

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: PORTFOLIO

Report Number: P1179304

Luminaire Tested: LDA2B158050R2060D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B158050R2060D010 2LBD1MB  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

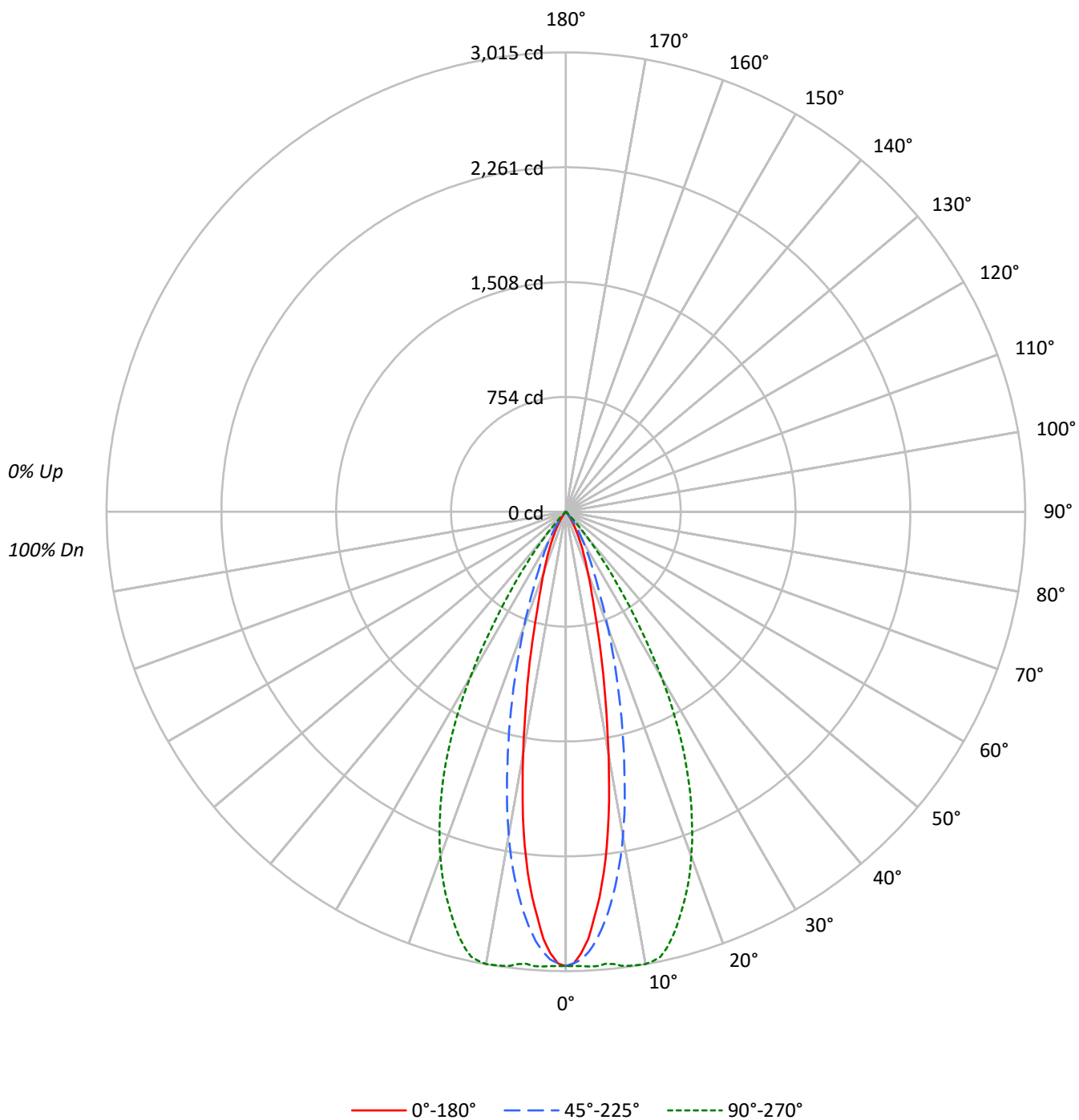
Lumens per Lamp: N/A  
Luminaire Lumens: 1187.5 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 93  | 92  | 92  | 92  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 87  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 79  | 79  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 76  | 76  | 76  | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 72  | 72  | 71  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 70  | 66  | 64  | 64  | 64  | 62  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1470958 | 1470958 | 1470958 |
| 5°  | 1256143 | 1357767 | 1475141 |
| 10° | 808720  | 1082402 | 1510332 |
| 15° | 414844  | 721916  | 1437244 |
| 20° | 221560  | 421857  | 1264154 |
| 25° | 123516  | 231300  | 1028250 |
| 30° | 65856   | 131711  | 716322  |
| 35° | 28729   | 63541   | 373416  |
| 40° | 8372    | 18613   | 141495  |
| 45° | 2023    | 5024    | 21141   |
| 50° | 1075    | 1075    | 2226    |
| 55° | 1204    | 1204    | 1204    |
| 60° | 0       | 1381    | 1381    |
| 65° | 0       | 1634    | 1634    |
| 70° | 0       | 2019    | 2019    |
| 75° | 0       | 2669    | 2669    |
| 80° | 0       | 3978    | 3978    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 21141 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 246.1  | 20.7      |
| 10°-20°   | 448.0  | 37.7      |
| 20°-30°   | 339.6  | 28.6      |
| 30°-40°   | 135.9  | 11.4      |
| 40°-50°   | 13.8   | 1.2       |
| 50°-60°   | 1.4    | 0.1       |
| 60°-70°   | 1.2    | 0.1       |
| 70°-80°   | 1.2    | 0.1       |
| 80°-90°   | 0.4    | 0.0       |
| 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°    | 1033.6 | 87.0      |
| 0°-40°    | 1169.5 | 98.5      |
| 0°-60°    | 1184.6 | 99.8      |
| 0°-90°    | 1187.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1187.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2982 | 2982  | 2982 | 2982  | 2982 |      |
| 5°  | 2536 | 2593  | 2742 | 2901  | 2979 | 212  |
| 15° | 812  | 942   | 1413 | 2327  | 2814 | 232  |
| 25° | 227  | 264   | 425  | 1214  | 1889 | 108  |
| 35° | 48   | 59    | 106  | 321   | 620  | 33   |
| 45° | 3    | 4     | 7    | 14    | 30   | 3    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 0    | 1     | 1    | 1     | 1    | 0    |
| 75° | 0    | 1     | 1    | 1     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2981.5 | 2981.5 | 2981.5 | 2981.5 | 2981.5 |
| 1°    | 2965.6 | 2967.1 | 2964.2 | 2968.5 | 2983.0 |
| 2°    | 2899.1 | 2920.8 | 2939.6 | 2958.4 | 2983.0 |
