

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: P996805

Luminaire Tested: S125DRP-B1090DB30-4F0-XX-W2A-D

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-B1090DB30-4F0-XX-W2A-D  
Description: Define 5 Direct Perimeter with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

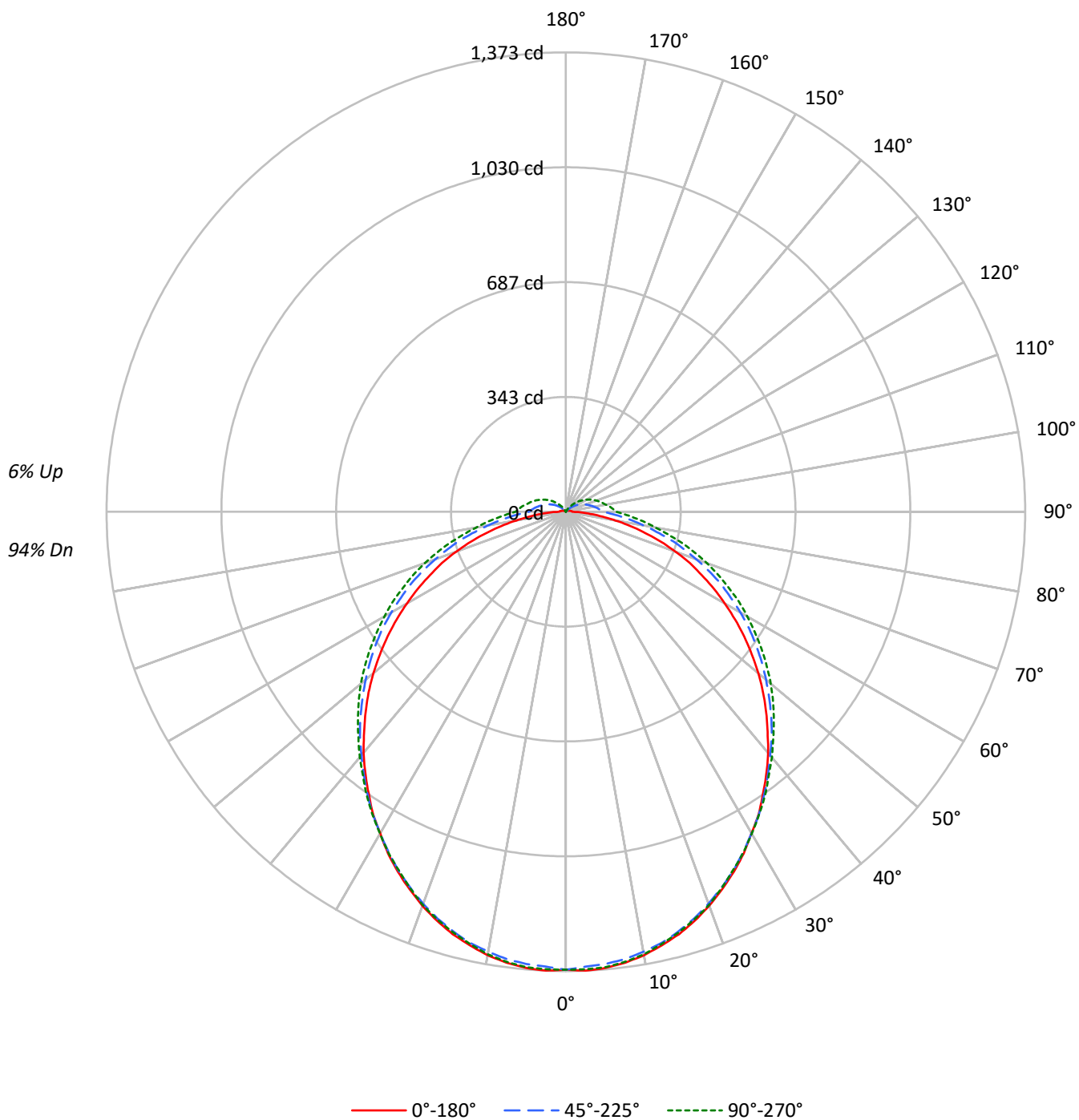
Lumens per Lamp: N/A  
Luminaire Lumens: 4240.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 |
| 1   | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 93  | 89  | 86  | 88  | 85  | 82  | 83 | 81 | 79 |
| 2   | 96  | 88  | 80  | 74  | 93  | 85  | 78  | 73  | 81  | 75  | 70  | 76  | 72  | 68  | 72 | 69 | 65 |
| 3   | 88  | 77  | 68  | 61  | 84  | 75  | 67  | 60  | 71  | 64  | 59  | 67  | 61  | 57  | 64 | 59 | 55 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 55  | 50  | 60  | 53  | 48  | 57 | 51 | 47 |
| 5   | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 53  | 47  | 42  | 51 | 45 | 41 |
| 6   | 68  | 54  | 45  | 39  | 66  | 53  | 45  | 38  | 51  | 43  | 38  | 48  | 42  | 37  | 46 | 40 | 36 |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 37  | 33  | 42 | 36 | 32 |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 40  | 34  | 29  | 39 | 33 | 29 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 |
| 10  | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 28 | 23 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 8769 | 8769  | 8769  |
| 5°  | 8803 | 8725  | 8786  |
| 10° | 8756 | 8687  | 8739  |
| 15° | 8669 | 8616  | 8634  |
| 20° | 8545 | 8500  | 8527  |
| 25° | 8396 | 8367  | 8357  |
| 30° | 8210 | 8210  | 8220  |
| 35° | 8040 | 8081  | 8113  |
| 40° | 7867 | 7946  | 8013  |
| 45° | 7672 | 7867  | 7964  |
| 50° | 7490 | 7785  | 7972  |
| 55° | 7270 | 7749  | 7975  |
| 60° | 7032 | 7721  | 8031  |
| 65° | 6795 | 7752  | 8137  |
| 70° | 6536 | 7767  | 8396  |
| 75° | 6112 | 8038  | 8870  |
| 80° | 5594 | 8763  | 10051 |
| 85° | 5425 | 12130 | 15092 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 25823 cd/sqm

