

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: P1179169

Luminaire Tested: LDA2B158030R2040D010 2LBD1WMH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179169  
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: LDA2B158030R2040D010 2LBD1WMH  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

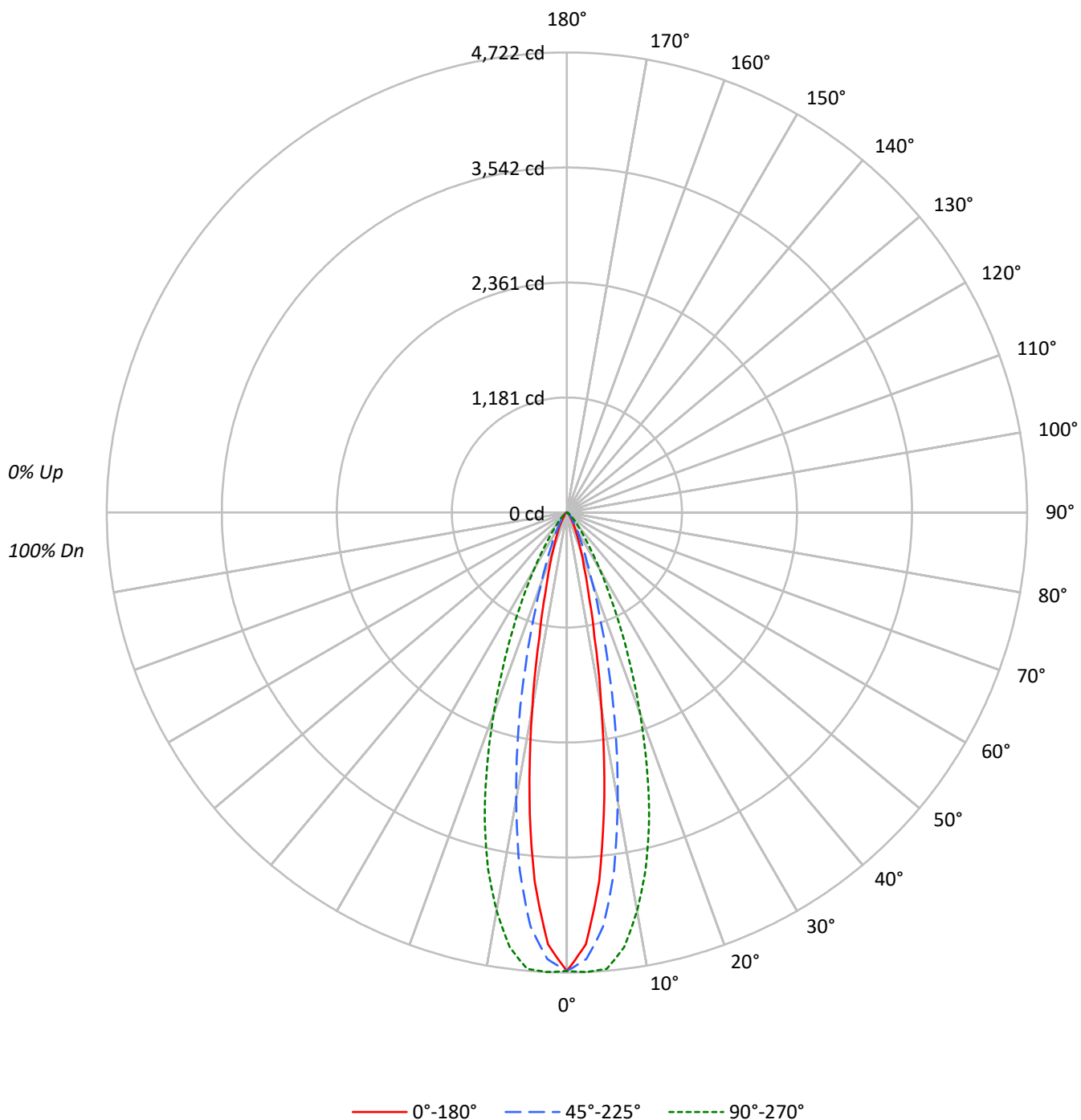
Lumens per Lamp: N/A  
Luminaire Lumens: 1326.3 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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   | 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°  | 2321711 | 2321711 | 2321711 |
| 5°  | 1881887 | 2113662 | 2327757 |
| 10° | 1023187 | 1500714 | 2078586 |
| 15° | 432772  | 842150  | 1663819 |
| 20° | 220930  | 396026  | 1150434 |
| 25° | 122319  | 202558  | 701196  |
| 30° | 68476   | 112513  | 382373  |
| 35° | 39630   | 68118   | 194839  |
| 40° | 29497   | 51587   | 107876  |
| 45° | 25955   | 34956   | 63911   |
| 50° | 27478   | 23103   | 34079   |
| 55° | 19697   | 15999   | 18493   |
| 60° | 12729   | 11249   | 11249   |
| 65° | 10040   | 10040   | 10040   |
| 70° | 8222    | 8222    | 8222    |
| 75° | 8197    | 8197    | 8197    |
| 80° | 8239    | 8239    | 8239    |
| 85° | 7925    | 7925    | 7925    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 63911 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 366.7  | 27.6      |
| 10°-20°   | 518.5  | 39.1      |
| 20°-30°   | 267.1  | 20.1      |
| 30°-40°   | 98.3   | 7.4       |
| 40°-50°   | 43.2   | 3.3       |
| 50°-60°   | 18.9   | 1.4       |
| 60°-70°   | 8.3    | 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°    | 1152.3 | 86.9      |
| 0°-40°    | 1250.6 | 94.3      |
| 0°-60°    | 1312.7 | 99.0      |
| 0°-90°    | 1326.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1326.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4706 | 4706  | 4706 | 4706  | 4706 |      |
