

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: P1179718

Luminaire Tested: LDA2B208035R2050D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179718  
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: LDA2B208035R2050D010 2LBD1MB  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

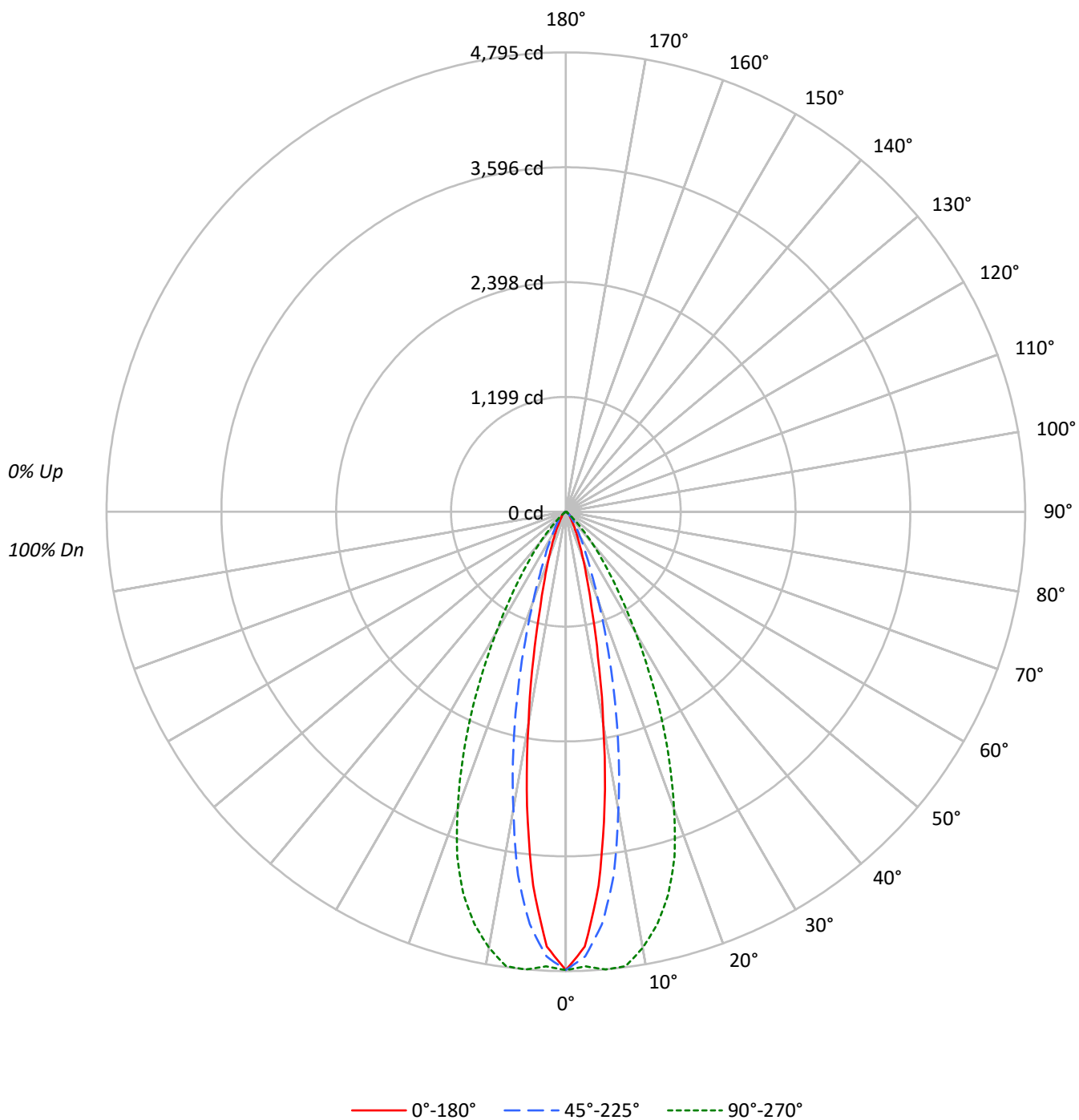
Lumens per Lamp: N/A  
Luminaire Lumens: 1719.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 2359848 | 2359848 | 2359848 |
| 5°  | 1940128 | 2140653 | 2374756 |
| 10° | 1126187 | 1581821 | 2315295 |
| 15° | 524659  | 985165  | 2109922 |
| 20° | 276478  | 519407  | 1734209 |
| 25° | 153075  | 281219  | 1279093 |
| 30° | 89782   | 164753  | 827240  |
| 35° | 57639   | 110519  | 490138  |
| 40° | 44954   | 74515   | 272364  |
| 45° | 39002   | 44514   | 121054  |
| 50° | 35230   | 30625   | 44364   |
| 55° | 23998   | 22278   | 20558   |
| 60° | 17761   | 15788   | 15788   |
| 65° | 14009   | 11674   | 14009   |
| 70° | 11540   | 11540   | 11540   |
| 75° | 11437   | 11437   | 11437   |
| 80° | 11365   | 11365   | 11365   |
| 85° | 11321   | 11321   | 11321   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 121054 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 380.8  | 22.1      |
| 10°-20°   | 623.6  | 36.3      |
| 20°-30°   | 416.0  | 24.2      |
| 30°-40°   | 187.5  | 10.9      |
| 40°-50°   | 68.6   | 4.0       |
| 50°-60°   | 24.0   | 1.4       |
| 60°-70°   | 11.3   | 0.7       |
| 70°-80°   | 5.9    | 0.3       |
| 80°-90°   | 1.6    | 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       |
| 0°-30°    | 1420.4 | 82.6      |
| 0°-40°    | 1607.9 | 93.5      |
| 0°-60°    | 1700.6 | 98.9      |
| 0°-90°    | 1719.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1719.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4783 | 4783  | 4783 | 4783  | 4783 |      |
| 5°  | 3918 | 4039  | 4322 | 4638  | 4795 | 320  |
| 15° | 1027 | 1207  | 1929 | 3259  | 4131 | 308  |
| 25° | 281  | 327   | 517  | 1408  | 2350 | 136  |
| 35° | 96   | 108   | 184  | 397   | 814  | 63   |
| 45° | 56   | 56    | 64   | 100   | 174  | 44   |
| 55° | 28   | 26    | 26   | 22    | 24   | 26   |
