

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: P995872

Luminaire Tested: S122DRP-B865DB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P995872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-B865DB2750-4F0-XX-W2A-F\_3500K  
Description: Define 2 Direct Perimeter with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

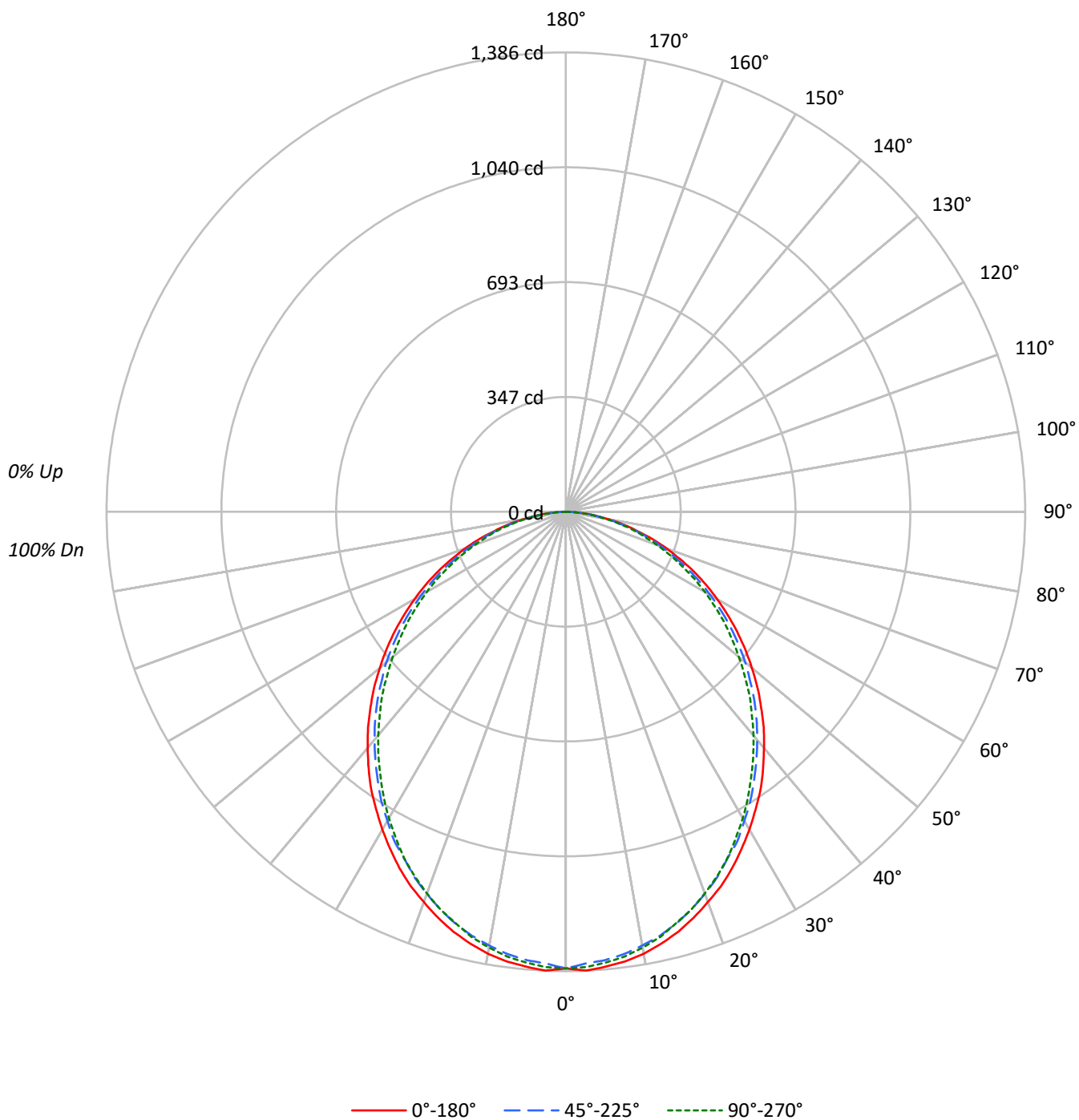
Lumens per Lamp: N/A  
Luminaire Lumens: 3505.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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  | 95  | 92  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  |  | 83  | 78  | 74  |  | 80  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 68  | 63  |  | 71  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 48  | 61  | 53  | 48  |  | 59  | 52  | 47  |  | 57  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  |  | 53  | 47  | 42  |  | 52  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 38  | 50  | 43  | 37  |  | 49  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  |  | 45  | 38  | 33  |  | 44  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  |  | 41  | 35  | 30  |  | 40  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 21808 | 21808 | 21808 |
| 5°  | 21891 | 21575 | 21701 |
| 10° | 21760 | 21357 | 21463 |
| 15° | 21491 | 21079 | 21057 |
| 20° | 21109 | 20664 | 20640 |
| 25° | 20730 | 20152 | 20152 |
| 30° | 20241 | 19685 | 19516 |
| 35° | 19788 | 19121 | 18841 |
| 40° | 19215 | 18558 | 18203 |
| 45° | 18652 | 18001 | 17555 |
| 50° | 18039 | 17420 | 16800 |
| 55° | 17400 | 16743 | 16122 |
| 60° | 16690 | 15937 | 15348 |
| 65° | 15926 | 15132 | 14439 |
| 70° | 14958 | 14162 | 13486 |
| 75° | 13608 | 13045 | 12721 |
| 80° | 12078 | 11714 | 11112 |
| 85° | 9862  | 9390  | 8427  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18652 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 129.7  | 3.7       |
| 10°-20°   | 364.8  | 10.4      |
| 20°-30°   | 536.1  | 15.3      |
| 30°-40°   | 622.7  | 17.8      |
| 40°-50°   | 621.9  | 17.7      |
| 50°-60°   | 542.3  | 15.5      |
| 60°-70°   | 400.8  | 11.4      |
| 70°-80°   | 226.8  | 6.5       |
| 80°-90°   | 59.9   | 1.7       |
| 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°    | 1030.6 | 29.4      |
| 0°-40°    | 1653.3 | 47.2      |
| 0°-60°    | 2817.5 | 80.4      |
| 0°-90°    | 3505.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3505.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1378 | 1378  | 1378 | 1378  | 1378 |      |
