

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: P1180034

Luminaire Tested: LDA2B209050R2050D010 2LBD1WMH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1180034  
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: LDA2B209050R2050D010 2LBD1WMH  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

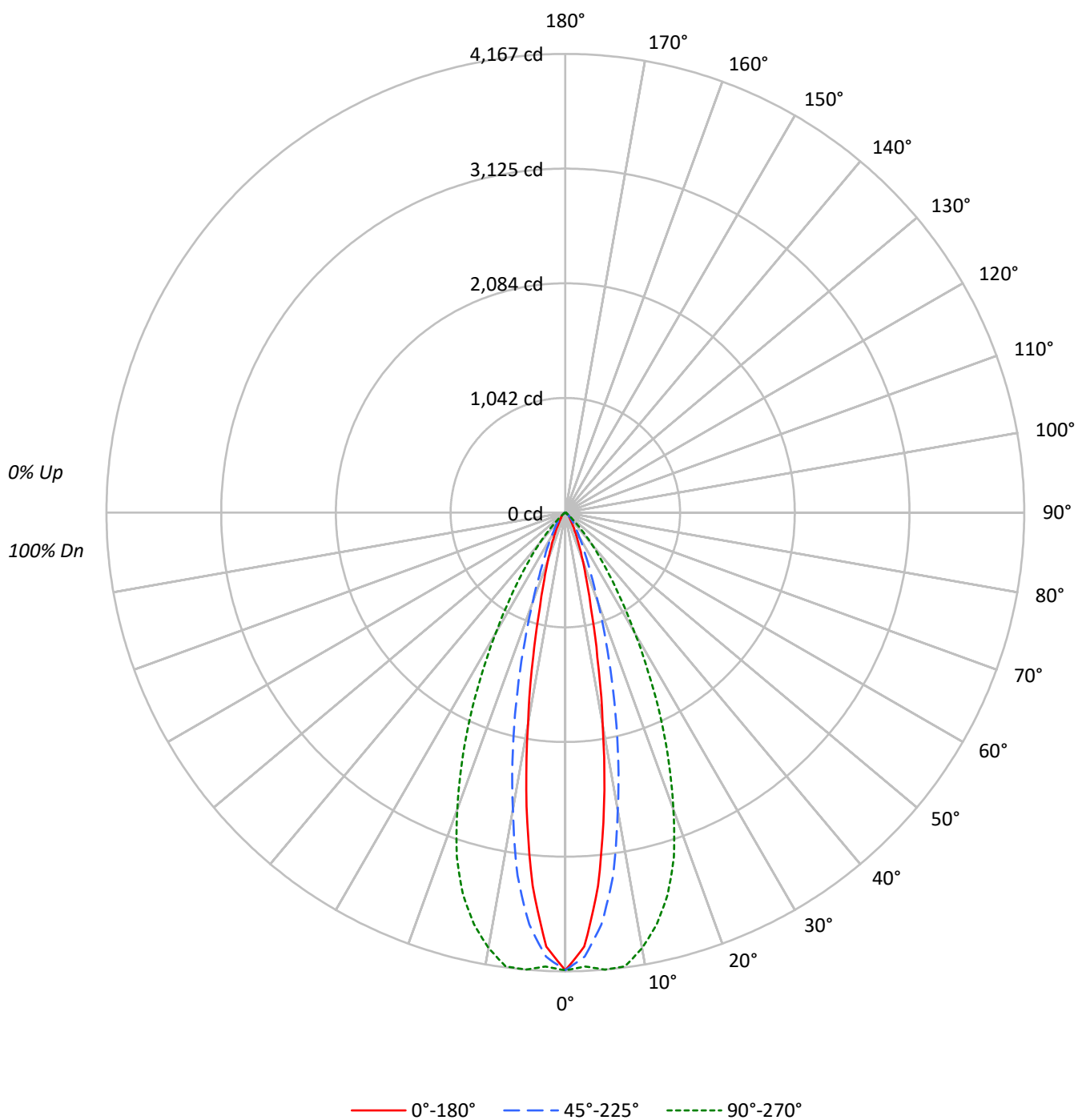
Lumens per Lamp: N/A  
Luminaire Lumens: 1494.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 2050560 | 2050560 | 2050560 |
| 5°  | 1685868 | 1860145 | 2063543 |
| 10° | 978600  | 1374519 | 2011856 |
| 15° | 455909  | 856094  | 1833445 |
| 20° | 240251  | 451364  | 1506978 |
| 25° | 133043  | 244365  | 1111483 |
| 30° | 77990   | 143162  | 718829  |
| 35° | 50110   | 96064   | 425935  |
| 40° | 39093   | 64726   | 236620  |
| 45° | 33839   | 38723   | 105216  |
| 50° | 30625   | 26633   | 38607   |
| 55° | 20902   | 19353   | 17891   |
| 60° | 15393   | 13715   | 13715   |
| 65° | 12141   | 10156   | 12141   |
| 70° | 9953    | 9953    | 9953    |
| 75° | 9912    | 9912    | 9912    |
| 80° | 9944    | 9944    | 9944    |
| 85° | 9623    | 9623    | 9623    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 105216 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 330.9  | 22.2      |
| 10°-20°   | 541.9  | 36.3      |
| 20°-30°   | 361.5  | 24.2      |
| 30°-40°   | 162.9  | 10.9      |
| 40°-50°   | 59.7   | 4.0       |
| 50°-60°   | 20.9   | 1.4       |
| 60°-70°   | 9.8    | 0.7       |
| 70°-80°   | 5.1    | 0.3       |
| 80°-90°   | 1.4    | 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°    | 1234.3 | 82.6      |
| 0°-40°    | 1397.2 | 93.5      |
| 0°-60°    | 1477.7 | 98.9      |
| 0°-90°    | 1494.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1494.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4156 | 4156  | 4156 | 4156  | 4156 |      |
| 5°  | 3404 | 3510  | 3756 | 4030  | 4167 | 278  |
| 15° | 893  | 1049  | 1676 | 2832  | 3590 | 267  |
| 25° | 244  | 284   | 449  | 1224  | 2042 | 118  |
| 35° | 83   | 94    | 160  | 345   | 707  | 55   |
| 45° | 48   | 48    | 56   | 87    | 151  | 38   |
