

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: P1008154

Luminaire Tested: S122DIP-B675D1080UB2750-4F0-XX-W2A-F\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008154  
REPORT IS A COMBINATION OF REPORTS P984437 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D1080UB2750-4F0-XX-W2A-F\_2700K  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

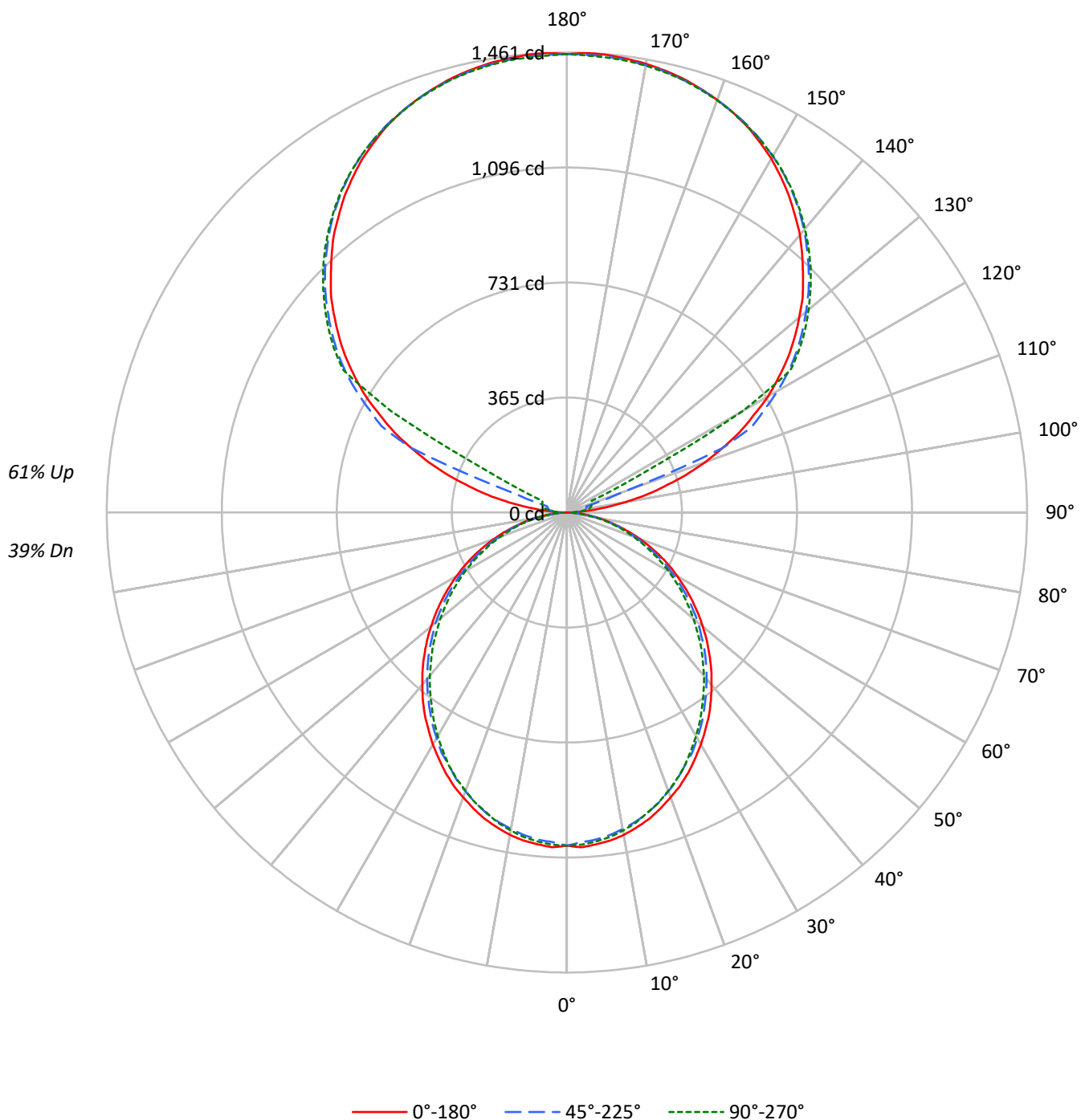
Lumens per Lamp: N/A  
Luminaire Lumens: 6962.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 70.9  
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

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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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 52 | 51 | 40 | 39 | 39 |
| 2   | 87  | 79  | 73  | 68  | 79 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 36 | 34 | 33 |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 57 | 52 | 52 | 48 | 44 | 41 | 38 | 36 | 32 | 29 | 28 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 33 | 31 | 28 | 26 | 24 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 23 | 21 |
| 6   | 61  | 49  | 41  | 36  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 |
| 7   | 56  | 44  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 28 | 25 | 27 | 23 | 20 | 21 | 18 | 16 |
| 8   | 52  | 40  | 33  | 27  | 47 | 37 | 30 | 25 | 31 | 25 | 22 | 25 | 21 | 18 | 19 | 17 | 15 |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 |
| 10  | 45  | 34  | 26  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 17 | 21 | 17 | 15 | 16 | 14 | 12 |

