

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: P1180015

Luminaire Tested: LDA2B209050R2040D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1180015  
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: LDA2B209050R2040D010 2LBD1LI  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

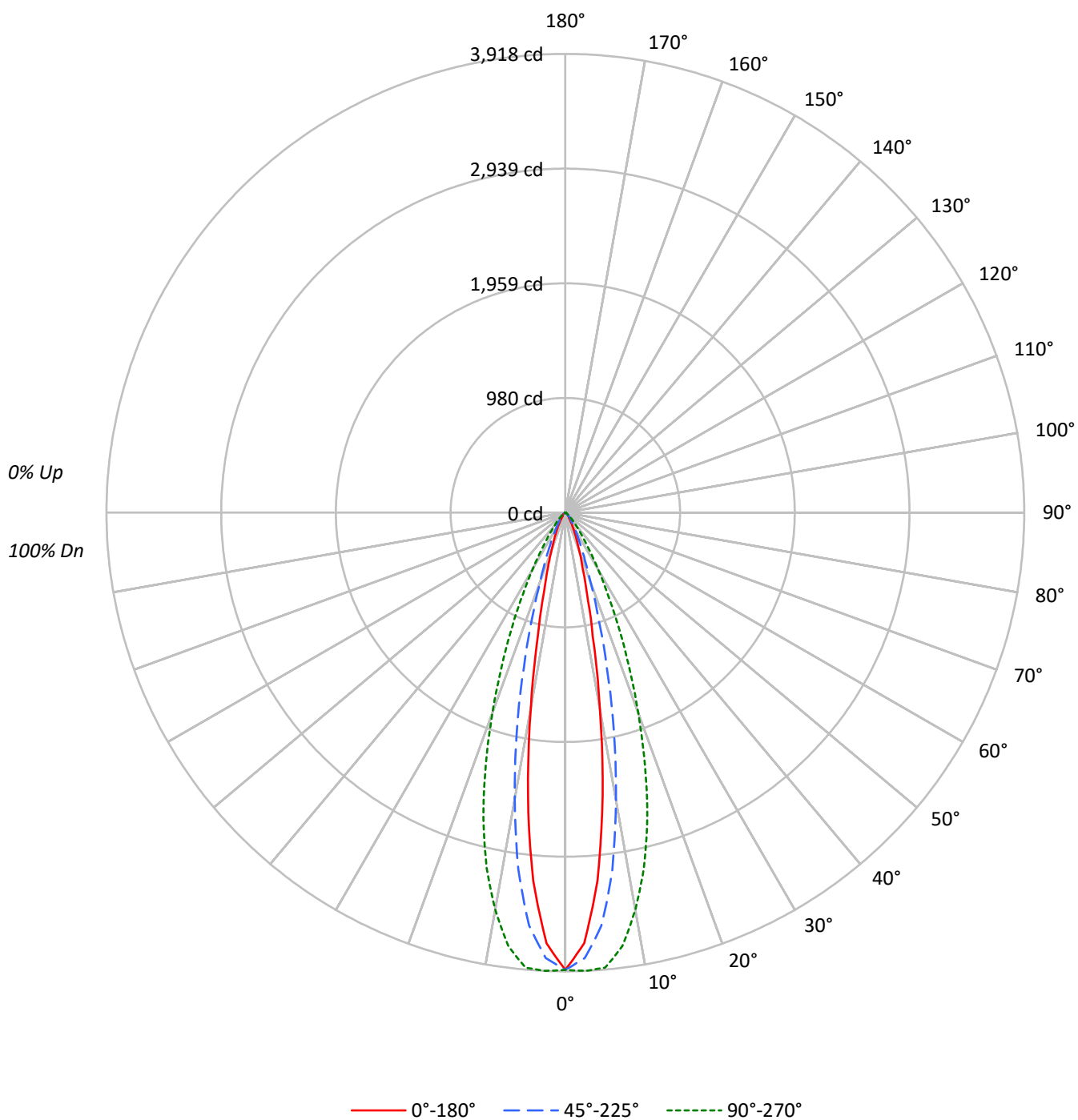
Lumens per Lamp: N/A  
Luminaire Lumens: 1100.6 lumens  
Efficiency: N/A  
Efficacy: 53.4 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| 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°  | 1926479 | 1926479 | 1926479 |
| 5°  | 1561512 | 1753865 | 1931461 |
| 10° | 848998  | 1245218 | 1724749 |
| 15° | 359068  | 698779  | 1380549 |
| 20° | 183286  | 328613  | 954600  |
| 25° | 101524  | 168100  | 581817  |
| 30° | 56855   | 93371   | 317315  |
| 35° | 32885   | 56494   | 161653  |
| 40° | 24473   | 42829   | 89457   |
| 45° | 21560   | 29025   | 53027   |
| 50° | 22796   | 19112   | 28245   |
| 55° | 16343   | 13246   | 15311   |
| 60° | 10558   | 9374    | 9374    |
| 65° | 8288    | 8288    | 8288    |
| 70° | 6924    | 6924    | 6924    |
| 75° | 6862    | 6862    | 6862    |
| 80° | 6819    | 6819    | 6819    |
| 85° | 6793    | 6793    | 6793    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53027 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 304.3  | 27.6      |
| 10°-20°   | 430.2  | 39.1      |
| 20°-30°   | 221.6  | 20.1      |
| 30°-40°   | 81.6   | 7.4       |
| 40°-50°   | 35.8   | 3.3       |
| 50°-60°   | 15.7   | 1.4       |
| 60°-70°   | 6.9    | 0.6       |
| 70°-80°   | 3.5    | 0.3       |
| 80°-90°   | 1.0    | 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°    | 956.1  | 86.9      |
| 0°-40°    | 1037.7 | 94.3      |
| 0°-60°    | 1089.2 | 99.0      |
| 0°-90°    | 1100.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1100.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3905 | 3905  | 3905 | 3905  | 3905 |      |
| 5°  | 3153 | 3260  | 3541 | 3792  | 3900 | 254  |
| 15° | 703  | 817   | 1368 | 2282  | 2703 | 215  |
| 25° | 186  | 209   | 309  | 709   | 1069 | 89   |
| 35° | 55   | 63    | 94   | 164   | 268  | 37   |
