

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: P997025

Luminaire Tested: S125R3DRP-B850DB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997025  
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: S125R3DRP-B850DB2750-4F0-XX-W2A-F\_3500K  
Description: Define 5 3in Regressed Direct Perimeter with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.79:  
Light Source: -  
Ballast/Driver: -

**Summary**

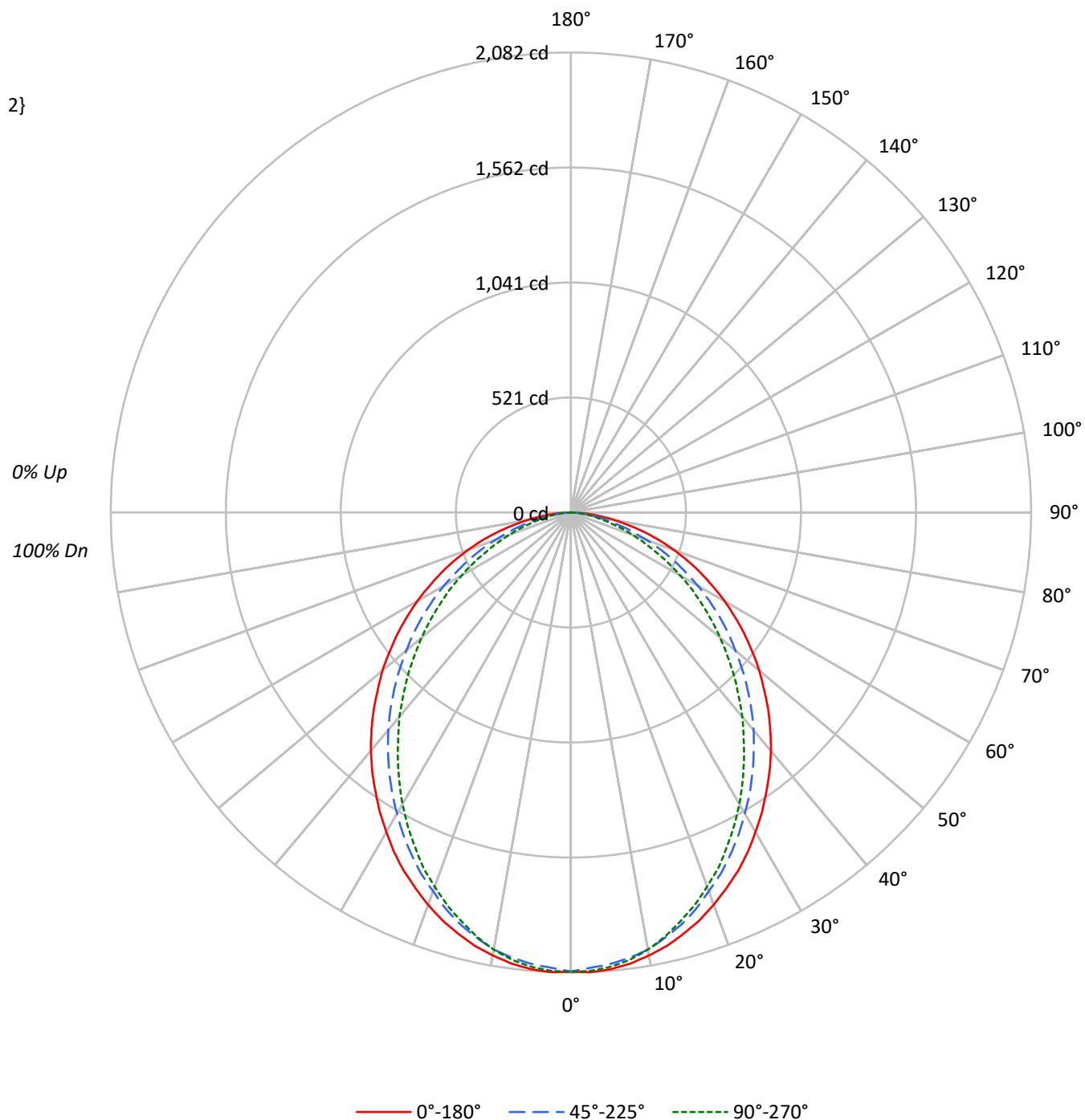
Lumens per Lamp: N/A  
Luminaire Lumens: 4909.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.3  
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



