

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: P996799

Luminaire Tested: S125DRP-B1090DB2750-4F0-XX-W2A-F\_2700K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996799  
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\_2700K  
Description: Define 5 Direct Perimeter with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

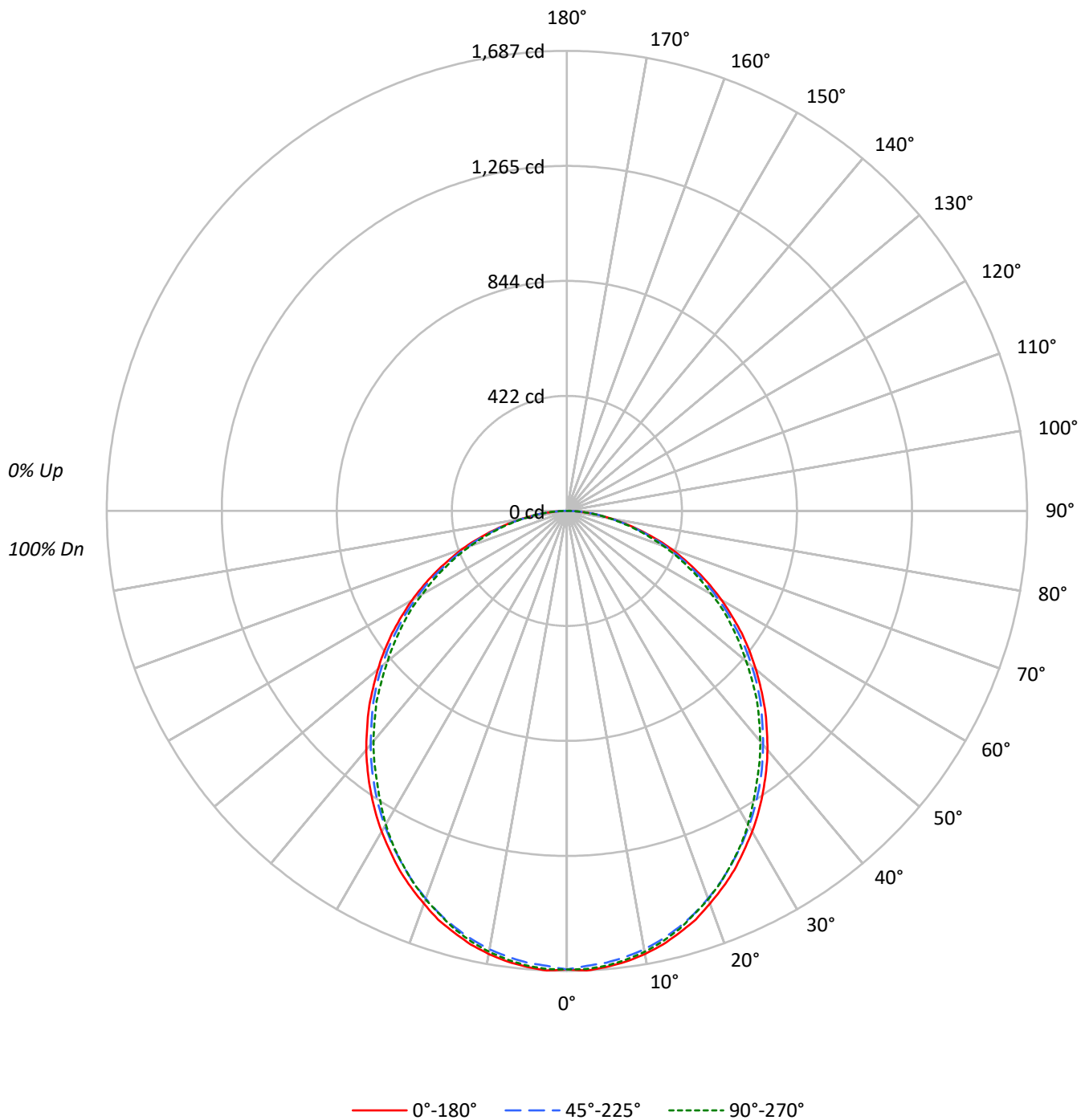
Lumens per Lamp: N/A  
Luminaire Lumens: 4377.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
Input Voltage (V): 120  
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  |     |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |    |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  | 70  |    |    |    |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 59  |    |    |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |    |    |    |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |    |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |    |    |    |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |    |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |    |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10775 | 10775 | 10775 |
| 5°  | 10799 | 10696 | 10765 |
| 10° | 10733 | 10621 | 10681 |
| 15° | 10616 | 10493 | 10537 |
| 20° | 10450 | 10314 | 10332 |
| 25° | 10270 | 10102 | 10092 |
| 30° | 10050 | 9872  | 9823  |
| 35° | 9813  | 9626  | 9491  |
| 40° | 9570  | 9358  | 9225  |
| 45° | 9307  | 9114  | 8933  |
| 50° | 9018  | 8818  | 8553  |
| 55° | 8739  | 8486  | 8248  |
| 60° | 8405  | 8150  | 7859  |
| 65° | 8008  | 7745  | 7483  |
| 70° | 7626  | 7278  | 7029  |
| 75° | 6949  | 6719  | 6488  |
| 80° | 6184  | 6088  | 5940  |
| 85° | 5381  | 5477  | 5183  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9307 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.7  | 3.6       |
| 10°-20°   | 448.2  | 10.2      |
| 20°-30°   | 661.7  | 15.1      |
| 30°-40°   | 772.1  | 17.6      |
| 40°-50°   | 775.4  | 17.7      |
| 50°-60°   | 680.7  | 15.6      |
| 60°-70°   | 507.0  | 11.6      |
| 70°-80°   | 289.6  | 6.6       |
| 80°-90°   | 83.6   | 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°    | 1268.7 | 29.0      |
| 0°-40°    | 2040.7 | 46.6      |
| 0°-60°    | 3496.8 | 79.9      |
| 0°-90°    | 4377.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4377.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1682 | 1682  | 1682 | 1682  | 1682 |      |
| 5°  | 1679 | 1676  | 1663 | 1675  | 1674 | 159  |
