

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: P1179750

Luminaire Tested: LDA2B208040R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179750  
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: LDA2B208040R2040D010 2LBDC1MMS  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

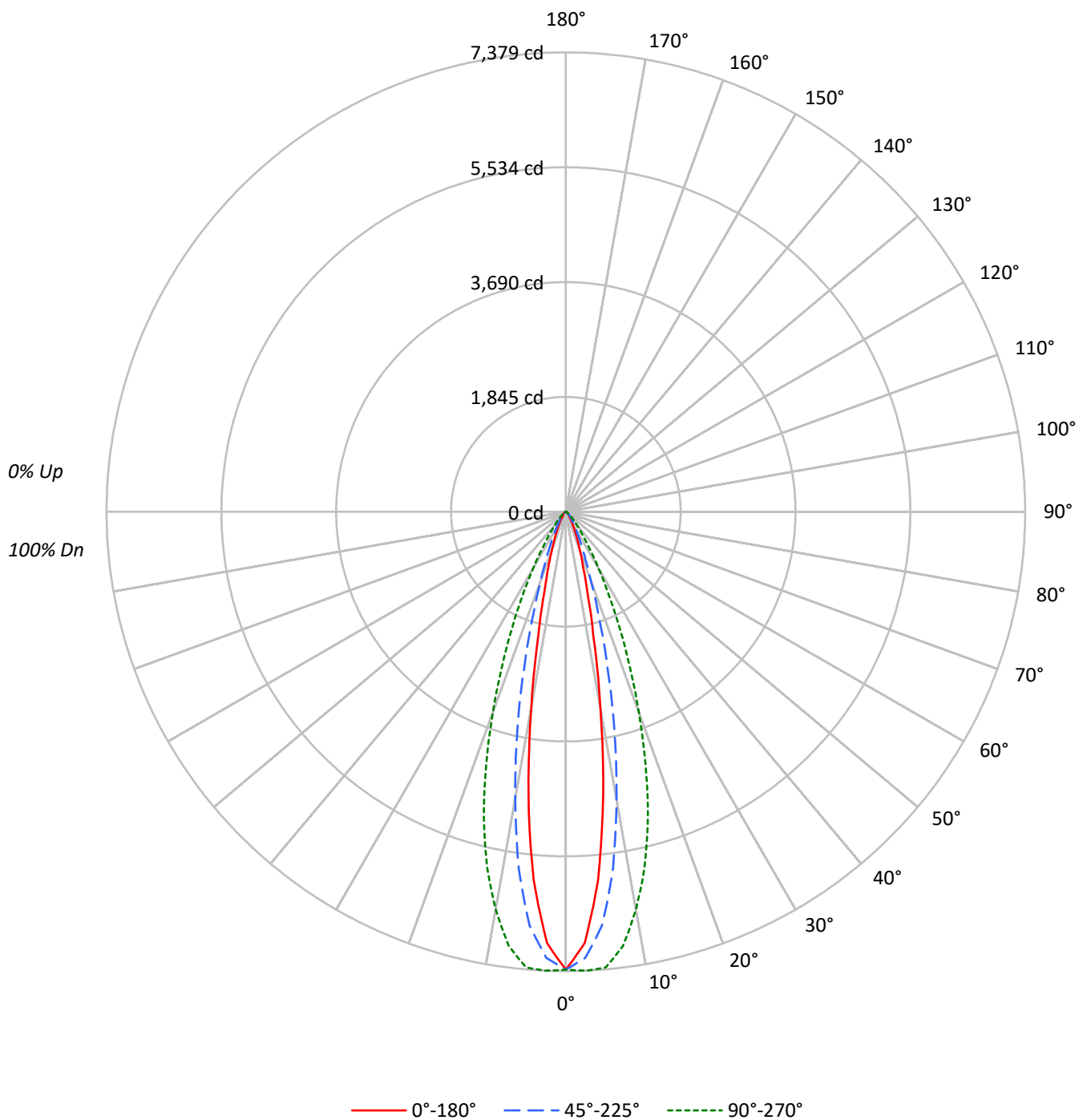
Lumens per Lamp: N/A  
Luminaire Lumens: 2072.8 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 3628479 | 3628479 | 3628479 |
| 5°  | 2941119 | 3303343 | 3637882 |
| 10° | 1599055 | 2345354 | 3248507 |
| 15° | 676356  | 1316141 | 2600257 |
| 20° | 345256  | 618899  | 1797947 |
| 25° | 191181  | 316602  | 1095860 |
| 30° | 107044  | 175862  | 597657  |
| 35° | 61975   | 106424  | 304454  |
| 40° | 46113   | 80698   | 168545  |
| 45° | 40607   | 54631   | 99913   |
| 50° | 42905   | 36074   | 53190   |
| 55° | 30793   | 25030   | 28901   |
| 60° | 19833   | 17662   | 17662   |
| 65° | 15643   | 15643   | 15643   |
| 70° | 12838   | 12838   | 12838   |
| 75° | 12772   | 12772   | 12772   |
| 80° | 12785   | 12785   | 12785   |
| 85° | 12454   | 12454   | 12454   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 99913 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 573.1  | 27.6      |
| 10°-20°   | 810.3  | 39.1      |
| 20°-30°   | 417.5  | 20.1      |
| 30°-40°   | 153.6  | 7.4       |
| 40°-50°   | 67.5   | 3.3       |
| 50°-60°   | 29.6   | 1.4       |
| 60°-70°   | 12.9   | 0.6       |
| 70°-80°   | 6.5    | 0.3       |
| 80°-90°   | 1.8    | 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°    | 1800.9 | 86.9      |
| 0°-40°    | 1954.5 | 94.3      |
| 0°-60°    | 2051.5 | 99.0      |
| 0°-90°    | 2072.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2072.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7355 | 7355  | 7355 | 7355  | 7355 |      |
| 5°  | 5939 | 6140  | 6670 | 7142  | 7346 | 478  |
| 15° | 1324 | 1539  | 2577 | 4299  | 5091 | 405  |
| 25° | 351  | 394   | 582  | 1335  | 2013 | 169  |
| 35° | 103  | 118   | 177  | 309   | 506  | 70   |
| 45° | 58   | 67    | 78   | 94    | 143  | 47   |
| 55° | 36   | 31    | 29   | 31    | 34   | 33   |
