

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: P995866

Luminaire Tested: S122DRP-B865DB2750-4F0-XX-W2A-D\_3000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P995866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-B865DB2750-4F0-XX-W2A-D\_3000K  
Description: Define 2 Direct Perimeter with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

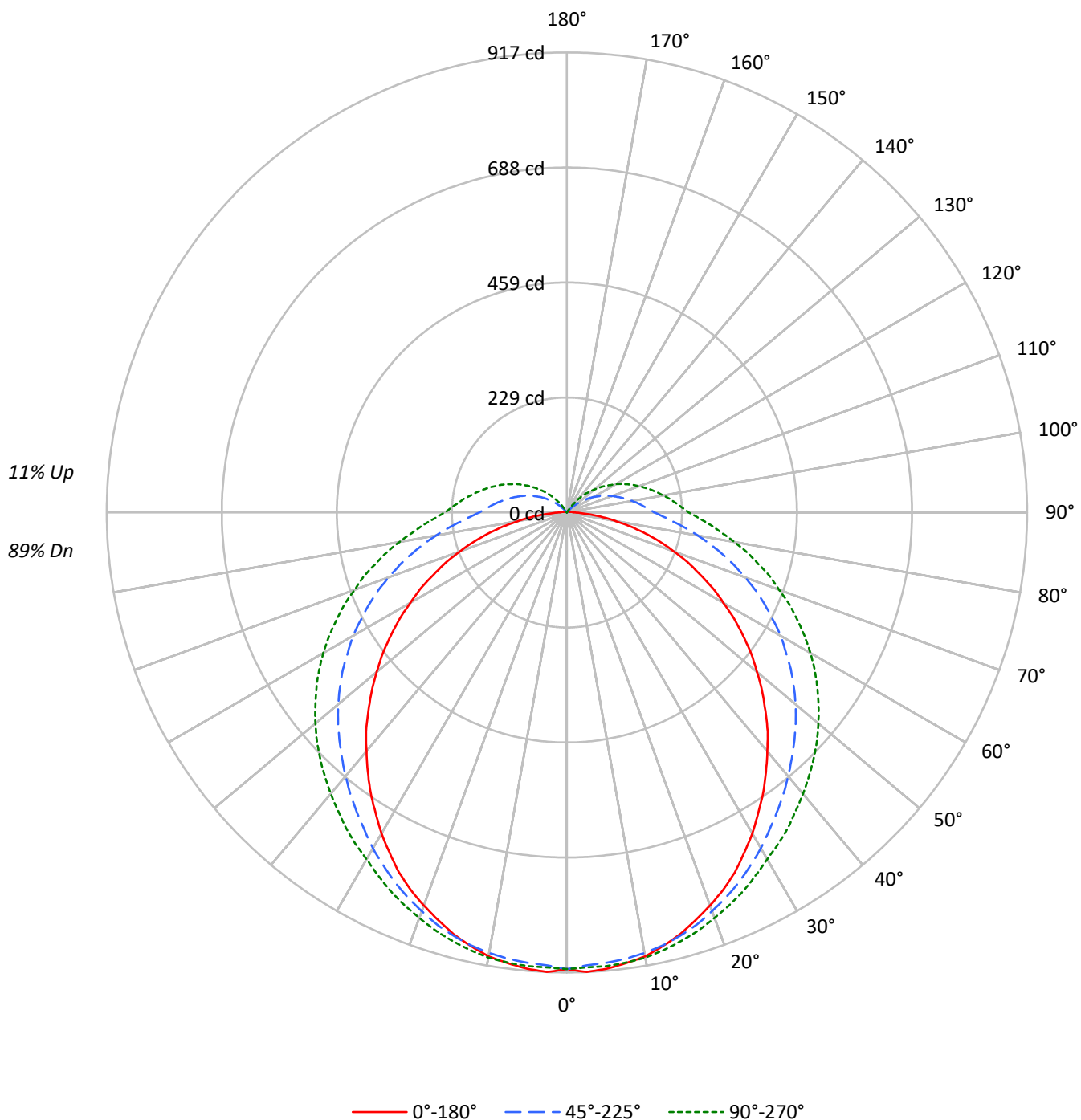
Lumens per Lamp: N/A  
Luminaire Lumens: 3473.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 |
| 1   | 104 | 98  | 93  | 88  | 100 | 95  | 90  | 86  | 88  | 85  | 81  | 82 | 79 | 77 | 77 | 75 | 72 |
| 2   | 94  | 84  | 77  | 70  | 90  | 81  | 74  | 68  | 76  | 70  | 65  | 71 | 66 | 62 | 66 | 62 | 59 |
| 3   | 85  | 73  | 64  | 57  | 81  | 71  | 63  | 56  | 66  | 59  | 54  | 62 | 56 | 51 | 58 | 53 | 49 |
| 4   | 77  | 64  | 55  | 48  | 74  | 62  | 54  | 47  | 58  | 51  | 45  | 55 | 48 | 43 | 51 | 46 | 42 |
| 5   | 71  | 57  | 48  | 41  | 68  | 56  | 47  | 40  | 52  | 44  | 39  | 49 | 42 | 37 | 46 | 40 | 36 |
| 6   | 65  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 47  | 39  | 34  | 44 | 37 | 32 | 42 | 36 | 31 |
| 7   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 43  | 35  | 30  | 40 | 34 | 29 | 38 | 32 | 28 |
| 8   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 27  | 39  | 32  | 26  | 37 | 30 | 25 | 35 | 29 | 25 |
| 9   | 52  | 39  | 30  | 25  | 50  | 38  | 30  | 24  | 36  | 29  | 24  | 34 | 27 | 23 | 32 | 26 | 22 |
| 10  | 49  | 36  | 28  | 22  | 47  | 35  | 27  | 22  | 33  | 26  | 21  | 31 | 25 | 21 | 30 | 24 | 20 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14408 | 14408 | 14408 |
| 5°  | 14504 | 14317 | 14422 |
| 10° | 14439 | 14333 | 14482 |
| 15° | 14267 | 14311 | 14483 |
| 20° | 14044 | 14244 | 14489 |
| 25° | 13824 | 14193 | 14538 |
| 30° | 13502 | 14129 | 14588 |
| 35° | 13179 | 14097 | 14835 |
| 40° | 12838 | 14173 | 15128 |
| 45° | 12520 | 14352 | 15563 |
| 50° | 12182 | 14650 | 16113 |
| 55° | 11831 | 15035 | 16818 |
| 60° | 11400 | 15576 | 17748 |
| 65° | 10967 | 16304 | 18971 |
| 70° | 10501 | 17462 | 20818 |
| 75° | 9926  | 19602 | 24121 |
| 80° | 9015  | 24166 | 30902 |
| 85° | 8627  | 38812 | 52234 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 95732 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.3   | 2.5       |
| 10°-20°   | 247.5  | 7.1       |
| 20°-30°   | 375.0  | 10.8      |
| 30°-40°   | 456.6  | 13.1      |
