

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: P1179896

Luminaire Tested: LDA2B209030R2040D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179896  
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: LDA2B209030R2040D010 2LBD1GPH  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

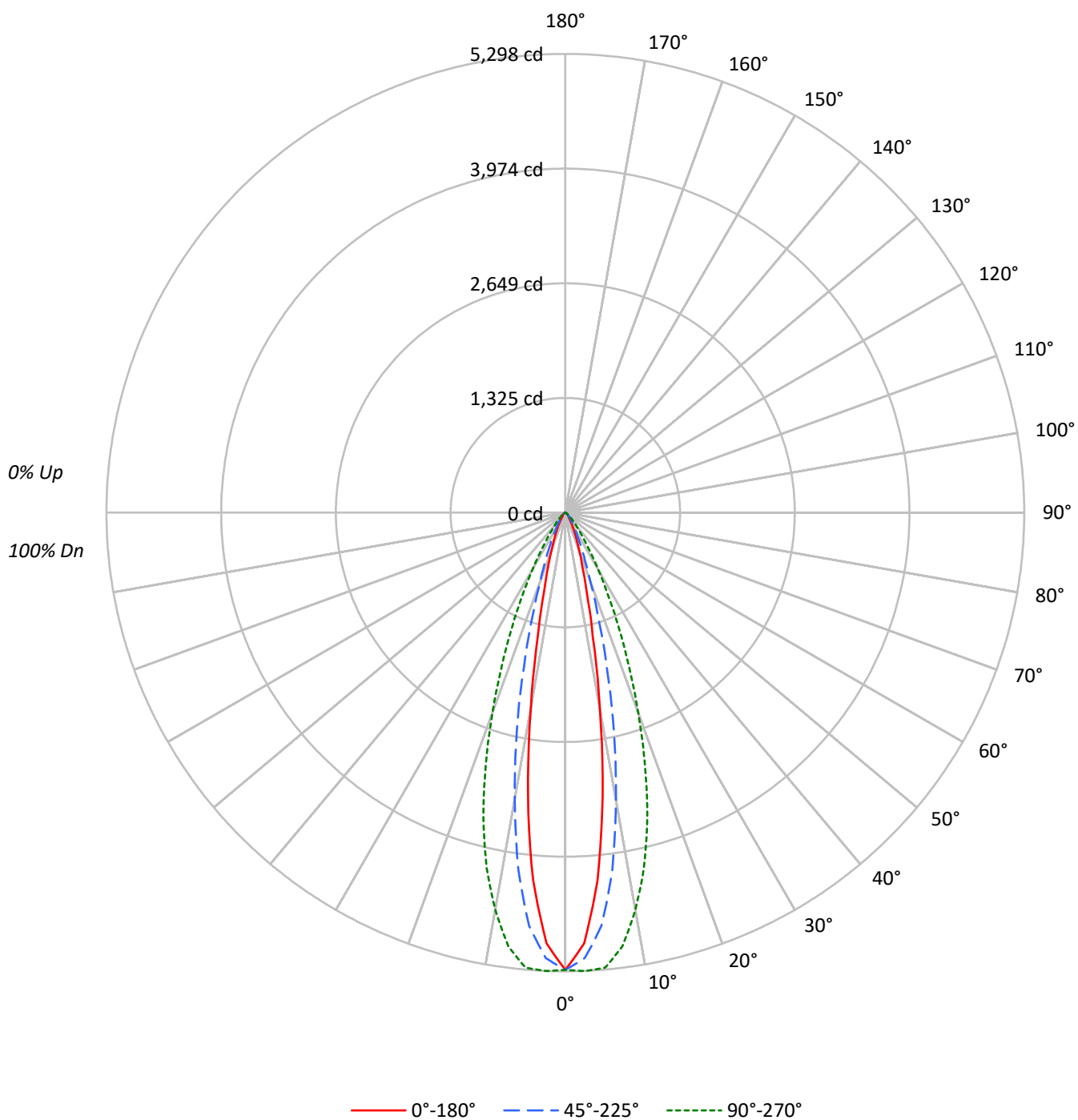
Lumens per Lamp: N/A  
Luminaire Lumens: 1488.3 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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   | 95  | 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°  | 2605345 | 2605345 | 2605345 |
| 5°  | 2111780 | 2371883 | 2612127 |
| 10° | 1148179 | 1684020 | 2332529 |
| 15° | 485636  | 945019  | 1867053 |
| 20° | 247917  | 444381  | 1290983 |
| 25° | 137289  | 227327  | 786879  |
| 30° | 76851   | 126242  | 429144  |
| 35° | 44509   | 76430   | 218629  |
| 40° | 33104   | 57899   | 121015  |
| 45° | 29165   | 39212   | 71726   |
| 50° | 30855   | 25866   | 38223   |
| 55° | 22106   | 17977   | 20730   |
| 60° | 14307   | 12630   | 12630   |
| 65° | 11207   | 11207   | 11207   |
| 70° | 9232    | 9232    | 9232    |
| 75° | 9150    | 9150    | 9150    |
| 80° | 9092    | 9092    | 9092    |
| 85° | 9057    | 9057    | 9057    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 71726 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 411.5  | 27.6      |
| 10°-20°   | 581.9  | 39.1      |
| 20°-30°   | 299.7  | 20.1      |
| 30°-40°   | 110.3  | 7.4       |
| 40°-50°   | 48.5   | 3.3       |
| 50°-60°   | 21.3   | 1.4       |
| 60°-70°   | 9.3    | 0.6       |
| 70°-80°   | 4.6    | 0.3       |
| 80°-90°   | 1.3    | 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°    | 1293.1 | 86.9      |
| 0°-40°    | 1403.4 | 94.3      |
| 0°-60°    | 1473.1 | 99.0      |
| 0°-90°    | 1488.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1488.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5281 | 5281  | 5281 | 5281  | 5281 |      |
| 5°  | 4264 | 4409  | 4789 | 5128  | 5274 | 343  |
| 15° | 951  | 1105  | 1850 | 3087  | 3655 | 291  |
| 25° | 252  | 283   | 418  | 959   | 1446 | 121  |
| 35° | 74   | 85    | 127  | 222   | 363  | 50   |
