

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: P1007925

Luminaire Tested: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007925  
REPORT IS A COMBINATION OF REPORTS P983533 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D\_3000K  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

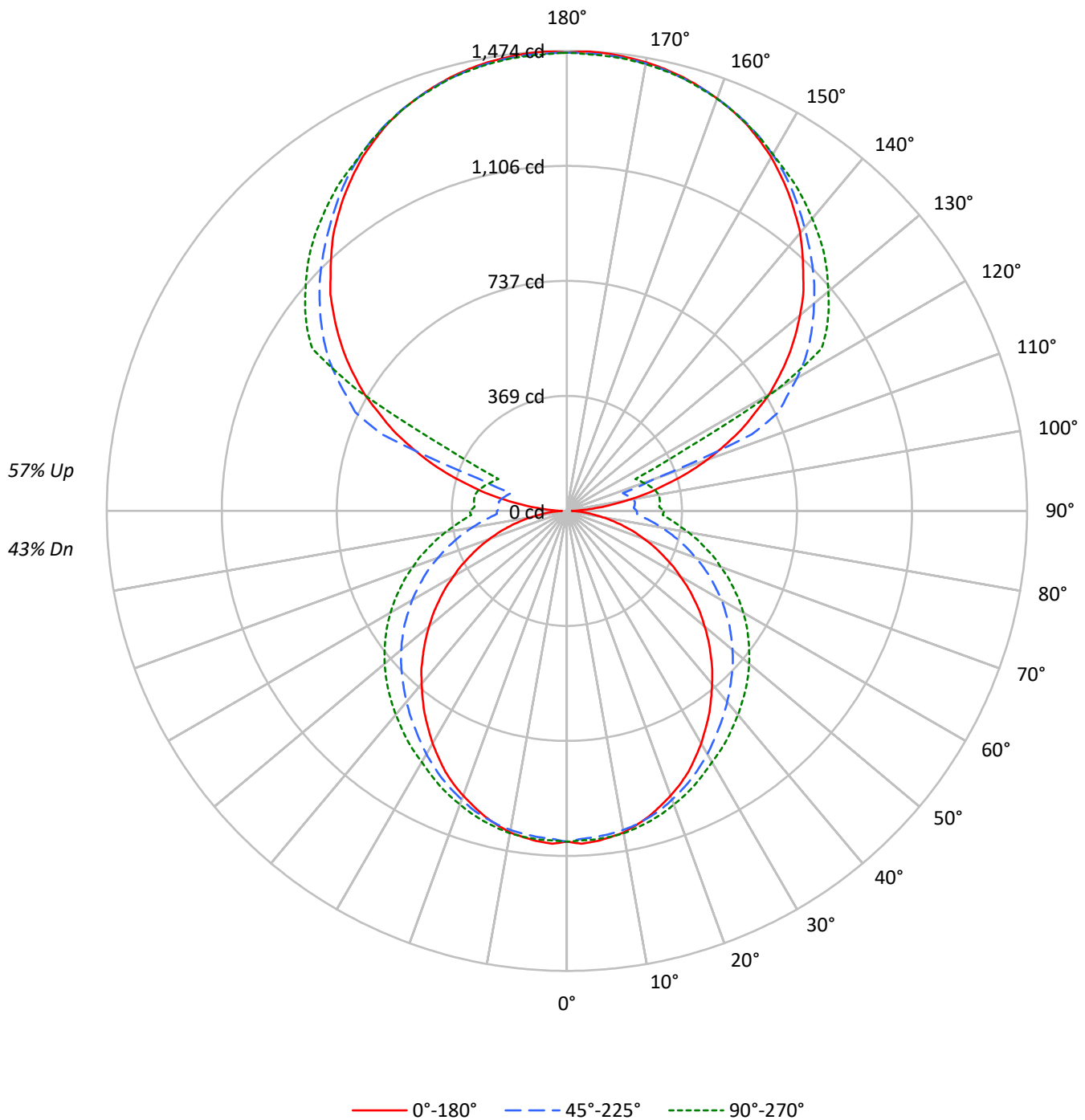
Lumens per Lamp: N/A  
Luminaire Lumens: 8351.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 96.3  
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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 |
| 1   | 95  | 90  | 86  | 82  | 86 | 82 | 79 | 75 | 68 | 65 | 63 | 54 | 52 | 51 | 42 | 41 | 39 |
| 2   | 86  | 78  | 71  | 66  | 78 | 71 | 65 | 61 | 59 | 54 | 51 | 47 | 44 | 41 | 36 | 34 | 32 |
| 3   | 78  | 68  | 60  | 54  | 71 | 62 | 55 | 50 | 51 | 46 | 42 | 41 | 37 | 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 | 32 | 28 | 25 | 25 | 22 | 20 |
| 6   | 60  | 47  | 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 | 26 | 22 | 19 | 21 | 17 | 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  | 40 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 13 | 16 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16776 | 16776 | 16776 |
| 5°  | 16852 | 16061 | 15970 |
| 10° | 16739 | 15504 | 15278 |
| 15° | 16503 | 14928 | 14568 |
| 20° | 16206 | 14325 | 13895 |
| 25° | 15911 | 13746 | 13284 |
| 30° | 15499 | 13158 | 12680 |
| 35° | 15081 | 12591 | 12236 |
| 40° | 14643 | 12101 | 11794 |
| 45° | 14224 | 11657 | 11410 |
| 50° | 13774 | 11247 | 11030 |
| 55° | 13302 | 10812 | 10643 |
| 60° | 12723 | 10358 | 10237 |
| 65° | 12122 | 9838  | 9768  |
| 70° | 11442 | 9278  | 9266  |
| 75° | 10567 | 8720  | 8791  |
| 80° | 9197  | 8135  | 8300  |
| 85° | 7811  | 7586  | 7873  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.5  | 1.2       |
| 10°-20°   | 288.2  | 3.5       |
| 20°-30°   | 436.6  | 5.2       |
| 30°-40°   | 531.7  | 6.4       |
| 40°-50°   | 572.0  | 6.9       |
| 50°-60°   | 555.5  | 6.7       |
