

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: P996832

Luminaire Tested: S125DRP-B1270DB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996832  
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-B1270DB2750-4F0-XX-W2A-F\_4000K  
Description: Define 5 Direct Perimeter with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

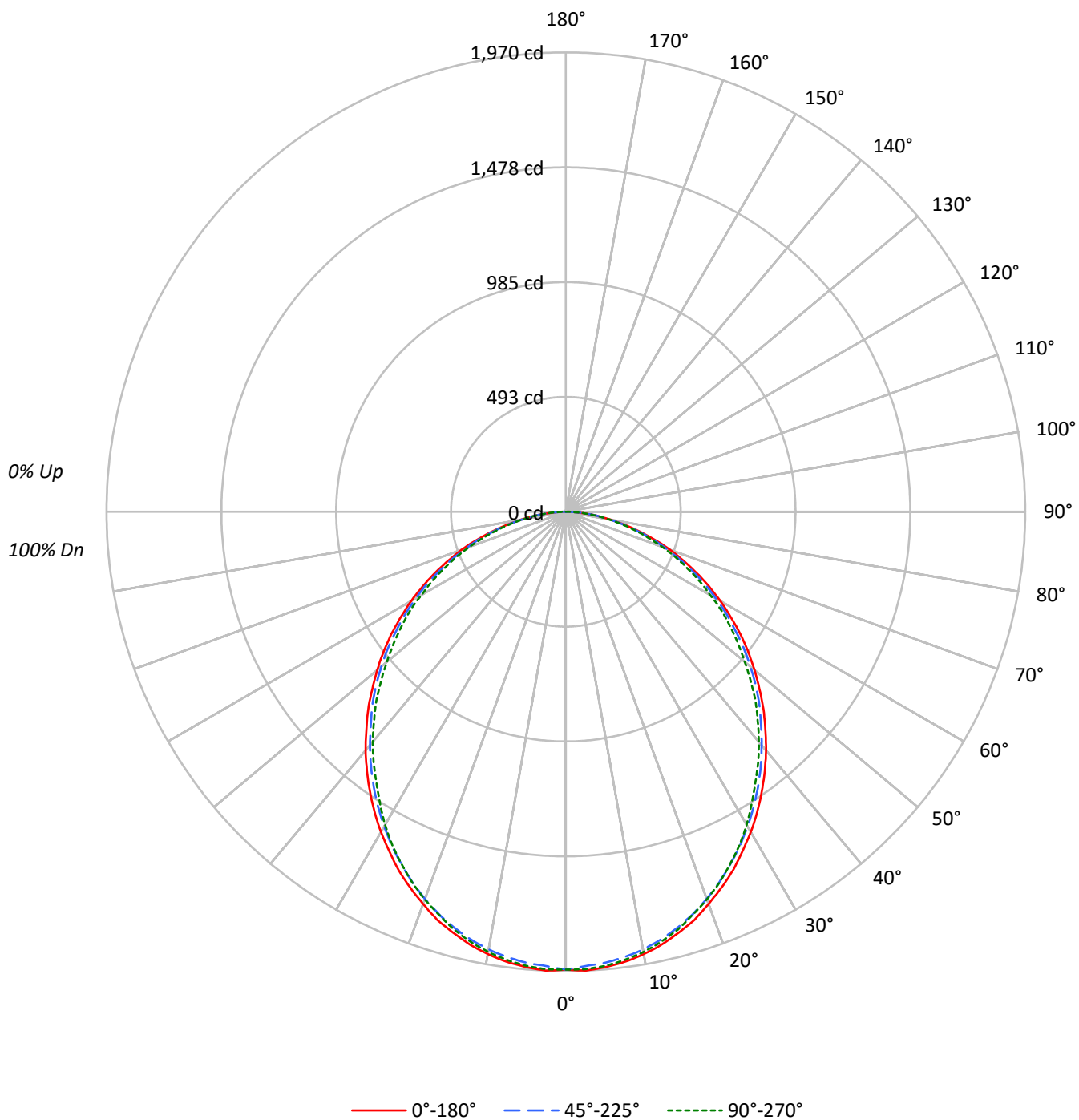
Lumens per Lamp: N/A  
Luminaire Lumens: 5111.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.3  
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°  | 12582 | 12582 | 12582 |
| 5°  | 12610 | 12489 | 12570 |
| 10° | 12533 | 12402 | 12473 |
| 15° | 12397 | 12253 | 12304 |
| 20° | 12203 | 12044 | 12065 |
| 25° | 11993 | 11795 | 11785 |
| 30° | 11735 | 11528 | 11470 |
| 35° | 11459 | 11240 | 11082 |
| 40° | 11175 | 10927 | 10772 |
| 45° | 10867 | 10642 | 10431 |
| 50° | 10530 | 10298 | 9988  |
| 55° | 10204 | 9909  | 9631  |
| 60° | 9814  | 9516  | 9178  |
| 65° | 9351  | 9045  | 8738  |
| 70° | 8906  | 8497  | 8207  |
| 75° | 8115  | 7845  | 7575  |
| 80° | 7221  | 7106  | 6937  |
| 85° | 6278  | 6396  | 6050  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10867 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.3  | 3.6       |
| 10°-20°   | 523.4  | 10.2      |
| 20°-30°   | 772.7  | 15.1      |
| 30°-40°   | 901.5  | 17.6      |
| 40°-50°   | 905.5  | 17.7      |
| 50°-60°   | 794.8  | 15.6      |
| 60°-70°   | 592.0  | 11.6      |
| 70°-80°   | 338.1  | 6.6       |
| 80°-90°   | 97.6   | 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°    | 1481.4 | 29.0      |
| 0°-40°    | 2383.0 | 46.6      |
| 0°-60°    | 4083.2 | 79.9      |
| 0°-90°    | 5111.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5111.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1964 | 1964  | 1964 | 1964  | 1964 |      |
| 5°  | 1961 | 1958  | 1942 | 1956  | 1954 | 186  |
| 15° | 1869 | 1864  | 1847 | 1855  | 1855 | 527  |
| 25° | 1696 | 1689  | 1668 | 1672  | 1667 | 781  |
| 35° | 1465 | 1459  | 1437 | 1429  | 1417 | 916  |
| 45° | 1199 | 1193  | 1174 | 1156  | 1151 | 924  |
| 55° | 914  | 909   | 887  | 873   | 862  | 815  |