| 65° | 12   | 12    | 10   | 10    | 12   | 12   |
| 75° | 6    | 6     | 6    | 6     | 6    | 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°    | 4783.2 | 4783.2 | 4783.2 | 4783.2 | 4783.2 |
| 2.5°  | 4541.8 | 4589.7 | 4645.5 | 4703.4 | 4749.3 |
| 5°    | 3917.5 | 4039.2 | 4322.4 | 4637.6 | 4795.1 |
| 7.5°  | 3097.7 | 3277.2 | 3827.7 | 4450.1 | 4783.2 |
| 10°   | 2248.0 | 2477.4 | 3157.5 | 4124.9 | 4621.6 |
| 12.5° | 1545.9 | 1761.3 | 2533.2 | 3714.0 | 4408.2 |
| 15°   | 1027.2 | 1206.8 | 1928.8 | 3259.3 | 4130.9 |
| 17.5° | 724.1  | 845.7  | 1402.2 | 2762.6 | 3773.9 |
| 20°   | 526.6  | 608.4  | 989.3  | 2275.9 | 3303.1 |
| 22.5° | 383.0  | 444.8  | 704.1  | 1819.1 | 2826.4 |
| 25°   | 281.2  | 327.1  | 516.6  | 1408.2 | 2349.7 |
| 27.5° | 209.4  | 245.3  | 387.0  | 1069.1 | 1873.0 |
| 30°   | 157.6  | 187.5  | 289.2  | 787.9  | 1452.1 |
| 32.5° | 121.7  | 141.6  | 221.4  | 562.5  | 1099.1 |
| 35°   | 95.7   | 107.7  | 183.5  | 396.9  | 813.8  |
| 37.5° | 79.8   | 87.8   | 151.6  | 277.3  | 596.4  |
| 40°   | 69.8   | 75.8   | 115.7  | 197.5  | 422.9  |
| 42.5° | 61.8   | 65.8   | 83.8   | 141.6  | 275.3  |
| 45°   | 55.9   | 55.9   | 63.8   | 99.7   | 173.5  |
| 47.5° | 51.9   | 45.9   | 49.9   | 69.8   | 101.7  |
| 50°   | 45.9   | 37.9   | 39.9   | 47.9   | 57.8   |
| 52.5° | 35.9   | 31.9   | 31.9   | 31.9   | 33.9   |
| 55°   | 27.9   | 25.9   | 25.9   | 21.9   | 23.9   |
| 57.5° | 21.9   | 21.9   | 19.9   | 18.0   | 19.9   |
| 60°   | 18.0   | 18.0   | 16.0   | 14.0   | 16.0   |
| 62.5° | 14.0   | 14.0   | 12.0   | 12.0   | 14.0   |
| 65°   | 12.0   | 12.0   | 10.0   | 10.0   | 12.0   |
| 67.5° | 10.0   | 10.0   | 10.0   | 8.0    | 10.0   |
| 70°   | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    |
| 72.5° | 6.0    | 6.0    | 8.0    | 6.0    | 6.0    |
| 75°   | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 77.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 80°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 82.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 85°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 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)