

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: P1179285

Luminaire Tested: LDA2B158050R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179285  
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: LDA2B158050R2040D010 2LBDC1MMS  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

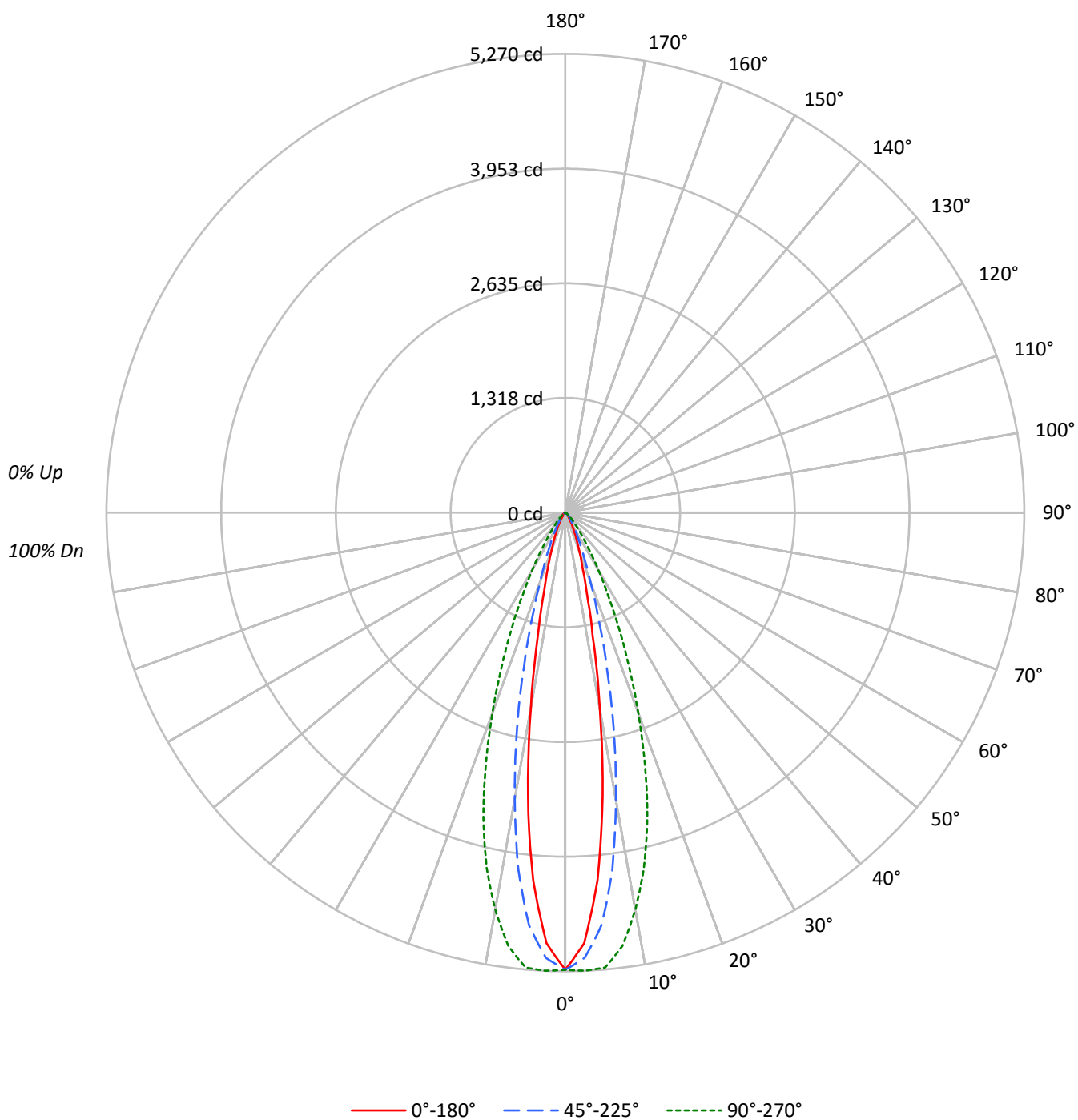
Lumens per Lamp: N/A  
Luminaire Lumens: 1480.2 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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°  | 2591136 | 2591136 | 2591136 |
| 5°  | 2100290 | 2358957 | 2597864 |
| 10° | 1141917 | 1674852 | 2319804 |
| 15° | 482980  | 939860  | 1856889 |
| 20° | 246552  | 441966  | 1283948 |
| 25° | 136527  | 226075  | 782578  |
| 30° | 76452   | 125559  | 426751  |
| 35° | 44268   | 76008   | 217424  |
| 40° | 32910   | 57577   | 120371  |
| 45° | 28955   | 39002   | 71307   |
| 50° | 30625   | 25712   | 37993   |
| 55° | 22020   | 17891   | 20644   |
| 60° | 14209   | 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: 71307 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 409.2  | 27.6      |
| 10°-20°   | 578.7  | 39.1      |
| 20°-30°   | 298.1  | 20.1      |
| 30°-40°   | 109.7  | 7.4       |
| 40°-50°   | 48.2   | 3.3       |
| 50°-60°   | 21.2   | 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°    | 1286.0 | 86.9      |
| 0°-40°    | 1395.7 | 94.3      |
| 0°-60°    | 1465.0 | 99.0      |
| 0°-90°    | 1480.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1480.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5252 | 5252  | 5252 | 5252  | 5252 |      |
| 5°  | 4241 | 4385  | 4763 | 5100  | 5246 | 341  |
| 15° | 946  | 1099  | 1840 | 3070  | 3636 | 289  |
