

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: P996926

Luminaire Tested: S125DRP-B850DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996926  
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-B850DB30-4F0-XX-W2A-F  
Description: Define 5 Direct Perimeter with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

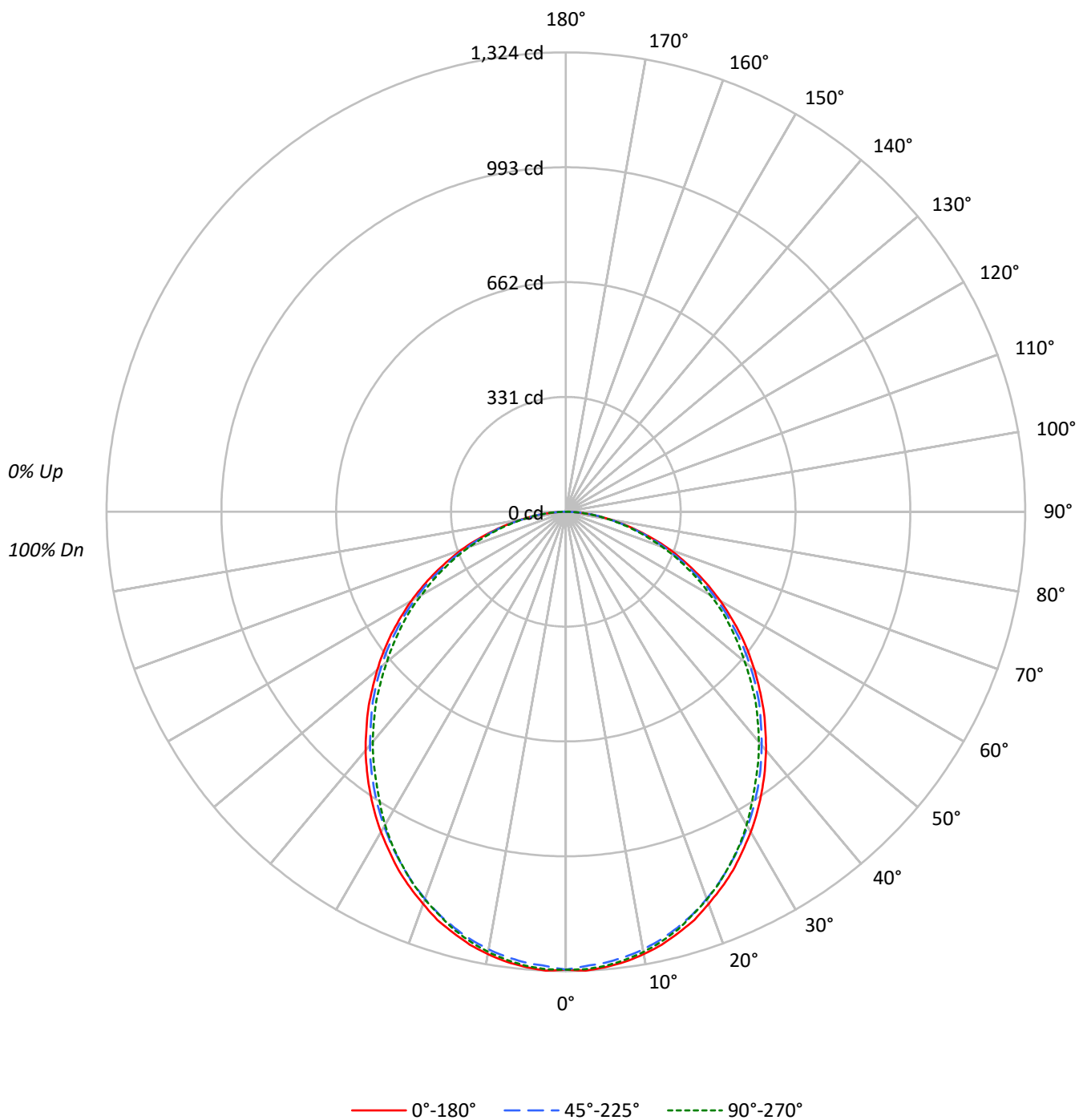
Lumens per Lamp: N/A  
Luminaire Lumens: 3435.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.9  
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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  |  | 94  | 91  | 89  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  |  | 82  | 78  | 74  |  | 79  | 76  | 72  | 70  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 67  | 63  |  | 70  | 66  | 62  | 59  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  | 58  | 53  | 51  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  |  | 58  | 52  | 47  |  | 57  | 51  | 46  | 44  |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  | 46  | 41  | 39  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  | 41  | 36  | 34  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  |  | 44  | 38  | 33  |  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  | 34  | 30  | 28  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8456 | 8456 | 8456 |
| 5°  | 8475 | 8394 | 8448 |
| 10° | 8423 | 8335 | 8382 |
| 15° | 8332 | 8234 | 8269 |
| 20° | 8201 | 8095 | 8108 |
| 25° | 8061 | 7928 | 7920 |
| 30° | 7887 | 7747 | 7709 |
| 35° | 7701 | 7554 | 7448 |
| 40° | 7510 | 7344 | 7240 |
| 45° | 7304 | 7152 | 7010 |
| 50° | 7077 | 6921 | 6713 |
| 55° | 6858 | 6660 | 6473 |
| 60° | 6595 | 6396 | 6167 |
| 65° | 6284 | 6078 | 5873 |
| 70° | 5985 | 5712 | 5515 |
| 75° | 5454 | 5273 | 5092 |
| 80° | 4856 | 4778 | 4660 |
| 85° | 4220 | 4301 | 4065 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7304 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.5  | 3.6       |
| 10°-20°   | 351.8  | 10.2      |
| 20°-30°   | 519.3  | 15.1      |
| 30°-40°   | 605.9  | 17.6      |
| 40°-50°   | 608.5  | 17.7      |
| 50°-60°   | 534.2  | 15.6      |
| 60°-70°   | 397.9  | 11.6      |
| 70°-80°   | 227.2  | 6.6       |
| 80°-90°   | 65.6   | 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°    | 995.6  | 29.0      |
| 0°-40°    | 1601.5 | 46.6      |
| 0°-60°    | 2744.3 | 79.9      |
| 0°-90°    | 3435.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3435.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1320 | 1320  | 1320 | 1320  | 1320 |      |
