

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: P778253

Luminaire Tested: LERS4D15D010-EC4DR2015309024-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D15D010-EC4DR2015309024-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1306.8 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

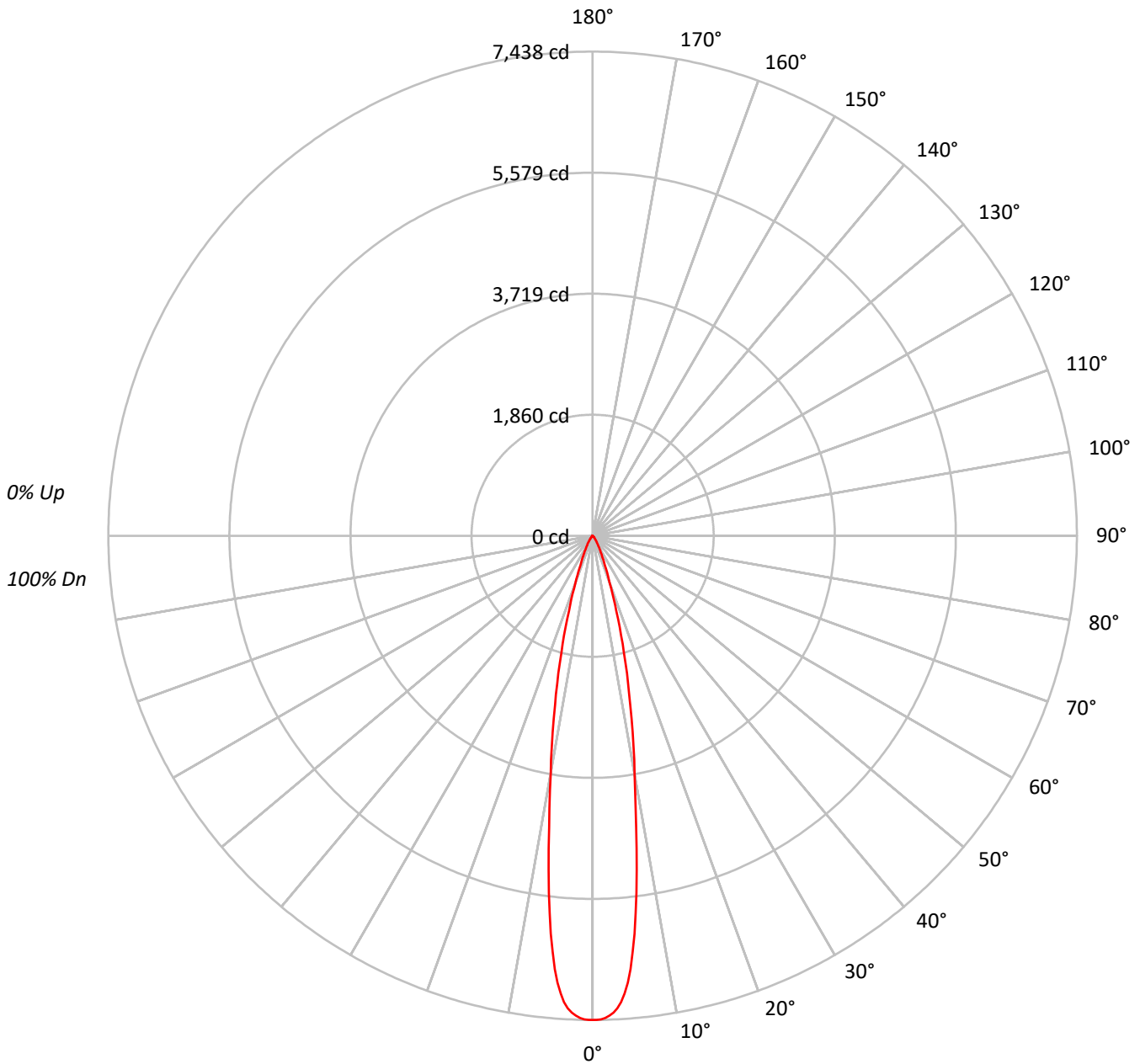


Downlight



TEST NUMBER: P778253  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |    |     |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |    |     |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 |    |    |    | 100 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 98 | 96 | 95 | 94  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99  | 100 | 99  | 97  | 98  | 96  | 95  | 94  | 98 | 96 | 95 | 94  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 108 | 103 | 100 | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 97  | 95  | 93  | 95  | 93  | 92  | 91  | 95 | 93 | 92 | 91  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 105 | 99  | 96  | 93  | 103 | 98  | 95  | 92  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 89  | 88  | 93 | 91 | 89 | 88  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 102 | 96  | 92  | 89  | 100 | 95  | 91  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 91  | 88  | 86  | 85  | 91 | 88 | 86 | 85  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 99  | 93  | 89  | 86  | 98  | 92  | 88  | 86  | 91  | 87  | 85  | 90  | 87  | 84  | 88  | 86  | 84  | 83  | 88 | 86 | 84 | 83  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 96  | 90  | 86  | 83  | 95  | 89  | 86  | 83  | 88  | 85  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  | 86 | 84 | 82 | 81  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 94  | 87  | 83  | 81  | 93  | 87  | 83  | 80  | 86  | 83  | 80  | 85  | 82  | 80  | 84  | 82  | 80  | 79  | 84 | 82 | 80 | 79  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 91  | 85  | 81  | 78  | 91  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 78  | 82  | 80  | 78  | 77  | 82 | 80 | 78 | 77  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 89  | 83  | 79  | 76  | 88  | 82  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 76  | 81  | 78  | 76  | 75  | 81 | 78 | 76 | 75  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 812681 |