TEST NUMBER: P997025

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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°  | 13313 | 13313 | 13313 |
| 5°  | 13343 | 13192 | 13272 |
| 10° | 13242 | 13068 | 13068 |
| 15° | 13084 | 12803 | 12699 |
| 20° | 12882 | 12433 | 12284 |
| 25° | 12647 | 12070 | 11804 |
| 30° | 12353 | 11645 | 11273 |
| 35° | 12054 | 11207 | 10679 |
| 40° | 11774 | 10750 | 10094 |
| 45° | 11432 | 10238 | 9456  |
| 50° | 11090 | 9683  | 8790  |
| 55° | 10693 | 9151  | 8081  |
| 60° | 10296 | 8506  | 7319  |
| 65° | 9826  | 7756  | 6448  |
| 70° | 9290  | 6821  | 5556  |
| 75° | 8545  | 5751  | 4622  |
| 80° | 7527  | 4516  | 3878  |
| 85° | 6344  | 3690  | 3462  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11432 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.6  | 4.0       |
| 10°-20°   | 546.5  | 11.1      |
| 20°-30°   | 792.4  | 16.1      |
| 30°-40°   | 902.8  | 18.4      |
| 40°-50°   | 879.9  | 17.9      |
| 50°-60°   | 740.5  | 15.1      |
| 60°-70°   | 518.9  | 10.6      |
| 70°-80°   | 266.0  | 5.4       |
| 80°-90°   | 66.3   | 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°    | 1534.4 | 31.3      |
| 0°-40°    | 2437.2 | 49.6      |
| 0°-60°    | 4057.7 | 82.7      |
| 0°-90°    | 4909.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4909.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2078 | 2078  | 2078 | 2078  | 2078 |      |
| 5°  | 2075 | 2068  | 2051 | 2067  | 2064 | 197  |
| 15° | 1973 | 1963  | 1930 | 1929  | 1914 | 556  |
| 25° | 1789 | 1766  | 1707 | 1687  | 1670 | 823  |
| 35° | 1541 | 1503  | 1433 | 1387  | 1365 | 965  |
| 45° | 1262 | 1216  | 1130 | 1067  | 1044 | 973  |
| 55° | 957  | 907   | 819  | 749   | 723  | 856  |
| 65° | 648  | 595   | 512  | 449   | 425  | 642  |
| 75° | 345  | 298   | 232  | 198   | 187  | 365  |
| 85° | 86   | 58    | 50   | 49    | 47   | 99   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2077.8 | 2077.8 | 2077.8 | 2077.8 | 2077.8 |
| 2.5°  | 2082.5 | 2077.8 | 2062.1 | 2077.8 | 2076.2 |
| 5°    | 2074.6 | 2068.3 | 2051.1 | 2066.8 | 2063.6 |
| 7.5°  | 2058.9 | 2052.6 | 2032.2 | 2044.8 | 2041.7 |
| 10°   | 2035.4 | 2030.7 | 2008.7 | 2013.4 | 2008.7 |
| 12.5° | 2008.7 | 2002.4 | 1971.0 | 1974.2 | 1966.3 |
| 15°   | 1972.6 | 1963.2 | 1930.2 | 1928.7 | 1914.5 |
| 17.5° | 1935.0 | 1920.8 | 1881.6 | 1873.7 | 1862.8 |
| 20°   | 1889.4 | 1873.7 | 1823.5 | 1815.7 | 1801.6 |
| 22.5° | 1839.2 | 1823.5 | 1770.2 | 1752.9 | 1741.9 |
| 25°   | 1789.0 | 1765.5 | 1707.4 | 1687.0 | 1669.7 |
| 27.5° | 1732.5 | 1704.3 | 1643.1 | 1616.4 | 1599.1 |
| 30°   | 1669.7 | 1639.9 | 1574.0 | 1537.9 | 1523.8 |
| 32.5° | 1608.5 | 1572.4 | 1505.0 | 1464.2 | 1445.3 |
| 35°   | 1541.1 | 1503.4 | 1432.8 | 1387.3 | 1365.3 |
| 37.5° | 1476.7 | 1431.2 | 1359.0 | 1305.7 | 1283.7 |
| 40°   | 1407.7 | 1360.6 | 1285.3 | 1225.6 | 1206.8 |
| 42.5° | 1335.5 | 1286.8 | 1208.4 | 1151.9 | 1122.1 |
| 45°   | 1261.7 | 1216.2 | 1129.9 | 1067.1 | 1043.6 |
| 47.5° | 1184.8 | 1137.7 | 1051.4 | 987.1  | 960.4  |
| 50°   | 1112.6 | 1060.8 | 971.4  | 905.5  | 881.9  |
| 52.5° | 1034.2 | 980.8  | 897.6  | 825.5  | 801.9  |
| 55°   | 957.3  | 907.1  | 819.2  | 748.6  | 723.4  |
| 57.5° | 878.8  | 825.5  | 740.7  | 671.7  | 649.7  |
| 60°   | 803.5  | 748.6  | 663.8  | 594.8  | 571.2  |
| 62.5° | 723.4  | 671.7  | 585.3  | 522.6  | 499.0  |
| 65°   | 648.1  | 594.8  | 511.6  | 448.8  | 425.3  |
| 67.5° | 572.8  | 519.4  | 439.4  | 379.8  | 360.9  |
| 70°   | 495.9  | 442.5  | 364.1  | 315.4  | 296.6  |
| 72.5° | 420.6  | 368.8  | 296.6  | 252.7  | 241.7  |
| 75°   | 345.2  | 298.2  | 232.3  | 197.7  | 186.7  |
| 77.5° | 268.4  | 230.7  | 175.8  | 149.1  | 139.7  |
| 80°   | 204.0  | 166.3  | 122.4  | 108.3  | 105.1  |
| 82.5° | 141.2  | 108.3  | 81.6   | 76.9   | 75.3   |
| 85°   | 86.3   | 58.1   | 50.2   | 48.6   | 47.1   |
| 87.5° | 36.1   | 25.1   | 23.5   | 23.5   | 22.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)