| 55° | 24   | 22    | 22   | 19    | 21   | 23   |
| 65° | 10   | 10    | 9    | 9     | 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°    | 4156.3 | 4156.3 | 4156.3 | 4156.3 | 4156.3 |
| 2.5°  | 3946.6 | 3988.2 | 4036.7 | 4087.0 | 4126.9 |
| 5°    | 3404.1 | 3509.8 | 3756.0 | 4029.8 | 4166.7 |
| 7.5°  | 2691.7 | 2847.7 | 3326.1 | 3866.9 | 4156.3 |
| 10°   | 1953.4 | 2152.7 | 2743.7 | 3584.4 | 4015.9 |
| 12.5° | 1343.3 | 1530.5 | 2201.2 | 3227.3 | 3830.5 |
| 15°   | 892.6  | 1048.6 | 1676.1 | 2832.1 | 3589.6 |
| 17.5° | 629.2  | 734.9  | 1218.5 | 2400.6 | 3279.3 |
| 20°   | 457.6  | 528.6  | 859.7  | 1977.6 | 2870.3 |
| 22.5° | 332.8  | 386.5  | 611.8  | 1580.7 | 2456.0 |
| 25°   | 244.4  | 284.3  | 448.9  | 1223.7 | 2041.8 |
| 27.5° | 182.0  | 213.2  | 336.3  | 929.0  | 1627.5 |
| 30°   | 136.9  | 162.9  | 251.3  | 684.6  | 1261.8 |
| 32.5° | 105.7  | 123.1  | 192.4  | 488.8  | 955.0  |
| 35°   | 83.2   | 93.6   | 159.5  | 344.9  | 707.2  |
| 37.5° | 69.3   | 76.3   | 131.7  | 240.9  | 518.2  |
| 40°   | 60.7   | 65.9   | 100.5  | 171.6  | 367.4  |
| 42.5° | 53.7   | 57.2   | 72.8   | 123.1  | 239.2  |
| 45°   | 48.5   | 48.5   | 55.5   | 86.7   | 150.8  |
| 47.5° | 45.1   | 39.9   | 43.3   | 60.7   | 88.4   |
| 50°   | 39.9   | 32.9   | 34.7   | 41.6   | 50.3   |
| 52.5° | 31.2   | 27.7   | 27.7   | 27.7   | 29.5   |
| 55°   | 24.3   | 22.5   | 22.5   | 19.1   | 20.8   |
| 57.5° | 19.1   | 19.1   | 17.3   | 15.6   | 17.3   |
| 60°   | 15.6   | 15.6   | 13.9   | 12.1   | 13.9   |
| 62.5° | 12.1   | 12.1   | 10.4   | 10.4   | 12.1   |
| 65°   | 10.4   | 10.4   | 8.7    | 8.7    | 10.4   |
| 67.5° | 8.7    | 8.7    | 8.7    | 6.9    | 8.7    |
| 70°   | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 72.5° | 5.2    | 5.2    | 6.9    | 5.2    | 5.2    |
| 75°   | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 77.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 80°   | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 82.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 85°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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)