

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: P1179740

Luminaire Tested: LDA2B208040R2040D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179740  
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 2LBD1GPH  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

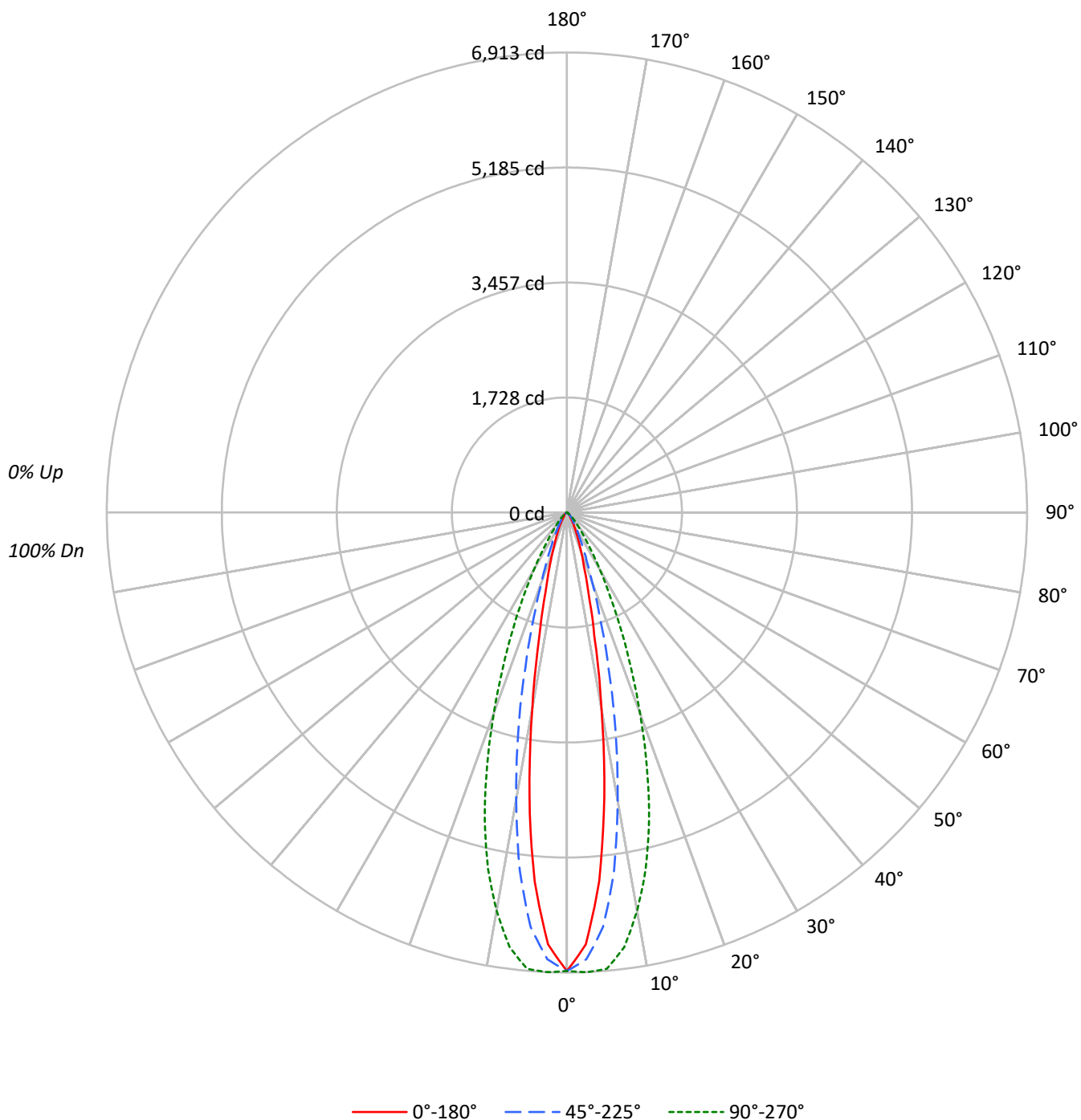
Lumens per Lamp: N/A  
Luminaire Lumens: 1942.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 3399411 | 3399411 | 3399411 |
| 5°  | 2755452 | 3094844 | 3408236 |
| 10° | 1498109 | 2197316 | 3043459 |
| 15° | 633656  | 1233039 | 2436148 |
| 20° | 323468  | 579837  | 1684489 |
| 25° | 179096  | 296624  | 1026671 |
| 30° | 100265  | 164753  | 559887  |
| 35° | 58060   | 99738   | 285241  |
| 40° | 43215   | 75610   | 157918  |
| 45° | 38026   | 51143   | 93564   |
| 50° | 40219   | 33772   | 49890   |
| 55° | 28815   | 23396   | 27009   |
| 60° | 18649   | 16577   | 16577   |
| 65° | 14709   | 14709   | 14709   |
| 70° | 12117   | 12117   | 12117   |
| 75° | 12009   | 12009   | 12009   |
| 80° | 11933   | 11933   | 11933   |
| 85° | 11887   | 11887   | 11887   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 93564 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 536.9  | 27.6      |
| 10°-20°   | 759.2  | 39.1      |
| 20°-30°   | 391.1  | 20.1      |
| 30°-40°   | 143.9  | 7.4       |
| 40°-50°   | 63.2   | 3.3       |
| 50°-60°   | 27.7   | 1.4       |
| 60°-70°   | 12.2   | 0.6       |
| 70°-80°   | 6.1    | 0.3       |
| 80°-90°   | 1.7    | 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°    | 1687.2 | 86.9      |
| 0°-40°    | 1831.1 | 94.3      |
| 0°-60°    | 1922.1 | 99.0      |
| 0°-90°    | 1942.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1942.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6890 | 6890  | 6890 | 6890  | 6890 |      |
| 5°  | 5564 | 5752  | 6249 | 6691  | 6882 | 448  |
| 15° | 1241 | 1442  | 2414 | 4028  | 4770 | 379  |
| 25° | 329  | 369   | 545  | 1251  | 1886 | 158  |
| 35° | 96   | 111   | 166  | 289   | 474  | 66   |
| 45° | 54   | 63    | 73   | 88    | 134  | 44   |
