

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: P996803

Luminaire Tested: S125DRP-B1090DB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-B1090DB2750-4F0-XX-W2A-F\_5000K  
Description: Define 5 Direct Perimeter with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

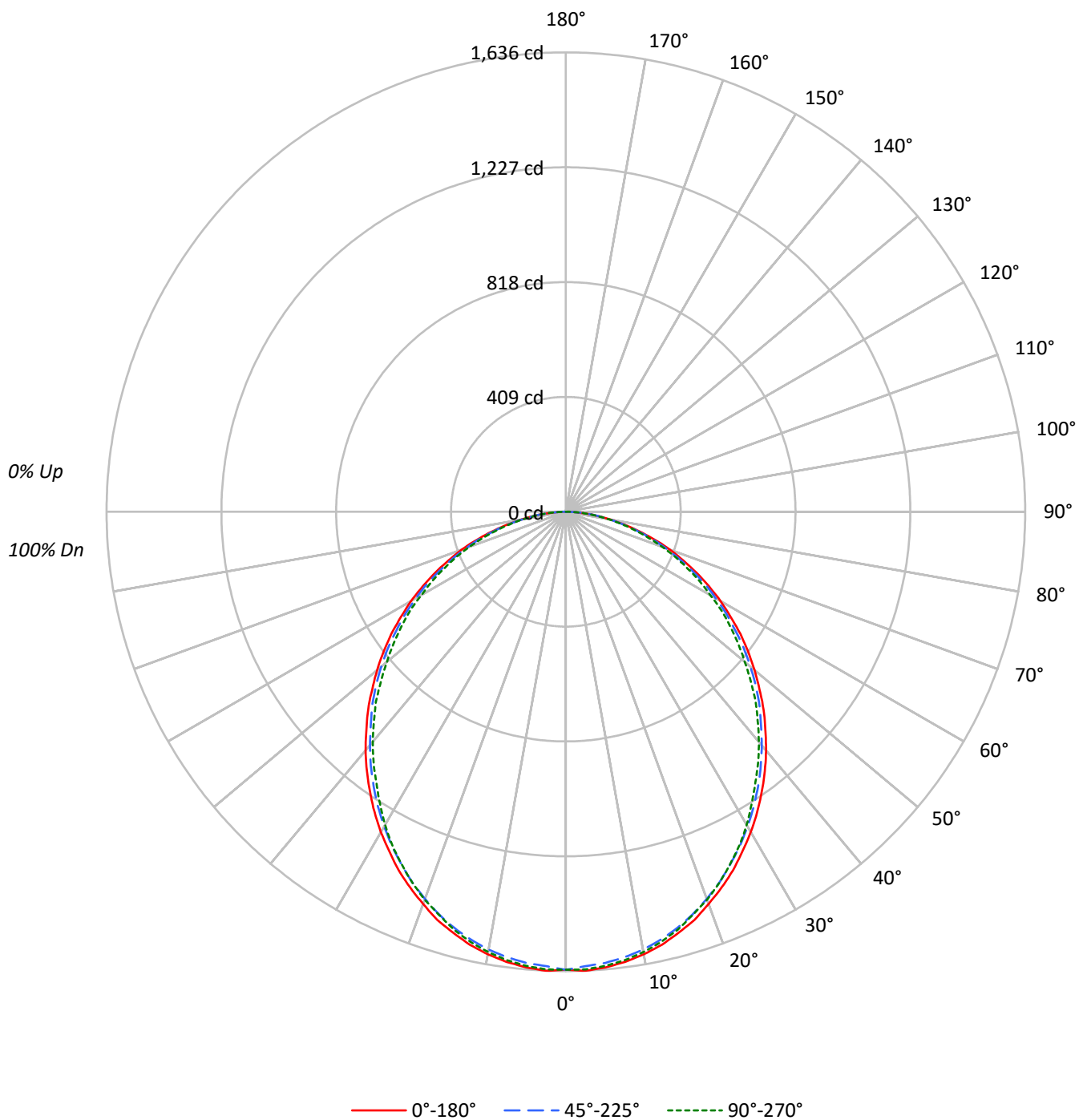
Lumens per Lamp: N/A  
Luminaire Lumens: 4245.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  |  | 82  | 78  | 74  |  | 79  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 67  | 63  |  | 70  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  |  | 58  | 52  | 47  |  | 57  |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  |  | 44  | 38  | 33  |  | 43  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10450 | 10450 | 10450 |
| 5°  | 10473 | 10373 | 10440 |
| 10° | 10409 | 10300 | 10359 |
| 15° | 10297 | 10177 | 10219 |
| 20° | 10135 | 10003 | 10021 |
| 25° | 9961  | 9797  | 9788  |
| 30° | 9746  | 9575  | 9527  |
| 35° | 9517  | 9335  | 9204  |
| 40° | 9281  | 9076  | 8947  |
| 45° | 9026  | 8839  | 8663  |
| 50° | 8746  | 8553  | 8296  |
| 55° | 8475  | 8230  | 7999  |
| 60° | 8151  | 7904  | 7622  |
| 65° | 7767  | 7512  | 7257  |
| 70° | 7396  | 7059  | 6817  |
| 75° | 6741  | 6516  | 6293  |
| 80° | 5999  | 5904  | 5760  |
| 85° | 5219  | 5315  | 5028  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9026 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.9  | 3.6       |
| 10°-20°   | 434.7  | 10.2      |
| 20°-30°   | 641.8  | 15.1      |
| 30°-40°   | 748.8  | 17.6      |
| 40°-50°   | 752.0  | 17.7      |
| 50°-60°   | 660.2  | 15.6      |
| 60°-70°   | 491.7  | 11.6      |
| 70°-80°   | 280.8  | 6.6       |
| 80°-90°   | 81.1   | 1.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1230.4 | 29.0      |
| 0°-40°    | 1979.2 | 46.6      |
| 0°-60°    | 3391.4 | 79.9      |
| 0°-90°    | 4245.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4245.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1631 | 1631  | 1631 | 1631  | 1631 |      |
| 5°  | 1628 | 1626  | 1613 | 1624  | 1623 | 155  |
| 15° | 1552 | 1548  | 1534 | 1541  | 1541 | 438  |
| 25° | 1409 | 1403  | 1386 | 1388  | 1384 | 648  |
| 35° | 1217 | 1212  | 1194 | 1187  | 1177 | 761  |
| 45° | 996  | 991   | 976  | 960   | 956  | 767  |
