

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: P996619

Luminaire Tested: S124R3DRP-B1195DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124R3DRP-B1195DB30-4F0-XX-W2A-F  
Description: Define 4 3in Regressed Direct Perimeter with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.64}  
Light Source: -  
Ballast/Driver: -

**Summary**

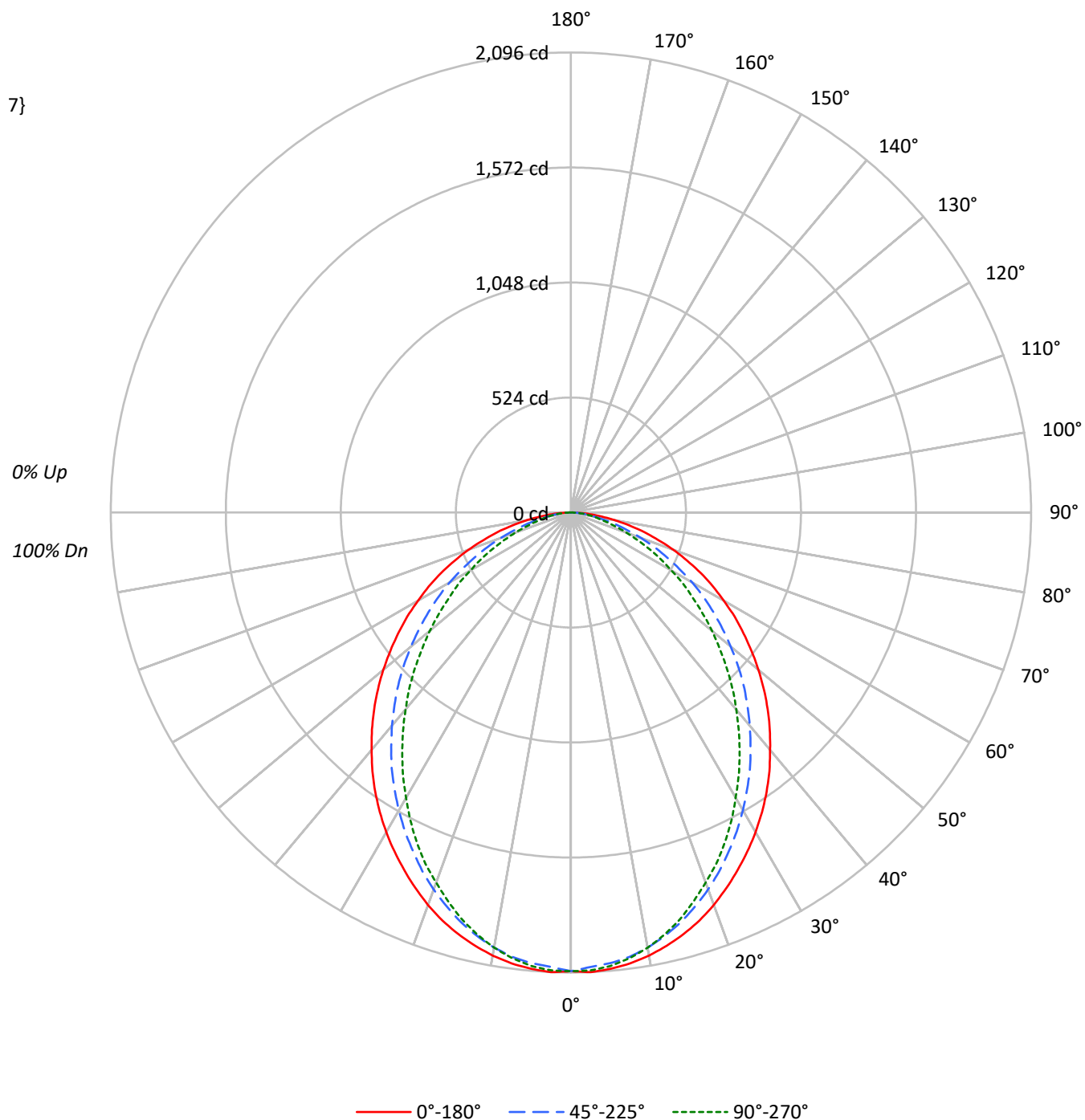
Lumens per Lamp: N/A  
Luminaire Lumens: 4829.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 74  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 69  | 65  |  | 72  | 68  | 64  | 62  |
| 4   | 84  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 56  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 56  | 50  | 62  | 55  | 50  |  | 61  | 54  | 49  |  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  |  | 55  | 49  | 44  |  | 53  | 48  | 43  | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 52  | 45  | 39  |  | 50  | 44  | 39  |  | 49  | 43  | 39  | 37  |
| 8   | 63  | 50  | 41  | 36  | 61  | 49  | 41  | 36  | 48  | 40  | 35  |  | 46  | 40  | 35  |  | 45  | 39  | 35  | 33  |
| 9   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  | 36  | 32  | 30  |
| 10  | 55  | 42  | 35  | 29  | 54  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 29  |  | 39  | 33  | 29  | 27  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17042 | 17042 | 17042 |
| 5°  | 17081 | 16871 | 16976 |
| 10° | 16974 | 16669 | 16669 |
| 15° | 16779 | 16320 | 16198 |
| 20° | 16511 | 15859 | 15567 |
| 25° | 16169 | 15320 | 14931 |
| 30° | 15837 | 14751 | 14133 |
| 35° | 15468 | 14162 | 13333 |
| 40° | 15024 | 13491 | 12469 |
| 45° | 14616 | 12826 | 11590 |
| 50° | 14150 | 12058 | 10658 |
| 55° | 13651 | 11261 | 9646  |
| 60° | 13101 | 10387 | 8613  |
| 65° | 12598 | 9294  | 7596  |
| 70° | 11866 | 8090  | 6447  |
| 75° | 10942 | 6705  | 5243  |
| 80° | 9542  | 5109  | 4809  |
| 85° | 8084  | 4641  | 4341  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14616 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.5  | 4.1       |
| 10°-20°   | 547.9  | 11.3      |
| 20°-30°   | 791.1  | 16.4      |
| 30°-40°   | 896.6  | 18.6      |
| 40°-50°   | 865.7  | 17.9      |
| 50°-60°   | 719.7  | 14.9      |
| 60°-70°   | 496.8  | 10.3      |
| 70°-80°   | 251.0  | 5.2       |
| 80°-90°   | 63.7   | 1.3       |
| 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°    | 1535.6 | 31.8      |
| 0°-40°    | 2432.1 | 50.4      |
| 0°-60°    | 4017.5 | 83.2      |
| 0°-90°    | 4829.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4829.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2090 | 2090  | 2090 | 2090  | 2090 |      |
