

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: P1178504

Luminaire Tested: LDA2B059050R2040D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178504  
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: LDA2B059050R2040D010 2LBD1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

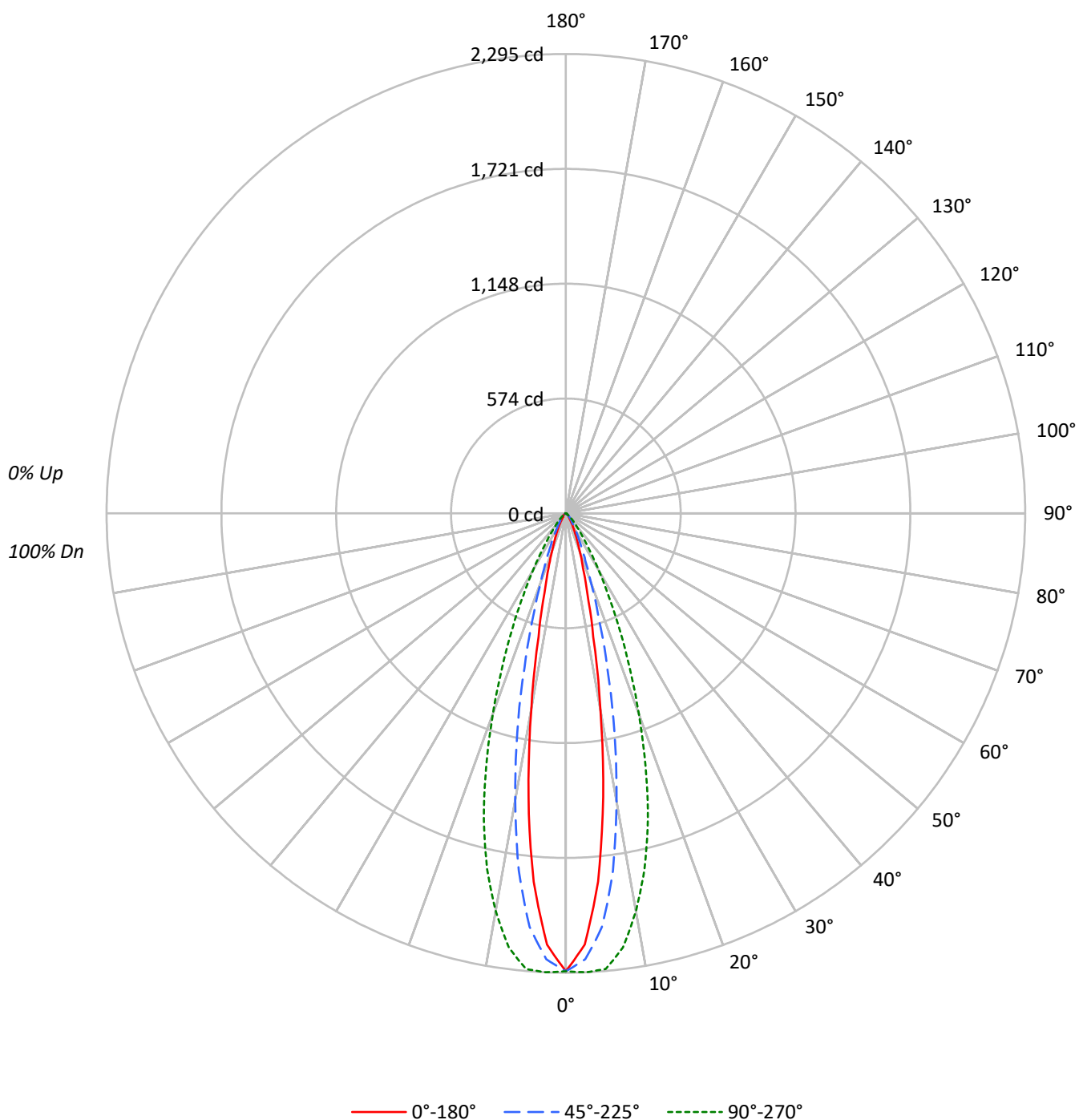
Lumens per Lamp: N/A  
Luminaire Lumens: 644.7 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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°  | 1128417 | 1128417 | 1128417 |
| 5°  | 914670  | 1027290 | 1131341 |
| 10° | 497316  | 729366  | 1010262 |
| 15° | 210333  | 409328  | 808644  |
| 20° | 107368  | 192474  | 559151  |
| 25° | 59445   | 98476   | 340827  |
| 30° | 33270   | 54690   | 185831  |
| 35° | 19273   | 33126   | 94679   |
| 40° | 14362   | 25117   | 52425   |
| 45° | 12629   | 16955   | 31048   |
| 50° | 13355   | 11206   | 16579   |
| 55° | 9548    | 7741    | 8946    |
| 60° | 6216    | 5526    | 5526    |
| 65° | 4903    | 4903    | 4903    |
| 70° | 4039    | 4039    | 4039    |
| 75° | 4003    | 4003    | 4003    |
| 80° | 3978    | 3978    | 3978    |
| 85° | 3962    | 3962    | 3962    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 31048 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 178.2  | 27.6      |
| 10°-20°   | 252.0  | 39.1      |
| 20°-30°   | 129.8  | 20.1      |
| 30°-40°   | 47.8   | 7.4       |
| 40°-50°   | 21.0   | 3.3       |
| 50°-60°   | 9.2    | 1.4       |
| 60°-70°   | 4.1    | 0.6       |
| 70°-80°   | 2.0    | 0.3       |
| 80°-90°   | 0.6    | 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°    | 560.1  | 86.9      |
| 0°-40°    | 607.8  | 94.3      |
| 0°-60°    | 638.0  | 99.0      |
| 0°-90°    | 644.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 644.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2287 | 2287  | 2287 | 2287  | 2287 |      |
| 5°  | 1847 | 1910  | 2074 | 2221  | 2284 | 149  |
| 15° | 412  | 479   | 801  | 1337  | 1583 | 126  |
| 25° | 109  | 122   | 181  | 415   | 626  | 52   |