| 25° | 251  | 281   | 415  | 954   | 1438 | 120  |
| 35° | 74   | 85    | 126  | 220   | 361  | 50   |
| 45° | 42   | 48    | 56   | 67    | 102  | 33   |
| 55° | 26   | 22    | 21   | 22    | 24   | 23   |
| 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°    | 5252.0 | 5252.0 | 5252.0 | 5252.0 | 5252.0 |
| 2.5°  | 4951.7 | 5010.8 | 5121.0 | 5226.4 | 5269.5 |
| 5°    | 4240.9 | 4384.6 | 4763.2 | 5100.2 | 5245.6 |
| 7.5°  | 3284.1 | 3520.5 | 4133.8 | 4764.8 | 5023.5 |
| 10°   | 2279.4 | 2519.0 | 3343.2 | 4250.4 | 4630.6 |
| 12.5° | 1453.6 | 1686.8 | 2576.5 | 3680.2 | 4173.8 |
| 15°   | 945.6  | 1099.0 | 1840.1 | 3070.0 | 3635.5 |
| 17.5° | 656.5  | 765.1  | 1252.3 | 2423.1 | 3039.7 |
| 20°   | 469.6  | 546.3  | 841.8  | 1848.1 | 2445.5 |
| 22.5° | 340.2  | 392.9  | 584.6  | 1349.7 | 1900.8 |
| 25°   | 250.8  | 281.1  | 415.3  | 953.6  | 1437.6 |
| 27.5° | 185.3  | 204.5  | 300.3  | 658.1  | 1051.0 |
| 30°   | 134.2  | 150.1  | 220.4  | 452.0  | 749.1  |
| 32.5° | 97.4   | 111.8  | 164.5  | 313.1  | 522.3  |
| 35°   | 73.5   | 84.7   | 126.2  | 220.4  | 361.0  |
| 37.5° | 60.7   | 67.1   | 103.8  | 159.7  | 255.6  |
| 40°   | 51.1   | 57.5   | 89.4   | 118.2  | 186.9  |
| 42.5° | 44.7   | 52.7   | 73.5   | 87.9   | 140.6  |
| 45°   | 41.5   | 47.9   | 55.9   | 67.1   | 102.2  |
| 47.5° | 41.5   | 39.9   | 43.1   | 51.1   | 71.9   |
| 50°   | 39.9   | 33.5   | 33.5   | 39.9   | 49.5   |
| 52.5° | 33.5   | 27.2   | 27.2   | 28.8   | 33.5   |
| 55°   | 25.6   | 22.4   | 20.8   | 22.4   | 24.0   |
| 57.5° | 19.2   | 19.2   | 17.6   | 16.0   | 17.6   |
| 60°   | 14.4   | 14.4   | 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)