

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: P1009394

Luminaire Tested: S122DIP-B675D925UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009394  
REPORT IS A COMBINATION OF REPORTS P984665 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D925UB27-4F0-XX-W2A-F1  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

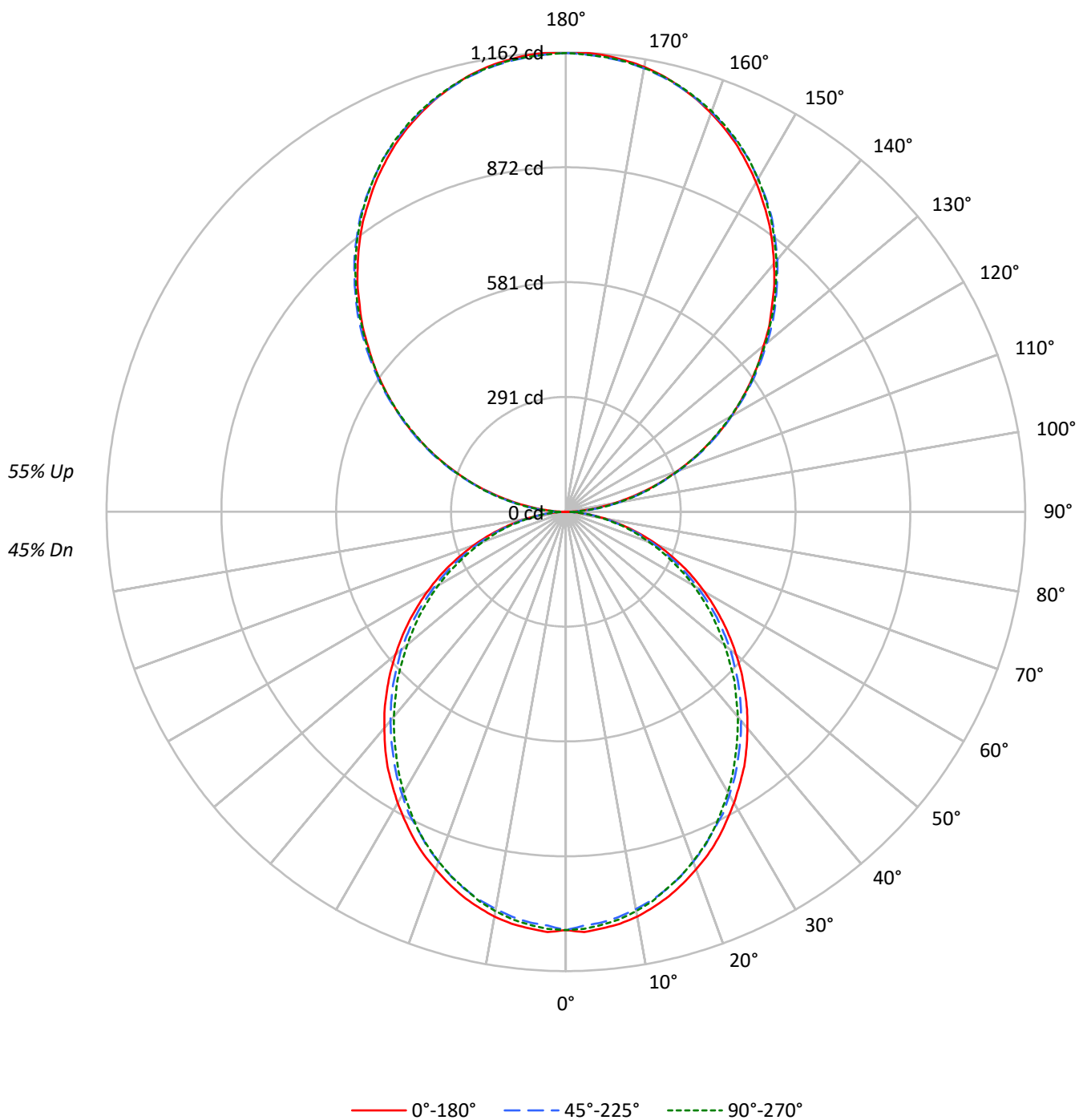
Lumens per Lamp: N/A  
Luminaire Lumens: 5940.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 64.4  
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

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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 |
| 1   | 97  | 92  | 89  | 85  | 89 | 85 | 82 | 79 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 |
| 2   | 88  | 81  | 75  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 39 | 37 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 39 | 36 | 33 | 31 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 67  | 56  | 48  | 42  | 62 | 52 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 |
| 9   | 50  | 37  | 30  | 25  | 45 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16749 | 16749 | 16749 |
| 5°  | 16776 | 15964 | 15853 |
| 10° | 16640 | 15238 | 14936 |
| 15° | 16396 | 14504 | 13971 |
| 20° | 16067 | 13707 | 13057 |
| 25° | 15738 | 12875 | 12146 |
| 30° | 15326 | 12092 | 11188 |
| 35° | 14937 | 11266 | 10249 |
| 40° | 14455 | 10451 | 9361  |
| 45° | 13978 | 9644  | 8489  |
| 50° | 13454 | 8821  | 7586  |
| 55° | 12905 | 7942  | 6730  |
| 60° | 12287 | 6990  | 5840  |
| 65° | 11610 | 6022  | 4904  |
| 70° | 10749 | 4963  | 3959  |
| 75° | 9560  | 3826  | 3057  |
| 80° | 8119  | 2601  | 1968  |
| 85° | 5890  | 1211  | 837   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13978 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.6   | 1.7       |
| 10°-20°   | 280.2  | 4.7       |
| 20°-30°   | 411.8  | 6.9       |
| 30°-40°   | 478.3  | 8.1       |
| 40°-50°   | 477.7  | 8.0       |
| 50°-60°   | 416.5  | 7.0       |
