

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: P1179459

Luminaire Tested: LDA2B159035R2060D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159035R2060D010 2LBD1LI  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

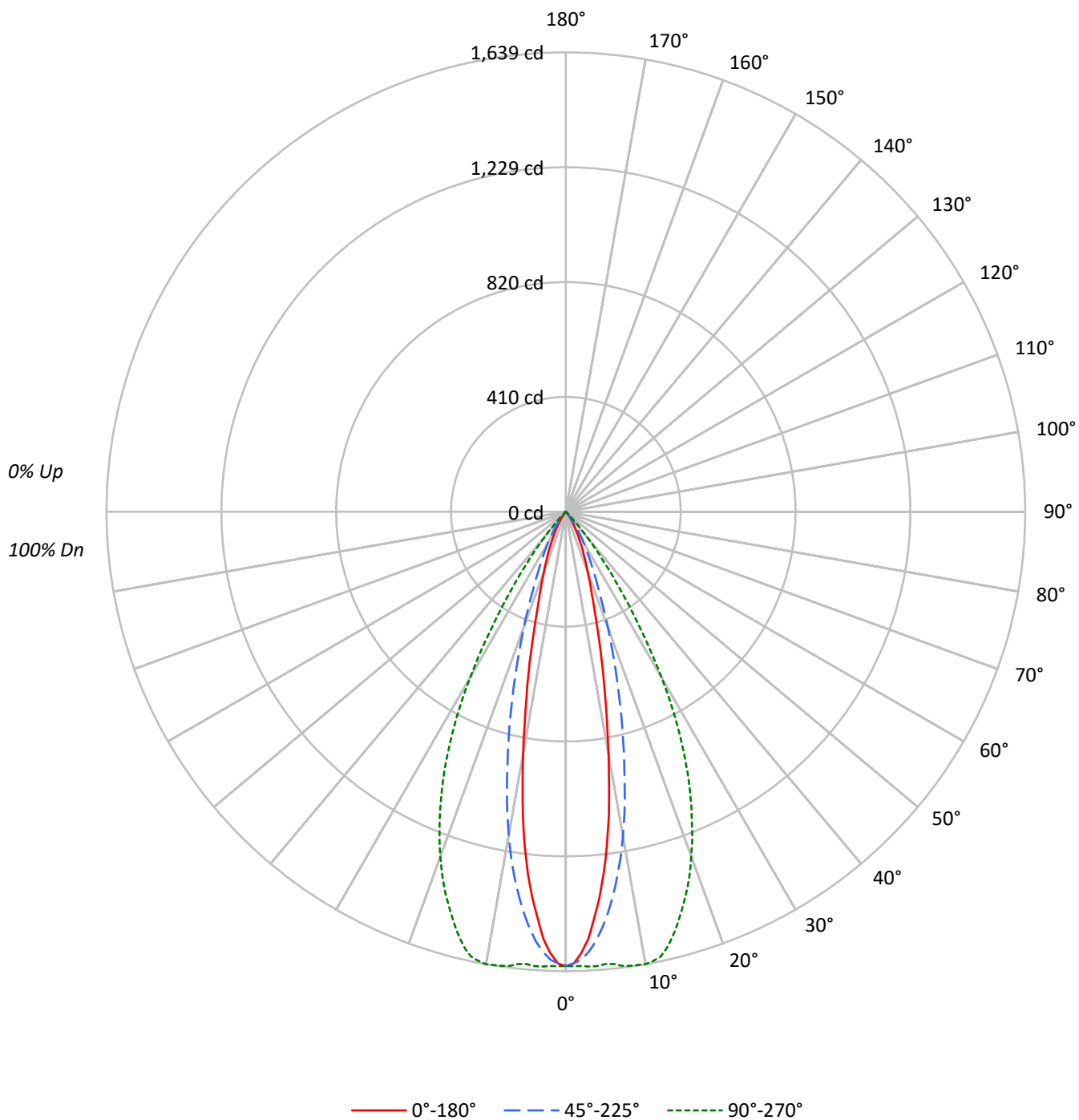
Lumens per Lamp: N/A  
Luminaire Lumens: 645.7 lumens  
Efficiency: N/A  
Efficacy: 45.8 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 93  | 92  | 92  | 92  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 87  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 79  | 79  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 76  | 76  | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 72  | 72  | 71  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 70  | 66  | 64  | 64  | 64  | 62  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 799739 | 799739 | 799739 |
| 5°  | 682945 | 738165 | 802002 |
| 10° | 439704 | 588493 | 821094 |
| 15° | 225554 | 392472 | 781369 |
| 20° | 120441 | 229383 | 687257 |
| 25° | 67175  | 125748 | 559062 |
| 30° | 35833  | 71609  | 389437 |
| 35° | 15599  | 34571  | 203030 |
| 40° | 4573   | 10111  | 76898  |
| 45° | 1116   | 2721   | 11512  |
| 50° | 614    | 614    | 1228   |
| 55° | 688    | 688    | 688    |
| 60° | 0      | 789    | 789    |
| 65° | 0      | 934    | 934    |
| 70° | 0      | 1154   | 1154   |
| 75° | 0      | 1525   | 1525   |
| 80° | 0      | 2273   | 2273   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 11512 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.8  | 20.7      |
| 10°-20°   | 243.5  | 37.7      |
| 20°-30°   | 184.6  | 28.6      |
| 30°-40°   | 73.9   | 11.4      |
| 40°-50°   | 7.5    | 1.2       |
| 50°-60°   | 0.8    | 0.1       |
| 60°-70°   | 0.7    | 0.1       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.2    | 0.0       |
| 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°    | 562.0  | 87.0      |
| 0°-40°    | 635.8  | 98.5      |
| 0°-60°    | 644.1  | 99.8      |
| 0°-90°    | 645.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 645.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1621 | 1621  | 1621 | 1621  | 1621 |      |
| 5°  | 1379 | 1410  | 1490 | 1577  | 1619 | 115  |
| 15° | 442  | 512   | 768  | 1265  | 1530 | 126  |
| 25° | 123  | 144   | 231  | 660   | 1027 | 58   |
| 35° | 26   | 32    | 57   | 174   | 337  | 18   |
| 45° | 2    | 2     | 4    | 8     | 16   | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 0    |
| 65° | 0    | 1     | 1    | 1     | 1    | 0    |
| 75° | 0    | 1     | 1    | 1     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1621.0 | 1621.0 | 1621.0 | 1621.0 | 1621.0 |
| 1°    | 1612.3 | 1613.1 | 1611.5 | 1613.9 | 1621.8 |
| 2°    | 1576.2 | 1588.0 | 1598.2 | 1608.4 | 1621.8 |