| 5°  | 2087 | 2080  | 2061 | 2077  | 2074 | 198  |
| 15° | 1988 | 1973  | 1933 | 1930  | 1919 | 560  |
| 25° | 1797 | 1768  | 1703 | 1676  | 1660 | 828  |
| 35° | 1554 | 1503  | 1423 | 1368  | 1339 | 971  |
| 45° | 1267 | 1208  | 1112 | 1034  | 1005 | 977  |
| 55° | 960  | 896   | 792  | 709   | 678  | 859  |
| 65° | 653  | 584   | 482  | 413   | 394  | 645  |
| 75° | 347  | 288   | 213  | 176   | 166  | 366  |
| 85° | 86   | 54    | 50   | 46    | 46   | 100  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2089.9 | 2089.9 | 2089.9 | 2089.9 | 2089.9 |
| 2.5°  | 2096.3 | 2089.9 | 2072.3 | 2089.9 | 2088.3 |
| 5°    | 2086.7 | 2080.3 | 2061.1 | 2077.1 | 2073.9 |
| 7.5°  | 2072.3 | 2065.9 | 2041.9 | 2053.1 | 2048.3 |
| 10°   | 2049.9 | 2041.9 | 2013.1 | 2019.5 | 2013.1 |
| 12.5° | 2021.1 | 2011.5 | 1976.3 | 1979.5 | 1969.9 |
| 15°   | 1987.5 | 1973.1 | 1933.1 | 1929.9 | 1918.7 |
| 17.5° | 1949.1 | 1928.3 | 1881.9 | 1873.9 | 1857.9 |
| 20°   | 1902.7 | 1881.9 | 1827.5 | 1814.7 | 1793.9 |
| 22.5° | 1851.5 | 1827.5 | 1768.3 | 1747.5 | 1731.5 |
| 25°   | 1797.1 | 1768.3 | 1702.7 | 1675.5 | 1659.5 |
| 27.5° | 1741.1 | 1705.9 | 1637.1 | 1605.1 | 1582.6 |
| 30°   | 1681.9 | 1641.9 | 1566.6 | 1526.6 | 1501.0 |
| 32.5° | 1619.5 | 1573.0 | 1494.6 | 1446.6 | 1422.6 |
| 35°   | 1553.8 | 1502.6 | 1422.6 | 1368.2 | 1339.4 |
| 37.5° | 1485.0 | 1432.2 | 1344.2 | 1285.0 | 1256.2 |
| 40°   | 1411.4 | 1358.6 | 1267.4 | 1200.2 | 1171.4 |
| 42.5° | 1341.0 | 1285.0 | 1189.0 | 1120.2 | 1089.8 |
| 45°   | 1267.4 | 1208.2 | 1112.2 | 1033.8 | 1005.0 |
| 47.5° | 1192.2 | 1131.4 | 1032.2 | 950.5  | 918.5  |
| 50°   | 1115.4 | 1053.0 | 950.5  | 870.5  | 840.1  |
| 52.5° | 1037.0 | 976.2  | 870.5  | 788.9  | 756.9  |
| 55°   | 960.2  | 896.1  | 792.1  | 708.9  | 678.5  |
| 57.5° | 884.9  | 817.7  | 715.3  | 630.5  | 608.1  |
| 60°   | 803.3  | 739.3  | 636.9  | 553.7  | 528.1  |
| 62.5° | 729.7  | 662.5  | 556.9  | 481.7  | 462.5  |
| 65°   | 652.9  | 584.1  | 481.7  | 412.9  | 393.7  |
| 67.5° | 572.9  | 507.3  | 411.3  | 350.5  | 328.1  |
| 70°   | 497.7  | 430.5  | 339.3  | 286.4  | 270.4  |
| 72.5° | 417.7  | 358.5  | 273.6  | 230.4  | 216.0  |
| 75°   | 347.3  | 288.0  | 212.8  | 176.0  | 166.4  |
| 77.5° | 273.6  | 222.4  | 158.4  | 132.8  | 129.6  |
| 80°   | 203.2  | 156.8  | 108.8  | 104.0  | 102.4  |
| 82.5° | 142.4  | 100.8  | 78.4   | 75.2   | 73.6   |
| 85°   | 86.4   | 54.4   | 49.6   | 46.4   | 46.4   |
| 87.5° | 36.8   | 24.0   | 22.4   | 20.8   | 22.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)