

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: P996949

Luminaire Tested: S125R3DRP-B1090DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996949  
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-B1090DB30-4F0-XX-W2A-F  
Description: Define 5 3in Regressed Direct Perimeter with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.64}  
Light Source: -  
Ballast/Driver: -

**Summary**

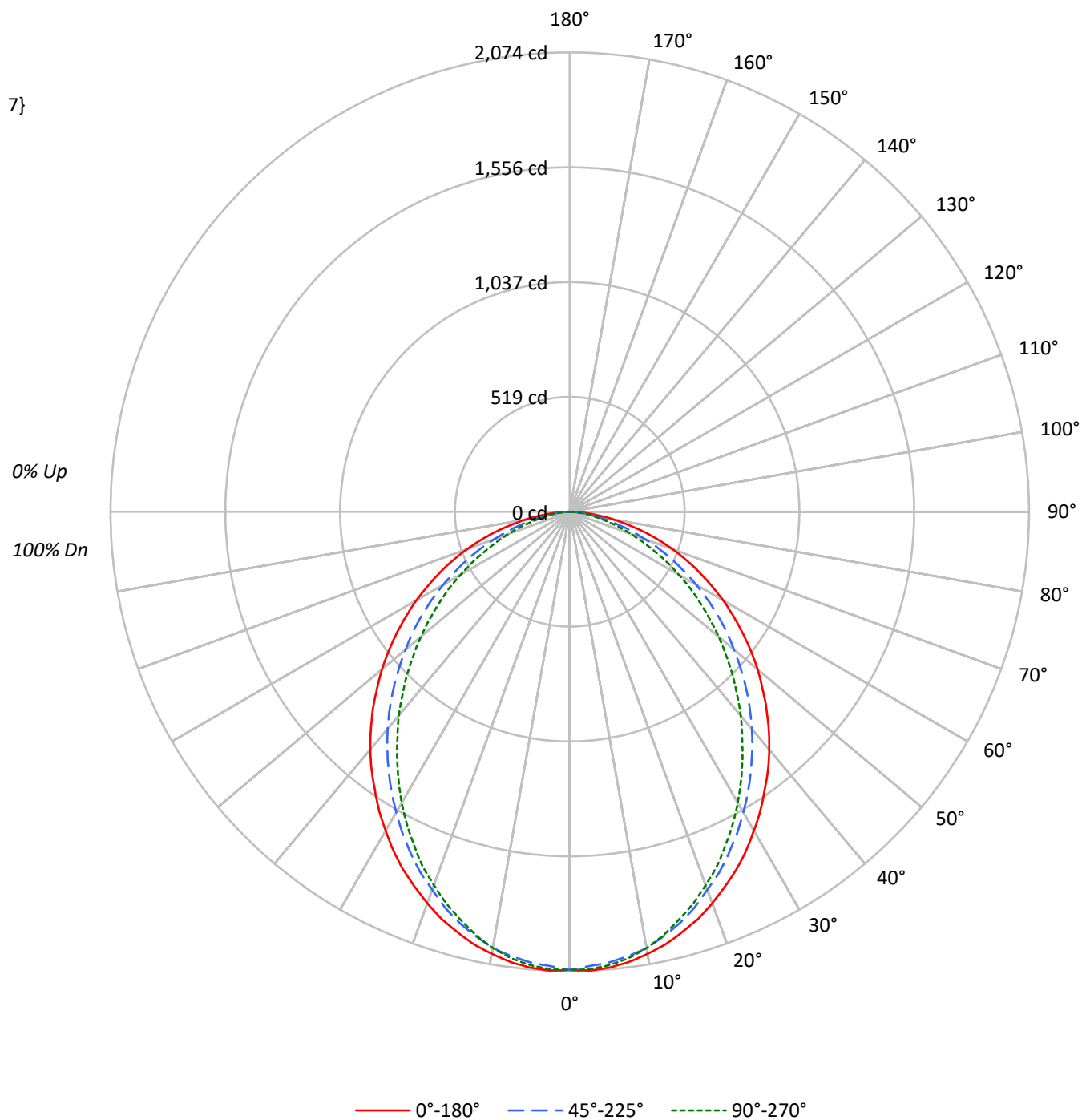
Lumens per Lamp: N/A  
Luminaire Lumens: 4888.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

