

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: P1179204

Luminaire Tested: LDA2B158035R2040D010 2LBD1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179204  
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: LDA2B158035R2040D010 2LBD1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

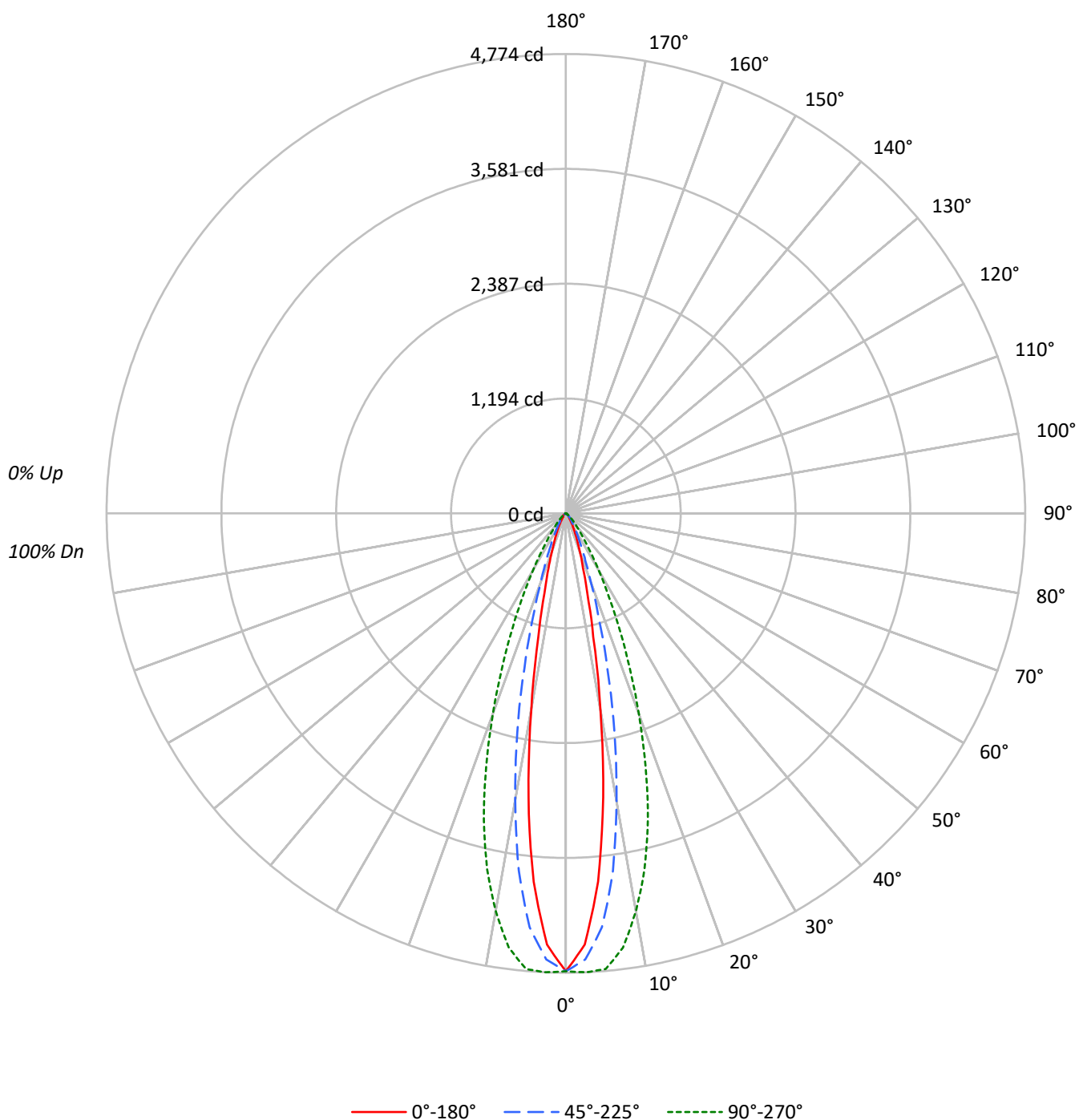
Lumens per Lamp: N/A  
Luminaire Lumens: 1341.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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   | 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°  | 2347465 | 2347465 | 2347465 |
| 5°  | 1902786 | 2137137 | 2353559 |
| 10° | 1034509 | 1517346 | 2101681 |
| 15° | 437573  | 851498  | 1682258 |
| 20° | 223398  | 400384  | 1163192 |
| 25° | 123680  | 204790  | 708980  |
| 30° | 69274   | 113766  | 386645  |
| 35° | 40112   | 68841   | 196947  |
| 40° | 29819   | 52167   | 109036  |
| 45° | 26234   | 35305   | 64609   |
| 50° | 27785   | 23333   | 34462   |
| 55° | 19955   | 16171   | 18665   |
| 60° | 12827   | 11446   | 11446   |
| 65° | 10156   | 10156   | 10156   |
| 70° | 8366    | 8366    | 8366    |
| 75° | 8197    | 8197    | 8197    |
| 80° | 8239    | 8239    | 8239    |
| 85° | 7925    | 7925    | 7925    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 64609 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 370.7  | 27.6      |
| 10°-20°   | 524.3  | 39.1      |
| 20°-30°   | 270.1  | 20.1      |
| 30°-40°   | 99.4   | 7.4       |
| 40°-50°   | 43.7   | 3.3       |
| 50°-60°   | 19.2   | 1.4       |
| 60°-70°   | 8.4    | 0.6       |
| 70°-80°   | 4.2    | 0.3       |
| 80°-90°   | 1.2    | 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°    | 1165.1 | 86.9      |
| 0°-40°    | 1264.5 | 94.3      |
| 0°-60°    | 1327.3 | 99.0      |
| 0°-90°    | 1341.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1341.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4758 | 4758  | 4758 | 4758  | 4758 |      |
| 5°  | 3842 | 3972  | 4315 | 4621  | 4752 | 309  |
| 15° | 857  | 996   | 1667 | 2781  | 3294 | 262  |
| 25° | 227  | 255   | 376  | 864   | 1302 | 109  |
| 35° | 67   | 77    | 114  | 200   | 327  | 45   |
