

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: P997055

Luminaire Tested: S125RDRP-B1090DB50-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-B1090DB50-4F0-XX-W2A-F  
Description: Define 5 Regressed Direct Perimeter with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

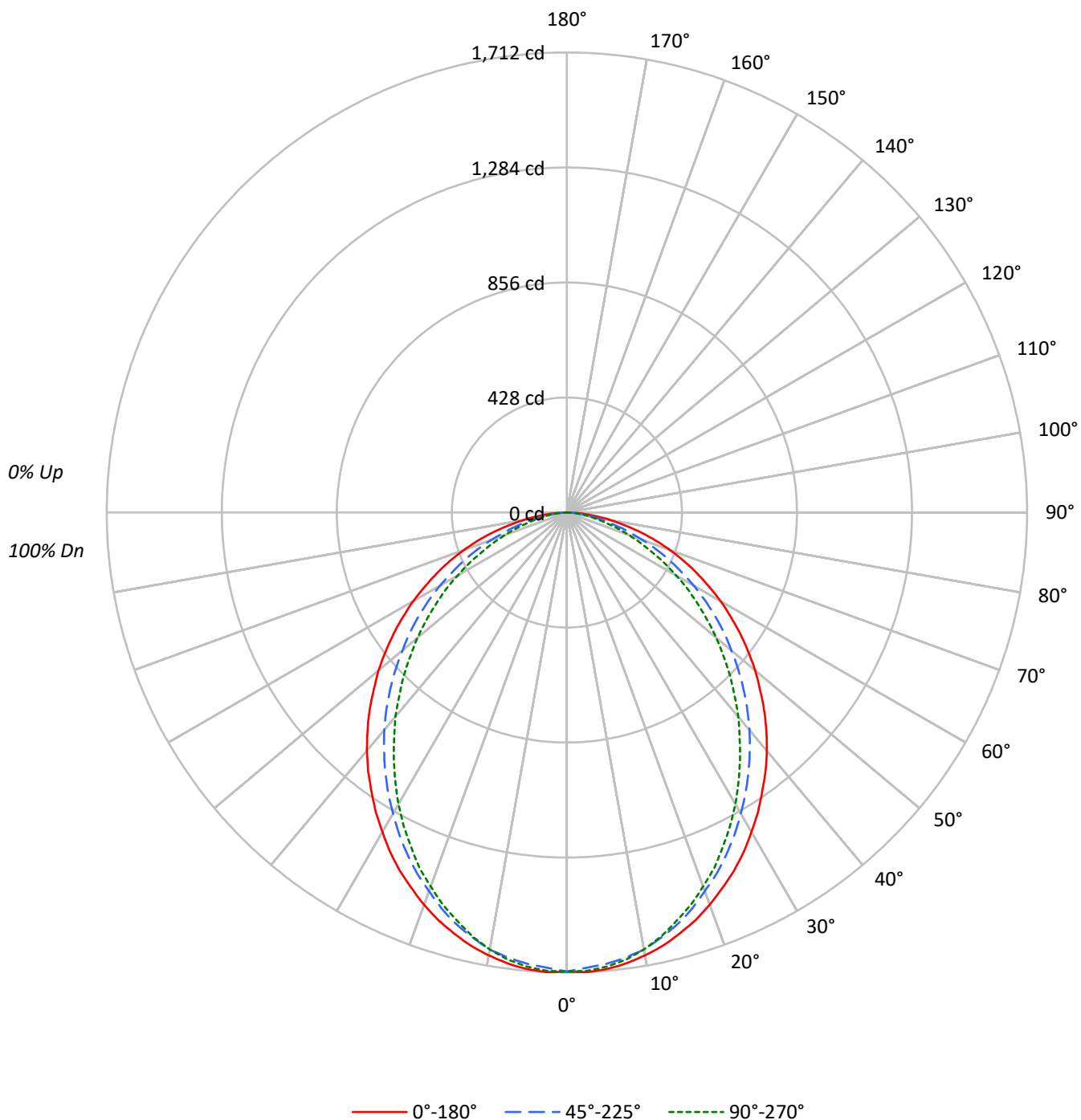
Lumens per Lamp: N/A  
Luminaire Lumens: 4036.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
Input Voltage (V):  
Input Current (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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 84  | 79  | 87  | 82  | 78  |  | 84  | 79  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 57  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 64  |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 58  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  |  | 55  | 48  | 43  |  | 53  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  |  | 50  | 43  | 39  |  | 49  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 41  | 35  | 47  | 40  | 35  |  | 46  | 39  | 35  |  | 45  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  |  | 39  | 33  | 29  |  | 39  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10945 | 10945 | 10945 |
| 5°  | 10970 | 10846 | 10912 |
| 10° | 10887 | 10745 | 10745 |
| 15° | 10758 | 10527 | 10441 |
| 20° | 10592 | 10222 | 10099 |
| 25° | 10398 | 9924  | 9705  |
| 30° | 10156 | 9574  | 9269  |
| 35° | 9910  | 9214  | 8780  |
| 40° | 9680  | 8838  | 8299  |
| 45° | 9399  | 8418  | 7774  |
| 50° | 9118  | 7960  | 7228  |
| 55° | 8791  | 7523  | 6644  |
| 60° | 8465  | 6994  | 6018  |
| 65° | 8079  | 6376  | 5302  |
| 70° | 7637  | 5607  | 4569  |
| 75° | 7025  | 4728  | 3800  |
| 80° | 6188  | 3712  | 3188  |
| 85° | 5219  | 3036  | 2845  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9399 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.8  | 4.0       |
| 10°-20°   | 449.3  | 11.1      |
| 20°-30°   | 651.5  | 16.1      |
| 30°-40°   | 742.2  | 18.4      |
| 40°-50°   | 723.5  | 17.9      |
| 50°-60°   | 608.8  | 15.1      |
| 60°-70°   | 426.7  | 10.6      |
| 70°-80°   | 218.7  | 5.4       |
| 80°-90°   | 54.6   | 1.4       |
| 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°    | 1261.6 | 31.3      |
| 0°-40°    | 2003.8 | 49.6      |
| 0°-60°    | 3336.1 | 82.7      |
| 0°-90°    | 4036.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4036.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1708 | 1708  | 1708 | 1708  | 1708 |      |
