

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: P1178618

Luminaire Tested: LDA2B108027R2040D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B108027R2040D010 2LBD1GPH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

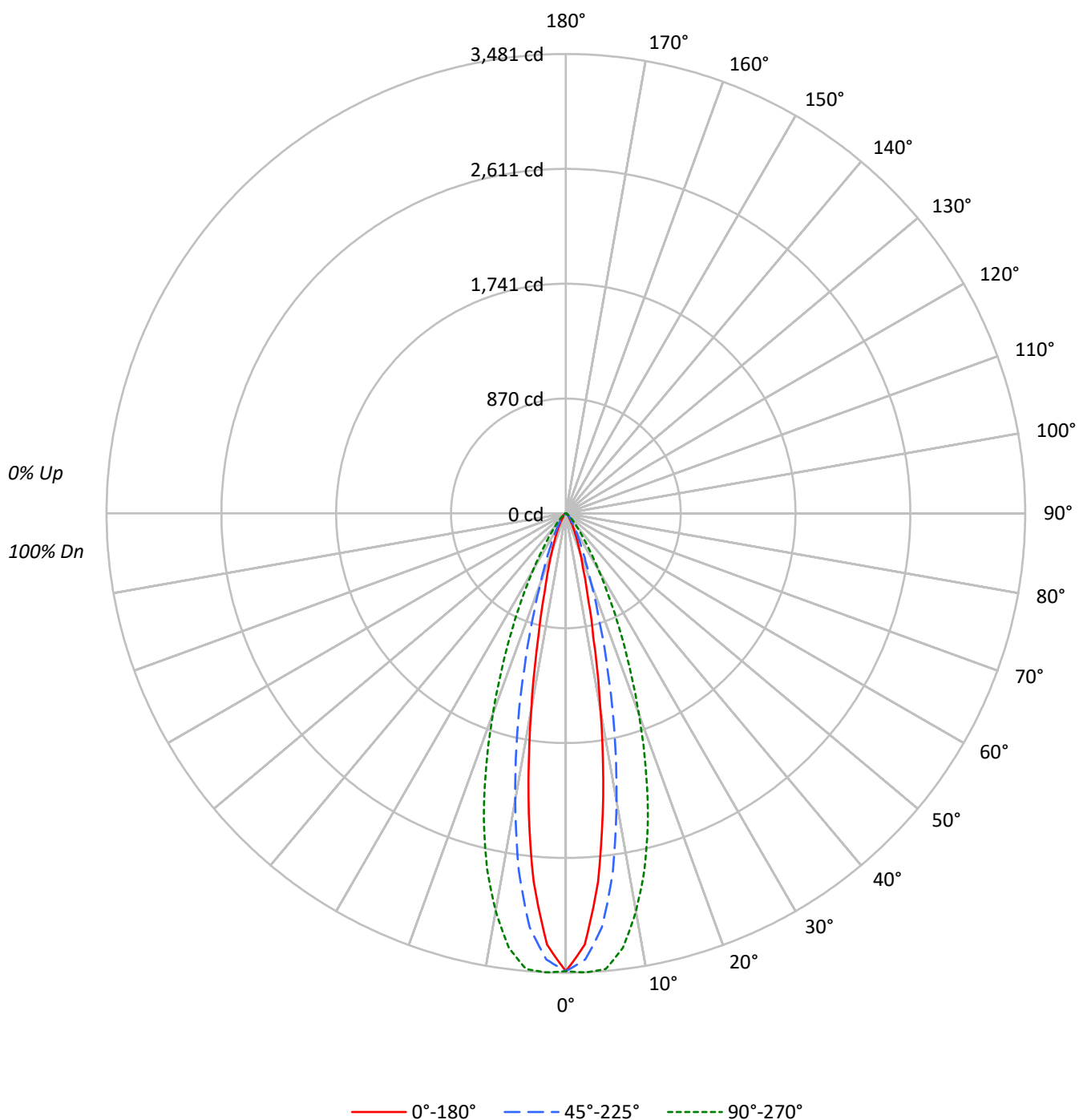
Lumens per Lamp: N/A  
Luminaire Lumens: 977.9 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 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  | 94  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 81  | 81  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 69  | 67  | 67  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1711867 | 1711867 | 1711867 |
| 5°  | 1387581 | 1558491 | 1716326 |
| 10° | 754415  | 1106498 | 1532626 |
| 15° | 319075  | 620938  | 1226757 |
| 20° | 162915  | 291966  | 848230  |
| 25° | 90201   | 149374  | 517037  |
| 30° | 50474   | 82946   | 281937  |
| 35° | 29211   | 50230   | 143645  |
| 40° | 21768   | 38063   | 79539   |
| 45° | 19117   | 25746   | 47096   |
| 50° | 20263   | 17039   | 25098   |
| 55° | 14537   | 11784   | 13590   |
| 60° | 9374    | 8288    | 8288    |
| 65° | 7355    | 7355    | 7355    |
| 70° | 6058    | 6058    | 6058    |
| 75° | 6100    | 6100    | 6100    |
| 80° | 5966    | 5966    | 5966    |
| 85° | 6227    | 6227    | 6227    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47096 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.4  | 27.6      |
| 10°-20°   | 382.3  | 39.1      |
| 20°-30°   | 196.9  | 20.1      |
| 30°-40°   | 72.5   | 7.4       |
| 40°-50°   | 31.8   | 3.3       |
| 50°-60°   | 14.0   | 1.4       |
| 60°-70°   | 6.1    | 0.6       |
| 70°-80°   | 3.1    | 0.3       |
| 80°-90°   | 0.9    | 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       |
| 0°-30°    | 849.6  | 86.9      |
| 0°-40°    | 922.1  | 94.3      |
| 0°-60°    | 967.9  | 99.0      |
| 0°-90°    | 977.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 977.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3470 | 3470  | 3470 | 3470  | 3470 |      |
| 5°  | 2802 | 2897  | 3147 | 3370  | 3466 | 225  |
| 15° | 625  | 726   | 1216 | 2028  | 2402 | 191  |
| 25° | 166  | 186   | 274  | 630   | 950  | 80   |