| 60°-70°   | 485.2  | 5.8       |
| 70°-80°   | 373.4  | 4.5       |
| 80°-90°   | 252.7  | 3.0       |
| 90°-100°  | 221.0  | 2.6       |
| 100°-110° | 306.5  | 3.7       |
| 110°-120° | 561.9  | 6.7       |
| 120°-130° | 840.2  | 10.1      |
| 130°-140° | 862.7  | 10.3      |
| 140°-150° | 787.0  | 9.4       |
| 150°-160° | 630.1  | 7.5       |
| 160°-170° | 406.0  | 4.9       |
| 170°-180° | 139.7  | 1.7       |
| 0°-30°    | 825.2  | 9.9       |
| 0°-40°    | 1356.9 | 16.2      |
| 0°-60°    | 2484.5 | 29.8      |
| 0°-90°    | 3595.7 | 43.1      |
| 90°-120°  | 1089.3 | 13.0      |
| 90°-150°  | 3579.3 | 42.9      |
| 90°-180°  | 4755.0 | 56.9      |
| 0°-180°   | 8351.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1060 | 1060  | 1060 | 1060  | 1060 |      |
| 5°   | 1063 | 1058  | 1049 | 1058  | 1057 | 101  |
| 15°  | 1014 | 1017  | 1017 | 1031  | 1029 | 286  |
| 25°  | 922  | 932   | 946  | 965   | 969  | 424  |
| 35°  | 794  | 820   | 849  | 883   | 894  | 496  |
| 45°  | 651  | 693   | 746  | 794   | 810  | 503  |
| 55°  | 499  | 554   | 634  | 690   | 710  | 447  |
| 65°  | 341  | 416   | 507  | 570   | 590  | 339  |
| 75°  | 189  | 275   | 373  | 439   | 459  | 200  |
| 85°  | 55   | 150   | 249  | 313   | 335  | 58   |
| 90°  | 16   | 117   | 224  | 291   | 311  | 15   |
| 95°  | 81   | 118   | 218  | 282   | 299  | 91   |
| 105° | 331  | 407   | 197  | 262   | 284  | 354  |
| 115° | 617  | 652   | 748  | 302   | 242  | 607  |
| 125° | 867  | 881   | 950  | 999   | 1016 | 774  |
| 135° | 1070 | 1087  | 1112 | 1155  | 1165 | 827  |
| 145° | 1240 | 1239  | 1257 | 1274  | 1276 | 776  |
| 155° | 1365 | 1356  | 1368 | 1375  | 1366 | 629  |
| 165° | 1438 | 1432  | 1435 | 1443  | 1435 | 406  |
| 175° | 1471 | 1464  | 1466 | 1474  | 1463 | 140  |
| 180° | 1468 | 1468  | 1468 | 1468  | 1468 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1059.8 | 1059.8 | 1059.8 | 1059.8 | 1059.8 |
| 2.5°   | 1067.5 | 1062.9 | 1052.2 | 1059.8 | 1056.8 |
