

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: P1179322

Luminaire Tested: LDA2B159024R2040D010 2LBD1WMH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179322  
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: LDA2B159024R2040D010 2LBD1WMH  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

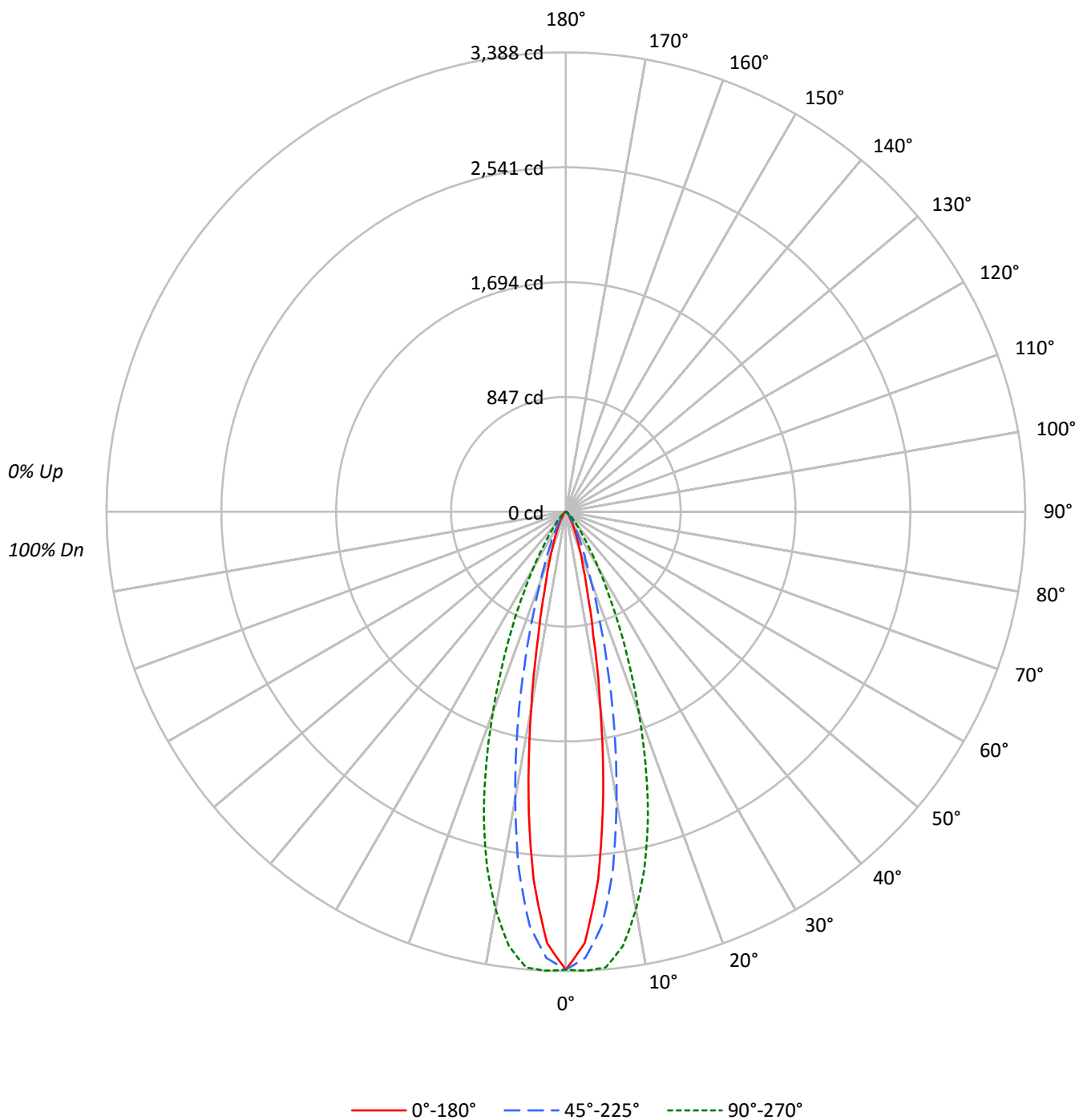
Lumens per Lamp: N/A  
Luminaire Lumens: 951.7 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 98  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 94  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 90  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 86  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 81  | 83  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 77  | 79  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 76  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 74  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 71  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 69  | 67  | 67  | 69  | 66  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1665885 | 1665885 | 1665885 |
| 5°  | 1350339 | 1516642 | 1670218 |
| 10° | 734175  | 1076791 | 1491446 |
| 15° | 310546  | 604287  | 1193813 |
| 20° | 158505  | 284143  | 825496  |
| 25° | 87752   | 145345  | 503156  |
| 30° | 49164   | 80724   | 274360  |
| 35° | 28428   | 48845   | 139790  |
| 40° | 21189   | 37032   | 77413   |
| 45° | 18629   | 25048   | 45840   |
| 50° | 19726   | 16579   | 24408   |
| 55° | 14106   | 11526   | 13246   |
| 60° | 9078    | 8091    | 8091    |
| 65° | 7238    | 7238    | 7238    |
| 70° | 5914    | 5914    | 5914    |
| 75° | 5909    | 5909    | 5909    |
| 80° | 5966    | 5966    | 5966    |
| 85° | 5661    | 5661    | 5661    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45840 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 263.1  | 27.6      |
| 10°-20°   | 372.0  | 39.1      |
| 20°-30°   | 191.7  | 20.1      |
| 30°-40°   | 70.5   | 7.4       |
| 40°-50°   | 31.0   | 3.3       |
| 50°-60°   | 13.6   | 1.4       |
| 60°-70°   | 5.9    | 0.6       |
| 70°-80°   | 3.0    | 0.3       |
| 80°-90°   | 0.8    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 826.8  | 86.9      |
| 0°-40°    | 897.3  | 94.3      |
| 0°-60°    | 941.9  | 99.0      |
| 0°-90°    | 951.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 951.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3377 | 3377  | 3377 | 3377  | 3377 |      |
