

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: P1027353

Luminaire Tested: S125DIP-B1090D1270UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027353  
REPORT IS A COMBINATION OF REPORTS P1001283 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1090D1270UB27-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

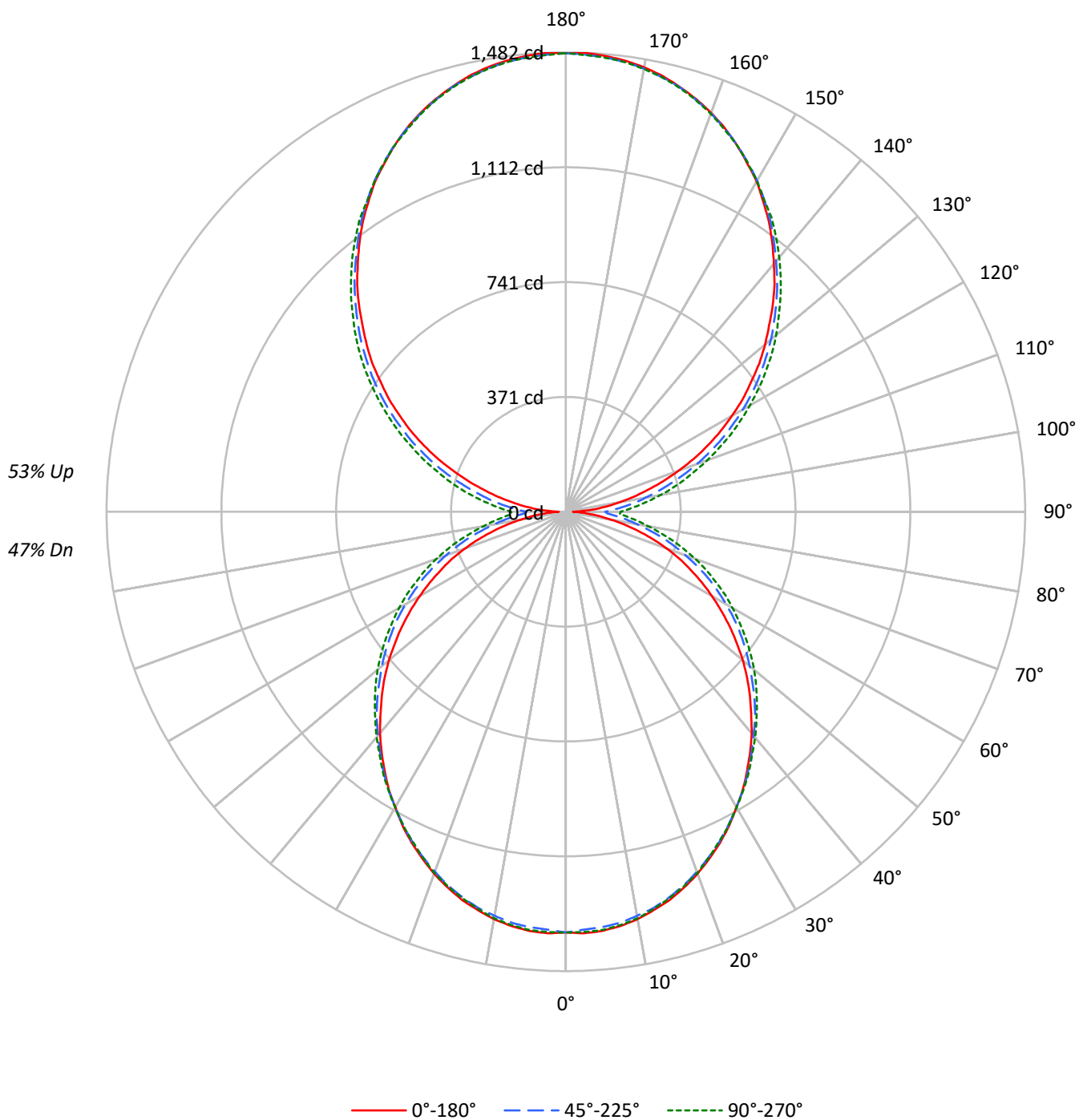
Lumens per Lamp: N/A  
Luminaire Lumens: 8335.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 81.8  
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 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 |
| 1   | 97  | 92  | 88  | 84  | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 |
| 2   | 88  | 80  | 73  | 68  | 80 | 73 | 68 | 63 | 62 | 57 | 54 | 51 | 48 | 45 | 40 | 38 | 36 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 44 | 41 | 38 | 36 | 33 | 31 |
| 4   | 73  | 62  | 54  | 47  | 67 | 57 | 50 | 44 | 48 | 42 | 38 | 39 | 35 | 32 | 32 | 29 | 26 |
| 5   | 67  | 55  | 47  | 40  | 61 | 51 | 43 | 38 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 |
| 6   | 61  | 49  | 41  | 35  | 56 | 45 | 38 | 33 | 38 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 |
| 7   | 57  | 44  | 36  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 21 | 23 | 20 | 18 |
| 8   | 53  | 40  | 32  | 27  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 20 | 17 | 14 |
| 10  | 46  | 34  | 26  | 21  | 42 | 31 | 25 | 20 | 27 | 21 | 18 | 22 | 18 | 15 | 18 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8695 | 8695 | 8695 |
| 5°  | 8709 | 8513 | 8533 |
| 10° | 8644 | 8339 | 8315 |
| 15° | 8539 | 8137 | 8047 |
| 20° | 8397 | 7893 | 7780 |
| 25° | 8228 | 7634 | 7458 |
| 30° | 8024 | 7351 | 7165 |
| 35° | 7834 | 7090 | 6895 |
| 40° | 7641 | 6815 | 6623 |
| 45° | 7421 | 6576 | 6378 |
| 50° | 7212 | 6317 | 6157 |
| 55° | 6960 | 6071 | 5900 |
| 60° | 6684 | 5790 | 5637 |
| 65° | 6394 | 5493 | 5341 |
| 70° | 6063 | 5096 | 5033 |
| 75° | 5543 | 4705 | 4656 |
| 80° | 4857 | 4228 | 4240 |
| 85° | 4185 | 3847 | 4022 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.4  | 1.5       |
