

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: P1027383

Luminaire Tested: S125DIP-B1090D1270UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027383  
REPORT IS A COMBINATION OF REPORTS P1001328 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1090D1270UB40-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

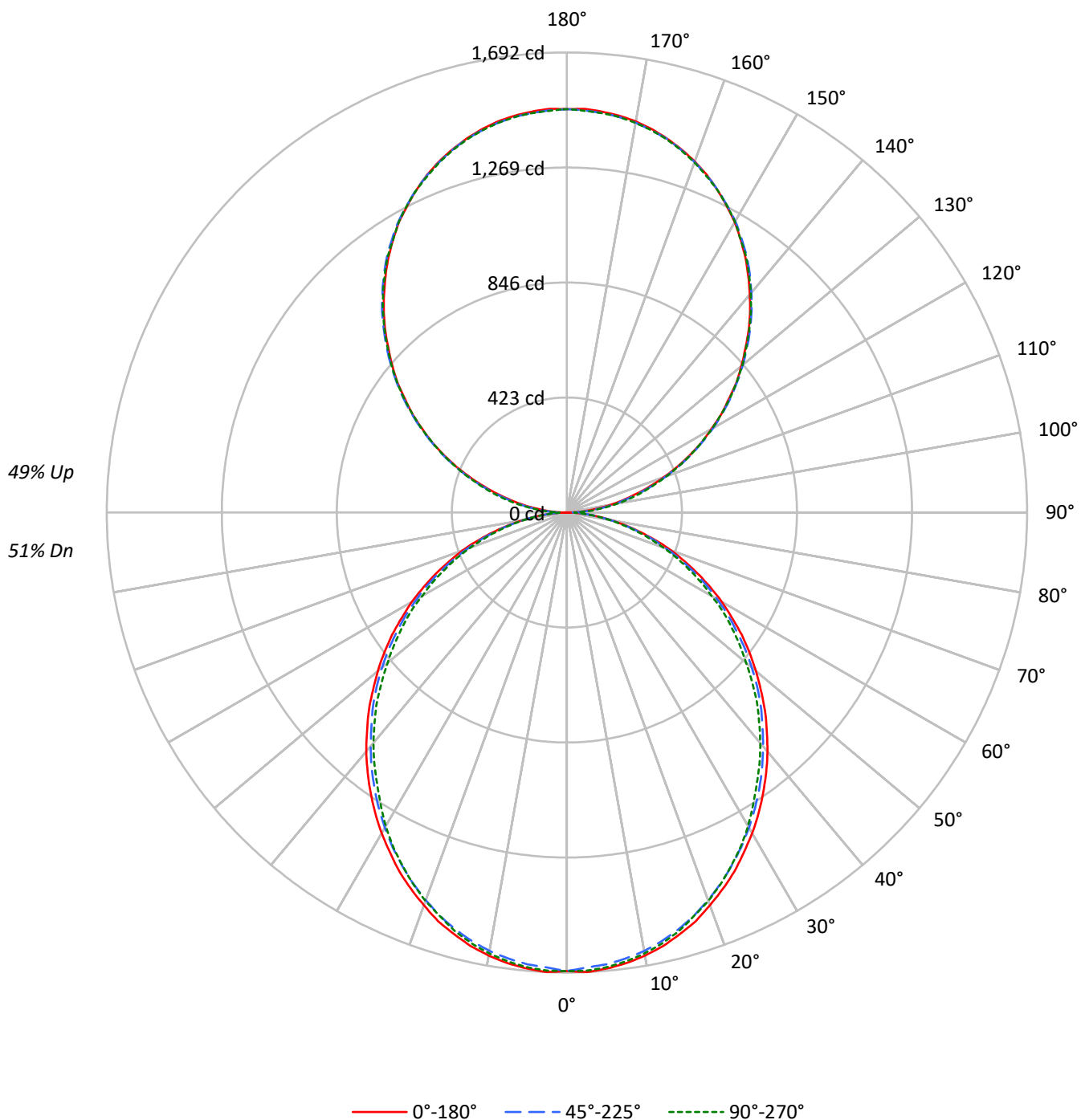
Lumens per Lamp: N/A  
Luminaire Lumens: 8533.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 |
| 1   | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 50 | 48 |
| 2   | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 65 | 61 | 57 | 54 | 51 | 49 | 45 | 43 | 41 |
| 3   | 81  | 72  | 64  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 |
| 4   | 74  | 64  | 56  | 50  | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 |
| 5   | 68  | 57  | 48  | 42  | 63 | 53 | 45 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 25 | 23 |
| 7   | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 |
| 9   | 50  | 38  | 31  | 25  | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10807 | 10807 | 10807 |
| 5°  | 10807 | 10556 | 10576 |
| 10° | 10717 | 10314 | 10281 |
| 15° | 10577 | 10024 | 9935  |
| 20° | 10387 | 9689  | 9537  |
| 25° | 10183 | 9322  | 9111  |
| 30° | 9936  | 8941  | 8662  |
| 35° | 9673  | 8542  | 8159  |
| 40° | 9401  | 8119  | 7711  |
| 45° | 9107  | 7707  | 7237  |
| 50° | 8783  | 7240  | 6683  |
| 55° | 8462  | 6724  | 6174  |
| 60° | 8081  | 6181  | 5582  |
| 65° | 7623  | 5553  | 4969  |
| 70° | 7157  | 4830  | 4262  |
| 75° | 6376  | 3977  | 3446  |
| 80° | 5432  | 2971  | 2535  |
| 85° | 4197  | 1756  | 1397  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.2  | 1.9       |
| 10°-20°   | 449.6  | 5.3       |
| 20°-30°   | 663.7  | 7.8       |
| 30°-40°   | 774.4  | 9.1       |
| 40°-50°   | 777.7  | 9.1       |
| 50°-60°   | 682.7  | 8.0       |
| 60°-70°   | 508.5  | 6.0       |
| 70°-80°   | 290.4  | 3.4       |
| 80°-90°   | 86.1   | 1.0       |
