

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: P996817

Luminaire Tested: S125DRP-B1270DB27-4F0-XX-W2A-D

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996817  
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-B1270DB27-4F0-XX-W2A-D  
Description: Define 5 Direct Perimeter with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

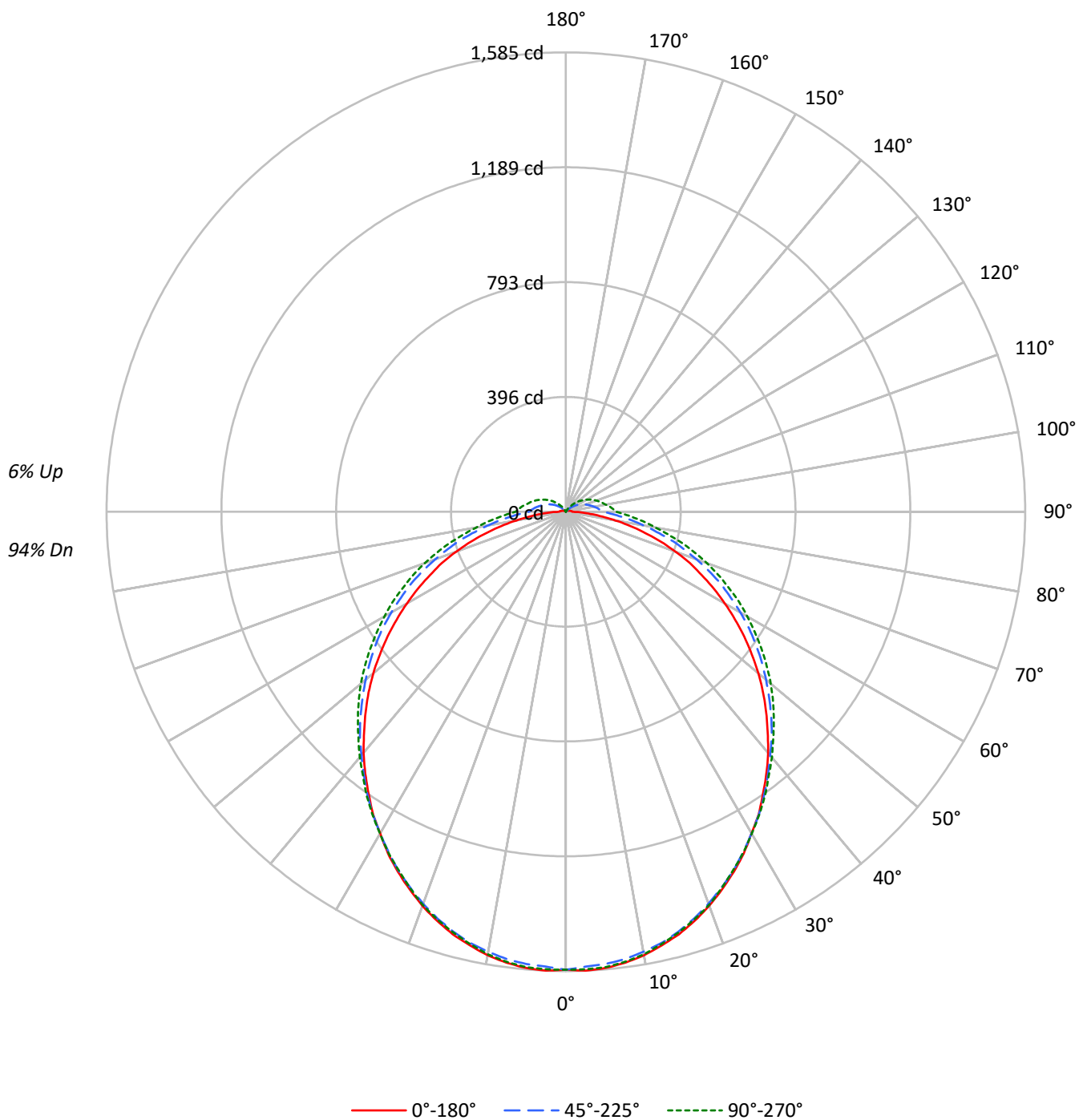
Lumens per Lamp: N/A  
Luminaire Lumens: 4895.0 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 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°  | 10124 | 10124 | 10124 |
| 5°  | 10163 | 10073 | 10143 |
| 10° | 10109 | 10028 | 10089 |
| 15° | 10009 | 9947  | 9968  |
| 20° | 9865  | 9813  | 9844  |
| 25° | 9692  | 9660  | 9648  |
| 30° | 9479  | 9479  | 9490  |
| 35° | 9282  | 9330  | 9366  |
| 40° | 9083  | 9173  | 9251  |
| 45° | 8857  | 9082  | 9194  |
| 50° | 8647  | 8987  | 9203  |
| 55° | 8392  | 8946  | 9207  |
| 60° | 8119  | 8914  | 9271  |
| 65° | 7844  | 8948  | 9395  |
| 70° | 7546  | 8968  | 9692  |
| 75° | 7055  | 9281  | 10239 |
| 80° | 6461  | 10117 | 11604 |
| 85° | 6263  | 14004 | 17423 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 29803 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.5  | 3.1       |
| 10°-20°   | 424.5  | 8.7       |
| 20°-30°   | 631.2  | 12.9      |
| 30°-40°   | 747.5  | 15.3      |
| 40°-50°   | 772.8  | 15.8      |
| 50°-60°   | 711.9  | 14.5      |
| 60°-70°   | 575.5  | 11.8      |
| 70°-80°   | 385.1  | 7.9       |
| 80°-90°   | 199.0  | 4.1       |
| 90°-100°  | 112.1  | 2.3       |
| 100°-110° | 82.6   | 1.7       |
| 110°-120° | 55.3   | 1.1       |
| 120°-130° | 31.3   | 0.6       |
| 130°-140° | 13.7   | 0.3       |
| 140°-150° | 2.7    | 0.1       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1205.2 | 24.6      |
| 0°-40°    | 1952.7 | 39.9      |
| 0°-60°    | 3437.5 | 70.2      |
| 0°-90°    | 4597.2 | 93.9      |
| 90°-120°  | 250.1  | 5.1       |
| 90°-150°  | 297.8  | 6.1       |
| 90°-180°  | 298.0  | 6.1       |
| 0°-180°   | 4895.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1580 | 1580  | 1580 | 1580  | 1580 |      |
| 5°   | 1580 | 1577  | 1566 | 1579  | 1577 | 150  |
