

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: P1028252

Luminaire Tested: S125DIP-B850D1270UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028252  
REPORT IS A COMBINATION OF REPORTS P1002509 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B850D1270UB30-4F0-XX-W2A-F  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

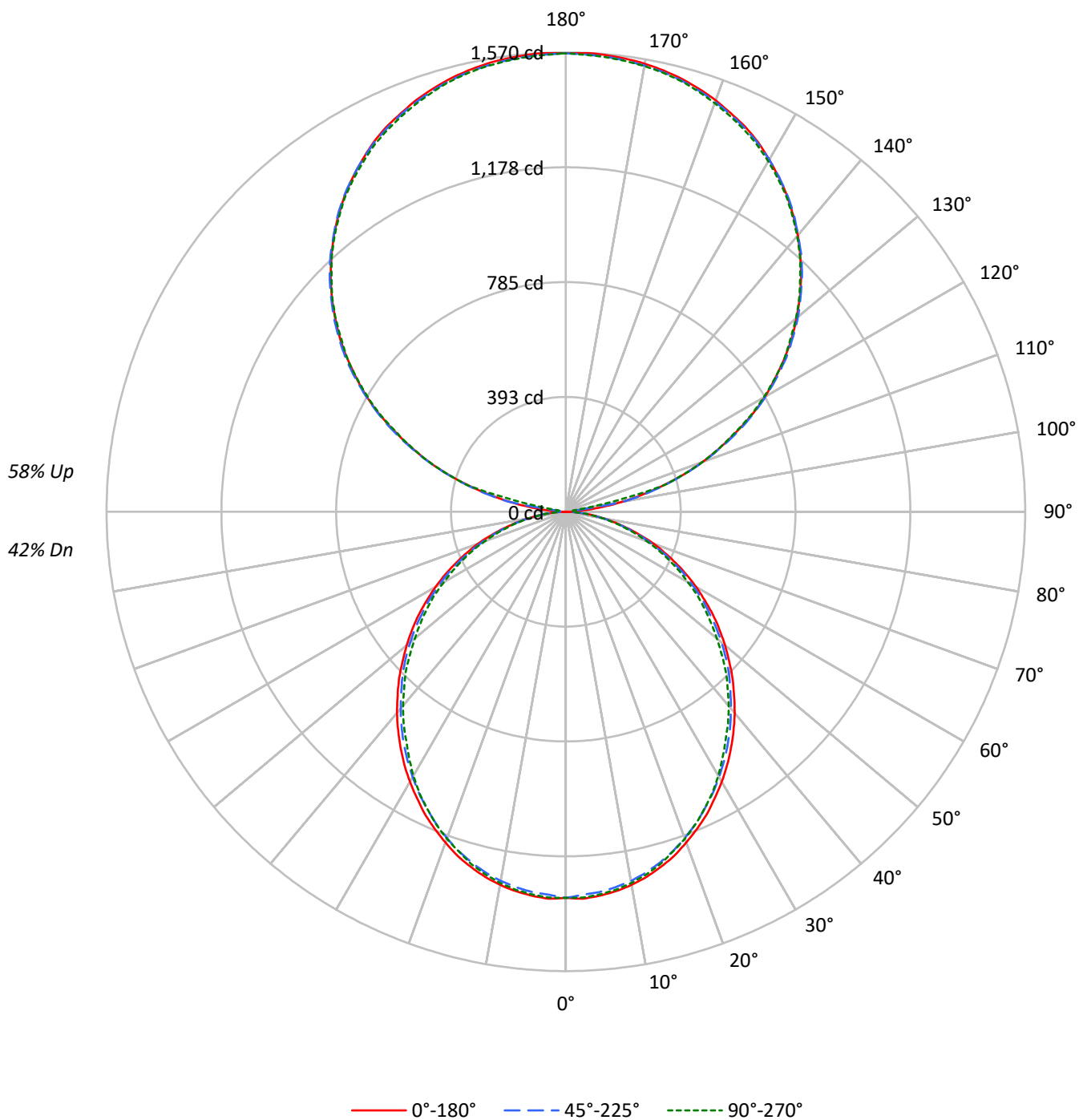
Lumens per Lamp: N/A  
Luminaire Lumens: 8250.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 70.9  
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 | 63 | 63 | 63 | 48 | 48 | 48 |
| 1   | 96  | 92  | 88  | 84  | 87 | 84 | 80 | 77 | 69 | 67 | 64 | 55 | 54 | 52 | 43 | 42 | 41 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 63 | 60 | 57 | 53 | 48 | 46 | 44 | 38 | 36 | 34 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 33 | 31 | 29 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 30 | 27 | 25 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 |
| 6   | 61  | 49  | 41  | 36  | 56 | 45 | 38 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 17 | 15 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 23 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8456 | 8456 | 8456 |
| 5°  | 8456 | 8259 | 8275 |
| 10° | 8386 | 8070 | 8045 |
| 15° | 8276 | 7843 | 7774 |
| 20° | 8127 | 7581 | 7462 |
| 25° | 7968 | 7295 | 7128 |
| 30° | 7774 | 6996 | 6777 |
| 35° | 7569 | 6683 | 6384 |
| 40° | 7356 | 6353 | 6034 |
| 45° | 7126 | 6030 | 5662 |
| 50° | 6872 | 5665 | 5229 |
| 55° | 6621 | 5262 | 4831 |
| 60° | 6322 | 4837 | 4367 |
| 65° | 5964 | 4345 | 3888 |
| 70° | 5601 | 3780 | 3334 |
| 75° | 4988 | 3112 | 2696 |
| 80° | 4253 | 2325 | 1983 |
| 85° | 3282 | 1376 | 1092 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7126 cd/sqm