| 90°-100°  | 98.7   | 1.2       |
| 100°-110° | 293.1  | 3.4       |
| 110°-120° | 497.1  | 5.8       |
| 120°-130° | 654.4  | 7.7       |
| 130°-140° | 733.3  | 8.6       |
| 140°-150° | 718.7  | 8.4       |
| 150°-160° | 603.7  | 7.1       |
| 160°-170° | 401.3  | 4.7       |
| 170°-180° | 140.4  | 1.6       |
| 0°-30°    | 1272.4 | 14.9      |
| 0°-40°    | 2046.8 | 24.0      |
| 0°-60°    | 3507.2 | 41.1      |
| 0°-90°    | 4392.3 | 51.5      |
| 90°-120°  | 888.8  | 10.4      |
| 90°-150°  | 2995.2 | 35.1      |
| 90°-180°  | 4141.0 | 48.5      |
| 0°-180°   | 8533.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1687 | 1687  | 1687 | 1687  | 1687 |      |
| 5°   | 1684 | 1681  | 1668 | 1680  | 1679 | 160  |
| 15°  | 1605 | 1601  | 1587 | 1593  | 1593 | 453  |
| 25°  | 1457 | 1450  | 1433 | 1436  | 1432 | 670  |
| 35°  | 1258 | 1253  | 1234 | 1228  | 1217 | 787  |
| 45°  | 1030 | 1025  | 1009 | 993   | 989  | 794  |
| 55°  | 785  | 781   | 762  | 750   | 741  | 700  |
| 65°  | 530  | 527   | 512  | 500   | 495  | 525  |
| 75°  | 282  | 279   | 272  | 268   | 263  | 300  |
| 85°  | 73   | 75    | 75   | 73    | 71   | 80   |
| 90°  | 1    | 10    | 18   | 24    | 28   | 10   |
| 95°  | 75   | 77    | 89   | 97    | 99   | 78   |
| 105° | 263  | 269   | 276  | 283   | 286  | 281  |
| 115° | 498  | 502   | 504  | 503   | 502  | 492  |
| 125° | 726  | 733   | 734  | 732   | 731  | 651  |
| 135° | 944  | 951   | 952  | 952   | 948  | 728  |
| 145° | 1144 | 1149  | 1152 | 1152  | 1149 | 715  |
| 155° | 1309 | 1309  | 1310 | 1315  | 1309 | 603  |
| 165° | 1424 | 1421  | 1422 | 1427  | 1420 | 402  |
| 175° | 1480 | 1476  | 1476 | 1482  | 1474 | 141  |
| 180° | 1484 | 1484  | 1484 | 1484  | 1484 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1686.7 | 1686.7 | 1686.7 | 1686.7 | 1686.7 |
| 2.5°   | 1692.0 | 1688.0 | 1674.7 | 1688.0 | 1686.7 |
| 5°     | 1684.0 | 1681.3 | 1668.0 | 1680.0 | 1678.7 |