| 10°-20°   | 364.6  | 4.4       |
| 20°-30°   | 542.1  | 6.5       |
| 30°-40°   | 642.0  | 7.7       |
| 40°-50°   | 663.7  | 8.0       |
| 50°-60°   | 611.4  | 7.3       |
| 60°-70°   | 494.3  | 5.9       |
| 70°-80°   | 330.7  | 4.0       |
| 80°-90°   | 173.3  | 2.1       |
| 90°-100°  | 194.7  | 2.3       |
| 100°-110° | 363.2  | 4.4       |
| 110°-120° | 543.1  | 6.5       |
| 120°-130° | 679.4  | 8.2       |
| 130°-140° | 742.9  | 8.9       |
| 140°-150° | 719.0  | 8.6       |
| 150°-160° | 602.0  | 7.2       |
| 160°-170° | 400.2  | 4.8       |
| 170°-180° | 140.0  | 1.7       |
| 0°-30°    | 1035.1 | 12.4      |
| 0°-40°    | 1677.1 | 20.1      |
| 0°-60°    | 2952.3 | 35.4      |
| 0°-90°    | 3950.5 | 47.4      |
| 90°-120°  | 1101.0 | 13.2      |
| 90°-150°  | 3242.3 | 38.9      |
| 90°-180°  | 4385.0 | 52.6      |
| 0°-180°   | 8335.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1357 | 1357  | 1357 | 1357  | 1357 |      |
| 5°   | 1357 | 1354  | 1345 | 1356  | 1354 | 129  |
| 15°  | 1296 | 1297  | 1288 | 1296  | 1291 | 365  |
| 25°  | 1178 | 1182  | 1174 | 1179  | 1172 | 542  |
| 35°  | 1019 | 1028  | 1024 | 1028  | 1028 | 638  |
| 45°  | 840  | 854   | 861  | 870   | 872  | 648  |
| 55°  | 645  | 667   | 688  | 702   | 708  | 577  |
| 65°  | 444  | 475   | 507  | 527   | 532  | 441  |
| 75°  | 245  | 279   | 322  | 349   | 355  | 259  |
| 85°  | 73   | 117   | 164  | 193   | 204  | 76   |
| 90°  | 22   | 74    | 128  | 164   | 177  | 20   |
| 95°  | 92   | 129   | 186  | 223   | 235  | 92   |
| 105° | 274  | 302   | 348  | 382   | 395  | 293  |
| 115° | 504  | 518   | 555  | 578   | 585  | 499  |
| 125° | 729  | 735   | 763  | 782   | 787  | 653  |
| 135° | 944  | 950   | 960  | 978   | 980  | 728  |
| 145° | 1142 | 1146  | 1149 | 1156  | 1158 | 714  |
| 155° | 1306 | 1306  | 1307 | 1311  | 1306 | 601  |
| 165° | 1420 | 1417  | 1418 | 1423  | 1416 | 401  |
| 175° | 1476 | 1471  | 1471 | 1478  | 1470 | 140  |
| 180° | 1479 | 1479  | 1479 | 1479  | 1479 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1357.1 | 1357.1 | 1357.1 | 1357.1 | 1357.1 |