| 15° | 1600 | 1596  | 1582 | 1588  | 1588 | 451  |
| 25° | 1453 | 1446  | 1429 | 1432  | 1428 | 668  |
| 35° | 1255 | 1249  | 1231 | 1224  | 1213 | 785  |
| 45° | 1027 | 1022  | 1006 | 990   | 986  | 791  |
| 55° | 782  | 778   | 760  | 748   | 738  | 698  |
| 65° | 528  | 526   | 511  | 499   | 494  | 524  |
| 75° | 281  | 278   | 271  | 267   | 262  | 299  |
| 85° | 73   | 74    | 74   | 73    | 70   | 85   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1681.7 | 1681.7 | 1681.7 | 1681.7 | 1681.7 |
| 2.5°  | 1687.0 | 1683.0 | 1669.7 | 1683.0 | 1681.7 |
| 5°    | 1679.0 | 1676.4 | 1663.1 | 1675.0 | 1673.7 |
| 7.5°  | 1667.0 | 1664.4 | 1649.7 | 1661.7 | 1660.4 |
| 10°   | 1649.7 | 1647.1 | 1632.5 | 1643.1 | 1641.8 |
| 12.5° | 1628.5 | 1623.1 | 1609.8 | 1617.8 | 1617.8 |
| 15°   | 1600.5 | 1596.5 | 1581.9 | 1588.5 | 1588.5 |
| 17.5° | 1571.3 | 1564.6 | 1550.0 | 1557.9 | 1551.3 |
| 20°   | 1532.7 | 1530.0 | 1512.7 | 1522.0 | 1515.4 |
| 22.5° | 1494.1 | 1488.8 | 1472.8 | 1478.1 | 1474.1 |
| 25°   | 1452.8 | 1446.2 | 1428.9 | 1431.6 | 1427.6 |
| 27.5° | 1404.9 | 1401.0 | 1383.7 | 1385.0 | 1381.0 |
| 30°   | 1358.4 | 1354.4 | 1334.4 | 1331.8 | 1327.8 |
| 32.5° | 1307.8 | 1301.2 | 1283.9 | 1278.6 | 1270.6 |
| 35°   | 1254.6 | 1249.3 | 1230.7 | 1224.0 | 1213.4 |
| 37.5° | 1200.1 | 1193.4 | 1176.1 | 1166.8 | 1160.1 |
| 40°   | 1144.2 | 1137.5 | 1118.9 | 1106.9 | 1102.9 |
| 42.5° | 1084.3 | 1079.0 | 1060.4 | 1049.7 | 1043.1 |
| 45°   | 1027.1 | 1021.8 | 1005.8 | 989.8  | 985.9  |
| 47.5° | 964.6  | 965.9  | 945.9  | 930.0  | 920.7  |
| 50°   | 904.7  | 900.7  | 884.7  | 867.4  | 858.1  |
| 52.5° | 843.5  | 840.8  | 823.5  | 808.9  | 798.3  |
| 55°   | 782.3  | 778.3  | 759.7  | 747.7  | 738.4  |
| 57.5° | 717.1  | 715.8  | 699.8  | 683.8  | 679.9  |
| 60°   | 655.9  | 650.6  | 636.0  | 622.6  | 613.3  |
| 62.5° | 592.0  | 588.1  | 576.1  | 561.4  | 554.8  |
| 65°   | 528.2  | 525.5  | 510.9  | 498.9  | 493.6  |
| 67.5° | 465.7  | 460.3  | 449.7  | 439.0  | 436.4  |
| 70°   | 407.1  | 400.5  | 388.5  | 380.5  | 375.2  |
| 72.5° | 343.3  | 339.3  | 332.6  | 323.3  | 318.0  |
| 75°   | 280.7  | 278.1  | 271.4  | 267.4  | 262.1  |
| 77.5° | 222.2  | 220.9  | 216.9  | 214.2  | 210.2  |
| 80°   | 167.6  | 167.6  | 165.0  | 163.6  | 161.0  |
| 82.5° | 119.7  | 117.1  | 117.1  | 114.4  | 114.4  |
| 85°   | 73.2   | 74.5   | 74.5   | 73.2   | 70.5   |
| 87.5° | 35.9   | 35.9   | 34.6   | 34.6   | 31.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)