| 5°  | 1378 | 1372  | 1358 | 1368  | 1366 | 131  |
| 15° | 1311 | 1304  | 1286 | 1292  | 1285 | 369  |
| 25° | 1187 | 1176  | 1154 | 1156  | 1154 | 546  |
| 35° | 1024 | 1011  | 990  | 982   | 975  | 639  |
| 45° | 833  | 824   | 804  | 790   | 784  | 643  |
| 55° | 630  | 623   | 607  | 591   | 584  | 564  |
| 65° | 425  | 417   | 404  | 392   | 386  | 420  |
| 75° | 222  | 220   | 213  | 205   | 208  | 237  |
| 85° | 54   | 53    | 52   | 48    | 46   | 64   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1377.7 | 1377.7 | 1377.7 | 1377.7 | 1377.7 |
| 2.5°  | 1385.6 | 1379.0 | 1364.4 | 1377.7 | 1375.0 |
| 5°    | 1377.7 | 1372.4 | 1357.8 | 1368.4 | 1365.7 |
| 7.5°  | 1368.4 | 1360.4 | 1345.9 | 1356.5 | 1353.8 |
| 10°   | 1353.8 | 1344.5 | 1328.7 | 1339.2 | 1335.3 |
| 12.5° | 1334.0 | 1326.0 | 1310.1 | 1316.7 | 1314.1 |
| 15°   | 1311.4 | 1303.5 | 1286.3 | 1291.6 | 1284.9 |
| 17.5° | 1283.6 | 1275.7 | 1258.4 | 1265.1 | 1258.4 |
| 20°   | 1253.1 | 1245.2 | 1226.7 | 1230.6 | 1225.3 |
| 22.5° | 1222.7 | 1210.8 | 1193.5 | 1193.5 | 1190.9 |
| 25°   | 1186.9 | 1176.3 | 1153.8 | 1156.4 | 1153.8 |
| 27.5° | 1147.2 | 1137.9 | 1120.7 | 1116.7 | 1110.1 |
| 30°   | 1107.4 | 1096.8 | 1077.0 | 1073.0 | 1067.7 |
| 32.5° | 1065.0 | 1057.1 | 1035.9 | 1028.0 | 1022.7 |
| 35°   | 1024.0 | 1010.7 | 989.5  | 981.6  | 975.0  |
| 37.5° | 977.6  | 965.7  | 944.5  | 935.2  | 928.6  |
| 40°   | 929.9  | 919.3  | 898.1  | 886.2  | 880.9  |
| 42.5° | 883.6  | 873.0  | 851.8  | 838.5  | 830.6  |
| 45°   | 833.2  | 823.9  | 804.1  | 789.5  | 784.2  |
| 47.5° | 784.2  | 774.9  | 753.7  | 739.2  | 731.2  |
| 50°   | 732.5  | 725.9  | 707.4  | 688.8  | 682.2  |
| 52.5° | 682.2  | 672.9  | 655.7  | 641.1  | 631.9  |
| 55°   | 630.5  | 622.6  | 606.7  | 590.8  | 584.2  |
| 57.5° | 578.9  | 572.3  | 555.0  | 539.1  | 533.8  |
| 60°   | 527.2  | 521.9  | 503.4  | 488.8  | 484.8  |
| 62.5° | 476.9  | 467.6  | 454.4  | 441.1  | 435.8  |
| 65°   | 425.2  | 417.3  | 404.0  | 392.1  | 385.5  |
| 67.5° | 372.2  | 365.6  | 353.7  | 344.4  | 339.1  |
| 70°   | 323.2  | 317.9  | 306.0  | 296.7  | 291.4  |
| 72.5° | 272.9  | 267.6  | 261.0  | 251.7  | 247.7  |
| 75°   | 222.5  | 219.9  | 213.3  | 205.3  | 208.0  |
| 77.5° | 177.5  | 172.2  | 169.6  | 165.6  | 161.6  |
| 80°   | 132.5  | 131.1  | 128.5  | 124.5  | 121.9  |
| 82.5° | 90.1   | 90.1   | 88.8   | 83.5   | 83.5   |
| 85°   | 54.3   | 53.0   | 51.7   | 47.7   | 46.4   |
| 87.5° | 23.8   | 21.2   | 18.5   | 14.6   | 13.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)