| 2.5°   | 1361.1 | 1358.4 | 1349.1 | 1358.4 | 1357.1 |
| 5°     | 1357.1 | 1354.4 | 1345.1 | 1355.8 | 1354.4 |
| 7.5°   | 1347.8 | 1346.4 | 1337.1 | 1346.4 | 1345.1 |
| 10°    | 1334.5 | 1334.5 | 1323.8 | 1333.1 | 1331.8 |
| 12.5°  | 1315.8 | 1317.2 | 1309.2 | 1315.8 | 1311.8 |
| 15°    | 1295.9 | 1297.2 | 1287.9 | 1295.9 | 1290.6 |
| 17.5°  | 1270.6 | 1273.3 | 1263.9 | 1270.6 | 1266.6 |
| 20°    | 1242.7 | 1245.3 | 1236.0 | 1240.0 | 1240.0 |
| 22.5°  | 1210.7 | 1216.1 | 1205.4 | 1210.7 | 1206.7 |
| 25°    | 1177.5 | 1181.5 | 1173.5 | 1178.8 | 1172.1 |
| 27.5°  | 1141.5 | 1146.9 | 1137.6 | 1141.5 | 1138.9 |
| 30°    | 1100.3 | 1108.3 | 1100.3 | 1103.0 | 1101.6 |
| 32.5°  | 1063.0 | 1069.7 | 1064.4 | 1067.0 | 1065.7 |
| 35°    | 1019.1 | 1028.5 | 1024.5 | 1028.5 | 1028.5 |
| 37.5°  | 976.6  | 984.5  | 983.2  | 988.5  | 987.2  |
| 40°    | 932.7  | 943.3  | 942.0  | 947.3  | 950.0  |
| 42.5°  | 884.8  | 899.4  | 903.4  | 910.0  | 910.0  |
| 45°    | 839.5  | 854.2  | 860.8  | 870.1  | 871.5  |
| 47.5°  | 793.0  | 806.3  | 816.9  | 830.2  | 832.9  |
| 50°    | 745.1  | 759.7  | 774.3  | 789.0  | 793.0  |
| 52.5°  | 694.5  | 713.1  | 731.8  | 747.7  | 750.4  |
| 55°    | 645.3  | 666.6  | 687.9  | 702.5  | 707.8  |
| 57.5°  | 594.7  | 620.0  | 643.9  | 659.9  | 663.9  |
| 60°    | 544.2  | 570.8  | 597.4  | 617.3  | 621.3  |
| 62.5°  | 494.9  | 521.5  | 550.8  | 573.4  | 578.8  |
| 65°    | 444.4  | 475.0  | 506.9  | 526.9  | 532.2  |
| 67.5°  | 397.8  | 427.1  | 459.0  | 483.0  | 489.6  |
| 70°    | 345.9  | 376.5  | 411.1  | 436.4  | 444.4  |
| 72.5°  | 295.4  | 327.3  | 365.9  | 393.8  | 399.1  |
| 75°    | 244.8  | 279.4  | 322.0  | 348.6  | 355.2  |
| 77.5°  | 195.6  | 235.5  | 275.4  | 304.7  | 310.0  |
| 80°    | 150.3  | 190.3  | 235.5  | 264.8  | 270.1  |
| 82.5°  | 109.1  | 151.7  | 198.2  | 226.2  | 236.8  |
| 85°    | 73.2   | 117.1  | 163.6  | 192.9  | 203.6  |
| 87.5°  | 46.6   | 89.1   | 134.4  | 165.0  | 174.3  |
| 90°    | 22.5   | 74.3   | 127.5  | 163.9  | 176.6  |
