

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: P1178863

Luminaire Tested: LDA2B109027R2050D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B109027R2050D010 2LBD1H  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

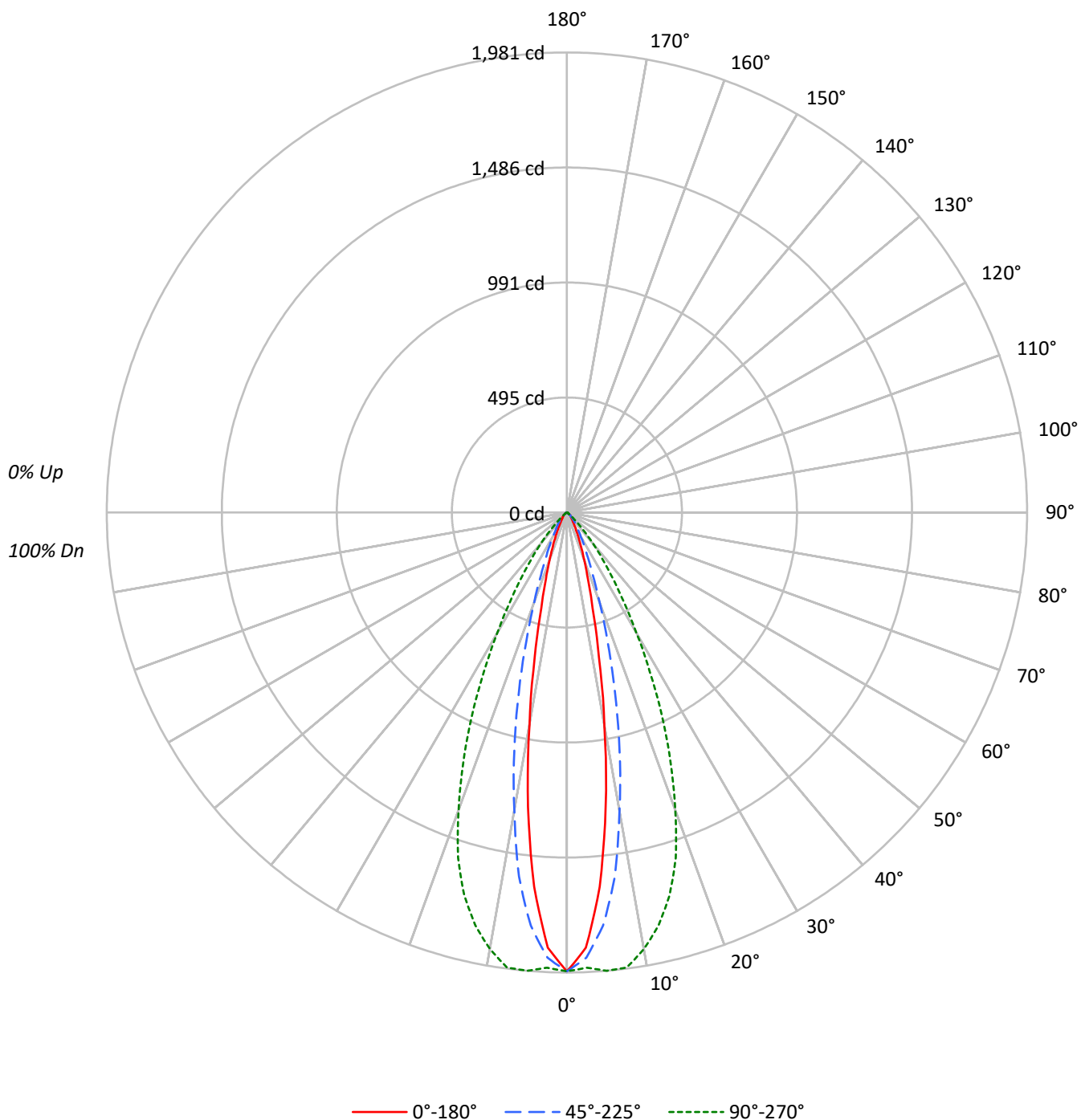
Lumens per Lamp: N/A  
Luminaire Lumens: 710.2 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 90  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 78  | 78  | 78  | 76  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 74  | 73  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 71  | 71  | 70  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 68  | 68  | 67  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 65  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 65  | 62  | 69  | 65  | 62  | 62  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 974784 | 974784 | 974784 |
| 5°  | 801408 | 884262 | 980934 |
| 10° | 465203 | 653419 | 956357 |
| 15° | 216718 | 406927 | 871571 |
| 20° | 114193 | 214578 | 716344 |
| 25° | 63255  | 116167 | 528360 |
| 30° | 37087  | 68077  | 341697 |
| 35° | 23790  | 45653  | 202488 |
| 40° | 18548  | 30785  | 112513 |
| 45° | 16117  | 18420  | 50026  |
| 50° | 14583  | 12664  | 18344  |
| 55° | 9892   | 9204   | 8515   |
| 60° | 7302   | 6512   | 6512   |
| 65° | 5720   | 4786   | 5720   |
| 70° | 4760   | 4760   | 4760   |
| 75° | 4766   | 4766   | 4766   |
| 80° | 4546   | 4546   | 4546   |
| 85° | 4529   | 4529   | 4529   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 50026 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.3  | 22.2      |
| 10°-20°   | 257.6  | 36.3      |
| 20°-30°   | 171.8  | 24.2      |
| 30°-40°   | 77.5   | 10.9      |
| 40°-50°   | 28.4   | 4.0       |
| 50°-60°   | 9.9    | 1.4       |
| 60°-70°   | 4.6    | 0.7       |
| 70°-80°   | 2.4    | 0.3       |
| 80°-90°   | 0.7    | 0.1       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 586.7  | 82.6      |
| 0°-40°    | 664.2  | 93.5      |
| 0°-60°    | 702.5  | 98.9      |
| 0°-90°    | 710.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 710.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1976 | 1976  | 1976 | 1976  | 1976 |      |