TEST NUMBER: P1028252

CATALOG NUMBER: S125DIP-B850D1270UB30-4F0-XX-W2A-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.5  | 1.5       |
| 10°-20°   | 351.8  | 4.3       |
| 20°-30°   | 519.3  | 6.3       |
| 30°-40°   | 605.9  | 7.3       |
| 40°-50°   | 608.5  | 7.4       |
| 50°-60°   | 534.2  | 6.5       |
| 60°-70°   | 397.9  | 4.8       |
| 70°-80°   | 227.2  | 2.8       |
| 80°-90°   | 67.9   | 0.8       |
| 90°-100°  | 53.2   | 0.6       |
| 100°-110° | 353.6  | 4.3       |
| 110°-120° | 636.8  | 7.7       |
| 120°-130° | 817.3  | 9.9       |
| 130°-140° | 879.0  | 10.7      |
| 140°-150° | 825.0  | 10.0      |
| 150°-160° | 667.3  | 8.1       |
| 160°-170° | 431.6  | 5.2       |
| 170°-180° | 148.8  | 1.8       |
| 0°-30°    | 995.6  | 12.1      |
| 0°-40°    | 1601.5 | 19.4      |
| 0°-60°    | 2744.3 | 33.3      |
| 0°-90°    | 3437.3 | 41.7      |
| 90°-120°  | 1043.5 | 12.6      |
| 90°-150°  | 3564.9 | 43.2      |
| 90°-180°  | 4813.0 | 58.3      |
| 0°-180°   | 8250.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1320 | 1320  | 1320 | 1320  | 1320 |      |
| 5°   | 1318 | 1316  | 1305 | 1314  | 1314 | 125  |
| 15°  | 1256 | 1253  | 1241 | 1247  | 1247 | 354  |
| 25°  | 1140 | 1135  | 1121 | 1124  | 1120 | 525  |
| 35°  | 985  | 980   | 966  | 961   | 952  | 616  |
| 45°  | 806  | 802   | 789  | 777   | 774  | 621  |
| 55°  | 614  | 611   | 596  | 587   | 580  | 548  |
| 65°  | 414  | 412   | 401  | 392   | 387  | 411  |
| 75°  | 220  | 218   | 213  | 210   | 206  | 235  |
| 85°  | 57   | 58    | 58   | 57    | 55   | 63   |
| 90°  | 1    | 10    | 19   | 24    | 28   | 7    |
| 95°  | 66   | 63    | 19   | 24    | 24   | 81   |
| 105° | 342  | 346   | 346  | 346   | 345  | 362  |
| 115° | 641  | 647   | 648  | 643   | 636  | 636  |
| 125° | 912  | 920   | 920  | 915   | 912  | 814  |
| 135° | 1137 | 1144  | 1142 | 1139  | 1132 | 877  |
| 145° | 1318 | 1320  | 1320 | 1322  | 1315 | 824  |
| 155° | 1452 | 1445  | 1447 | 1451  | 1441 | 669  |
| 165° | 1532 | 1525  | 1526 | 1533  | 1524 | 433  |
| 175° | 1567 | 1560  | 1561 | 1570  | 1560 | 149  |
| 180° | 1567 | 1567  | 1567 | 1567  | 1567 |      |