| 40°-50°   | 491.3  | 14.1      |
| 50°-60°   | 477.1  | 13.7      |
| 60°-70°   | 416.7  | 12.0      |
| 70°-80°   | 320.7  | 9.2       |
| 80°-90°   | 214.8  | 6.2       |
| 90°-100°  | 148.2  | 4.3       |
| 100°-110° | 108.2  | 3.1       |
| 110°-120° | 71.4   | 2.1       |
| 120°-130° | 39.8   | 1.1       |
| 130°-140° | 16.7   | 0.5       |
| 140°-150° | 2.8    | 0.1       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 708.7  | 20.4      |
| 0°-40°    | 1165.3 | 33.6      |
| 0°-60°    | 2133.7 | 61.4      |
| 0°-90°    | 3085.8 | 88.9      |
| 90°-120°  | 327.8  | 9.4       |
| 90°-150°  | 387.2  | 11.1      |
| 90°-180°  | 387.0  | 11.1      |
| 0°-180°   | 3473.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 910 | 910   | 910 | 910   | 910 |      |
| 5°   | 913 | 909   | 901 | 909   | 908 | 87   |
| 15°  | 871 | 873   | 873 | 885   | 884 | 245  |
| 25°  | 792 | 801   | 813 | 828   | 832 | 364  |
| 35°  | 682 | 704   | 730 | 758   | 768 | 426  |
| 45°  | 559 | 595   | 641 | 682   | 695 | 432  |
| 55°  | 429 | 476   | 545 | 592   | 609 | 383  |
| 65°  | 293 | 358   | 435 | 489   | 506 | 291  |
| 75°  | 162 | 236   | 320 | 377   | 394 | 172  |
| 85°  | 48  | 129   | 214 | 269   | 288 | 50   |
| 90°  | 13  | 90    | 174 | 227   | 243 | 9    |
| 95°  | 11  | 73    | 152 | 202   | 218 | 8    |
| 105° | 7   | 45    | 113 | 160   | 174 | 8    |
| 115° | 5   | 20    | 79  | 119   | 133 | 5    |
| 125° | 3   | 3     | 45  | 80    | 92  | 3    |
| 135° | 1   | 1     | 14  | 42    | 53  | 1    |
| 145° | 0   | 0     | 0   | 8     | 14  | 0    |
| 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°     | 910.2 | 910.2 | 910.2 | 910.2 | 910.2 |
| 2.5°   | 916.8 | 912.8 | 903.6 | 910.2 | 907.6 |
| 5°     | 912.8 | 908.9 | 901.0 | 908.9 | 907.6 |
| 7.5°   | 906.2 | 903.6 | 897.0 | 906.2 | 904.9 |
| 10°    | 898.3 | 895.7 | 891.7 | 902.3 | 901.0 |
| 12.5°  | 885.1 | 886.5 | 883.8 | 894.4 | 893.1 |
| 15°    | 870.6 | 873.3 | 873.3 | 885.1 | 883.8 |
| 17.5°  | 852.2 | 857.4 | 861.4 | 873.3 | 873.3 |
| 20°    | 833.7 | 840.3 | 845.6 | 860.1 | 860.1 |
| 22.5°  | 813.9 | 821.8 | 829.7 | 844.2 | 846.9 |
| 25°    | 791.5 | 800.7 | 812.6 | 828.4 | 832.4 |
| 27.5°  | 765.1 | 779.6 | 792.8 | 812.6 | 815.2 |
| 30°    | 738.7 | 755.9 | 773.0 | 794.1 | 798.1 |
| 32.5°  | 709.7 | 729.5 | 750.6 | 775.6 | 783.6 |
| 35°    | 682.0 | 704.4 | 729.5 | 758.5 | 767.7 |