| 5°  | 1318 | 1316  | 1305 | 1314  | 1314 | 125  |
| 15° | 1256 | 1253  | 1241 | 1247  | 1247 | 354  |
| 25° | 1140 | 1135  | 1121 | 1124  | 1120 | 525  |
| 35° | 985  | 980   | 966  | 961   | 952  | 616  |
| 45° | 806  | 802   | 789  | 777   | 774  | 621  |
| 55° | 614  | 611   | 596  | 587   | 580  | 548  |
| 65° | 414  | 412   | 401  | 392   | 387  | 411  |
| 75° | 220  | 218   | 213  | 210   | 206  | 235  |
| 85° | 57   | 58    | 58   | 57    | 55   | 67   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1319.8 | 1319.8 | 1319.8 | 1319.8 | 1319.8 |
| 2.5°  | 1323.9 | 1320.8 | 1310.4 | 1320.8 | 1319.8 |
| 5°    | 1317.7 | 1315.6 | 1305.1 | 1314.5 | 1313.5 |
| 7.5°  | 1308.3 | 1306.2 | 1294.7 | 1304.1 | 1303.1 |
| 10°   | 1294.7 | 1292.6 | 1281.1 | 1289.5 | 1288.4 |
| 12.5° | 1278.0 | 1273.8 | 1263.4 | 1269.6 | 1269.6 |
| 15°   | 1256.1 | 1252.9 | 1241.4 | 1246.7 | 1246.7 |
| 17.5° | 1233.1 | 1227.9 | 1216.4 | 1222.7 | 1217.4 |
| 20°   | 1202.8 | 1200.7 | 1187.2 | 1194.5 | 1189.2 |
| 22.5° | 1172.5 | 1168.4 | 1155.8 | 1160.0 | 1156.9 |
| 25°   | 1140.2 | 1134.9 | 1121.4 | 1123.5 | 1120.3 |
| 27.5° | 1102.6 | 1099.4 | 1085.9 | 1086.9 | 1083.8 |
| 30°   | 1066.0 | 1062.9 | 1047.2 | 1045.2 | 1042.0 |
| 32.5° | 1026.4 | 1021.1 | 1007.6 | 1003.4 | 997.1  |
| 35°   | 984.6  | 980.4  | 965.8  | 960.6  | 952.2  |
| 37.5° | 941.8  | 936.6  | 923.0  | 915.7  | 910.5  |
| 40°   | 897.9  | 892.7  | 878.1  | 868.7  | 865.6  |
| 42.5° | 851.0  | 846.8  | 832.2  | 823.8  | 818.6  |
| 45°   | 806.1  | 801.9  | 789.3  | 776.8  | 773.7  |
| 47.5° | 757.0  | 758.0  | 742.4  | 729.8  | 722.5  |
| 50°   | 710.0  | 706.9  | 694.3  | 680.8  | 673.5  |
| 52.5° | 662.0  | 659.9  | 646.3  | 634.8  | 626.5  |
| 55°   | 613.9  | 610.8  | 596.2  | 586.8  | 579.5  |
| 57.5° | 562.8  | 561.7  | 549.2  | 536.7  | 533.5  |
| 60°   | 514.7  | 510.6  | 499.1  | 488.6  | 481.3  |
| 62.5° | 464.6  | 461.5  | 452.1  | 440.6  | 435.4  |
| 65°   | 414.5  | 412.4  | 400.9  | 391.5  | 387.4  |
| 67.5° | 365.4  | 361.3  | 352.9  | 344.6  | 342.5  |
| 70°   | 319.5  | 314.3  | 304.9  | 298.6  | 294.4  |
| 72.5° | 269.4  | 266.2  | 261.0  | 253.7  | 249.5  |
| 75°   | 220.3  | 218.2  | 213.0  | 209.9  | 205.7  |
| 77.5° | 174.4  | 173.3  | 170.2  | 168.1  | 165.0  |
| 80°   | 131.6  | 131.6  | 129.5  | 128.4  | 126.3  |
| 82.5° | 94.0   | 91.9   | 91.9   | 89.8   | 89.8   |
| 85°   | 57.4   | 58.5   | 58.5   | 57.4   | 55.3   |
| 87.5° | 28.2   | 28.2   | 27.1   | 27.1   | 25.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)