| 55° | 34   | 29    | 27   | 29    | 31   | 31   |
| 65° | 13   | 13    | 13   | 10    | 13   | 13   |
| 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°    | 6890.3 | 6890.3 | 6890.3 | 6890.3 | 6890.3 |
| 2.5°  | 6496.3 | 6573.9 | 6718.5 | 6856.8 | 6913.4 |
| 5°    | 5563.8 | 5752.4 | 6249.1 | 6691.2 | 6881.9 |
| 7.5°  | 4308.5 | 4618.7 | 5423.4 | 6251.1 | 6590.6 |
| 10°   | 2990.4 | 3304.7 | 4386.1 | 5576.4 | 6075.1 |
| 12.5° | 1907.0 | 2212.9 | 3380.2 | 4828.2 | 5475.8 |
| 15°   | 1240.6 | 1441.8 | 2414.1 | 4027.7 | 4769.6 |
| 17.5° | 861.3  | 1003.8 | 1642.9 | 3179.0 | 3987.9 |
| 20°   | 616.1  | 716.7  | 1104.4 | 2424.6 | 3208.4 |
| 22.5° | 446.4  | 515.5  | 767.0  | 1770.8 | 2493.8 |
| 25°   | 329.0  | 368.8  | 544.9  | 1251.1 | 1886.0 |
| 27.5° | 243.1  | 268.2  | 394.0  | 863.4  | 1378.9 |
| 30°   | 176.0  | 197.0  | 289.2  | 593.1  | 982.8  |
| 32.5° | 127.8  | 146.7  | 215.8  | 410.7  | 685.3  |
| 35°   | 96.4   | 111.1  | 165.6  | 289.2  | 473.6  |
| 37.5° | 79.6   | 88.0   | 136.2  | 209.6  | 335.3  |
| 40°   | 67.1   | 75.4   | 117.4  | 155.1  | 245.2  |
| 42.5° | 58.7   | 69.2   | 96.4   | 115.3  | 184.4  |
| 45°   | 54.5   | 62.9   | 73.3   | 88.0   | 134.1  |
| 47.5° | 54.5   | 52.4   | 56.6   | 67.1   | 94.3   |
| 50°   | 52.4   | 44.0   | 44.0   | 52.4   | 65.0   |
| 52.5° | 44.0   | 35.6   | 35.6   | 37.7   | 44.0   |
| 55°   | 33.5   | 29.3   | 27.2   | 29.3   | 31.4   |
| 57.5° | 25.1   | 25.1   | 23.1   | 21.0   | 23.1   |
| 60°   | 18.9   | 18.9   | 16.8   | 16.8   | 16.8   |
| 62.5° | 14.7   | 14.7   | 14.7   | 12.6   | 14.7   |
| 65°   | 12.6   | 12.6   | 12.6   | 10.5   | 12.6   |
| 67.5° | 10.5   | 10.5   | 8.4    | 10.5   | 10.5   |
| 70°   | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    |
| 72.5° | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 75°   | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 77.5° | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 80°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 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)