TEST NUMBER: P1028252

CATALOG NUMBER: S125DIP-B850D1270UB30-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1319.8 | 1319.8 | 1319.8 | 1319.8 | 1319.8 |
| 2.5°   | 1323.9 | 1320.8 | 1310.4 | 1320.8 | 1319.8 |
| 5°     | 1317.7 | 1315.6 | 1305.1 | 1314.5 | 1313.5 |
| 7.5°   | 1308.3 | 1306.2 | 1294.7 | 1304.1 | 1303.1 |
| 10°    | 1294.7 | 1292.6 | 1281.1 | 1289.5 | 1288.4 |
| 12.5°  | 1278.0 | 1273.8 | 1263.4 | 1269.6 | 1269.6 |
| 15°    | 1256.1 | 1252.9 | 1241.4 | 1246.7 | 1246.7 |
| 17.5°  | 1233.1 | 1227.9 | 1216.4 | 1222.7 | 1217.4 |
| 20°    | 1202.8 | 1200.7 | 1187.2 | 1194.5 | 1189.2 |
| 22.5°  | 1172.5 | 1168.4 | 1155.8 | 1160.0 | 1156.9 |
| 25°    | 1140.2 | 1134.9 | 1121.4 | 1123.5 | 1120.3 |
| 27.5°  | 1102.6 | 1099.4 | 1085.9 | 1086.9 | 1083.8 |
| 30°    | 1066.0 | 1062.9 | 1047.2 | 1045.2 | 1042.0 |
| 32.5°  | 1026.4 | 1021.1 | 1007.6 | 1003.4 | 997.1  |
| 35°    | 984.6  | 980.4  | 965.8  | 960.6  | 952.2  |
| 37.5°  | 941.8  | 936.6  | 923.0  | 915.7  | 910.5  |
| 40°    | 897.9  | 892.7  | 878.1  | 868.7  | 865.6  |
| 42.5°  | 851.0  | 846.8  | 832.2  | 823.8  | 818.6  |
| 45°    | 806.1  | 801.9  | 789.3  | 776.8  | 773.7  |
| 47.5°  | 757.0  | 758.0  | 742.4  | 729.8  | 722.5  |
| 50°    | 710.0  | 706.9  | 694.3  | 680.8  | 673.5  |
| 52.5°  | 662.0  | 659.9  | 646.3  | 634.8  | 626.5  |
| 55°    | 613.9  | 610.8  | 596.2  | 586.8  | 579.5  |
| 57.5°  | 562.8  | 561.7  | 549.2  | 536.7  | 533.5  |
| 60°    | 514.7  | 510.6  | 499.1  | 488.6  | 481.3  |
| 62.5°  | 464.6  | 461.5  | 452.1  | 440.6  | 435.4  |
| 65°    | 414.5  | 412.4  | 400.9  | 391.5  | 387.4  |
| 67.5°  | 365.4  | 361.3  | 352.9  | 344.6  | 342.5  |
| 70°    | 319.5  | 314.3  | 304.9  | 298.6  | 294.4  |
| 72.5°  | 269.4  | 266.2  | 261.0  | 253.7  | 249.5  |
| 75°    | 220.3  | 218.2  | 213.0  | 209.9  | 205.7  |
| 77.5°  | 174.4  | 173.3  | 170.2  | 168.1  | 165.0  |
| 80°    | 131.6  | 131.6  | 129.5  | 128.4  | 126.3  |
| 82.5°  | 94.0   | 91.9   | 91.9   | 89.8   | 89.8   |
| 85°    | 57.4   | 58.5   | 58.5   | 57.4   | 55.3   |
| 87.5°  | 28.2   | 28.2   | 27.1   | 27.1   | 25.1   |
| 90°    | 1.2    | 10.5   | 18.6   | 24.4   | 27.9   |
| 92.5°  | 22.1   | 11.6   | 18.6   | 24.4   | 25.6   |
| 95°    | 66.2   | 62.7   | 18.6   | 24.4   | 24.4   |
| 97.5°  | 124.3  | 131.2  | 20.9   | 23.2   | 24.4   |
| 100°   | 194.0  | 197.4  | 202.1  | 29.0   | 24.4   |
| 102.5° | 264.8  | 269.4  | 271.8  | 274.1  | 176.5  |
| 105°   | 341.5  | 346.1  | 346.1  | 346.1  | 344.9  |
| 107.5° | 420.4  | 420.4  | 422.8  | 423.9  | 419.3  |
| 110°   | 497.1  | 497.1  | 499.4  | 495.9  | 497.1  |