| 7.5°   | 1672.0 | 1669.3 | 1654.6 | 1666.7 | 1665.3 |
| 10°    | 1654.6 | 1652.0 | 1637.3 | 1648.0 | 1646.6 |
| 12.5°  | 1633.3 | 1628.0 | 1614.6 | 1622.6 | 1622.6 |
| 15°    | 1605.3 | 1601.3 | 1586.6 | 1593.3 | 1593.3 |
| 17.5°  | 1575.9 | 1569.2 | 1554.6 | 1562.6 | 1555.9 |
| 20°    | 1537.2 | 1534.6 | 1517.2 | 1526.5 | 1519.9 |
| 22.5°  | 1498.5 | 1493.2 | 1477.2 | 1482.5 | 1478.5 |
| 25°    | 1457.2 | 1450.5 | 1433.1 | 1435.8 | 1431.8 |
| 27.5°  | 1409.1 | 1405.1 | 1387.8 | 1389.1 | 1385.1 |
| 30°    | 1362.4 | 1358.4 | 1338.4 | 1335.7 | 1331.7 |
| 32.5°  | 1311.7 | 1305.0 | 1287.7 | 1282.4 | 1274.3 |
| 35°    | 1258.3 | 1253.0 | 1234.3 | 1227.6 | 1217.0 |
| 37.5°  | 1203.6 | 1197.0 | 1179.6 | 1170.3 | 1163.6 |
| 40°    | 1147.6 | 1140.9 | 1122.2 | 1110.2 | 1106.2 |
| 42.5°  | 1087.5 | 1082.2 | 1063.5 | 1052.8 | 1046.2 |
| 45°    | 1030.2 | 1024.8 | 1008.8 | 992.8  | 988.8  |
| 47.5°  | 967.4  | 968.8  | 948.8  | 932.7  | 923.4  |
| 50°    | 907.4  | 903.4  | 887.4  | 870.0  | 860.7  |
| 52.5°  | 846.0  | 843.3  | 826.0  | 811.3  | 800.6  |
| 55°    | 784.6  | 780.6  | 761.9  | 749.9  | 740.6  |
| 57.5°  | 719.2  | 717.9  | 701.9  | 685.9  | 681.9  |
| 60°    | 657.9  | 652.5  | 637.8  | 624.5  | 615.2  |
| 62.5°  | 593.8  | 589.8  | 577.8  | 563.1  | 556.4  |
| 65°    | 529.8  | 527.1  | 512.4  | 500.4  | 495.1  |
| 67.5°  | 467.0  | 461.7  | 451.0  | 440.4  | 437.7  |
| 70°    | 408.3  | 401.7  | 389.6  | 381.6  | 376.3  |
| 72.5°  | 344.3  | 340.3  | 333.6  | 324.3  | 318.9  |
| 75°    | 281.6  | 278.9  | 272.2  | 268.2  | 262.9  |
| 77.5°  | 222.8  | 221.5  | 217.5  | 214.8  | 210.8  |
| 80°    | 168.1  | 168.1  | 165.5  | 164.1  | 161.5  |
| 82.5°  | 120.1  | 117.4  | 117.4  | 114.8  | 114.8  |
| 85°    | 73.4   | 74.7   | 74.7   | 73.4   | 70.7   |
| 87.5°  | 36.0   | 36.0   | 34.7   | 34.7   | 32.0   |
| 90°    | 1.2    | 10.4   | 18.5   | 24.2   | 27.7   |
| 92.5°  | 34.6   | 40.4   | 50.8   | 58.9   | 61.2   |
| 95°    | 75.0   | 77.4   | 88.9   | 97.0   | 99.3   |