| 5°  | 1706 | 1700  | 1686 | 1699  | 1697 | 162  |
| 15° | 1622 | 1614  | 1587 | 1586  | 1574 | 457  |
| 25° | 1471 | 1452  | 1404 | 1387  | 1373 | 677  |
| 35° | 1267 | 1236  | 1178 | 1141  | 1122 | 793  |
| 45° | 1037 | 1000  | 929  | 877   | 858  | 800  |
| 55° | 787  | 746   | 674  | 615   | 595  | 704  |
| 65° | 533  | 489   | 421  | 369   | 350  | 528  |
| 75° | 284  | 245   | 191  | 163   | 154  | 300  |
| 85° | 71   | 48    | 41   | 40    | 39   | 82   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1708.3 | 1708.3 | 1708.3 | 1708.3 | 1708.3 |
| 2.5°  | 1712.1 | 1708.3 | 1695.4 | 1708.3 | 1707.0 |
| 5°    | 1705.7 | 1700.5 | 1686.3 | 1699.2 | 1696.6 |
| 7.5°  | 1692.8 | 1687.6 | 1670.8 | 1681.2 | 1678.6 |
| 10°   | 1673.4 | 1669.5 | 1651.5 | 1655.4 | 1651.5 |
| 12.5° | 1651.5 | 1646.3 | 1620.5 | 1623.1 | 1616.6 |
| 15°   | 1621.8 | 1614.1 | 1587.0 | 1585.7 | 1574.1 |
| 17.5° | 1590.8 | 1579.2 | 1547.0 | 1540.5 | 1531.5 |
| 20°   | 1553.4 | 1540.5 | 1499.2 | 1492.8 | 1481.2 |
| 22.5° | 1512.1 | 1499.2 | 1455.4 | 1441.2 | 1432.1 |
| 25°   | 1470.9 | 1451.5 | 1403.8 | 1387.0 | 1372.8 |
| 27.5° | 1424.4 | 1401.2 | 1350.9 | 1328.9 | 1314.7 |
| 30°   | 1372.8 | 1348.3 | 1294.1 | 1264.4 | 1252.8 |
| 32.5° | 1322.5 | 1292.8 | 1237.3 | 1203.8 | 1188.3 |
| 35°   | 1267.0 | 1236.0 | 1178.0 | 1140.6 | 1122.5 |
| 37.5° | 1214.1 | 1176.7 | 1117.3 | 1073.5 | 1055.4 |
| 40°   | 1157.3 | 1118.6 | 1056.7 | 1007.7 | 992.2  |
| 42.5° | 1098.0 | 1058.0 | 993.5  | 947.0  | 922.5  |
| 45°   | 1037.3 | 999.9  | 929.0  | 877.4  | 858.0  |
| 47.5° | 974.1  | 935.4  | 864.4  | 811.6  | 789.6  |
| 50°   | 914.8  | 872.2  | 798.6  | 744.5  | 725.1  |
| 52.5° | 850.3  | 806.4  | 738.0  | 678.7  | 659.3  |
| 55°   | 787.0  | 745.7  | 673.5  | 615.4  | 594.8  |
| 57.5° | 722.5  | 678.7  | 609.0  | 552.2  | 534.2  |
| 60°   | 660.6  | 615.4  | 545.8  | 489.0  | 469.6  |
| 62.5° | 594.8  | 552.2  | 481.3  | 429.6  | 410.3  |
| 65°   | 532.9  | 489.0  | 420.6  | 369.0  | 349.7  |
| 67.5° | 470.9  | 427.1  | 361.3  | 312.2  | 296.8  |
| 70°   | 407.7  | 363.8  | 299.3  | 259.3  | 243.9  |
| 72.5° | 345.8  | 303.2  | 243.9  | 207.7  | 198.7  |
| 75°   | 283.8  | 245.1  | 191.0  | 162.6  | 153.5  |
| 77.5° | 220.6  | 189.7  | 144.5  | 122.6  | 114.8  |
| 80°   | 167.7  | 136.8  | 100.6  | 89.0   | 86.4   |
| 82.5° | 116.1  | 89.0   | 67.1   | 63.2   | 61.9   |
| 85°   | 71.0   | 47.7   | 41.3   | 40.0   | 38.7   |
| 87.5° | 29.7   | 20.6   | 19.4   | 19.4   | 18.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)