| 5°  | 3800 | 3929  | 4268 | 4570  | 4700 | 306  |
| 15° | 847  | 985   | 1649 | 2751  | 3258 | 259  |
| 25° | 225  | 252   | 372  | 854   | 1288 | 108  |
| 35° | 66   | 76    | 113  | 198   | 324  | 45   |
| 45° | 37   | 43    | 50   | 60    | 92   | 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°    | 4705.9 | 4705.9 | 4705.9 | 4705.9 | 4705.9 |
| 2.5°  | 4436.8 | 4489.8 | 4588.5 | 4683.0 | 4721.6 |
| 5°    | 3799.9 | 3928.7 | 4267.9 | 4569.9 | 4700.2 |
| 7.5°  | 2942.6 | 3154.4 | 3704.0 | 4269.4 | 4501.2 |
| 10°   | 2042.4 | 2257.1 | 2995.6 | 3808.5 | 4149.1 |
| 12.5° | 1302.4 | 1511.4 | 2308.6 | 3297.6 | 3739.8 |
| 15°   | 847.3  | 984.7  | 1648.8 | 2750.8 | 3257.5 |
| 17.5° | 588.2  | 685.6  | 1122.1 | 2171.2 | 2723.6 |
| 20°   | 420.8  | 489.5  | 754.3  | 1655.9 | 2191.2 |
| 22.5° | 304.9  | 352.1  | 523.8  | 1209.4 | 1703.2 |
| 25°   | 224.7  | 251.9  | 372.1  | 854.4  | 1288.1 |
| 27.5° | 166.0  | 183.2  | 269.1  | 589.7  | 941.8  |
| 30°   | 120.2  | 134.5  | 197.5  | 405.0  | 671.2  |
| 32.5° | 87.3   | 100.2  | 147.4  | 280.5  | 468.0  |
| 35°   | 65.8   | 75.9   | 113.1  | 197.5  | 323.5  |
| 37.5° | 54.4   | 60.1   | 93.0   | 143.1  | 229.0  |
| 40°   | 45.8   | 51.5   | 80.1   | 105.9  | 167.5  |
| 42.5° | 40.1   | 47.2   | 65.8   | 78.7   | 125.9  |
| 45°   | 37.2   | 42.9   | 50.1   | 60.1   | 91.6   |
| 47.5° | 37.2   | 35.8   | 38.6   | 45.8   | 64.4   |
| 50°   | 35.8   | 30.1   | 30.1   | 35.8   | 44.4   |
| 52.5° | 30.1   | 24.3   | 24.3   | 25.8   | 30.1   |
| 55°   | 22.9   | 20.0   | 18.6   | 20.0   | 21.5   |
| 57.5° | 17.2   | 17.2   | 15.7   | 14.3   | 15.7   |
| 60°   | 12.9   | 12.9   | 11.4   | 11.4   | 11.4   |
| 62.5° | 10.0   | 10.0   | 10.0   | 8.6    | 10.0   |
| 65°   | 8.6    | 8.6    | 8.6    | 7.2    | 8.6    |
| 67.5° | 7.2    | 7.2    | 5.7    | 7.2    | 7.2    |
| 70°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 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)