| 60°-70°   | 307.9  | 5.2       |
| 70°-80°   | 174.2  | 2.9       |
| 80°-90°   | 49.3   | 0.8       |
| 90°-100°  | 71.8   | 1.2       |
| 100°-110° | 228.2  | 3.8       |
| 110°-120° | 390.5  | 6.6       |
| 120°-130° | 513.6  | 8.6       |
| 130°-140° | 576.5  | 9.7       |
| 140°-150° | 565.4  | 9.5       |
| 150°-160° | 474.2  | 8.0       |
| 160°-170° | 314.5  | 5.3       |
| 170°-180° | 109.9  | 1.9       |
| 0°-30°    | 791.6  | 13.3      |
| 0°-40°    | 1269.8 | 21.4      |
| 0°-60°    | 2164.0 | 36.4      |
| 0°-90°    | 2695.3 | 45.4      |
| 90°-120°  | 690.5  | 11.6      |
| 90°-150°  | 2346.0 | 39.5      |
| 90°-180°  | 3245.0 | 54.6      |
| 0°-180°   | 5940.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1058 | 1058  | 1058 | 1058  | 1058 |      |
| 5°   | 1058 | 1054  | 1043 | 1051  | 1049 | 100  |
| 15°  | 1007 | 1001  | 988  | 992   | 987  | 284  |
| 25°  | 912  | 904   | 886  | 888   | 886  | 419  |
| 35°  | 786  | 776   | 760  | 754   | 749  | 491  |
| 45°  | 640  | 633   | 618  | 606   | 602  | 494  |
| 55°  | 484  | 478   | 466  | 454   | 449  | 433  |
| 65°  | 327  | 320   | 310  | 301   | 296  | 323  |
| 75°  | 171  | 169   | 164  | 158   | 160  | 182  |
| 85°  | 42   | 41    | 40   | 37    | 36   | 46   |
| 90°  | 1    | 13    | 34   | 32    | 33   | 6    |
| 95°  | 51   | 61    | 63   | 63    | 61   | 57   |
| 105° | 211  | 214   | 216  | 217   | 217  | 222  |
| 115° | 392  | 398   | 396  | 395   | 392  | 388  |
| 125° | 570  | 579   | 576  | 573   | 572  | 509  |
| 135° | 738  | 748   | 750  | 749   | 746  | 570  |
| 145° | 895  | 902   | 908  | 909   | 905  | 559  |
| 155° | 1023 | 1026  | 1029 | 1034  | 1031 | 471  |
| 165° | 1114 | 1113  | 1113 | 1119  | 1114 | 314  |
| 175° | 1159 | 1156  | 1154 | 1161  | 1155 | 110  |
| 180° | 1161 | 1161  | 1161 | 1161  | 1161 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1058.1 | 1058.1 | 1058.1 | 1058.1 | 1058.1 |
| 2.5°   | 1064.2 | 1059.1 | 1047.9 | 1058.1 | 1056.1 |