| 35° | 48   | 56    | 83   | 146   | 238  | 33   |
| 45° | 27   | 32    | 37   | 44    | 68   | 22   |
| 55° | 17   | 15    | 14   | 15    | 16   | 15   |
| 65° | 6    | 6     | 6    | 5     | 6    | 6    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 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°    | 3469.8 | 3469.8 | 3469.8 | 3469.8 | 3469.8 |
| 2.5°  | 3271.4 | 3310.4 | 3383.3 | 3452.9 | 3481.4 |
| 5°    | 2801.8 | 2896.8 | 3146.9 | 3369.5 | 3465.6 |
| 7.5°  | 2169.7 | 2325.9 | 2731.1 | 3147.9 | 3318.9 |
| 10°   | 1505.9 | 1664.2 | 2208.7 | 2808.1 | 3059.3 |
| 12.5° | 960.3  | 1114.4 | 1702.2 | 2431.4 | 2757.5 |
| 15°   | 624.7  | 726.0  | 1215.7 | 2028.3 | 2401.8 |
| 17.5° | 433.7  | 505.5  | 827.3  | 1600.9 | 2008.2 |
| 20°   | 310.3  | 360.9  | 556.1  | 1221.0 | 1615.6 |
| 22.5° | 224.8  | 259.6  | 386.2  | 891.7  | 1255.8 |
| 25°   | 165.7  | 185.7  | 274.4  | 630.0  | 949.8  |
| 27.5° | 122.4  | 135.1  | 198.4  | 434.8  | 694.4  |
| 30°   | 88.6   | 99.2   | 145.6  | 298.6  | 494.9  |
| 32.5° | 64.4   | 73.9   | 108.7  | 206.8  | 345.1  |
| 35°   | 48.5   | 55.9   | 83.4   | 145.6  | 238.5  |
| 37.5° | 40.1   | 44.3   | 68.6   | 105.5  | 168.8  |
| 40°   | 33.8   | 38.0   | 59.1   | 78.1   | 123.5  |
| 42.5° | 29.5   | 34.8   | 48.5   | 58.0   | 92.9   |
| 45°   | 27.4   | 31.7   | 36.9   | 44.3   | 67.5   |
| 47.5° | 27.4   | 26.4   | 28.5   | 33.8   | 47.5   |
| 50°   | 26.4   | 22.2   | 22.2   | 26.4   | 32.7   |
| 52.5° | 22.2   | 17.9   | 17.9   | 19.0   | 22.2   |
| 55°   | 16.9   | 14.8   | 13.7   | 14.8   | 15.8   |
| 57.5° | 12.7   | 12.7   | 11.6   | 10.6   | 11.6   |
| 60°   | 9.5    | 9.5    | 8.4    | 8.4    | 8.4    |
| 62.5° | 7.4    | 7.4    | 7.4    | 6.3    | 7.4    |
| 65°   | 6.3    | 6.3    | 6.3    | 5.3    | 6.3    |
| 67.5° | 5.3    | 5.3    | 4.2    | 5.3    | 5.3    |
| 70°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 72.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 75°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 77.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 80°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 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)