| 5°  | 733198 |
| 10° | 411511 |
| 15° | 209172 |
| 20° | 88565  |
| 25° | 40881  |
| 30° | 21637  |
| 35° | 11658  |
| 40° | 6233   |
| 45° | 3678   |
| 50° | 2142   |
| 55° | 1143   |
| 60° | 721    |
| 65° | 517    |
| 70° | 224    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3678 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 529.6  | 40.5      |
| 10°-20°   | 521.5  | 39.9      |
| 20°-30°   | 170.3  | 13.0      |
| 30°-40°   | 58.0   | 4.4       |
| 40°-50°   | 19.5   | 1.5       |
| 50°-60°   | 5.9    | 0.4       |
| 60°-70°   | 1.9    | 0.1       |
| 70°-80°   | 0.1    | 0.0       |
| 80°-90°   | 0.0    | 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       |
| 0°-30°    | 1221.4 | 93.5      |
| 0°-40°    | 1279.4 | 97.9      |
| 0°-60°    | 1304.7 | 99.8      |
| 0°-90°    | 1306.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1306.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7438 |      |
| 5°  | 6685 | 530  |
| 15° | 1849 | 521  |
| 25° | 339  | 170  |
| 35° | 87   | 58   |
| 45° | 24   | 19   |
| 55° | 6    | 6    |
| 65° | 2    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 7438.0 |
| 0.5°  | 7438.0 |
| 1°    | 7428.8 |
| 1.5°  | 7410.2 |
| 2°    | 7376.5 |
| 2.5°  | 7331.4 |
| 3°    | 7267.8 |
| 3.5°  | 7179.1 |
| 4°    | 7047.3 |
| 4.5°  | 6887.0 |
| 5°    | 6685.0 |
| 5.5°  | 6419.4 |
| 6°    | 6147.2 |
| 6.5°  | 5835.2 |
| 7°    | 5529.9 |
| 7.5°  | 5172.2 |
| 8°    | 4852.9 |
| 8.5°  | 4531.7 |
| 9°    | 4235.0 |
| 9.5°  | 3962.8 |
| 10°   | 3709.1 |
| 12.5° | 2663.3 |
| 15°   | 1849.2 |
| 17.5° | 1208.1 |
| 20°   | 761.7  |
| 22.5° | 493.4  |
| 25°   | 339.1  |
| 27.5° | 238.4  |
| 30°   | 171.5  |
| 32.5° | 123.2  |
| 35°   | 87.4   |
| 37.5° | 60.9   |
| 40°   | 43.7   |
| 42.5° | 31.8   |
| 45°   | 23.8   |
| 47.5° | 18.5   |
| 50°   | 12.6   |
| 52.5° | 7.9    |
| 55°   | 6.0    |
| 57.5° | 4.6    |
| 60°   | 3.3    |
| 62.5° | 2.6    |
| 65°   | 2.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 72.5° | 0.0 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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|       |  |     |
|-------|--|-----|
| 67.5° |  | 1.3 |
| 70°   |  | 0.7 |

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Scaled Data Report



(END OF REPORT)