| 45° | 38   | 43    | 51   | 61    | 93   | 30   |
| 55° | 23   | 20    | 19   | 20    | 22   | 21   |
| 65° | 9    | 9     | 9    | 7     | 9    | 9    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4758.1 | 4758.1 | 4758.1 | 4758.1 | 4758.1 |
| 2.5°  | 4486.1 | 4539.6 | 4639.4 | 4735.0 | 4774.0 |
| 5°    | 3842.1 | 3972.3 | 4315.3 | 4620.6 | 4752.3 |
| 7.5°  | 2975.3 | 3189.4 | 3745.1 | 4316.7 | 4551.2 |
| 10°   | 2065.0 | 2282.1 | 3028.8 | 3850.8 | 4195.2 |
| 12.5° | 1316.9 | 1528.2 | 2334.2 | 3334.2 | 3781.3 |
| 15°   | 856.7  | 995.6  | 1667.1 | 2781.4 | 3293.6 |
| 17.5° | 594.8  | 693.2  | 1134.5 | 2195.3 | 2753.9 |
| 20°   | 425.5  | 494.9  | 762.6  | 1674.3 | 2215.5 |
| 22.5° | 308.2  | 356.0  | 529.6  | 1222.8 | 1722.1 |
| 25°   | 227.2  | 254.7  | 376.2  | 863.9  | 1302.4 |
| 27.5° | 167.9  | 185.2  | 272.1  | 596.2  | 952.2  |
| 30°   | 121.6  | 136.0  | 199.7  | 409.5  | 678.7  |
| 32.5° | 88.3   | 101.3  | 149.1  | 283.6  | 473.2  |
| 35°   | 66.6   | 76.7   | 114.3  | 199.7  | 327.0  |
| 37.5° | 55.0   | 60.8   | 94.1   | 144.7  | 231.5  |
| 40°   | 46.3   | 52.1   | 81.0   | 107.1  | 169.3  |
| 42.5° | 40.5   | 47.8   | 66.6   | 79.6   | 127.3  |
| 45°   | 37.6   | 43.4   | 50.6   | 60.8   | 92.6   |
| 47.5° | 37.6   | 36.2   | 39.1   | 46.3   | 65.1   |
| 50°   | 36.2   | 30.4   | 30.4   | 36.2   | 44.9   |
| 52.5° | 30.4   | 24.6   | 24.6   | 26.0   | 30.4   |
| 55°   | 23.2   | 20.3   | 18.8   | 20.3   | 21.7   |
| 57.5° | 17.4   | 17.4   | 15.9   | 14.5   | 15.9   |
| 60°   | 13.0   | 13.0   | 11.6   | 11.6   | 11.6   |
| 62.5° | 10.1   | 10.1   | 10.1   | 8.7    | 10.1   |
| 65°   | 8.7    | 8.7    | 8.7    | 7.2    | 8.7    |
| 67.5° | 7.2    | 7.2    | 5.8    | 7.2    | 7.2    |
| 70°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 72.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 75°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 77.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 80°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 85°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 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)