| 55° | 759  | 755   | 737  | 725   | 716  | 677  |
| 65° | 512  | 510   | 496  | 484   | 479  | 508  |
| 75° | 272  | 270   | 263  | 259   | 254  | 290  |
| 85° | 71   | 72    | 72   | 71    | 68   | 82   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1631.0 | 1631.0 | 1631.0 | 1631.0 | 1631.0 |
| 2.5°  | 1636.1 | 1632.3 | 1619.4 | 1632.3 | 1631.0 |
| 5°    | 1628.4 | 1625.8 | 1612.9 | 1624.5 | 1623.2 |
| 7.5°  | 1616.8 | 1614.2 | 1600.0 | 1611.6 | 1610.3 |
| 10°   | 1600.0 | 1597.4 | 1583.2 | 1593.5 | 1592.3 |
| 12.5° | 1579.4 | 1574.2 | 1561.3 | 1569.0 | 1569.0 |
| 15°   | 1552.3 | 1548.4 | 1534.2 | 1540.6 | 1540.6 |
| 17.5° | 1523.9 | 1517.4 | 1503.2 | 1511.0 | 1504.5 |
| 20°   | 1486.4 | 1483.9 | 1467.1 | 1476.1 | 1469.7 |
| 22.5° | 1449.0 | 1443.9 | 1428.4 | 1433.5 | 1429.7 |
| 25°   | 1409.0 | 1402.6 | 1385.8 | 1388.4 | 1384.5 |
| 27.5° | 1362.6 | 1358.7 | 1341.9 | 1343.2 | 1339.4 |
| 30°   | 1317.4 | 1313.5 | 1294.2 | 1291.6 | 1287.7 |
| 32.5° | 1268.4 | 1261.9 | 1245.2 | 1240.0 | 1232.3 |
| 35°   | 1216.8 | 1211.6 | 1193.5 | 1187.1 | 1176.8 |
| 37.5° | 1163.9 | 1157.4 | 1140.6 | 1131.6 | 1125.2 |
| 40°   | 1109.7 | 1103.2 | 1085.2 | 1073.5 | 1069.7 |
| 42.5° | 1051.6 | 1046.4 | 1028.4 | 1018.1 | 1011.6 |
| 45°   | 996.1  | 991.0  | 975.5  | 960.0  | 956.1  |
| 47.5° | 935.5  | 936.8  | 917.4  | 901.9  | 892.9  |
| 50°   | 877.4  | 873.5  | 858.1  | 841.3  | 832.3  |
| 52.5° | 818.1  | 815.5  | 798.7  | 784.5  | 774.2  |
| 55°   | 758.7  | 754.8  | 736.8  | 725.2  | 716.1  |
| 57.5° | 695.5  | 694.2  | 678.7  | 663.2  | 659.4  |
| 60°   | 636.1  | 631.0  | 616.8  | 603.9  | 594.8  |
| 62.5° | 574.2  | 570.3  | 558.7  | 544.5  | 538.1  |
| 65°   | 512.3  | 509.7  | 495.5  | 483.9  | 478.7  |
| 67.5° | 451.6  | 446.5  | 436.1  | 425.8  | 423.2  |
| 70°   | 394.8  | 388.4  | 376.8  | 369.0  | 363.9  |
| 72.5° | 332.9  | 329.0  | 322.6  | 313.5  | 308.4  |
| 75°   | 272.3  | 269.7  | 263.2  | 259.4  | 254.2  |
| 77.5° | 215.5  | 214.2  | 210.3  | 207.7  | 203.9  |
| 80°   | 162.6  | 162.6  | 160.0  | 158.7  | 156.1  |
| 82.5° | 116.1  | 113.5  | 113.5  | 111.0  | 111.0  |
| 85°   | 71.0   | 72.3   | 72.3   | 71.0   | 68.4   |
| 87.5° | 34.8   | 34.8   | 33.5   | 33.5   | 31.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)