| 5°  | 1618 | 1668  | 1786 | 1916  | 1981 | 132  |
| 15° | 424  | 498   | 797  | 1346  | 1706 | 127  |
| 25° | 116  | 135   | 213  | 582   | 971  | 56   |
| 35° | 40   | 44    | 76   | 164   | 336  | 26   |
| 45° | 23   | 23    | 26   | 41    | 72   | 18   |
| 55° | 12   | 11    | 11   | 9     | 10   | 11   |
| 65° | 5    | 5     | 4    | 4     | 5    | 5    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1975.8 | 1975.8 | 1975.8 | 1975.8 | 1975.8 |
| 2.5°  | 1876.1 | 1895.9 | 1918.9 | 1942.8 | 1961.8 |
| 5°    | 1618.2 | 1668.5 | 1785.5 | 1915.6 | 1980.7 |
| 7.5°  | 1279.6 | 1353.7 | 1581.1 | 1838.2 | 1975.8 |
| 10°   | 928.6  | 1023.3 | 1304.3 | 1703.9 | 1909.0 |
| 12.5° | 638.5  | 727.5  | 1046.4 | 1534.2 | 1820.9 |
| 15°   | 424.3  | 498.5  | 796.7  | 1346.3 | 1706.4 |
| 17.5° | 299.1  | 349.3  | 579.2  | 1141.1 | 1558.9 |
| 20°   | 217.5  | 251.3  | 408.7  | 940.1  | 1364.4 |
| 22.5° | 158.2  | 183.7  | 290.8  | 751.4  | 1167.5 |
| 25°   | 116.2  | 135.1  | 213.4  | 581.7  | 970.6  |
| 27.5° | 86.5   | 101.3  | 159.8  | 441.6  | 773.7  |
| 30°   | 65.1   | 77.4   | 119.5  | 325.5  | 599.8  |
| 32.5° | 50.3   | 58.5   | 91.5   | 232.3  | 454.0  |
| 35°   | 39.5   | 44.5   | 75.8   | 164.0  | 336.2  |
| 37.5° | 33.0   | 36.3   | 62.6   | 114.5  | 246.4  |
| 40°   | 28.8   | 31.3   | 47.8   | 81.6   | 174.7  |
| 42.5° | 25.5   | 27.2   | 34.6   | 58.5   | 113.7  |
| 45°   | 23.1   | 23.1   | 26.4   | 41.2   | 71.7   |
| 47.5° | 21.4   | 19.0   | 20.6   | 28.8   | 42.0   |
| 50°   | 19.0   | 15.7   | 16.5   | 19.8   | 23.9   |
| 52.5° | 14.8   | 13.2   | 13.2   | 13.2   | 14.0   |
| 55°   | 11.5   | 10.7   | 10.7   | 9.1    | 9.9    |
| 57.5° | 9.1    | 9.1    | 8.2    | 7.4    | 8.2    |
| 60°   | 7.4    | 7.4    | 6.6    | 5.8    | 6.6    |
| 62.5° | 5.8    | 5.8    | 4.9    | 4.9    | 5.8    |
| 65°   | 4.9    | 4.9    | 4.1    | 4.1    | 4.9    |
| 67.5° | 4.1    | 4.1    | 4.1    | 3.3    | 4.1    |
| 70°   | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 72.5° | 2.5    | 2.5    | 3.3    | 2.5    | 2.5    |
| 75°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 77.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 80°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)