| 5°     | 1058.1 | 1054.0 | 1042.8 | 1051.0 | 1049.0 |
| 7.5°   | 1051.0 | 1044.9 | 1033.7 | 1041.8 | 1039.8 |
| 10°    | 1039.8 | 1032.7 | 1020.5 | 1028.6 | 1025.6 |
| 12.5°  | 1024.5 | 1018.4 | 1006.2 | 1011.3 | 1009.3 |
| 15°    | 1007.2 | 1001.1 | 987.9  | 992.0  | 986.9  |
| 17.5°  | 985.9  | 979.8  | 966.5  | 971.6  | 966.5  |
| 20°    | 962.5  | 956.4  | 942.1  | 945.2  | 941.1  |
| 22.5°  | 939.1  | 929.9  | 916.7  | 916.7  | 914.7  |
| 25°    | 911.6  | 903.5  | 886.2  | 888.2  | 886.2  |
| 27.5°  | 881.1  | 874.0  | 860.7  | 857.7  | 852.6  |
| 30°    | 850.6  | 842.4  | 827.2  | 824.1  | 820.0  |
| 32.5°  | 818.0  | 811.9  | 795.6  | 789.5  | 785.4  |
| 35°    | 786.5  | 776.3  | 760.0  | 753.9  | 748.8  |
| 37.5°  | 750.9  | 741.7  | 725.4  | 718.3  | 713.2  |
| 40°    | 714.2  | 706.1  | 689.8  | 680.6  | 676.6  |
| 42.5°  | 678.6  | 670.5  | 654.2  | 644.0  | 637.9  |
| 45°    | 640.0  | 632.8  | 617.6  | 606.4  | 602.3  |
| 47.5°  | 602.3  | 595.2  | 578.9  | 567.7  | 561.6  |
| 50°    | 562.6  | 557.5  | 543.3  | 529.1  | 524.0  |
| 52.5°  | 524.0  | 516.8  | 503.6  | 492.4  | 485.3  |
| 55°    | 484.3  | 478.2  | 466.0  | 453.8  | 448.7  |
| 57.5°  | 444.6  | 439.5  | 426.3  | 414.1  | 410.0  |
| 60°    | 404.9  | 400.9  | 386.6  | 375.4  | 372.4  |
| 62.5°  | 366.3  | 359.1  | 349.0  | 338.8  | 334.7  |
| 65°    | 326.6  | 320.5  | 310.3  | 301.2  | 296.1  |
| 67.5°  | 285.9  | 280.8  | 271.6  | 264.5  | 260.5  |
| 70°    | 248.2  | 244.2  | 235.0  | 227.9  | 223.8  |
| 72.5°  | 209.6  | 205.5  | 200.4  | 193.3  | 190.3  |
| 75°    | 170.9  | 168.9  | 163.8  | 157.7  | 159.7  |
| 77.5°  | 136.3  | 132.3  | 130.2  | 127.2  | 124.1  |
| 80°    | 101.7  | 100.7  | 98.7   | 95.6   | 93.6   |
| 82.5°  | 69.2   | 69.2   | 68.2   | 64.1   | 64.1   |
| 85°    | 41.7   | 40.7   | 39.7   | 36.6   | 35.6   |
| 87.5°  | 18.3   | 16.3   | 14.2   | 11.2   | 10.2   |
| 90°    | 1.0    | 12.7   | 34.3   | 32.3   | 33.3   |
| 92.5°  | 21.5   | 29.4   | 30.4   | 31.3   | 31.3   |