TEST NUMBER: P1028252

CATALOG NUMBER: S125DIP-B850D1270UB30-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 569.1  | 572.6  | 573.7  | 569.1  | 566.8  |
| 115°   | 641.1  | 646.9  | 648.1  | 643.4  | 636.4  |
| 117.5° | 716.6  | 716.6  | 721.2  | 714.3  | 711.9  |
| 120°   | 786.3  | 785.1  | 788.6  | 786.3  | 780.5  |
| 122.5° | 847.8  | 853.6  | 854.8  | 852.5  | 845.5  |
| 125°   | 911.7  | 919.8  | 919.8  | 915.2  | 911.7  |
| 127.5° | 973.3  | 979.1  | 977.9  | 975.6  | 966.3  |
| 130°   | 1029.0 | 1034.8 | 1036.0 | 1032.5 | 1026.7 |
| 132.5° | 1084.8 | 1091.7 | 1088.2 | 1088.2 | 1082.4 |
| 135°   | 1137.0 | 1144.0 | 1141.7 | 1139.3 | 1132.4 |
| 137.5° | 1185.8 | 1192.8 | 1190.4 | 1190.4 | 1184.6 |
| 140°   | 1233.4 | 1235.7 | 1234.6 | 1236.9 | 1229.9 |
| 142.5° | 1276.4 | 1277.5 | 1279.9 | 1279.9 | 1272.9 |
| 145°   | 1318.2 | 1320.5 | 1320.5 | 1321.7 | 1314.7 |
| 147.5° | 1355.4 | 1355.4 | 1356.5 | 1357.7 | 1349.6 |
| 150°   | 1390.2 | 1387.9 | 1390.2 | 1392.5 | 1383.2 |
| 152.5° | 1423.9 | 1418.1 | 1420.4 | 1422.7 | 1414.6 |
| 155°   | 1451.8 | 1444.8 | 1447.1 | 1450.6 | 1441.3 |
| 157.5° | 1473.8 | 1470.3 | 1470.3 | 1473.8 | 1464.5 |
| 160°   | 1497.0 | 1490.1 | 1491.2 | 1495.9 | 1486.6 |
| 162.5° | 1515.6 | 1508.7 | 1509.8 | 1516.8 | 1506.3 |
| 165°   | 1531.9 | 1524.9 | 1526.1 | 1533.1 | 1523.8 |
| 167.5° | 1544.7 | 1537.7 | 1538.9 | 1547.0 | 1536.5 |
| 170°   | 1555.1 | 1547.0 | 1548.2 | 1557.4 | 1547.0 |
| 172.5° | 1562.1 | 1554.0 | 1556.3 | 1564.4 | 1554.0 |
| 175°   | 1566.7 | 1559.8 | 1560.9 | 1570.2 | 1559.8 |
| 177.5° | 1570.2 | 1563.2 | 1564.4 | 1572.5 | 1563.2 |
| 180°   | 1566.7 | 1566.7 | 1566.7 | 1566.7 | 1566.7 |

(END OF REPORT)