

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: P1178212

Luminaire Tested: LDA2B058035R2050D010 2LBDC1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178212  
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: LDA2B058035R2050D010 2LBDC1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

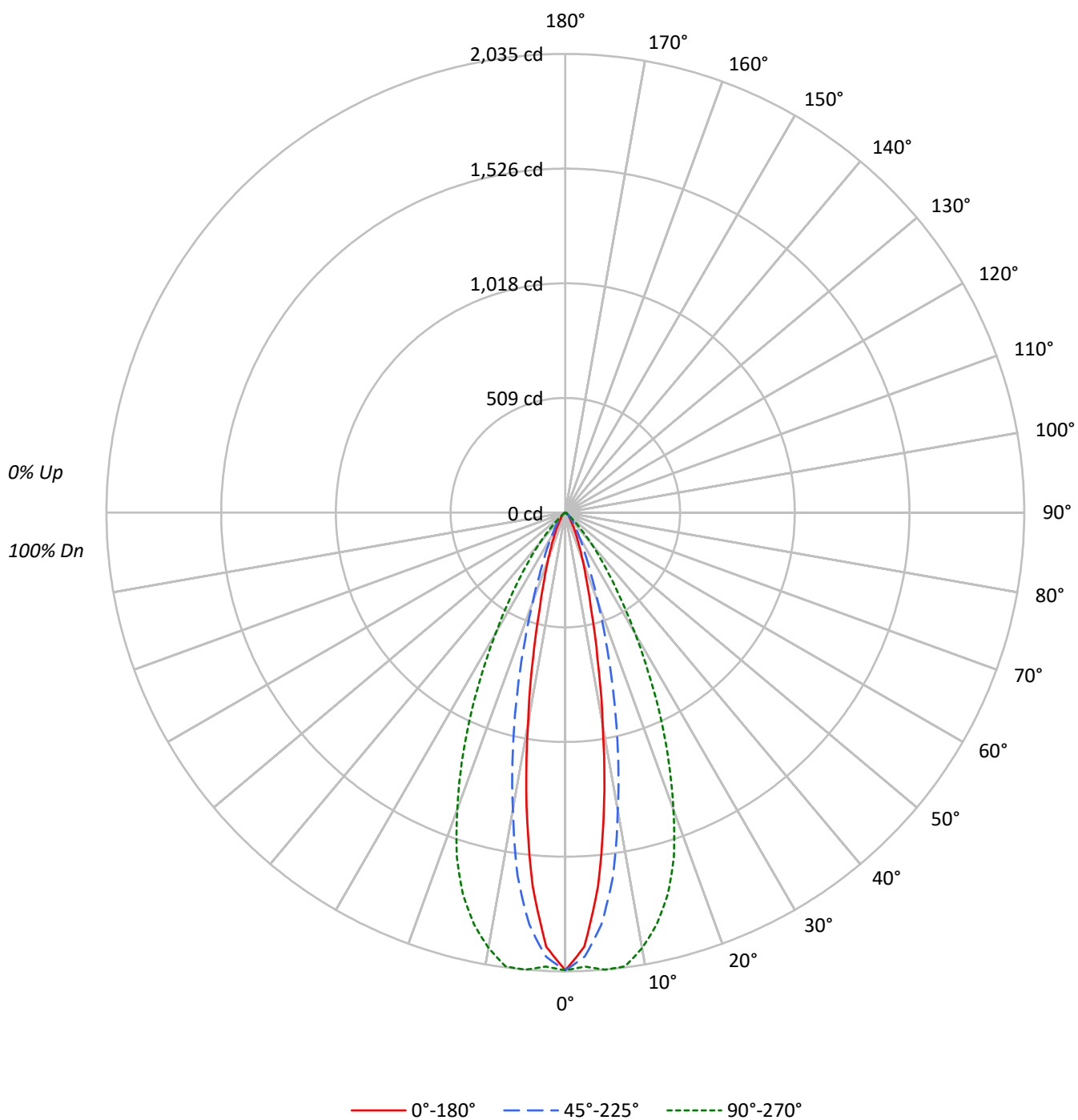
Lumens per Lamp: N/A  
Luminaire Lumens: 729.7 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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

TEST NUMBER: P1178212

CATALOG NUMBER: LDA2B058035R2050D010 2LBDC1MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1178212

CATALOG NUMBER: LDA2B058035R2050D010 2LBDC1MB

**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  | 63  |  | 69  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1001574 | 1001574 | 1001574 |
| 5°  | 823446  | 908529  | 1007925 |
| 10° | 477978  | 671354  | 982658  |
| 15° | 222694  | 418113  | 895526  |
| 20° | 117343  | 220458  | 736032  |
| 25° | 64997   | 119379  | 542895  |
| 30° | 38112   | 69957   | 351097  |
| 35° | 24453   | 46918   | 208029  |
| 40° | 19064   | 31622   | 115605  |
| 45° | 16536   | 18908   | 51422   |
| 50° | 14967   | 12971   | 18881   |
| 55° | 10236   | 9462    | 8774    |
| 60° | 7499    | 6710    | 6710    |
| 65° | 5954    | 4903    | 5954    |
| 70° | 4904    | 4904    | 4904    |
| 75° | 4766    | 4766    | 4766    |
| 80° | 4830    | 4830    | 4830    |
| 85° | 4529    | 4529    | 4529    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 51422 cd/sqm

