

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: P1179934

Luminaire Tested: LDA2B209035R2040D010 2LBD1B

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179934  
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: LDA2B209035R2040D010 2LBD1B  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

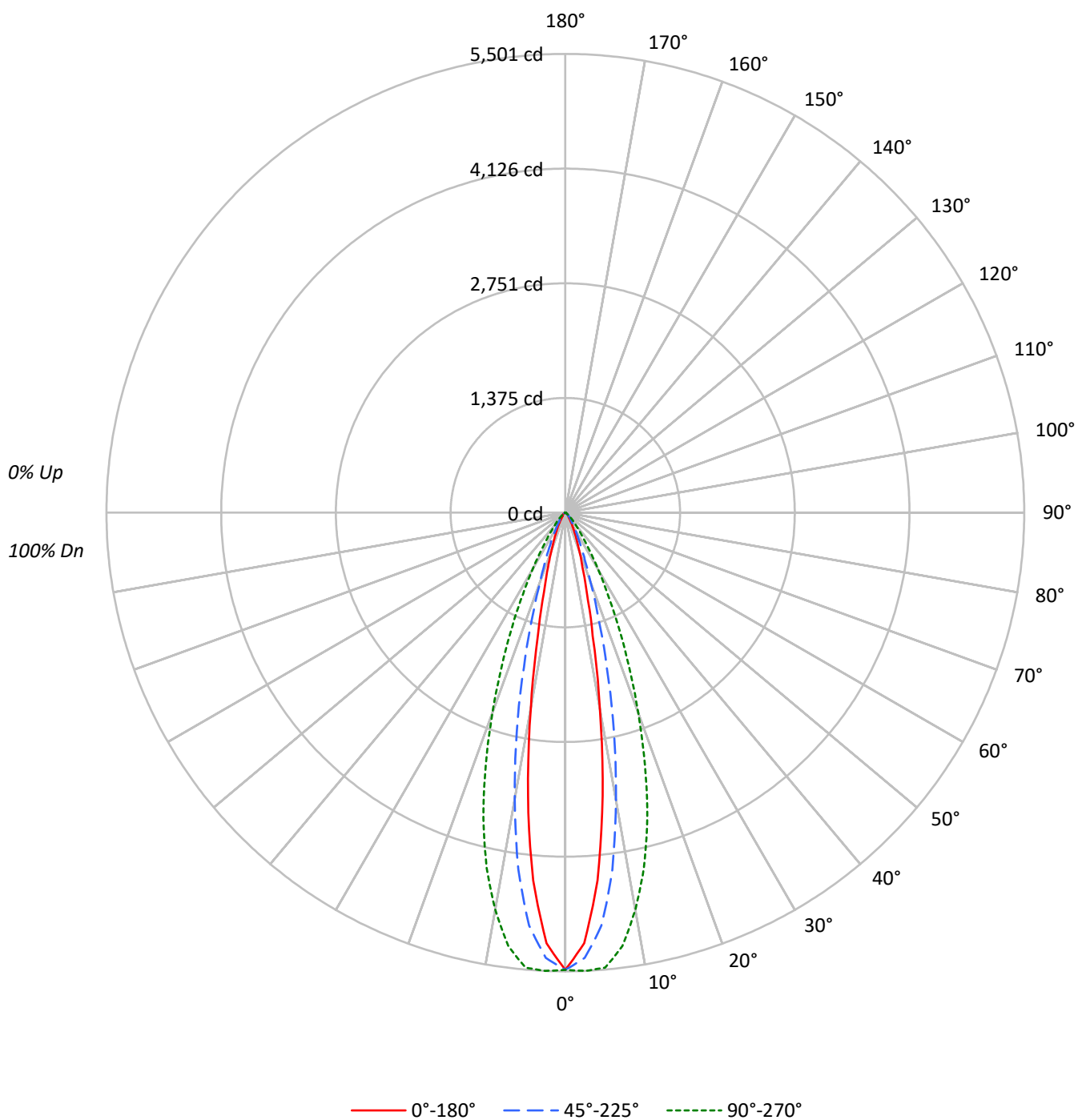
Lumens per Lamp: N/A  
Luminaire Lumens: 1545.1 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 86  | 83  | 81  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 70  | 67  |  | 73  | 69  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2704757 | 2704757 | 2704757 |
| 5°  | 2192406 | 2462414 | 2711820 |
| 10° | 1191964 | 1748294 | 2421552 |
| 15° | 504177  | 981079  | 1938356 |
| 20° | 257367  | 461339  | 1340283 |
| 25° | 142515  | 235982  | 816873  |
| 30° | 79813   | 131085  | 445494  |
| 35° | 46195   | 79321   | 226940  |
| 40° | 34392   | 60153   | 125652  |
| 45° | 30281   | 40747   | 74447   |
| 50° | 32006   | 26864   | 39682   |
| 55° | 22966   | 18665   | 21504   |
| 60° | 14801   | 13123   | 13123   |
| 65° | 11674   | 11674   | 11674   |
| 70° | 9665    | 9665    | 9665    |
| 75° | 9531    | 9531    | 9531    |
| 80° | 9376    | 9376    | 9376    |
| 85° | 9623    | 9623    | 9623    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 74447 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 427.2  | 27.6      |
| 10°-20°   | 604.1  | 39.1      |
| 20°-30°   | 311.2  | 20.1      |
| 30°-40°   | 114.5  | 7.4       |
| 40°-50°   | 50.3   | 3.3       |
| 50°-60°   | 22.0   | 1.4       |
| 60°-70°   | 9.7    | 0.6       |
| 70°-80°   | 4.8    | 0.3       |
| 80°-90°   | 1.4    | 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°    | 1342.4 | 86.9      |
| 0°-40°    | 1456.9 | 94.3      |
| 0°-60°    | 1529.3 | 99.0      |
| 0°-90°    | 1545.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1545.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5482 | 5482  | 5482 | 5482  | 5482 |      |
| 5°  | 4427 | 4577  | 4972 | 5324  | 5476 | 356  |
| 15° | 987  | 1147  | 1921 | 3205  | 3795 | 302  |
| 25° | 262  | 294   | 434  | 995   | 1501 | 126  |
| 35° | 77   | 88    | 132  | 230   | 377  | 52   |
