

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: P738757

Luminaire Tested: LD4D02D010-EU4DR100210IC9027-4LBCSSQMMS

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D02D010-EU4DR100210IC9027-4LBCSSQMMS  
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 10° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 315.5 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.1  
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

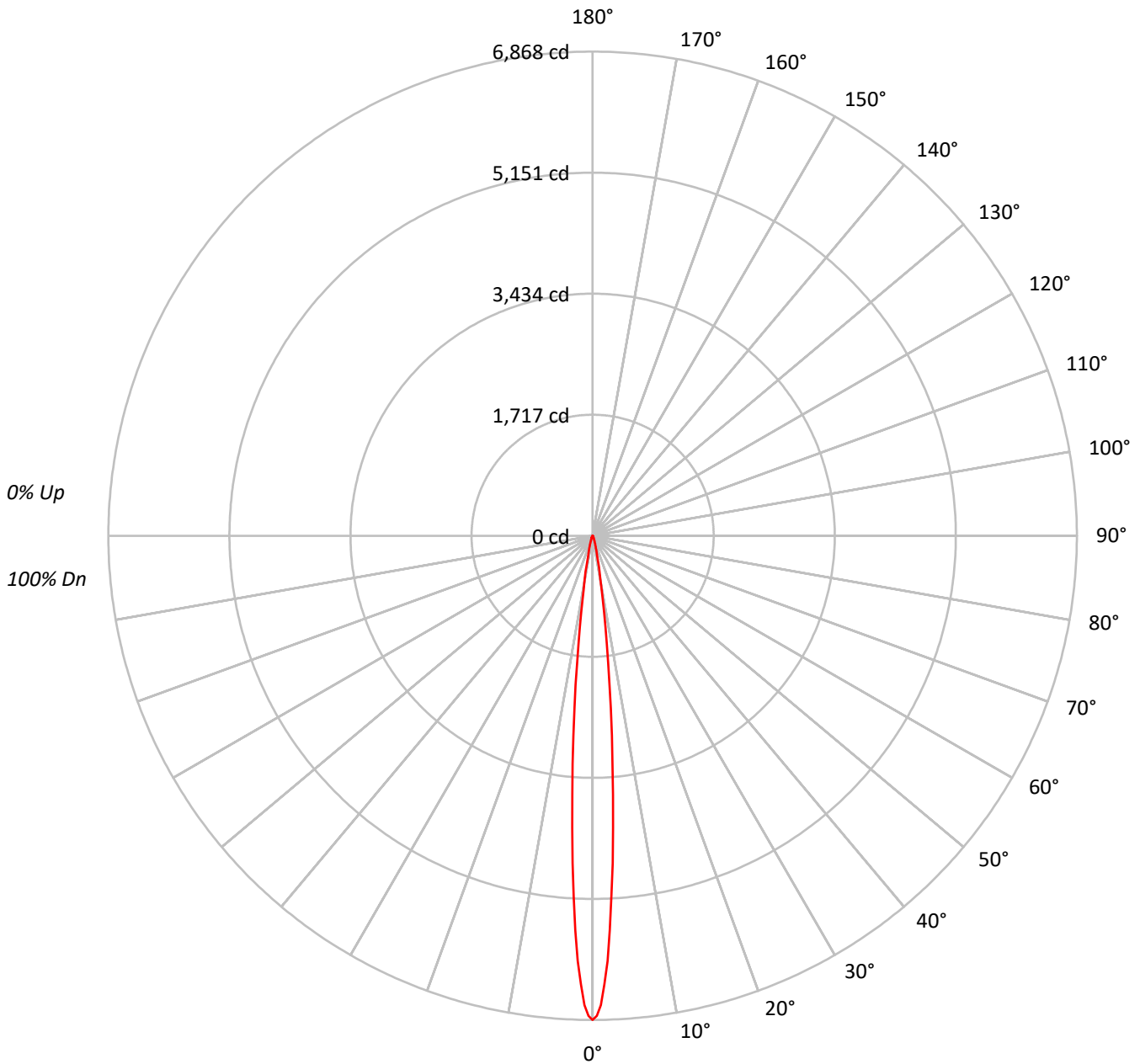


Downlight



TEST NUMBER: P738757  
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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   | 116 | 114 | 113 | 111 | 114 | 112 | 111 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 101 | 100 | 98  |    |    | 98  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 103 | 101 | 100 | 100 | 99  | 98  | 97  |    |    | 97  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99  | 101 | 99  | 98  | 99  | 98  | 96  | 95  |    |    | 95  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 108 | 104 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 99  | 97  | 99  | 97  | 96  | 98  | 96  | 95  | 94  |    |    | 94  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 106 | 102 | 99  | 96  | 105 | 101 | 98  | 96  | 99  | 97  | 95  | 98  | 96  | 94  | 97  | 95  | 94  | 93  |    |    | 93  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 104 | 100 | 96  | 94  | 103 | 99  | 96  | 94  | 98  | 95  | 93  | 97  | 94  | 93  | 96  | 94  | 92  | 91  |    |    | 91  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 103 | 98  | 95  | 93  | 102 | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 92  | 94  | 93  | 91  | 90  |    |    | 90  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 101 | 96  | 93  | 91  | 100 | 96  | 93  | 91  | 95  | 92  | 91  | 94  | 92  | 90  | 93  | 92  | 90  | 89  |    |    | 89  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 100 | 95  | 92  | 90  | 99  | 94  | 92  | 90  | 94  | 91  | 90  | 93  | 91  | 89  | 93  | 91  | 89  | 88  |    |    | 88  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 98  | 94  | 91  | 89  | 98  | 93  | 91  | 89  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 90  | 88  | 87  |    |    | 87  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 750425 |