| 3°    | 2806.6 | 2832.7 | 2891.9 | 2951.2 | 2988.7 |
| 4°    | 2670.8 | 2724.3 | 2825.4 | 2933.8 | 2988.7 |
| 5°    | 2536.4 | 2592.7 | 2741.6 | 2900.6 | 2978.6 |
| 6°    | 2383.2 | 2464.1 | 2644.8 | 2868.8 | 2984.4 |
| 7°    | 2209.8 | 2309.5 | 2537.8 | 2848.6 | 3001.7 |
| 8°    | 2021.9 | 2134.6 | 2420.8 | 2805.2 | 3009.0 |
| 9°    | 1813.8 | 1951.1 | 2296.5 | 2753.2 | 3011.9 |
| 10°   | 1614.3 | 1758.8 | 2160.6 | 2693.9 | 3014.8 |
| 11°   | 1414.9 | 1565.2 | 2013.2 | 2636.1 | 3003.2 |
| 12°   | 1245.8 | 1388.9 | 1858.6 | 2575.4 | 2985.9 |
| 13°   | 1089.7 | 1228.4 | 1705.4 | 2503.1 | 2941.0 |
| 14°   | 945.2  | 1081.0 | 1558.0 | 2419.3 | 2881.8 |
| 15°   | 812.2  | 942.3  | 1413.4 | 2326.8 | 2813.9 |
| 16°   | 692.3  | 813.7  | 1274.7 | 2224.2 | 2738.7 |
| 17°   | 605.6  | 702.4  | 1144.6 | 2115.8 | 2665.0 |
| 18°   | 537.6  | 609.9  | 1021.8 | 2008.9 | 2587.0 |
| 19°   | 476.9  | 534.7  | 907.6  | 1897.6 | 2500.3 |
| 20°   | 422.0  | 474.0  | 803.5  | 1782.0 | 2407.8 |
| 21°   | 375.8  | 420.6  | 706.7  | 1667.8 | 2313.8 |
| 22°   | 335.3  | 374.3  | 620.0  | 1555.1 | 2211.2 |
| 23°   | 297.7  | 332.4  | 546.3  | 1440.9 | 2108.6 |
| 24°   | 261.6  | 299.2  | 481.3  | 1325.3 | 2001.6 |
| 25°   | 226.9  | 264.5  | 424.9  | 1214.0 | 1888.9 |
| 26°   | 199.4  | 234.1  | 377.2  | 1105.6 | 1771.9 |
| 27°   | 172.0  | 208.1  | 335.3  | 1001.5 | 1653.3 |
| 28°   | 150.3  | 183.5  | 297.7  | 901.8  | 1524.7 |
| 29°   | 130.1  | 161.9  | 263.0  | 803.5  | 1393.2 |
| 30°   | 115.6  | 140.2  | 231.2  | 711.1  | 1257.4 |
| 32.5° | 79.5   | 93.9   | 161.9  | 500.1  | 917.7  |
| 35°   | 47.7   | 59.3   | 105.5  | 320.8  | 620.0  |
| 37.5° | 26.0   | 31.8   | 60.7   | 192.2  | 390.2  |
| 40°   | 13.0   | 15.9   | 28.9   | 93.9   | 219.7  |
| 42.5° | 5.8    | 7.2    | 13.0   | 36.1   | 93.9   |
| 45°   | 2.9    | 4.3    | 7.2    | 14.5   | 30.3   |
| 47.5° | 1.4    | 2.9    | 2.9    | 5.8    | 8.7    |
| 50°   | 1.4    | 1.4    | 1.4    | 2.9    | 2.9    |
| 52.5° | 1.4    | 1.4    | 1.4    | 2.9    | 2.9    |
| 55°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 57.5° | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 60°   | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 62.5° | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 65°   | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.4   | 1.4 | 1.4   | 1.4 |
| 70°   | 0.0 | 1.4   | 1.4 | 1.4   | 1.4 |
| 72.5° | 0.0 | 1.4   | 1.4 | 1.4   | 1.4 |
| 75°   | 0.0 | 1.4   | 1.4 | 1.4   | 1.4 |
| 77.5° | 0.0 | 1.4   | 1.4 | 1.4   | 1.4 |
| 80°   | 0.0 | 0.0   | 1.4 | 1.4   | 1.4 |
| 82.5° | 0.0 | 0.0   | 1.4 | 1.4   | 1.4 |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 87.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 90°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)