TEST NUMBER: P996805

CATALOG NUMBER: S125DRP-B1090DB30-4F0-XX-W2A-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 129.5  | 3.1       |
| 10°-20°   | 367.7  | 8.7       |
| 20°-30°   | 546.7  | 12.9      |
| 30°-40°   | 647.5  | 15.3      |
| 40°-50°   | 669.4  | 15.8      |
| 50°-60°   | 616.7  | 14.5      |
| 60°-70°   | 498.5  | 11.8      |
| 70°-80°   | 333.6  | 7.9       |
| 80°-90°   | 172.4  | 4.1       |
| 90°-100°  | 97.1   | 2.3       |
| 100°-110° | 71.6   | 1.7       |
| 110°-120° | 47.9   | 1.1       |
| 120°-130° | 27.1   | 0.6       |
| 130°-140° | 11.9   | 0.3       |
| 140°-150° | 2.3    | 0.1       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1043.9 | 24.6      |
| 0°-40°    | 1691.5 | 39.9      |
| 0°-60°    | 2977.5 | 70.2      |
| 0°-90°    | 3982.0 | 93.9      |
| 90°-120°  | 216.6  | 5.1       |
| 90°-150°  | 258.0  | 6.1       |
| 90°-180°  | 258.0  | 6.1       |
| 0°-180°   | 4240.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1369 | 1369  | 1369 | 1369  | 1369 |      |
| 5°   | 1369 | 1366  | 1357 | 1367  | 1366 | 130  |
| 15°  | 1307 | 1308  | 1299 | 1307  | 1302 | 368  |
| 25°  | 1188 | 1192  | 1184 | 1189  | 1182 | 547  |
| 35°  | 1028 | 1037  | 1033 | 1037  | 1037 | 643  |
| 45°  | 847  | 862   | 868  | 878   | 879  | 653  |
| 55°  | 651  | 672   | 694  | 708   | 714  | 582  |
| 65°  | 448  | 479   | 511  | 531   | 537  | 445  |
| 75°  | 247  | 282   | 325  | 352   | 358  | 262  |
| 85°  | 74   | 118   | 165  | 195   | 205  | 77   |
| 90°  | 22   | 64    | 110  | 141   | 150  | 15   |
| 95°  | 17   | 52    | 98   | 128   | 137  | 14   |
| 105° | 12   | 34    | 74   | 101   | 110  | 13   |
| 115° | 8    | 17    | 52   | 76    | 84   | 8    |
| 125° | 5    | 4     | 31   | 52    | 59   | 5    |
| 135° | 3    | 1     | 11   | 28    | 35   | 2    |
| 145° | 1    | 0     | 0    | 7     | 12   | 1    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |

