

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: P987660

Luminaire Tested: S122DW-B675DB27-4F0-XX-W2A-F

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P987660  
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: S122DW-B675DB27-4F0-XX-W2A-F  
Description: Define 2 Direct Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

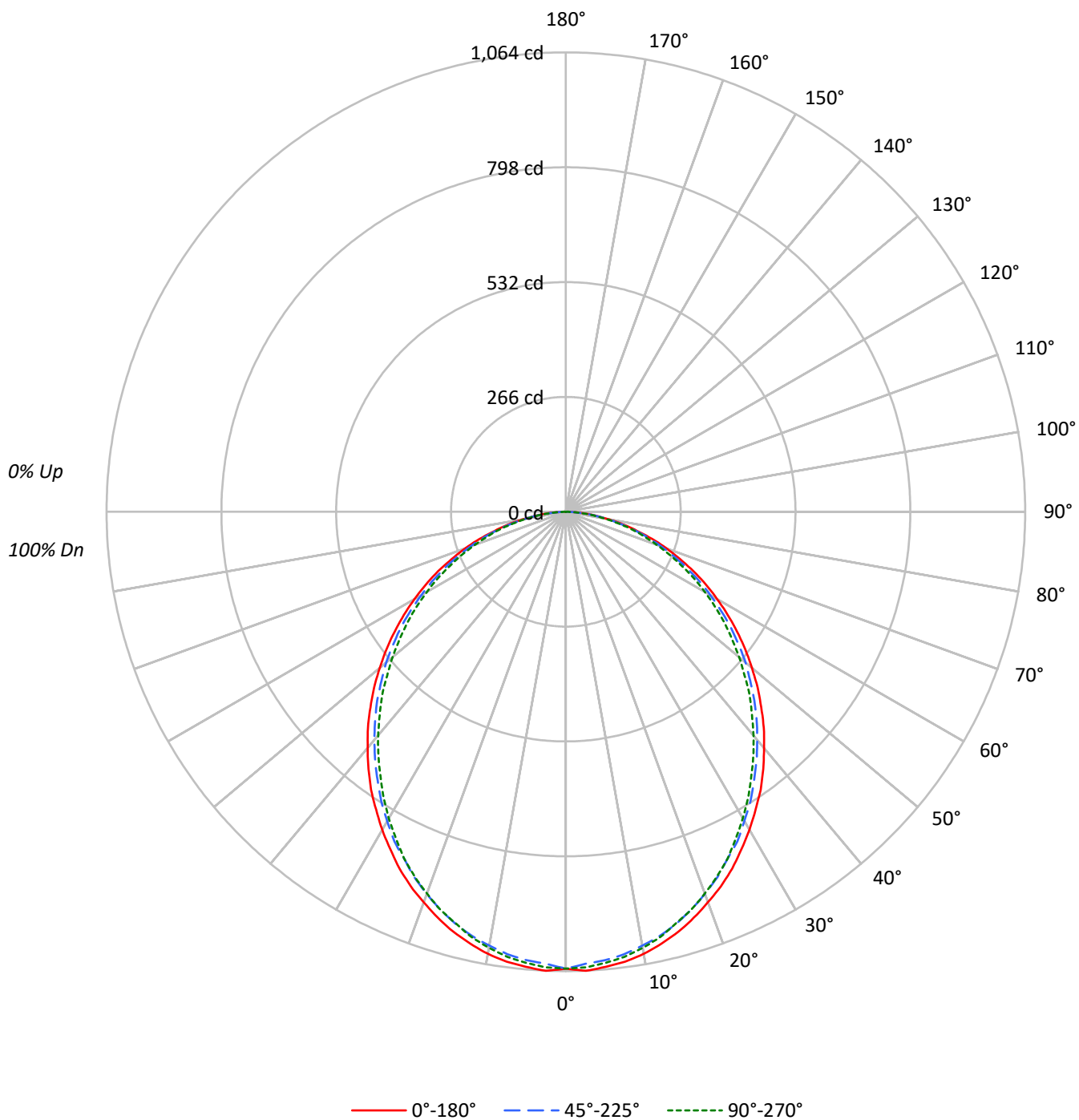
Lumens per Lamp: N/A  
Luminaire Lumens: 2692.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |
| 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°  | 16749 | 16749 | 16749 |
| 5°  | 16813 | 16570 | 16668 |
| 10° | 16713 | 16403 | 16485 |
| 15° | 16506 | 16189 | 16173 |
| 20° | 16213 | 15870 | 15853 |
| 25° | 15922 | 15478 | 15478 |
| 30° | 15547 | 15120 | 14988 |
| 35° | 15198 | 14686 | 14470 |
| 40° | 14758 | 14254 | 13981 |
| 45° | 14327 | 13826 | 13483 |
| 50° | 13855 | 13379 | 12904 |
| 55° | 13365 | 12860 | 12383 |
| 60° | 12819 | 12239 | 11790 |
| 65° | 12233 | 11622 | 11091 |
| 70° | 11487 | 10876 | 10358 |
| 75° | 10452 | 10018 | 9767  |
| 80° | 9271  | 8997  | 8532  |
| 85° | 7574  | 7210  | 6466  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14327 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.6   | 3.7       |
| 10°-20°   | 280.2  | 10.4      |
| 20°-30°   | 411.8  | 15.3      |
| 30°-40°   | 478.3  | 17.8      |
| 40°-50°   | 477.7  | 17.7      |
| 50°-60°   | 416.5  | 15.5      |
| 60°-70°   | 307.9  | 11.4      |
| 70°-80°   | 174.2  | 6.5       |
| 80°-90°   | 46.0   | 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°    | 791.6  | 29.4      |
| 0°-40°    | 1269.8 | 47.2      |
| 0°-60°    | 2164.0 | 80.4      |
| 0°-90°    | 2692.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2692.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1058 | 1058  | 1058 | 1058  | 1058 |      |
| 5°  | 1058 | 1054  | 1043 | 1051  | 1049 | 100  |
| 15° | 1007 | 1001  | 988  | 992   | 987  | 284  |
| 25° | 912  | 904   | 886  | 888   | 886  | 419  |
| 35° | 786  | 776   | 760  | 754   | 749  | 491  |
| 45° | 640  | 633   | 618  | 606   | 602  | 494  |
| 55° | 484  | 478   | 466  | 454   | 449  | 433  |
| 65° | 327  | 320   | 310  | 301   | 296  | 323  |