TEST NUMBER: P1178212

CATALOG NUMBER: LDA2B058035R2050D010 2LBDC1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 161.6  | 22.2      |
| 10°-20°   | 264.7  | 36.3      |
| 20°-30°   | 176.5  | 24.2      |
| 30°-40°   | 79.6   | 10.9      |
| 40°-50°   | 29.1   | 4.0       |
| 50°-60°   | 10.2   | 1.4       |
| 60°-70°   | 4.8    | 0.7       |
| 70°-80°   | 2.5    | 0.3       |
| 80°-90°   | 0.7    | 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°    | 602.8  | 82.6      |
| 0°-40°    | 682.4  | 93.5      |
| 0°-60°    | 721.8  | 98.9      |
| 0°-90°    | 729.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 729.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2030 | 2030  | 2030 | 2030  | 2030 |      |
| 5°  | 1663 | 1714  | 1834 | 1968  | 2035 | 136  |
| 15° | 436  | 512   | 819  | 1383  | 1753 | 131  |
| 25° | 119  | 139   | 219  | 598   | 997  | 58   |
| 35° | 41   | 46    | 78   | 168   | 345  | 27   |
| 45° | 24   | 24    | 27   | 42    | 74   | 19   |
| 55° | 12   | 11    | 11   | 9     | 10   | 11   |
| 65° | 5    | 5     | 4    | 4     | 5    | 5    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1178212

CATALOG NUMBER: LDA2B058035R2050D010 2LBDC1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2030.1 | 2030.1 | 2030.1 | 2030.1 | 2030.1 |
| 2.5°  | 1927.7 | 1948.0 | 1971.7 | 1996.2 | 2015.7 |
| 5°    | 1662.7 | 1714.3 | 1834.5 | 1968.3 | 2035.2 |
| 7.5°  | 1314.7 | 1390.9 | 1624.6 | 1888.7 | 2030.1 |
| 10°   | 954.1  | 1051.4 | 1340.1 | 1750.7 | 1961.5 |
| 12.5° | 656.1  | 747.5  | 1075.2 | 1576.3 | 1870.9 |
| 15°   | 436.0  | 512.2  | 818.6  | 1383.3 | 1753.3 |
| 17.5° | 307.3  | 358.9  | 595.1  | 1172.5 | 1601.7 |
| 20°   | 223.5  | 258.2  | 419.9  | 965.9  | 1401.9 |
| 22.5° | 162.5  | 188.8  | 298.8  | 772.1  | 1199.6 |
| 25°   | 119.4  | 138.8  | 219.3  | 597.7  | 997.3  |
| 27.5° | 88.9   | 104.1  | 164.2  | 453.8  | 794.9  |
| 30°   | 66.9   | 79.6   | 122.8  | 334.4  | 616.3  |
| 32.5° | 51.6   | 60.1   | 94.0   | 238.7  | 466.5  |
| 35°   | 40.6   | 45.7   | 77.9   | 168.5  | 345.4  |
| 37.5° | 33.9   | 37.2   | 64.3   | 117.7  | 253.1  |
| 40°   | 29.6   | 32.2   | 49.1   | 83.8   | 179.5  |
| 42.5° | 26.2   | 27.9   | 35.6   | 60.1   | 116.8  |
| 45°   | 23.7   | 23.7   | 27.1   | 42.3   | 73.7   |
| 47.5° | 22.0   | 19.5   | 21.2   | 29.6   | 43.2   |
| 50°   | 19.5   | 16.1   | 16.9   | 20.3   | 24.6   |
| 52.5° | 15.2   | 13.5   | 13.5   | 13.5   | 14.4   |
| 55°   | 11.9   | 11.0   | 11.0   | 9.3    | 10.2   |
| 57.5° | 9.3    | 9.3    | 8.5    | 7.6    | 8.5    |
| 60°   | 7.6    | 7.6    | 6.8    | 5.9    | 6.8    |
| 62.5° | 5.9    | 5.9    | 5.1    | 5.1    | 5.9    |
| 65°   | 5.1    | 5.1    | 4.2    | 4.2    | 5.1    |
| 67.5° | 4.2    | 4.2    | 4.2    | 3.4    | 4.2    |
| 70°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 72.5° | 2.5    | 2.5    | 3.4    | 2.5    | 2.5    |
| 75°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 77.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 80°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)