| 5°  | 355851 |
| 10° | 72980  |
| 15° | 20033  |
| 20° | 8069   |
| 25° | 4328   |
| 30° | 2561   |
| 35° | 1667   |
| 40° | 1113   |
| 45° | 726    |
| 50° | 391    |
| 55° | 305    |
| 60° | 175    |
| 65° | 0      |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 726 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 224.3  | 71.1      |
| 10°-20°   | 60.7   | 19.2      |
| 20°-30°   | 17.4   | 5.5       |
| 30°-40°   | 7.9    | 2.5       |
| 40°-50°   | 3.6    | 1.1       |
| 50°-60°   | 1.2    | 0.4       |
| 60°-70°   | 0.3    | 0.1       |
| 70°-80°   | 0.0    | 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°    | 302.4  | 95.8      |
| 0°-40°    | 310.3  | 98.4      |
| 0°-60°    | 315.2  | 99.9      |
| 0°-90°    | 315.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 315.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6868 |      |
| 5°  | 3244 | 224  |
| 15° | 177  | 61   |
| 25° | 36   | 17   |
| 35° | 12   | 8    |
| 45° | 5    | 4    |
| 55° | 2    | 1    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 6868.2 |
| 0.5°  | 6808.9 |
| 1°    | 6656.8 |
| 1.5°  | 6363.4 |
| 2°    | 6034.9 |
| 2.5°  | 5601.0 |
| 3°    | 5118.8 |
| 3.5°  | 4652.2 |
| 4°    | 4148.9 |
| 4.5°  | 3685.4 |
| 5°    | 3244.5 |
| 5.5°  | 2845.0 |
| 6°    | 2464.2 |
| 6.5°  | 2129.4 |
| 7°    | 1814.2 |
| 7.5°  | 1545.0 |
| 8°    | 1306.2 |
| 8.5°  | 1097.1 |
| 9°    | 916.1  |
| 9.5°  | 778.0  |
| 10°   | 657.8  |
| 12.5° | 313.7  |
| 15°   | 177.1  |
| 17.5° | 107.7  |
| 20°   | 69.4   |
| 22.5° | 48.4   |
| 25°   | 35.9   |
| 27.5° | 26.5   |
| 30°   | 20.3   |
| 32.5° | 15.6   |
| 35°   | 12.5   |
| 37.5° | 9.4    |
| 40°   | 7.8    |
| 42.5° | 6.2    |
| 45°   | 4.7    |
| 47.5° | 3.1    |
| 50°   | 2.3    |
| 52.5° | 1.6    |
| 55°   | 1.6    |
| 57.5° | 0.8    |
| 60°   | 0.8    |
| 62.5° | 0.8    |
| 65°   | 0.0    |



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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° |  | 0.0 |
| 70°   |  | 0.0 |

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Scaled Data Report



(END OF REPORT)