| 75° | 171  | 169   | 164  | 158   | 160  | 182  |
| 85° | 42   | 41    | 40   | 37    | 36   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1058.1 | 1058.1 | 1058.1 | 1058.1 | 1058.1 |
| 2.5°  | 1064.2 | 1059.1 | 1047.9 | 1058.1 | 1056.1 |
| 5°    | 1058.1 | 1054.0 | 1042.8 | 1051.0 | 1049.0 |
| 7.5°  | 1051.0 | 1044.9 | 1033.7 | 1041.8 | 1039.8 |
| 10°   | 1039.8 | 1032.7 | 1020.5 | 1028.6 | 1025.6 |
| 12.5° | 1024.5 | 1018.4 | 1006.2 | 1011.3 | 1009.3 |
| 15°   | 1007.2 | 1001.1 | 987.9  | 992.0  | 986.9  |
| 17.5° | 985.9  | 979.8  | 966.5  | 971.6  | 966.5  |
| 20°   | 962.5  | 956.4  | 942.1  | 945.2  | 941.1  |
| 22.5° | 939.1  | 929.9  | 916.7  | 916.7  | 914.7  |
| 25°   | 911.6  | 903.5  | 886.2  | 888.2  | 886.2  |
| 27.5° | 881.1  | 874.0  | 860.7  | 857.7  | 852.6  |
| 30°   | 850.6  | 842.4  | 827.2  | 824.1  | 820.0  |
| 32.5° | 818.0  | 811.9  | 795.6  | 789.5  | 785.4  |
| 35°   | 786.5  | 776.3  | 760.0  | 753.9  | 748.8  |
| 37.5° | 750.9  | 741.7  | 725.4  | 718.3  | 713.2  |
| 40°   | 714.2  | 706.1  | 689.8  | 680.6  | 676.6  |
| 42.5° | 678.6  | 670.5  | 654.2  | 644.0  | 637.9  |
| 45°   | 640.0  | 632.8  | 617.6  | 606.4  | 602.3  |
| 47.5° | 602.3  | 595.2  | 578.9  | 567.7  | 561.6  |
| 50°   | 562.6  | 557.5  | 543.3  | 529.1  | 524.0  |
| 52.5° | 524.0  | 516.8  | 503.6  | 492.4  | 485.3  |
| 55°   | 484.3  | 478.2  | 466.0  | 453.8  | 448.7  |
| 57.5° | 444.6  | 439.5  | 426.3  | 414.1  | 410.0  |
| 60°   | 404.9  | 400.9  | 386.6  | 375.4  | 372.4  |
| 62.5° | 366.3  | 359.1  | 349.0  | 338.8  | 334.7  |
| 65°   | 326.6  | 320.5  | 310.3  | 301.2  | 296.1  |
| 67.5° | 285.9  | 280.8  | 271.6  | 264.5  | 260.5  |
| 70°   | 248.2  | 244.2  | 235.0  | 227.9  | 223.8  |
| 72.5° | 209.6  | 205.5  | 200.4  | 193.3  | 190.3  |
| 75°   | 170.9  | 168.9  | 163.8  | 157.7  | 159.7  |
| 77.5° | 136.3  | 132.3  | 130.2  | 127.2  | 124.1  |
| 80°   | 101.7  | 100.7  | 98.7   | 95.6   | 93.6   |
| 82.5° | 69.2   | 69.2   | 68.2   | 64.1   | 64.1   |
| 85°   | 41.7   | 40.7   | 39.7   | 36.6   | 35.6   |
| 87.5° | 18.3   | 16.3   | 14.2   | 11.2   | 10.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)