 92.5°  | 26.5  | 77.6  | 141.8 | 182.8 | 195.8 |
| 95°    | 53.1  | 78.2  | 144.0 | 186.2 | 197.7 |
| 97.5°  | 88.1  | 75.1  | 145.2 | 184.9 | 197.9 |
| 100°   | 129.7 | 72.5  | 141.3 | 184.4 | 197.0 |
| 102.5° | 174.4 | 206.6 | 135.5 | 179.8 | 193.1 |
| 105°   | 215.7 | 265.9 | 129.8 | 173.0 | 186.9 |
| 107.5° | 264.8 | 306.6 | 124.0 | 166.3 | 180.2 |
| 110°   | 310.9 | 345.8 | 195.5 | 158.7 | 172.7 |

TEST NUMBER: P1008194

CATALOG NUMBER: S122DIP-B675D725UB2750-4F0-XX-W2A-D\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 355.3 | 384.0 | 419.1 | 153.0 | 166.3 |
| 115°   | 402.4 | 425.4 | 488.5 | 198.3 | 159.6 |
| 117.5° | 442.2 | 464.2 | 518.7 | 450.2 | 278.8 |
| 120°   | 488.0 | 502.3 | 555.5 | 592.3 | 510.0 |
| 122.5° | 526.7 | 538.8 | 590.3 | 621.9 | 631.8 |
| 125°   | 565.1 | 574.1 | 619.9 | 652.2 | 663.4 |
| 127.5° | 601.1 | 609.8 | 647.7 | 680.1 | 690.0 |
| 130°   | 635.1 | 645.2 | 674.2 | 706.2 | 713.6 |
| 132.5° | 669.7 | 677.7 | 700.6 | 730.3 | 737.7 |
| 135°   | 697.8 | 708.9 | 725.3 | 753.7 | 760.4 |
| 137.5° | 728.3 | 736.6 | 748.6 | 774.9 | 780.0 |
| 140°   | 758.1 | 762.6 | 772.2 | 794.8 | 797.4 |
| 142.5° | 783.0 | 786.9 | 795.9 | 813.6 | 815.2 |
| 145°   | 808.3 | 807.6 | 819.4 | 830.4 | 832.0 |
| 147.5° | 831.2 | 829.1 | 840.9 | 845.3 | 845.7 |
| 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)