| 37.5°  | 651.6 | 676.7 | 708.4 | 740.0 | 749.3 |
| 40°    | 621.3 | 650.3 | 685.9 | 720.2 | 732.1 |
| 42.5°  | 592.3 | 621.3 | 663.5 | 701.8 | 713.6 |
| 45°    | 559.3 | 594.9 | 641.1 | 682.0 | 695.2 |
| 47.5°  | 527.7 | 565.9 | 618.7 | 660.9 | 675.4 |
| 50°    | 494.7 | 535.6 | 594.9 | 639.8 | 654.3 |
| 52.5°  | 463.0 | 506.5 | 569.9 | 616.0 | 631.9 |
| 55°    | 428.7 | 476.2 | 544.8 | 592.3 | 609.4 |
| 57.5°  | 395.7 | 448.5 | 517.1 | 568.5 | 585.7 |
| 60°    | 360.1 | 416.8 | 492.0 | 542.2 | 560.6 |
| 62.5°  | 328.5 | 387.8 | 463.0 | 517.1 | 534.2 |
| 65°    | 292.8 | 357.5 | 435.3 | 489.4 | 506.5 |
| 67.5°  | 261.2 | 328.5 | 407.6 | 461.7 | 480.2 |
| 70°    | 226.9 | 295.5 | 377.3 | 434.0 | 449.8 |
| 72.5°  | 195.2 | 266.5 | 349.6 | 405.0 | 424.8 |
| 75°    | 162.3 | 236.1 | 320.5 | 377.3 | 394.4 |
| 77.5°  | 130.6 | 207.1 | 292.8 | 349.6 | 368.0 |
| 80°    | 98.9  | 179.4 | 265.1 | 320.5 | 339.0 |
| 82.5°  | 72.6  | 151.7 | 238.8 | 294.2 | 311.3 |
| 85°    | 47.5  | 129.3 | 213.7 | 269.1 | 287.6 |
| 87.5°  | 29.0  | 108.2 | 192.6 | 246.7 | 263.8 |
| 90°    | 13.2  | 89.7  | 174.1 | 226.9 | 242.7 |
| 92.5°  | 11.9  | 81.8  | 162.3 | 213.7 | 229.5 |
| 95°    | 10.6  | 72.6  | 151.7 | 201.8 | 217.7 |
| 97.5°  | 9.2   | 66.0  | 142.5 | 191.3 | 207.1 |
| 100°   | 9.2   | 58.0  | 131.9 | 180.7 | 195.2 |
| 102.5° | 7.9   | 51.4  | 122.7 | 170.2 | 184.7 |
| 105°   | 6.6   | 44.9  | 113.4 | 159.6 | 174.1 |
| 107.5° | 6.6   | 38.3  | 104.2 | 149.1 | 163.6 |
| 110°   | 5.3   | 31.7  | 96.3  | 138.5 | 153.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 5.3 | 26.4  | 87.1 | 129.3 | 143.8 |
| 115°   | 5.3 | 19.8  | 79.1 | 118.7 | 133.2 |
| 117.5° | 4.0 | 14.5  | 69.9 | 109.5 | 122.7 |
| 120°   | 4.0 | 9.2   | 62.0 | 98.9  | 113.4 |
| 122.5° | 4.0 | 5.3   | 54.1 | 89.7  | 101.6 |
| 125°   | 2.6 | 2.6   | 44.9 | 80.5  | 92.3  |
| 127.5° | 2.6 | 1.3   | 36.9 | 69.9  | 81.8  |
| 130°   | 2.6 | 1.3   | 29.0 | 60.7  | 71.2  |
| 132.5° | 2.6 | 1.3   | 21.1 | 51.4  | 62.0  |
| 135°   | 1.3 | 1.3   | 14.5 | 42.2  | 52.8  |
| 137.5° | 1.3 | 1.3   | 7.9  | 33.0  | 42.2  |
| 140°   | 1.3 | 0.0   | 2.6  | 23.7  | 31.7  |
| 142.5° | 1.3 | 0.0   | 0.0  | 15.8  | 22.4  |
| 145°   | 0.0 | 0.0   | 0.0  | 7.9   | 14.5  |
| 147.5° | 0.0 | 0.0   | 0.0  | 1.3   | 5.3   |
| 150°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 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)