| 15°  | 1509 | 1510  | 1500 | 1509  | 1503 | 425  |
| 25°  | 1371 | 1376  | 1366 | 1373  | 1365 | 631  |
| 35°  | 1187 | 1198  | 1193 | 1198  | 1198 | 743  |
| 45°  | 978  | 995   | 1002 | 1013  | 1015 | 754  |
| 55°  | 751  | 776   | 801  | 818   | 824  | 672  |
| 65°  | 517  | 553   | 590  | 614   | 620  | 513  |
| 75°  | 285  | 325   | 375  | 406   | 414  | 302  |
| 85°  | 85   | 136   | 190  | 225   | 237  | 89   |
| 90°  | 25   | 74    | 127  | 163   | 174  | 17   |
| 95°  | 20   | 60    | 113  | 147   | 158  | 16   |
| 105° | 14   | 39    | 85   | 116   | 127  | 15   |
| 115° | 9    | 20    | 60   | 88    | 98   | 9    |
| 125° | 6    | 5     | 36   | 60    | 68   | 5    |
| 135° | 3    | 2     | 12   | 32    | 40   | 2    |
| 145° | 2    | 0     | 0    | 8     | 14   | 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    |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1580.1 | 1580.1 | 1580.1 | 1580.1 | 1580.1 |
| 2.5°   | 1584.8 | 1581.7 | 1570.8 | 1581.7 | 1580.1 |
| 5°     | 1580.1 | 1577.0 | 1566.2 | 1578.6 | 1577.0 |
| 7.5°   | 1569.3 | 1567.7 | 1556.9 | 1567.7 | 1566.2 |
| 10°    | 1553.8 | 1553.8 | 1541.4 | 1552.3 | 1550.7 |
| 12.5°  | 1532.1 | 1533.7 | 1524.4 | 1532.1 | 1527.5 |
| 15°    | 1508.9 | 1510.4 | 1499.6 | 1508.9 | 1502.7 |
| 17.5°  | 1479.4 | 1482.5 | 1471.7 | 1479.4 | 1474.8 |
| 20°    | 1446.9 | 1450.0 | 1439.2 | 1443.8 | 1443.8 |
| 22.5°  | 1409.7 | 1415.9 | 1403.5 | 1409.7 | 1405.1 |
| 25°    | 1371.0 | 1375.7 | 1366.4 | 1372.6 | 1364.8 |
| 27.5°  | 1329.2 | 1335.4 | 1324.5 | 1329.2 | 1326.1 |
| 30°    | 1281.2 | 1290.4 | 1281.2 | 1284.3 | 1282.7 |
| 32.5°  | 1237.8 | 1245.5 | 1239.3 | 1242.4 | 1240.9 |
| 35°    | 1186.7 | 1197.5 | 1192.9 | 1197.5 | 1197.5 |
| 37.5°  | 1137.1 | 1146.4 | 1144.8 | 1151.0 | 1149.5 |
| 40°    | 1086.0 | 1098.4 | 1096.8 | 1103.0 | 1106.1 |
| 42.5°  | 1030.2 | 1047.2 | 1051.9 | 1059.6 | 1059.6 |
| 45°    | 977.5  | 994.6  | 1002.3 | 1013.1 | 1014.7 |
| 47.5°  | 923.3  | 938.8  | 951.2  | 966.7  | 969.8  |
| 50°    | 867.5  | 884.6  | 901.6  | 918.7  | 923.3  |
| 52.5°  | 808.7  | 830.3  | 852.0  | 870.6  | 873.7  |
| 55°    | 751.3  | 776.1  | 800.9  | 818.0  | 824.2  |