| 5°  | 2727 | 2819  | 3062 | 3279  | 3372 | 219  |
| 15° | 608  | 706   | 1183 | 1974  | 2337 | 186  |
| 25° | 161  | 181   | 267  | 613   | 924  | 77   |
| 35° | 47   | 54    | 81   | 142   | 232  | 32   |
| 45° | 27   | 31    | 36   | 43    | 66   | 22   |
| 55° | 16   | 14    | 13   | 14    | 15   | 15   |
| 65° | 6    | 6     | 6    | 5     | 6    | 6    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 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°    | 3376.6 | 3376.6 | 3376.6 | 3376.6 | 3376.6 |
| 2.5°  | 3183.6 | 3221.6 | 3292.4 | 3360.2 | 3387.9 |
| 5°    | 2726.6 | 2819.0 | 3062.4 | 3279.1 | 3372.5 |
| 7.5°  | 2111.4 | 2263.4 | 2657.8 | 3063.4 | 3229.8 |
| 10°   | 1465.5 | 1619.5 | 2149.4 | 2732.7 | 2977.1 |
| 12.5° | 934.5  | 1084.5 | 1656.5 | 2366.1 | 2683.4 |
| 15°   | 608.0  | 706.5  | 1183.1 | 1973.8 | 2337.3 |
| 17.5° | 422.1  | 491.9  | 805.1  | 1557.9 | 1954.3 |
| 20°   | 301.9  | 351.2  | 541.2  | 1188.2 | 1572.3 |
| 22.5° | 218.7  | 252.6  | 375.9  | 867.8  | 1222.1 |
| 25°   | 161.2  | 180.7  | 267.0  | 613.1  | 924.3  |
| 27.5° | 119.1  | 131.5  | 193.1  | 423.1  | 675.7  |
| 30°   | 86.3   | 96.5   | 141.7  | 290.6  | 481.6  |
| 32.5° | 62.6   | 71.9   | 105.8  | 201.3  | 335.8  |
| 35°   | 47.2   | 54.4   | 81.1   | 141.7  | 232.1  |
| 37.5° | 39.0   | 43.1   | 66.8   | 102.7  | 164.3  |
| 40°   | 32.9   | 37.0   | 57.5   | 76.0   | 120.2  |
| 42.5° | 28.8   | 33.9   | 47.2   | 56.5   | 90.4   |
| 45°   | 26.7   | 30.8   | 35.9   | 43.1   | 65.7   |
| 47.5° | 26.7   | 25.7   | 27.7   | 32.9   | 46.2   |
| 50°   | 25.7   | 21.6   | 21.6   | 25.7   | 31.8   |
| 52.5° | 21.6   | 17.5   | 17.5   | 18.5   | 21.6   |
| 55°   | 16.4   | 14.4   | 13.4   | 14.4   | 15.4   |
| 57.5° | 12.3   | 12.3   | 11.3   | 10.3   | 11.3   |
| 60°   | 9.2    | 9.2    | 8.2    | 8.2    | 8.2    |
| 62.5° | 7.2    | 7.2    | 7.2    | 6.2    | 7.2    |
| 65°   | 6.2    | 6.2    | 6.2    | 5.1    | 6.2    |
| 67.5° | 5.1    | 5.1    | 4.1    | 5.1    | 5.1    |
| 70°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 72.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 75°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 77.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 80°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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)