| 65° | 13   | 13    | 13   | 11    | 13   | 14   |
| 75° | 7    | 7     | 7    | 7     | 7    | 6    |
| 85° | 2    | 2     | 2    | 2     | 2    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 7354.6 | 7354.6 | 7354.6 | 7354.6 | 7354.6 |
| 2.5°  | 6934.0 | 7016.8 | 7171.1 | 7318.8 | 7379.2 |
| 5°    | 5938.7 | 6140.0 | 6670.1 | 7142.1 | 7345.6 |
| 7.5°  | 4598.8 | 4929.9 | 5788.8 | 6672.3 | 7034.7 |
| 10°   | 3191.9 | 3527.4 | 4681.6 | 5952.1 | 6484.4 |
| 12.5° | 2035.5 | 2362.0 | 3607.9 | 5153.6 | 5844.7 |
| 15°   | 1324.2 | 1538.9 | 2576.8 | 4299.1 | 5090.9 |
| 17.5° | 919.3  | 1071.4 | 1753.6 | 3393.2 | 4256.6 |
| 20°   | 657.6  | 765.0  | 1178.8 | 2588.0 | 3424.5 |
| 22.5° | 476.4  | 550.2  | 818.7  | 1890.1 | 2661.8 |
| 25°   | 351.2  | 393.7  | 581.6  | 1335.4 | 2013.1 |
| 27.5° | 259.5  | 286.3  | 420.5  | 921.6  | 1471.8 |
| 30°   | 187.9  | 210.3  | 308.7  | 633.0  | 1049.1 |
| 32.5° | 136.4  | 156.6  | 230.4  | 438.4  | 731.4  |
| 35°   | 102.9  | 118.5  | 176.7  | 308.7  | 505.5  |
| 37.5° | 85.0   | 93.9   | 145.4  | 223.7  | 357.9  |
| 40°   | 71.6   | 80.5   | 125.3  | 165.5  | 261.7  |
| 42.5° | 62.6   | 73.8   | 102.9  | 123.0  | 196.8  |
| 45°   | 58.2   | 67.1   | 78.3   | 93.9   | 143.2  |
| 47.5° | 58.2   | 55.9   | 60.4   | 71.6   | 100.7  |
| 50°   | 55.9   | 47.0   | 47.0   | 55.9   | 69.3   |
| 52.5° | 47.0   | 38.0   | 38.0   | 40.3   | 47.0   |
| 55°   | 35.8   | 31.3   | 29.1   | 31.3   | 33.6   |
| 57.5° | 26.8   | 26.8   | 24.6   | 22.4   | 24.6   |
| 60°   | 20.1   | 20.1   | 17.9   | 17.9   | 17.9   |
| 62.5° | 15.7   | 15.7   | 15.7   | 13.4   | 15.7   |
| 65°   | 13.4   | 13.4   | 13.4   | 11.2   | 13.4   |
| 67.5° | 11.2   | 11.2   | 8.9    | 11.2   | 11.2   |
| 70°   | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 72.5° | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    |
| 75°   | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    |
| 77.5° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 80°   | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 85°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 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)