| 92.5°  | 53.1   | 97.5   | 154.5  | 191.7  | 203.4  |
| 95°    | 92.1   | 129.0  | 185.7  | 223.1  | 234.7  |
| 97.5°  | 131.1  | 164.2  | 224.2  | 259.0  | 269.6  |
| 100°   | 175.8  | 203.8  | 261.3  | 299.6  | 309.9  |
| 102.5° | 224.0  | 255.0  | 302.0  | 340.1  | 351.6  |
| 105°   | 274.5  | 301.5  | 348.3  | 381.9  | 394.6  |
| 107.5° | 329.5  | 353.9  | 398.3  | 428.4  | 436.3  |
| 110°   | 386.9  | 408.7  | 449.3  | 478.1  | 486.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 446.8  | 461.1  | 501.6  | 526.7  | 533.7  |
| 115°   | 504.2  | 518.1  | 555.0  | 577.7  | 584.6  |
| 117.5° | 562.7  | 570.5  | 606.1  | 629.8  | 634.5  |
| 120°   | 618.0  | 627.7  | 659.4  | 682.1  | 685.4  |
| 122.5° | 676.5  | 679.0  | 711.7  | 731.8  | 736.4  |
| 125°   | 729.4  | 735.0  | 762.8  | 781.8  | 787.2  |
| 127.5° | 786.8  | 789.0  | 812.7  | 831.5  | 837.2  |
| 130°   | 838.6  | 843.1  | 864.0  | 881.5  | 885.8  |
| 132.5° | 889.1  | 899.5  | 911.7  | 929.1  | 931.0  |
| 135°   | 944.4  | 949.9  | 960.4  | 977.7  | 979.8  |
| 137.5° | 996.2  | 1001.7 | 1009.4 | 1026.5 | 1026.0 |
| 140°   | 1044.3 | 1050.1 | 1054.9 | 1071.8 | 1071.4 |
| 142.5° | 1093.8 | 1097.1 | 1101.7 | 1114.9 | 1114.4 |
| 145°   | 1142.2 | 1145.5 | 1148.9 | 1155.6 | 1157.5 |
| 147.5° | 1185.8 | 1189.2 | 1191.5 | 1197.7 | 1191.1 |
| 150°   | 1230.7 | 1229.5 | 1234.1 | 1234.1 | 1233.1 |
| 152.5° | 1267.5 | 1269.8 | 1271.0 | 1274.4 | 1269.8 |
| 155°   | 1305.5 | 1305.5 | 1306.6 | 1311.3 | 1305.5 |
| 157.5° | 1340.0 | 1337.7 | 1338.9 | 1343.5 | 1335.4 |
| 160°   | 1370.0 | 1366.5 | 1367.7 | 1372.3 | 1366.5 |
| 162.5° | 1396.4 | 1394.1 | 1394.1 | 1399.9 | 1393.0 |
| 165°   | 1419.5 | 1417.2 | 1418.3 | 1422.9 | 1416.0 |
| 167.5° | 1440.2 | 1435.6 | 1435.6 | 1442.5 | 1435.6 |
| 170°   | 1456.3 | 1451.7 | 1451.7 | 1458.6 | 1450.6 |
| 172.5° | 1467.8 | 1463.2 | 1463.2 | 1470.1 | 1463.2 |
| 175°   | 1475.9 | 1471.3 | 1471.3 | 1478.2 | 1470.1 |
| 177.5° | 1481.6 | 1477.0 | 1475.9 | 1482.8 | 1474.7 |
| 180°   | 1479.3 | 1479.3 | 1479.3 | 1479.3 | 1479.3 |

(END OF REPORT)