**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   | 1.4       |
| 10°-20°   | 280.2  | 4.0       |
| 20°-30°   | 411.8  | 5.9       |
| 30°-40°   | 478.3  | 6.9       |
| 40°-50°   | 477.7  | 6.9       |
| 50°-60°   | 416.5  | 6.0       |
| 60°-70°   | 307.9  | 4.4       |
| 70°-80°   | 174.2  | 2.5       |
| 80°-90°   | 48.5   | 0.7       |
| 90°-100°  | 48.0   | 0.7       |
| 100°-110° | 178.9  | 2.6       |
| 110°-120° | 474.6  | 6.8       |
| 120°-130° | 787.1  | 11.3      |
| 130°-140° | 836.1  | 12.0      |
| 140°-150° | 777.0  | 11.2      |
| 150°-160° | 624.7  | 9.0       |
| 160°-170° | 402.5  | 5.8       |
| 170°-180° | 138.5  | 2.0       |
| 0°-30°    | 791.6  | 11.4      |
| 0°-40°    | 1269.8 | 18.2      |
| 0°-60°    | 2164.0 | 31.1      |
| 0°-90°    | 2694.6 | 38.7      |
| 90°-120°  | 701.5  | 10.1      |
| 90°-150°  | 3101.6 | 44.6      |
| 90°-180°  | 4267.0 | 61.3      |
| 0°-180°   | 6962.0 | 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    | 21   | 26    | 28   | 6    |
| 95°  | 68   | 34    | 41   | 46    | 45   | 81   |
| 105° | 320  | 352   | 64   | 76    | 80   | 342  |
| 115° | 606  | 624   | 650  | 162   | 86   | 596  |
| 125° | 856  | 870   | 890  | 897   | 901  | 764  |
| 135° | 1060 | 1076  | 1086 | 1096  | 1094 | 819  |
| 145° | 1229 | 1228  | 1246 | 1253  | 1248 | 769  |
| 155° | 1354 | 1344  | 1357 | 1363  | 1354 | 624  |
| 165° | 1426 | 1420  | 1423 | 1430  | 1423 | 403  |
| 175° | 1459 | 1451  | 1454 | 1461  | 1450 | 139  |
| 180° | 1456 | 1456  | 1456 | 1456  | 1456 |      |

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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°    | 1.1    | 12.6   | 21.1   | 26.3   | 28.4   |
| 92.5°  | 26.3   | 22.1   | 25.3   | 27.4   | 28.4   |
| 95°    | 68.5   | 33.7   | 41.1   | 46.3   | 45.3   |
| 97.5°  | 123.2  | 36.9   | 53.7   | 56.9   | 57.9   |
| 100°   | 186.4  | 42.1   | 60.0   | 68.5   | 70.6   |
| 102.5° | 255.9  | 253.8  | 62.1   | 73.7   | 76.9   |
| 105°   | 320.2  | 351.8  | 64.3   | 75.8   | 80.0   |
| 107.5° | 395.0  | 421.3  | 66.4   | 77.9   | 82.2   |
| 110°   | 466.6  | 488.7  | 184.3  | 79.0   | 83.2   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 534.0  | 553.0  | 535.1  | 81.1   | 84.3   |
| 115°   | 605.6  | 623.5  | 649.9  | 162.2  | 86.4   |
| 117.5° | 667.8  | 688.9  | 706.8  | 556.1  | 280.2  |
| 120°   | 737.3  | 753.1  | 772.1  | 784.7  | 642.5  |
| 122.5° | 796.3  | 813.1  | 834.2  | 840.5  | 841.6  |
| 125°   | 856.3  | 870.0  | 890.0  | 897.4  | 900.6  |
| 127.5° | 911.1  | 925.8  | 941.6  | 952.2  | 953.2  |
| 130°   | 962.7  | 979.6  | 991.1  | 1002.7 | 1001.7 |
| 132.5° | 1015.4 | 1029.1 | 1040.6 | 1050.1 | 1049.1 |
| 135°   | 1059.6 | 1076.5 | 1085.9 | 1096.5 | 1094.4 |
| 137.5° | 1106.0 | 1118.6 | 1129.1 | 1139.7 | 1136.5 |
| 140°   | 1151.2 | 1159.7 | 1171.3 | 1180.7 | 1175.5 |
| 142.5° | 1189.2 | 1196.5 | 1210.2 | 1218.7 | 1213.4 |
| 145°   | 1229.2 | 1228.1 | 1246.0 | 1253.4 | 1248.1 |
| 147.5° | 1263.9 | 1260.8 | 1278.7 | 1284.0 | 1279.7 |
| 150°   | 1297.7 | 1290.3 | 1307.1 | 1313.5 | 1308.2 |
| 152.5° | 1326.1 | 1317.7 | 1333.5 | 1339.8 | 1332.4 |
| 155°   | 1353.5 | 1344.0 | 1356.6 | 1363.0 | 1354.5 |
| 157.5° | 1375.6 | 1367.2 | 1376.6 | 1384.0 | 1375.6 |
| 160°   | 1394.6 | 1388.2 | 1394.6 | 1400.9 | 1393.5 |
| 162.5° | 1411.4 | 1405.1 | 1410.4 | 1417.7 | 1408.2 |
| 165°   | 1426.2 | 1419.8 | 1423.0 | 1430.4 | 1423.0 |
| 167.5° | 1437.7 | 1431.4 | 1434.6 | 1442.0 | 1432.5 |
| 170°   | 1447.2 | 1440.9 | 1443.0 | 1450.4 | 1440.9 |
| 172.5° | 1453.5 | 1447.2 | 1449.3 | 1456.7 | 1447.2 |
| 175°   | 1458.8 | 1451.4 | 1453.5 | 1460.9 | 1450.4 |
| 177.5° | 1460.9 | 1453.5 | 1454.6 | 1462.0 | 1452.5 |
| 180°   | 1455.6 | 1455.6 | 1455.6 | 1455.6 | 1455.6 |

(END OF REPORT)