| 5°     | 1062.9 | 1058.3 | 1049.1 | 1058.3 | 1056.8 |
| 7.5°   | 1055.2 | 1052.2 | 1044.5 | 1055.2 | 1053.7 |
| 10°    | 1046.0 | 1042.9 | 1038.3 | 1050.6 | 1049.1 |
| 12.5°  | 1030.7 | 1032.2 | 1029.1 | 1041.4 | 1039.9 |
| 15°    | 1013.8 | 1016.8 | 1016.8 | 1030.7 | 1029.1 |
| 17.5°  | 992.3  | 998.4  | 1003.0 | 1016.8 | 1016.8 |
| 20°    | 970.8  | 978.4  | 984.6  | 1001.5 | 1001.5 |
| 22.5°  | 947.7  | 956.9  | 966.1  | 983.0  | 986.1  |
| 25°    | 921.6  | 932.4  | 946.2  | 964.6  | 969.2  |
| 27.5°  | 890.9  | 907.8  | 923.1  | 946.2  | 949.3  |
| 30°    | 860.2  | 880.1  | 900.1  | 924.7  | 929.3  |
| 32.5°  | 826.4  | 849.4  | 874.0  | 903.2  | 912.4  |
| 35°    | 794.1  | 820.2  | 849.4  | 883.2  | 894.0  |
| 37.5°  | 758.8  | 788.0  | 824.8  | 861.7  | 872.5  |
| 40°    | 723.5  | 757.3  | 798.7  | 838.7  | 852.5  |
| 42.5°  | 689.7  | 723.5  | 772.6  | 817.2  | 831.0  |
| 45°    | 651.3  | 692.7  | 746.5  | 794.1  | 809.5  |
| 47.5°  | 614.4  | 658.9  | 720.4  | 769.5  | 786.4  |
| 50°    | 576.0  | 623.6  | 692.7  | 745.0  | 761.9  |
| 52.5°  | 539.1  | 589.8  | 663.6  | 717.3  | 735.7  |
| 55°    | 499.2  | 554.5  | 634.4  | 689.7  | 709.6  |
| 57.5°  | 460.8  | 522.2  | 602.1  | 662.0  | 682.0  |
| 60°    | 419.3  | 485.4  | 572.9  | 631.3  | 652.8  |
| 62.5°  | 382.5  | 451.6  | 539.1  | 602.1  | 622.1  |
| 65°    | 341.0  | 416.3  | 506.9  | 569.9  | 589.8  |
| 67.5°  | 304.1  | 382.5  | 474.6  | 537.6  | 559.1  |
| 70°    | 264.2  | 344.1  | 439.3  | 505.3  | 523.8  |
| 72.5°  | 227.3  | 310.3  | 407.0  | 471.6  | 494.6  |
| 75°    | 188.9  | 274.9  | 373.3  | 439.3  | 459.3  |
| 77.5°  | 152.1  | 241.2  | 341.0  | 407.0  | 428.5  |
| 80°    | 115.2  | 208.9  | 308.7  | 373.3  | 394.8  |
| 82.5°  | 84.5   | 176.6  | 278.0  | 342.5  | 362.5  |
| 85°    | 55.3   | 150.5  | 248.8  | 313.3  | 334.8  |
| 87.5°  | 33.8   | 126.0  | 224.3  | 287.2  | 307.2  |
| 90°    | 16.5   | 117.1  | 224.0  | 290.8  | 311.3  |
| 92.5°  | 40.4   | 117.5  | 214.4  | 276.4  | 296.0  |