| 3°    | 1525.9 | 1540.0 | 1572.3 | 1604.5 | 1624.9 |
| 4°    | 1452.0 | 1481.1 | 1536.1 | 1595.0 | 1624.9 |
| 5°    | 1379.0 | 1409.6 | 1490.5 | 1577.0 | 1619.4 |
| 6°    | 1295.7 | 1339.7 | 1437.9 | 1559.7 | 1622.5 |
| 7°    | 1201.4 | 1255.6 | 1379.8 | 1548.7 | 1632.0 |
| 8°    | 1099.2 | 1160.5 | 1316.1 | 1525.1 | 1635.9 |
| 9°    | 986.1  | 1060.7 | 1248.5 | 1496.8 | 1637.5 |
| 10°   | 877.7  | 956.2  | 1174.7 | 1464.6 | 1639.0 |
| 11°   | 769.2  | 851.0  | 1094.5 | 1433.2 | 1632.8 |
| 12°   | 677.3  | 755.1  | 1010.5 | 1400.2 | 1623.3 |
| 13°   | 592.4  | 667.9  | 927.2  | 1360.9 | 1599.0 |
| 14°   | 513.9  | 587.7  | 847.0  | 1315.3 | 1566.8 |
| 15°   | 441.6  | 512.3  | 768.4  | 1265.0 | 1529.8 |
| 16°   | 376.4  | 442.4  | 693.0  | 1209.2 | 1489.0 |
| 17°   | 329.2  | 381.9  | 622.3  | 1150.3 | 1448.9 |
| 18°   | 292.3  | 331.6  | 555.5  | 1092.2 | 1406.5 |
| 19°   | 259.3  | 290.7  | 493.4  | 1031.7 | 1359.3 |
| 20°   | 229.4  | 257.7  | 436.9  | 968.8  | 1309.0 |
| 21°   | 204.3  | 228.6  | 384.2  | 906.7  | 1258.0 |
| 22°   | 182.3  | 203.5  | 337.1  | 845.5  | 1202.2 |
| 23°   | 161.9  | 180.7  | 297.0  | 783.4  | 1146.4 |
| 24°   | 142.2  | 162.6  | 261.6  | 720.5  | 1088.2 |
| 25°   | 123.4  | 143.8  | 231.0  | 660.0  | 1027.0 |
| 26°   | 108.4  | 127.3  | 205.1  | 601.1  | 963.3  |
| 27°   | 93.5   | 113.1  | 182.3  | 544.5  | 898.9  |
| 28°   | 81.7   | 99.8   | 161.9  | 490.3  | 829.0  |
| 29°   | 70.7   | 88.0   | 143.0  | 436.9  | 757.4  |
| 30°   | 62.9   | 76.2   | 125.7  | 386.6  | 683.6  |
| 32.5° | 43.2   | 51.1   | 88.0   | 271.9  | 498.9  |
| 35°   | 25.9   | 32.2   | 57.4   | 174.4  | 337.1  |
| 37.5° | 14.1   | 17.3   | 33.0   | 104.5  | 212.1  |
| 40°   | 7.1    | 8.6    | 15.7   | 51.1   | 119.4  |
| 42.5° | 3.1    | 3.9    | 7.1    | 19.6   | 51.1   |
| 45°   | 1.6    | 2.4    | 3.9    | 7.9    | 16.5   |
| 47.5° | 0.8    | 1.6    | 1.6    | 3.1    | 4.7    |
| 50°   | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 52.5° | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 55°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 57.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 60°   | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 62.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 65°   | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 70°   | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 72.5° | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 75°   | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 77.5° | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 80°   | 0.0 | 0.0   | 0.8 | 0.8   | 0.8 |
| 82.5° | 0.0 | 0.0   | 0.8 | 0.8   | 0.8 |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 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)