| 45° | 42   | 48    | 56   | 68    | 103  | 34   |
| 55° | 26   | 22    | 21   | 22    | 24   | 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°    | 5280.8 | 5280.8 | 5280.8 | 5280.8 | 5280.8 |
| 2.5°  | 4978.8 | 5038.3 | 5149.1 | 5255.1 | 5298.5 |
| 5°    | 4264.1 | 4408.7 | 4789.3 | 5128.2 | 5274.4 |
| 7.5°  | 3302.1 | 3539.8 | 4156.5 | 4790.9 | 5051.1 |
| 10°   | 2291.9 | 2532.8 | 3361.5 | 4273.8 | 4656.0 |
| 12.5° | 1461.5 | 1696.0 | 2590.6 | 3700.4 | 4196.7 |
| 15°   | 950.8  | 1105.0 | 1850.2 | 3086.9 | 3655.4 |
| 17.5° | 660.1  | 769.3  | 1259.2 | 2436.4 | 3056.4 |
| 20°   | 472.2  | 549.3  | 846.4  | 1858.2 | 2458.9 |
| 22.5° | 342.1  | 395.1  | 587.8  | 1357.1 | 1911.2 |
| 25°   | 252.2  | 282.7  | 417.6  | 958.8  | 1445.5 |
| 27.5° | 186.3  | 205.6  | 301.9  | 661.7  | 1056.8 |
| 30°   | 134.9  | 151.0  | 221.6  | 454.5  | 753.3  |
| 32.5° | 98.0   | 112.4  | 165.4  | 314.8  | 525.2  |
| 35°   | 73.9   | 85.1   | 126.9  | 221.6  | 363.0  |
| 37.5° | 61.0   | 67.5   | 104.4  | 160.6  | 257.0  |
| 40°   | 51.4   | 57.8   | 89.9   | 118.8  | 187.9  |
| 42.5° | 45.0   | 53.0   | 73.9   | 88.3   | 141.3  |
| 45°   | 41.8   | 48.2   | 56.2   | 67.5   | 102.8  |
| 47.5° | 41.8   | 40.2   | 43.4   | 51.4   | 72.3   |
| 50°   | 40.2   | 33.7   | 33.7   | 40.2   | 49.8   |
| 52.5° | 33.7   | 27.3   | 27.3   | 28.9   | 33.7   |
| 55°   | 25.7   | 22.5   | 20.9   | 22.5   | 24.1   |
| 57.5° | 19.3   | 19.3   | 17.7   | 16.1   | 17.7   |
| 60°   | 14.5   | 14.5   | 12.8   | 12.8   | 12.8   |
| 62.5° | 11.2   | 11.2   | 11.2   | 9.6    | 11.2   |
| 65°   | 9.6    | 9.6    | 9.6    | 8.0    | 9.6    |
| 67.5° | 8.0    | 8.0    | 6.4    | 8.0    | 8.0    |
| 70°   | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    |
| 72.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    |
| 75°   | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    |
| 77.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 80°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 82.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 85°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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)