| 35° | 32   | 37    | 55   | 96    | 157  | 22   |
| 45° | 18   | 21    | 24   | 29    | 44   | 15   |
| 55° | 11   | 10    | 9    | 10    | 10   | 10   |
| 65° | 4    | 4     | 4    | 4     | 4    | 4    |
| 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°    | 2287.2 | 2287.2 | 2287.2 | 2287.2 | 2287.2 |
| 2.5°  | 2156.4 | 2182.2 | 2230.2 | 2276.1 | 2294.9 |
| 5°    | 1846.9 | 1909.5 | 2074.3 | 2221.1 | 2284.4 |
| 7.5°  | 1430.2 | 1533.2 | 1800.3 | 2075.0 | 2187.7 |
| 10°   | 992.7  | 1097.0 | 1455.9 | 1851.1 | 2016.6 |
| 12.5° | 633.0  | 734.6  | 1122.0 | 1602.7 | 1817.7 |
| 15°   | 411.8  | 478.6  | 801.4  | 1337.0 | 1583.2 |
| 17.5° | 285.9  | 333.2  | 545.4  | 1055.3 | 1323.8 |
| 20°   | 204.5  | 237.9  | 366.6  | 804.8  | 1065.0 |
| 22.5° | 148.2  | 171.1  | 254.6  | 587.8  | 827.8  |
| 25°   | 109.2  | 122.4  | 180.9  | 415.3  | 626.1  |
| 27.5° | 80.7   | 89.0   | 130.8  | 286.6  | 457.7  |
| 30°   | 58.4   | 65.4   | 96.0   | 196.9  | 326.2  |
| 32.5° | 42.4   | 48.7   | 71.6   | 136.3  | 227.5  |
| 35°   | 32.0   | 36.9   | 55.0   | 96.0   | 157.2  |
| 37.5° | 26.4   | 29.2   | 45.2   | 69.6   | 111.3  |
| 40°   | 22.3   | 25.0   | 39.0   | 51.5   | 81.4   |
| 42.5° | 19.5   | 23.0   | 32.0   | 38.3   | 61.2   |
| 45°   | 18.1   | 20.9   | 24.3   | 29.2   | 44.5   |
| 47.5° | 18.1   | 17.4   | 18.8   | 22.3   | 31.3   |
| 50°   | 17.4   | 14.6   | 14.6   | 17.4   | 21.6   |
| 52.5° | 14.6   | 11.8   | 11.8   | 12.5   | 14.6   |
| 55°   | 11.1   | 9.7    | 9.0    | 9.7    | 10.4   |
| 57.5° | 8.3    | 8.3    | 7.7    | 7.0    | 7.7    |
| 60°   | 6.3    | 6.3    | 5.6    | 5.6    | 5.6    |
| 62.5° | 4.9    | 4.9    | 4.9    | 4.2    | 4.9    |
| 65°   | 4.2    | 4.2    | 4.2    | 3.5    | 4.2    |
| 67.5° | 3.5    | 3.5    | 2.8    | 3.5    | 3.5    |
| 70°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 72.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 75°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 77.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)