| 97.5°  | 115.5  | 116.6  | 132.8  | 139.7  | 140.9  |
| 100°   | 161.6  | 161.6  | 176.7  | 187.0  | 189.4  |
| 102.5° | 211.3  | 217.1  | 222.8  | 234.4  | 237.8  |
| 105°   | 263.2  | 269.0  | 275.9  | 282.9  | 286.3  |
| 107.5° | 319.8  | 325.6  | 331.4  | 334.8  | 334.8  |
| 110°   | 378.7  | 384.5  | 387.9  | 391.4  | 390.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 438.7  | 441.0  | 445.7  | 446.8  | 444.5  |
| 115°   | 497.6  | 502.2  | 504.5  | 503.4  | 502.2  |
| 117.5° | 557.7  | 558.8  | 561.1  | 562.3  | 557.7  |
| 120°   | 613.1  | 618.9  | 620.0  | 620.0  | 615.4  |
| 122.5° | 673.1  | 674.3  | 677.7  | 676.6  | 673.1  |
| 125°   | 726.2  | 733.2  | 734.3  | 732.0  | 730.8  |
| 127.5° | 785.1  | 788.6  | 789.7  | 788.6  | 786.3  |
| 130°   | 837.1  | 842.8  | 845.1  | 844.0  | 841.7  |
| 132.5° | 889.0  | 899.4  | 898.3  | 897.1  | 893.6  |
| 135°   | 944.4  | 951.4  | 952.5  | 952.5  | 947.9  |
| 137.5° | 996.4  | 1003.3 | 1005.6 | 1006.8 | 1001.0 |
| 140°   | 1046.0 | 1051.8 | 1055.3 | 1057.6 | 1051.8 |
| 142.5° | 1095.7 | 1100.3 | 1104.9 | 1106.1 | 1100.3 |
| 145°   | 1144.2 | 1148.8 | 1152.3 | 1152.3 | 1148.8 |
| 147.5° | 1189.2 | 1192.7 | 1195.0 | 1198.4 | 1189.2 |
| 150°   | 1234.2 | 1233.1 | 1237.7 | 1237.7 | 1235.4 |
| 152.5° | 1271.2 | 1273.5 | 1274.7 | 1278.1 | 1273.5 |
| 155°   | 1309.3 | 1309.3 | 1310.4 | 1315.1 | 1309.3 |
| 157.5° | 1343.9 | 1341.6 | 1342.8 | 1347.4 | 1339.3 |
| 160°   | 1373.9 | 1370.5 | 1371.6 | 1376.3 | 1370.5 |
| 162.5° | 1400.5 | 1398.2 | 1398.2 | 1404.0 | 1397.0 |
| 165°   | 1423.6 | 1421.3 | 1422.4 | 1427.1 | 1420.1 |
| 167.5° | 1444.4 | 1439.8 | 1439.8 | 1446.7 | 1439.8 |
| 170°   | 1460.5 | 1455.9 | 1455.9 | 1462.8 | 1454.8 |
| 172.5° | 1472.1 | 1467.5 | 1467.5 | 1474.4 | 1467.5 |
| 175°   | 1480.2 | 1475.5 | 1475.5 | 1482.5 | 1474.4 |
| 177.5° | 1485.9 | 1481.3 | 1480.2 | 1487.1 | 1479.0 |
| 180°   | 1483.6 | 1483.6 | 1483.6 | 1483.6 | 1483.6 |

(END OF REPORT)