| 95°    | 81.4   | 118.5  | 218.0  | 281.7  | 299.1  |
| 97.5°  | 135.1  | 114.0  | 220.1  | 280.1  | 299.6  |
| 100°   | 198.8  | 110.1  | 214.2  | 279.5  | 298.5  |
| 102.5° | 267.4  | 315.9  | 205.5  | 272.5  | 292.6  |
| 105°   | 330.7  | 407.0  | 196.9  | 262.4  | 283.5  |
| 107.5° | 406.1  | 469.5  | 188.2  | 252.2  | 273.4  |
| 110°   | 476.7  | 529.9  | 298.0  | 241.0  | 262.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 544.7  | 588.5  | 641.1  | 232.3  | 252.4  |
| 115°   | 617.0  | 651.9  | 747.7  | 301.8  | 242.2  |
| 117.5° | 678.2  | 711.7  | 794.3  | 688.5  | 425.4  |
| 120°   | 748.3  | 770.4  | 851.0  | 906.7  | 780.2  |
| 122.5° | 807.8  | 826.3  | 904.4  | 952.2  | 967.2  |
| 125°   | 866.8  | 880.7  | 949.9  | 998.9  | 1015.9 |
| 127.5° | 922.1  | 935.4  | 992.8  | 1041.8 | 1056.7 |
| 130°   | 974.1  | 989.5  | 1033.5 | 1082.1 | 1093.3 |
| 132.5° | 1027.3 | 1039.5 | 1074.3 | 1119.1 | 1130.4 |
| 135°   | 1070.3 | 1087.3 | 1112.2 | 1155.2 | 1165.2 |
| 137.5° | 1117.0 | 1129.8 | 1148.1 | 1187.9 | 1195.5 |
| 140°   | 1162.7 | 1169.7 | 1184.5 | 1218.6 | 1222.6 |
| 142.5° | 1201.0 | 1206.9 | 1220.7 | 1247.6 | 1250.0 |
| 145°   | 1239.8 | 1238.8 | 1256.8 | 1273.5 | 1275.9 |
| 147.5° | 1274.9 | 1271.7 | 1289.8 | 1296.6 | 1296.9 |
| 150°   | 1308.9 | 1301.5 | 1318.5 | 1324.8 | 1319.5 |
| 152.5° | 1337.6 | 1329.1 | 1345.0 | 1351.4 | 1344.0 |
| 155°   | 1365.2 | 1355.6 | 1368.4 | 1374.8 | 1366.3 |
| 157.5° | 1387.5 | 1379.0 | 1388.6 | 1396.0 | 1387.5 |
| 160°   | 1406.6 | 1400.3 | 1406.6 | 1413.0 | 1405.6 |
| 162.5° | 1423.6 | 1417.3 | 1422.6 | 1430.0 | 1420.4 |
| 165°   | 1438.5 | 1432.1 | 1435.3 | 1442.8 | 1435.3 |
| 167.5° | 1450.2 | 1443.8 | 1447.0 | 1454.4 | 1444.9 |
| 170°   | 1459.8 | 1453.4 | 1455.5 | 1462.9 | 1453.4 |
| 172.5° | 1466.1 | 1459.8 | 1461.9 | 1469.3 | 1459.8 |
| 175°   | 1471.4 | 1464.0 | 1466.1 | 1473.6 | 1462.9 |
| 177.5° | 1473.6 | 1466.1 | 1467.2 | 1474.6 | 1465.1 |
| 180°   | 1468.3 | 1468.3 | 1468.3 | 1468.3 | 1468.3 |

(END OF REPORT)