

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: P1179764

Luminaire Tested: LDA2B208040R2050D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179764  
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: LDA2B208040R2050D010 2LBDC1MW  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

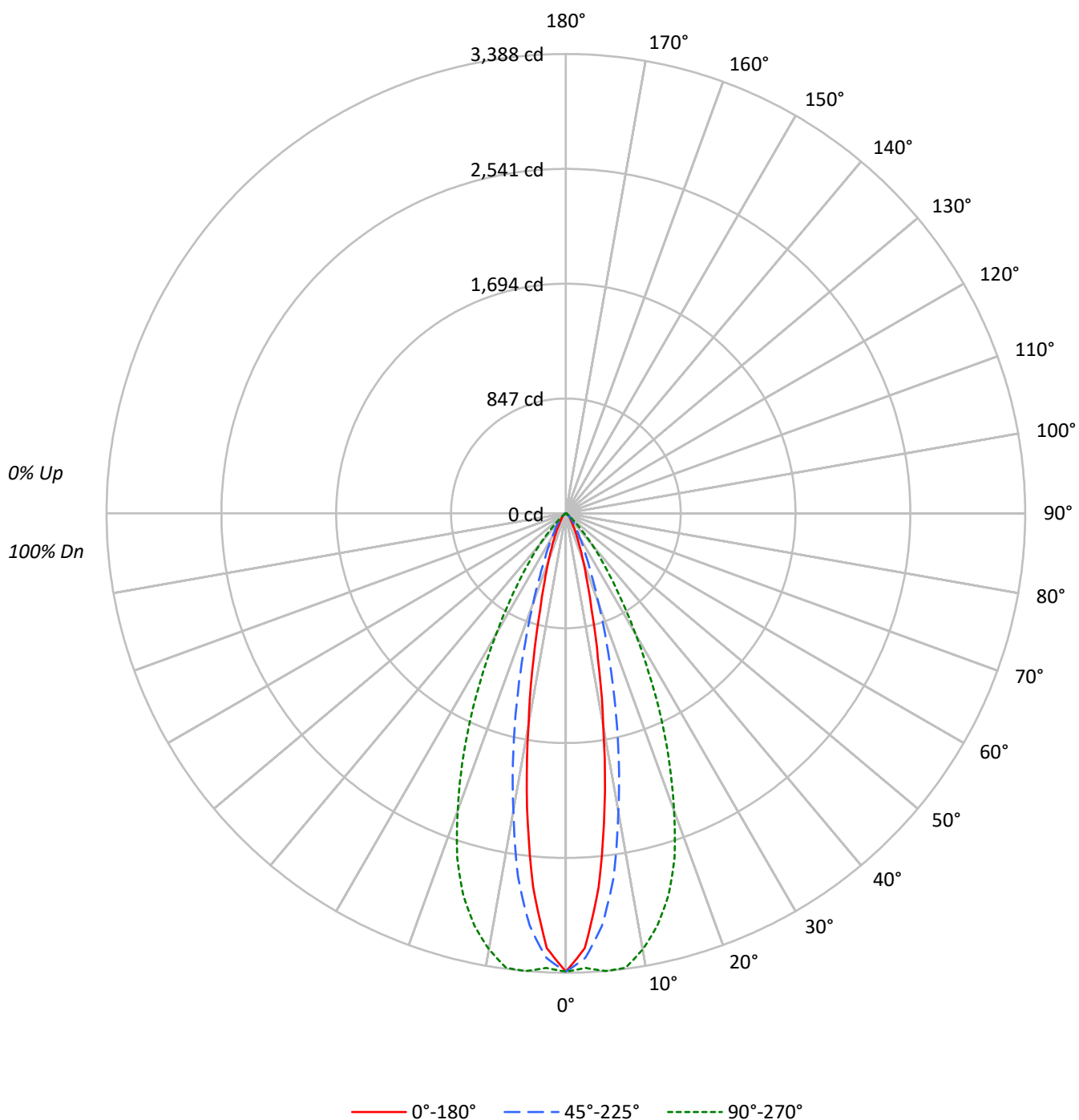
Lumens per Lamp: N/A  
Luminaire Lumens: 1214.9 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 90  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 77  | 75  |  | 80  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1667464 | 1667464 | 1667464 |
| 5°  | 1370891 | 1512631 | 1678043 |
| 10° | 795745  | 1117720 | 1636027 |
| 15° | 370765  | 696123  | 1490925 |
| 20° | 195362  | 367045  | 1225408 |
| 25° | 108165  | 198693  | 903808  |
| 30° | 63406   | 116444  | 584554  |
| 35° | 40775   | 78116   | 346373  |
| 40° | 31751   | 52618   | 192439  |
| 45° | 27560   | 31467   | 85540   |
| 50° | 24868   | 21644   | 31392   |
| 55° | 16945   | 15741   | 14537   |
| 60° | 12531   | 11150   | 11150   |
| 65° | 9923    | 8172    | 9923    |
| 70° | 8078    | 8078    | 8078    |
| 75° | 8006    | 8006    | 8006    |
| 80° | 7955    | 7955    | 7955    |
| 85° | 7925    | 7925    | 7925    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 85540 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 269.1  | 22.2      |
| 10°-20°   | 440.6  | 36.3      |
| 20°-30°   | 293.9  | 24.2      |
| 30°-40°   | 132.5  | 10.9      |
| 40°-50°   | 48.5   | 4.0       |
| 50°-60°   | 17.0   | 1.4       |
| 60°-70°   | 7.9    | 0.7       |
| 70°-80°   | 4.2    | 0.3       |
| 80°-90°   | 1.1    | 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°    | 1003.7 | 82.6      |
| 0°-40°    | 1136.2 | 93.5      |
| 0°-60°    | 1201.7 | 98.9      |
| 0°-90°    | 1214.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1214.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3380 | 3380  | 3380 | 3380  | 3380 |      |
| 5°  | 2768 | 2854  | 3054 | 3277  | 3388 | 226  |
| 15° | 726  | 853   | 1363 | 2303  | 2919 | 217  |
| 25° | 199  | 231   | 365  | 995   | 1660 | 96   |
| 35° | 68   | 76    | 130  | 280   | 575  | 45   |