| 95°    | 50.9   | 60.7   | 62.7   | 62.7   | 60.7   |
| 97.5°  | 85.2   | 94.0   | 97.9   | 97.9   | 97.9   |
| 100°   | 124.4  | 132.2  | 135.2  | 135.2  | 134.2  |
| 102.5° | 165.5  | 171.4  | 175.3  | 176.3  | 175.3  |
| 105°   | 210.6  | 213.5  | 215.5  | 217.4  | 217.4  |
| 107.5° | 255.6  | 259.5  | 259.5  | 260.5  | 255.6  |
| 110°   | 298.7  | 304.6  | 304.6  | 304.6  | 301.6  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 345.7  | 351.6  | 350.6  | 347.7  | 345.7  |
| 115°   | 391.7  | 397.6  | 395.7  | 394.7  | 391.7  |
| 117.5° | 437.8  | 445.6  | 440.7  | 437.8  | 434.8  |
| 120°   | 483.8  | 491.6  | 483.8  | 483.8  | 480.9  |
| 122.5° | 525.9  | 535.7  | 530.8  | 527.9  | 525.9  |
| 125°   | 570.0  | 578.8  | 575.9  | 572.9  | 572.0  |
| 127.5° | 613.1  | 623.9  | 619.9  | 616.0  | 613.1  |
| 130°   | 653.2  | 666.0  | 664.0  | 662.1  | 658.1  |
| 132.5° | 698.3  | 708.1  | 709.1  | 704.2  | 701.2  |
| 135°   | 737.5  | 748.2  | 750.2  | 749.2  | 746.3  |
| 137.5° | 780.6  | 789.4  | 791.3  | 790.4  | 786.4  |
| 140°   | 818.8  | 827.6  | 832.5  | 832.5  | 828.5  |
| 142.5° | 857.9  | 866.7  | 869.7  | 870.7  | 866.7  |
| 145°   | 895.1  | 902.0  | 907.9  | 908.9  | 904.9  |
| 147.5° | 928.4  | 937.3  | 941.2  | 943.1  | 939.2  |
| 150°   | 962.7  | 968.6  | 972.5  | 975.5  | 972.5  |
| 152.5° | 993.1  | 999.0  | 1003.9 | 1007.8 | 1003.9 |
| 155°   | 1023.4 | 1026.4 | 1029.3 | 1034.2 | 1031.3 |
| 157.5° | 1049.9 | 1051.8 | 1053.8 | 1060.7 | 1055.8 |
| 160°   | 1073.4 | 1075.4 | 1076.3 | 1082.2 | 1078.3 |
| 162.5° | 1094.9 | 1094.9 | 1095.9 | 1102.8 | 1097.9 |
| 165°   | 1113.5 | 1112.6 | 1112.6 | 1119.4 | 1114.5 |
| 167.5° | 1130.2 | 1127.3 | 1127.3 | 1134.1 | 1129.2 |
| 170°   | 1142.9 | 1140.0 | 1139.0 | 1145.9 | 1140.0 |
| 172.5° | 1151.7 | 1148.8 | 1147.8 | 1154.7 | 1148.8 |
| 175°   | 1158.6 | 1155.7 | 1153.7 | 1160.6 | 1154.7 |
| 177.5° | 1162.5 | 1159.6 | 1157.6 | 1163.5 | 1157.6 |
| 180°   | 1160.6 | 1160.6 | 1160.6 | 1160.6 | 1160.6 |

(END OF REPORT)