TEST NUMBER: P996805

CATALOG NUMBER: S125DRP-B1090DB30-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1368.7 | 1368.7 | 1368.7 | 1368.7 | 1368.7 |
| 2.5°   | 1372.7 | 1370.0 | 1360.7 | 1370.0 | 1368.7 |
| 5°     | 1368.7 | 1366.0 | 1356.6 | 1367.4 | 1366.0 |
| 7.5°   | 1359.3 | 1358.0 | 1348.6 | 1358.0 | 1356.6 |
| 10°    | 1345.9 | 1345.9 | 1335.2 | 1344.5 | 1343.2 |
| 12.5°  | 1327.1 | 1328.4 | 1320.4 | 1327.1 | 1323.1 |
| 15°    | 1307.0 | 1308.3 | 1298.9 | 1307.0 | 1301.6 |
| 17.5°  | 1281.5 | 1284.2 | 1274.8 | 1281.5 | 1277.5 |
| 20°    | 1253.3 | 1256.0 | 1246.6 | 1250.6 | 1250.6 |
| 22.5°  | 1221.1 | 1226.5 | 1215.7 | 1221.1 | 1217.1 |
| 25°    | 1187.6 | 1191.6 | 1183.5 | 1188.9 | 1182.2 |
| 27.5°  | 1151.3 | 1156.7 | 1147.3 | 1151.3 | 1148.6 |
| 30°    | 1109.7 | 1117.8 | 1109.7 | 1112.4 | 1111.1 |
| 32.5°  | 1072.2 | 1078.9 | 1073.5 | 1076.2 | 1074.8 |
| 35°    | 1027.9 | 1037.3 | 1033.2 | 1037.3 | 1037.3 |
| 37.5°  | 984.9  | 993.0  | 991.6  | 997.0  | 995.7  |
| 40°    | 940.6  | 951.4  | 950.0  | 955.4  | 958.1  |
| 42.5°  | 892.3  | 907.1  | 911.1  | 917.8  | 917.8  |
| 45°    | 846.7  | 861.5  | 868.2  | 877.6  | 878.9  |
| 47.5°  | 799.8  | 813.2  | 823.9  | 837.3  | 840.0  |
| 50°    | 751.4  | 766.2  | 781.0  | 795.7  | 799.8  |
| 52.5°  | 700.5  | 719.2  | 738.0  | 754.1  | 756.8  |
| 55°    | 650.8  | 672.3  | 693.7  | 708.5  | 713.9  |
| 57.5°  | 599.8  | 625.3  | 649.5  | 665.6  | 669.6  |
| 60°    | 548.8  | 575.7  | 602.5  | 622.6  | 626.7  |
| 62.5°  | 499.2  | 526.0  | 555.5  | 578.3  | 583.7  |
| 65°    | 448.2  | 479.0  | 511.3  | 531.4  | 536.7  |
| 67.5°  | 401.2  | 430.7  | 462.9  | 487.1  | 493.8  |
| 70°    | 348.9  | 379.7  | 414.6  | 440.1  | 448.2  |
| 72.5°  | 297.9  | 330.1  | 369.0  | 397.2  | 402.6  |
| 75°    | 246.9  | 281.8  | 324.7  | 351.6  | 358.3  |
| 77.5°  | 197.3  | 237.5  | 277.8  | 307.3  | 312.7  |
| 80°    | 151.6  | 191.9  | 237.5  | 267.0  | 272.4  |
| 82.5°  | 110.0  | 153.0  | 199.9  | 228.1  | 238.9  |
| 85°    | 73.8   | 118.1  | 165.0  | 194.6  | 205.3  |
| 87.5°  | 47.0   | 89.9   | 135.5  | 166.4  | 175.8  |
| 90°    | 21.5   | 64.4   | 110.0  | 140.9  | 150.3  |
| 92.5°  | 18.8   | 57.7   | 104.7  | 134.2  | 143.6  |
| 95°    | 17.4   | 52.3   | 98.0   | 127.5  | 136.9  |
| 97.5°  | 16.1   | 48.3   | 92.6   | 120.8  | 130.2  |
| 100°   | 14.8   | 42.9   | 85.9   | 114.1  | 122.1  |
| 102.5° | 13.4   | 38.9   | 80.5   | 107.3  | 115.4  |
| 105°   | 12.1   | 33.5   | 73.8   | 100.6  | 110.0  |
| 107.5° | 10.7   | 29.5   | 68.4   | 95.3   | 103.3  |
| 110°   | 9.4    | 25.5   | 63.1   | 88.6   | 98.0   |

TEST NUMBER: P996805

CATALOG NUMBER: S125DRP-B1090DB30-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 9.4 | 21.5  | 57.7 | 81.9  | 91.2 |
| 115°   | 8.1 | 17.4  | 52.3 | 76.5  | 84.5 |
| 117.5° | 6.7 | 13.4  | 47.0 | 69.8  | 79.2 |
| 120°   | 6.7 | 10.7  | 41.6 | 64.4  | 72.5 |
| 122.5° | 5.4 | 6.7   | 36.2 | 57.7  | 65.8 |
| 125°   | 5.4 | 4.0   | 30.9 | 52.3  | 59.0 |
| 127.5° | 4.0 | 2.7   | 25.5 | 45.6  | 53.7 |
| 130°   | 4.0 | 2.7   | 21.5 | 40.3  | 47.0 |
| 132.5° | 2.7 | 2.7   | 16.1 | 34.9  | 40.3 |
| 135°   | 2.7 | 1.3   | 10.7 | 28.2  | 34.9 |
| 137.5° | 2.7 | 1.3   | 6.7  | 22.8  | 28.2 |
| 140°   | 1.3 | 1.3   | 2.7  | 17.4  | 22.8 |
| 142.5° | 1.3 | 0.0   | 0.0  | 12.1  | 17.4 |
| 145°   | 1.3 | 0.0   | 0.0  | 6.7   | 12.1 |
| 147.5° | 0.0 | 0.0   | 0.0  | 2.7   | 5.4  |
| 150°   | 0.0 | 0.0   | 0.0  | 0.0   | 1.3  |
| 152.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 155°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 157.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 160°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 162.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 165°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 167.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 170°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 172.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 175°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 177.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 180°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |

(END OF REPORT)