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



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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°  | 13256 | 13256 | 13256 |
| 5°  | 13286 | 13135 | 13216 |
| 10° | 13186 | 13013 | 13013 |
| 15° | 13029 | 12749 | 12645 |
| 20° | 12828 | 12380 | 12231 |
| 25° | 12594 | 12019 | 11754 |
| 30° | 12300 | 11595 | 11225 |
| 35° | 12002 | 11158 | 10633 |
| 40° | 11723 | 10704 | 10050 |
| 45° | 11383 | 10195 | 9415  |
| 50° | 11043 | 9641  | 8754  |
| 55° | 10648 | 9112  | 8047  |
| 60° | 10251 | 8470  | 7289  |
| 65° | 9783  | 7723  | 6420  |
| 70° | 9250  | 6791  | 5532  |
| 75° | 8511  | 5726  | 4602  |
| 80° | 7494  | 4498  | 3863  |
| 85° | 6315  | 3676  | 3448  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11383 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 194.7  | 4.0       |
| 10°-20°   | 544.2  | 11.1      |
| 20°-30°   | 789.0  | 16.1      |
| 30°-40°   | 898.9  | 18.4      |
| 40°-50°   | 876.2  | 17.9      |
| 50°-60°   | 737.4  | 15.1      |
| 60°-70°   | 516.7  | 10.6      |
| 70°-80°   | 264.9  | 5.4       |
| 80°-90°   | 66.1   | 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°    | 1527.9 | 31.3      |
| 0°-40°    | 2426.8 | 49.6      |
| 0°-60°    | 4040.3 | 82.7      |
| 0°-90°    | 4888.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4888.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2069 | 2069  | 2069 | 2069  | 2069 |      |
| 5°  | 2066 | 2060  | 2042 | 2058  | 2055 | 196  |
| 15° | 1964 | 1955  | 1922 | 1920  | 1906 | 554  |
| 25° | 1781 | 1758  | 1700 | 1680  | 1663 | 820  |
| 35° | 1534 | 1497  | 1427 | 1381  | 1360 | 961  |
| 45° | 1256 | 1211  | 1125 | 1063  | 1039 | 969  |
| 55° | 953  | 903   | 816  | 745   | 720  | 852  |
| 65° | 645  | 592   | 509  | 447   | 424  | 639  |
| 75° | 344  | 297   | 231  | 197   | 186  | 363  |
| 85° | 86   | 58    | 50   | 48    | 47   | 99   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2068.9 | 2068.9 | 2068.9 | 2068.9 | 2068.9 |
| 2.5°  | 2073.6 | 2068.9 | 2053.2 | 2068.9 | 2067.3 |
| 5°    | 2065.7 | 2059.5 | 2042.3 | 2057.9 | 2054.8 |
| 7.5°  | 2050.1 | 2043.9 | 2023.6 | 2036.1 | 2032.9 |
| 10°   | 2026.7 | 2022.0 | 2000.1 | 2004.8 | 2000.1 |
| 12.5° | 2000.1 | 1993.9 | 1962.6 | 1965.7 | 1957.9 |
| 15°   | 1964.2 | 1954.8 | 1922.0 | 1920.4 | 1906.4 |
| 17.5° | 1926.7 | 1912.6 | 1873.5 | 1865.7 | 1854.8 |
| 20°   | 1881.4 | 1865.7 | 1815.7 | 1807.9 | 1793.9 |
| 22.5° | 1831.4 | 1815.7 | 1762.6 | 1745.4 | 1734.5 |
| 25°   | 1781.4 | 1757.9 | 1700.1 | 1679.8 | 1662.6 |
| 27.5° | 1725.1 | 1697.0 | 1636.0 | 1609.5 | 1592.3 |
| 30°   | 1662.6 | 1632.9 | 1567.3 | 1531.3 | 1517.3 |
| 32.5° | 1601.7 | 1565.7 | 1498.5 | 1457.9 | 1439.1 |
| 35°   | 1534.5 | 1497.0 | 1426.6 | 1381.3 | 1359.5 |
| 37.5° | 1470.4 | 1425.1 | 1353.2 | 1300.1 | 1278.2 |
| 40°   | 1401.6 | 1354.8 | 1279.8 | 1220.4 | 1201.6 |
| 42.5° | 1329.8 | 1281.3 | 1203.2 | 1146.9 | 1117.3 |
| 45°   | 1256.3 | 1211.0 | 1125.1 | 1062.6 | 1039.1 |
| 47.5° | 1179.8 | 1132.9 | 1046.9 | 982.9  | 956.3  |
| 50°   | 1107.9 | 1056.3 | 967.2  | 901.6  | 878.2  |
| 52.5° | 1029.7 | 976.6  | 893.8  | 821.9  | 798.5  |
| 55°   | 953.2  | 903.2  | 815.7  | 745.4  | 720.4  |
| 57.5° | 875.1  | 821.9  | 737.5  | 668.8  | 646.9  |
| 60°   | 800.0  | 745.4  | 661.0  | 592.2  | 568.8  |
| 62.5° | 720.4  | 668.8  | 582.8  | 520.3  | 496.9  |
| 65°   | 645.3  | 592.2  | 509.4  | 446.9  | 423.5  |
| 67.5° | 570.3  | 517.2  | 437.5  | 378.1  | 359.4  |
| 70°   | 493.8  | 440.7  | 362.5  | 314.1  | 295.3  |
| 72.5° | 418.8  | 367.2  | 295.3  | 251.6  | 240.6  |
| 75°   | 343.8  | 296.9  | 231.3  | 196.9  | 185.9  |
| 77.5° | 267.2  | 229.7  | 175.0  | 148.4  | 139.1  |
| 80°   | 203.1  | 165.6  | 121.9  | 107.8  | 104.7  |
| 82.5° | 140.6  | 107.8  | 81.3   | 76.6   | 75.0   |
| 85°   | 85.9   | 57.8   | 50.0   | 48.4   | 46.9   |
| 87.5° | 35.9   | 25.0   | 23.4   | 23.4   | 21.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)