| 45° | 43   | 50    | 58   | 70    | 107  | 35   |
| 55° | 27   | 23    | 22   | 23    | 25   | 24   |
| 65° | 10   | 10    | 10   | 8     | 10   | 10   |
| 75° | 5    | 5     | 5    | 5     | 5    | 5    |
| 85° | 2    | 2     | 2    | 2     | 2    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 |
| 2.5°  | 5168.9 | 5230.6 | 5345.6 | 5455.7 | 5500.7 |
| 5°    | 4426.9 | 4577.0 | 4972.1 | 5323.9 | 5475.7 |
| 7.5°  | 3428.1 | 3674.9 | 4315.2 | 4973.8 | 5243.9 |
| 10°   | 2379.3 | 2629.5 | 3489.8 | 4436.9 | 4833.7 |
| 12.5° | 1517.3 | 1760.8 | 2689.5 | 3841.6 | 4356.9 |
| 15°   | 987.1  | 1147.2 | 1920.8 | 3204.7 | 3795.0 |
| 17.5° | 685.3  | 798.7  | 1307.2 | 2529.4 | 3173.0 |
| 20°   | 490.2  | 570.2  | 878.7  | 1929.2 | 2552.8 |
| 22.5° | 355.2  | 410.2  | 610.3  | 1408.9 | 1984.2 |
| 25°   | 261.8  | 293.5  | 433.5  | 995.4  | 1500.6 |
| 27.5° | 193.4  | 213.4  | 313.5  | 687.0  | 1097.1 |
| 30°   | 140.1  | 156.7  | 230.1  | 471.9  | 782.0  |
| 32.5° | 101.7  | 116.7  | 171.7  | 326.8  | 545.2  |
| 35°   | 76.7   | 88.4   | 131.7  | 230.1  | 376.8  |
| 37.5° | 63.4   | 70.0   | 108.4  | 166.7  | 266.8  |
| 40°   | 53.4   | 60.0   | 93.4   | 123.4  | 195.1  |
| 42.5° | 46.7   | 55.0   | 76.7   | 91.7   | 146.7  |
| 45°   | 43.4   | 50.0   | 58.4   | 70.0   | 106.7  |
| 47.5° | 43.4   | 41.7   | 45.0   | 53.4   | 75.0   |
| 50°   | 41.7   | 35.0   | 35.0   | 41.7   | 51.7   |
| 52.5° | 35.0   | 28.3   | 28.3   | 30.0   | 35.0   |
| 55°   | 26.7   | 23.3   | 21.7   | 23.3   | 25.0   |
| 57.5° | 20.0   | 20.0   | 18.3   | 16.7   | 18.3   |
| 60°   | 15.0   | 15.0   | 13.3   | 13.3   | 13.3   |
| 62.5° | 11.7   | 11.7   | 11.7   | 10.0   | 11.7   |
| 65°   | 10.0   | 10.0   | 10.0   | 8.3    | 10.0   |
| 67.5° | 8.3    | 8.3    | 6.7    | 8.3    | 8.3    |
| 70°   | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    |
| 72.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 75°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 77.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 80°   | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 82.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 85°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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)