| 57.5°  | 692.5  | 721.9  | 749.8  | 768.4  | 773.0  |
| 60°    | 633.6  | 664.6  | 695.6  | 718.8  | 723.5  |
| 62.5°  | 576.3  | 607.3  | 641.4  | 667.7  | 673.9  |
| 65°    | 517.4  | 553.0  | 590.2  | 613.5  | 619.7  |
| 67.5°  | 463.2  | 497.3  | 534.5  | 562.3  | 570.1  |
| 70°    | 402.8  | 438.4  | 478.7  | 508.1  | 517.4  |
| 72.5°  | 343.9  | 381.1  | 426.0  | 458.6  | 464.7  |
| 75°    | 285.0  | 325.3  | 374.9  | 405.9  | 413.6  |
| 77.5°  | 227.7  | 274.2  | 320.7  | 354.8  | 361.0  |
| 80°    | 175.1  | 221.5  | 274.2  | 308.3  | 314.5  |
| 82.5°  | 127.0  | 176.6  | 230.8  | 263.4  | 275.8  |
| 85°    | 85.2   | 136.3  | 190.5  | 224.6  | 237.0  |
| 87.5°  | 54.2   | 103.8  | 156.5  | 192.1  | 202.9  |
| 90°    | 24.8   | 74.4   | 127.0  | 162.7  | 173.5  |
| 92.5°  | 21.7   | 66.6   | 120.8  | 154.9  | 165.8  |
| 95°    | 20.1   | 60.4   | 113.1  | 147.2  | 158.0  |
| 97.5°  | 18.6   | 55.8   | 106.9  | 139.4  | 150.3  |
| 100°   | 17.0   | 49.6   | 99.1   | 131.7  | 141.0  |
| 102.5° | 15.5   | 44.9   | 92.9   | 123.9  | 133.2  |
| 105°   | 13.9   | 38.7   | 85.2   | 116.2  | 127.0  |
| 107.5° | 12.4   | 34.1   | 79.0   | 110.0  | 119.3  |
| 110°   | 10.8   | 29.4   | 72.8   | 102.2  | 113.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°   |
|--------|------|-------|------|-------|-------|
| 112.5° | 10.8 | 24.8  | 66.6 | 94.5  | 105.3 |
| 115°   | 9.3  | 20.1  | 60.4 | 88.3  | 97.6  |
| 117.5° | 7.7  | 15.5  | 54.2 | 80.6  | 91.4  |
| 120°   | 7.7  | 12.4  | 48.0 | 74.4  | 83.7  |
| 122.5° | 6.2  | 7.7   | 41.8 | 66.6  | 75.9  |
| 125°   | 6.2  | 4.6   | 35.6 | 60.4  | 68.2  |
| 127.5° | 4.6  | 3.1   | 29.4 | 52.7  | 62.0  |
| 130°   | 4.6  | 3.1   | 24.8 | 46.5  | 54.2  |
| 132.5° | 3.1  | 3.1   | 18.6 | 40.3  | 46.5  |
| 135°   | 3.1  | 1.5   | 12.4 | 32.5  | 40.3  |
| 137.5° | 3.1  | 1.5   | 7.7  | 26.3  | 32.5  |
| 140°   | 1.5  | 1.5   | 3.1  | 20.1  | 26.3  |
| 142.5° | 1.5  | 0.0   | 0.0  | 13.9  | 20.1  |
| 145°   | 1.5  | 0.0   | 0.0  | 7.7   | 13.9  |
| 147.5° | 0.0  | 0.0   | 0.0  | 3.1   | 6.2   |
| 150°   | 0.0  | 0.0   | 0.0  | 0.0   | 1.5   |
| 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)