| 45° | 40   | 40    | 45   | 70    | 123  | 31   |
| 55° | 20   | 18    | 18   | 16    | 17   | 18   |
| 65° | 8    | 8     | 7    | 7     | 8    | 9    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 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°    | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 |
| 2.5°  | 3209.3 | 3243.1 | 3282.6 | 3323.5 | 3355.9 |
| 5°    | 2768.1 | 2854.1 | 3054.3 | 3276.9 | 3388.3 |
| 7.5°  | 2188.9 | 2315.7 | 2704.7 | 3144.5 | 3379.8 |
| 10°   | 1588.4 | 1750.5 | 2231.1 | 2914.7 | 3265.7 |
| 12.5° | 1092.3 | 1244.5 | 1790.0 | 2624.4 | 3114.9 |
| 15°   | 725.9  | 852.7  | 1362.9 | 2303.0 | 2919.0 |
| 17.5° | 511.6  | 597.6  | 990.8  | 1952.1 | 2666.7 |
| 20°   | 372.1  | 429.9  | 699.1  | 1608.2 | 2334.0 |
| 22.5° | 270.6  | 314.3  | 497.5  | 1285.4 | 1997.2 |
| 25°   | 198.7  | 231.1  | 365.0  | 995.1  | 1660.3 |
| 27.5° | 148.0  | 173.4  | 273.4  | 755.5  | 1323.5 |
| 30°   | 111.3  | 132.5  | 204.4  | 556.7  | 1026.1 |
| 32.5° | 86.0   | 100.1  | 156.4  | 397.5  | 776.6  |
| 35°   | 67.7   | 76.1   | 129.7  | 280.5  | 575.1  |
| 37.5° | 56.4   | 62.0   | 107.1  | 195.9  | 421.4  |
| 40°   | 49.3   | 53.6   | 81.7   | 139.5  | 298.8  |
| 42.5° | 43.7   | 46.5   | 59.2   | 100.1  | 194.5  |
| 45°   | 39.5   | 39.5   | 45.1   | 70.5   | 122.6  |
| 47.5° | 36.6   | 32.4   | 35.2   | 49.3   | 71.9   |
| 50°   | 32.4   | 26.8   | 28.2   | 33.8   | 40.9   |
| 52.5° | 25.4   | 22.6   | 22.6   | 22.6   | 24.0   |
| 55°   | 19.7   | 18.3   | 18.3   | 15.5   | 16.9   |
| 57.5° | 15.5   | 15.5   | 14.1   | 12.7   | 14.1   |
| 60°   | 12.7   | 12.7   | 11.3   | 9.9    | 11.3   |
| 62.5° | 9.9    | 9.9    | 8.5    | 8.5    | 9.9    |
| 65°   | 8.5    | 8.5    | 7.0    | 7.0    | 8.5    |
| 67.5° | 7.0    | 7.0    | 7.0    | 5.6    | 7.0    |
| 70°   | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    |
| 72.5° | 4.2    | 4.2    | 5.6    | 4.2    | 4.2    |
| 75°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 77.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 80°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 85°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 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)