| 45° | 31   | 36    | 42   | 50    | 76   | 25   |
| 55° | 19   | 17    | 15   | 17    | 18   | 17   |
| 65° | 7    | 7     | 7    | 6     | 7    | 7    |
| 75° | 4    | 4     | 4    | 4     | 4    | 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°    | 3904.8 | 3904.8 | 3904.8 | 3904.8 | 3904.8 |
| 2.5°  | 3681.5 | 3725.4 | 3807.4 | 3885.8 | 3917.8 |
| 5°    | 3153.0 | 3259.9 | 3541.4 | 3791.9 | 3900.0 |
| 7.5°  | 2441.7 | 2617.4 | 3073.5 | 3542.6 | 3734.9 |
| 10°   | 1694.7 | 1872.8 | 2485.6 | 3160.2 | 3442.8 |
| 12.5° | 1080.7 | 1254.1 | 1915.6 | 2736.2 | 3103.1 |
| 15°   | 703.0  | 817.1  | 1368.1 | 2282.5 | 2702.9 |
| 17.5° | 488.1  | 568.9  | 931.1  | 1801.6 | 2260.0 |
| 20°   | 349.1  | 406.2  | 625.9  | 1374.0 | 1818.2 |
| 22.5° | 253.0  | 292.1  | 434.7  | 1003.5 | 1413.2 |
| 25°   | 186.5  | 209.0  | 308.8  | 709.0  | 1068.8 |
| 27.5° | 137.8  | 152.0  | 223.3  | 489.3  | 781.4  |
| 30°   | 99.8   | 111.6  | 163.9  | 336.1  | 557.0  |
| 32.5° | 72.4   | 83.1   | 122.3  | 232.8  | 388.3  |
| 35°   | 54.6   | 62.9   | 93.8   | 163.9  | 268.4  |
| 37.5° | 45.1   | 49.9   | 77.2   | 118.8  | 190.0  |
| 40°   | 38.0   | 42.8   | 66.5   | 87.9   | 138.9  |
| 42.5° | 33.3   | 39.2   | 54.6   | 65.3   | 104.5  |
| 45°   | 30.9   | 35.6   | 41.6   | 49.9   | 76.0   |
| 47.5° | 30.9   | 29.7   | 32.1   | 38.0   | 53.4   |
| 50°   | 29.7   | 24.9   | 24.9   | 29.7   | 36.8   |
| 52.5° | 24.9   | 20.2   | 20.2   | 21.4   | 24.9   |
| 55°   | 19.0   | 16.6   | 15.4   | 16.6   | 17.8   |
| 57.5° | 14.3   | 14.3   | 13.1   | 11.9   | 13.1   |
| 60°   | 10.7   | 10.7   | 9.5    | 9.5    | 9.5    |
| 62.5° | 8.3    | 8.3    | 8.3    | 7.1    | 8.3    |
| 65°   | 7.1    | 7.1    | 7.1    | 5.9    | 7.1    |
| 67.5° | 5.9    | 5.9    | 4.8    | 5.9    | 5.9    |
| 70°   | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    |
| 72.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 75°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 77.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 80°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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)