| 65° | 617  | 614   | 597  | 583   | 576  | 612  |
| 75° | 328  | 325   | 317  | 312   | 306  | 349  |
| 85° | 85   | 87    | 87   | 85    | 82   | 99   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 |
| 2.5°  | 1969.9 | 1965.2 | 1949.7 | 1965.2 | 1963.7 |
| 5°    | 1960.6 | 1957.5 | 1941.9 | 1955.9 | 1954.4 |
| 7.5°  | 1946.6 | 1943.5 | 1926.4 | 1940.4 | 1938.8 |
| 10°   | 1926.4 | 1923.3 | 1906.2 | 1918.6 | 1917.1 |
| 12.5° | 1901.5 | 1895.3 | 1879.8 | 1889.1 | 1889.1 |
| 15°   | 1868.9 | 1864.3 | 1847.2 | 1854.9 | 1854.9 |
| 17.5° | 1834.7 | 1827.0 | 1809.9 | 1819.2 | 1811.4 |
| 20°   | 1789.7 | 1786.6 | 1766.4 | 1777.3 | 1769.5 |
| 22.5° | 1744.6 | 1738.4 | 1719.8 | 1726.0 | 1721.3 |
| 25°   | 1696.5 | 1688.7 | 1668.5 | 1671.6 | 1667.0 |
| 27.5° | 1640.6 | 1635.9 | 1615.7 | 1617.2 | 1612.6 |
| 30°   | 1586.2 | 1581.5 | 1558.2 | 1555.1 | 1550.4 |
| 32.5° | 1527.1 | 1519.4 | 1499.2 | 1493.0 | 1483.6 |
| 35°   | 1465.0 | 1458.8 | 1437.0 | 1429.3 | 1416.8 |
| 37.5° | 1401.3 | 1393.5 | 1373.3 | 1362.5 | 1354.7 |
| 40°   | 1336.1 | 1328.3 | 1306.5 | 1292.6 | 1287.9 |
| 42.5° | 1266.1 | 1259.9 | 1238.2 | 1225.8 | 1218.0 |
| 45°   | 1199.3 | 1193.1 | 1174.5 | 1155.8 | 1151.2 |
| 47.5° | 1126.3 | 1127.9 | 1104.6 | 1085.9 | 1075.1 |
| 50°   | 1056.4 | 1051.8 | 1033.1 | 1012.9 | 1002.0 |
| 52.5° | 985.0  | 981.8  | 961.6  | 944.6  | 932.1  |
| 55°   | 913.5  | 908.8  | 887.1  | 873.1  | 862.2  |
| 57.5° | 837.4  | 835.8  | 817.2  | 798.5  | 793.9  |
| 60°   | 765.9  | 759.7  | 742.6  | 727.1  | 716.2  |
| 62.5° | 691.3  | 686.7  | 672.7  | 655.6  | 647.8  |
| 65°   | 616.8  | 613.7  | 596.6  | 582.6  | 576.4  |
| 67.5° | 543.7  | 537.5  | 525.1  | 512.7  | 509.6  |
| 70°   | 475.4  | 467.6  | 453.6  | 444.3  | 438.1  |
| 72.5° | 400.8  | 396.2  | 388.4  | 377.5  | 371.3  |
| 75°   | 327.8  | 324.7  | 316.9  | 312.3  | 306.0  |
| 77.5° | 259.4  | 257.9  | 253.2  | 250.1  | 245.5  |
| 80°   | 195.7  | 195.7  | 192.6  | 191.1  | 188.0  |
| 82.5° | 139.8  | 136.7  | 136.7  | 133.6  | 133.6  |
| 85°   | 85.4   | 87.0   | 87.0   | 85.4   | 82.3   |
| 87.5° | 41.9   | 41.9   | 40.4   | 40.4   | 37.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)