

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: P749199

Luminaire Tested: LD4D50D010-EU4DR3540509030-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR3540509030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4625.5 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

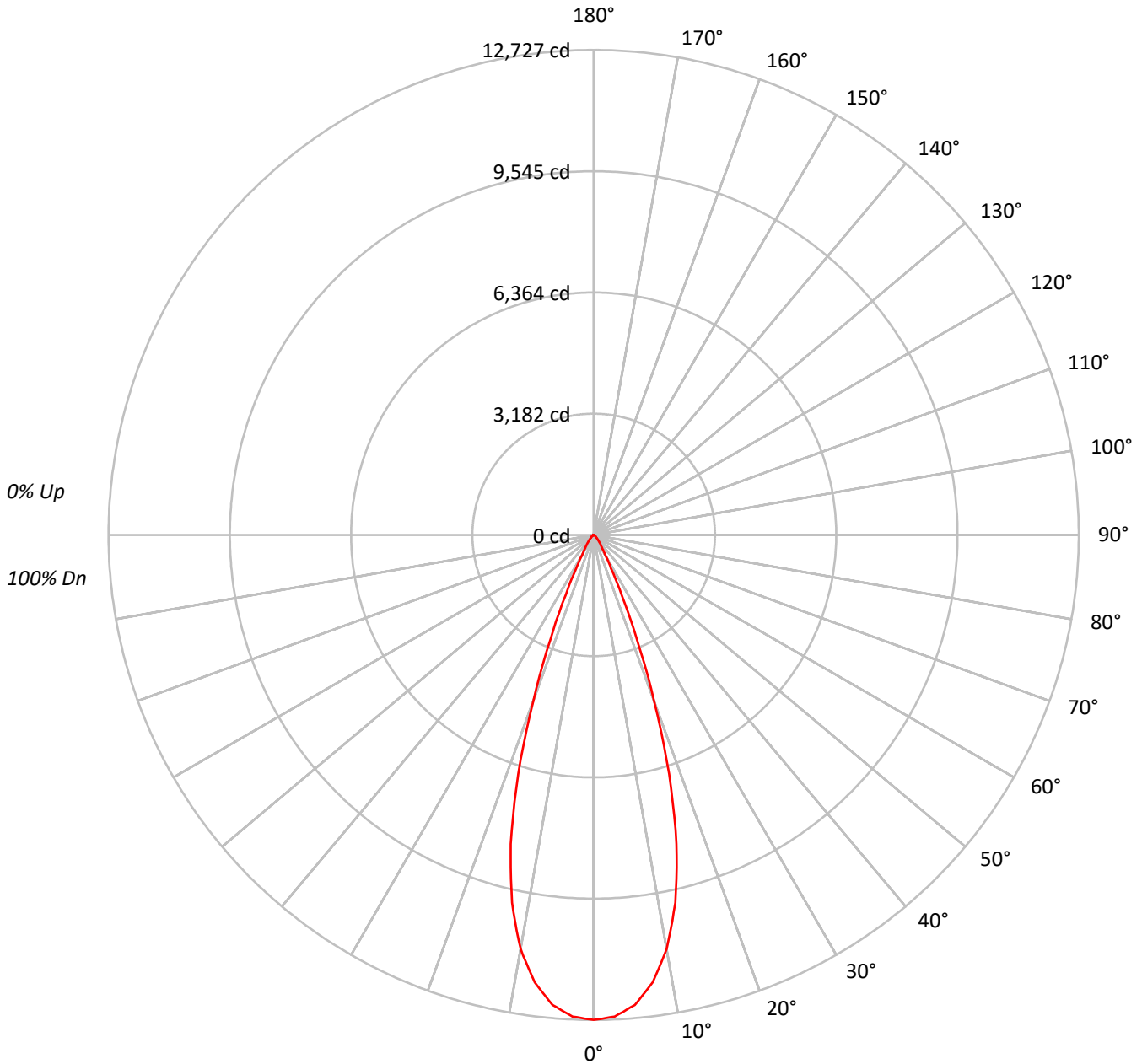
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99  | 98  | 98  | 96  |    |    | 96  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 99  | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 95  | 93  | 92  |    |    | 92  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 106 | 101 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 95  | 92  | 95  | 93  | 91  | 93  | 91  | 89  | 88  |    |    | 88  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 97  | 92  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |    |    | 84  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 87  | 84  | 90  | 86  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 81  |    |    | 81  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 96  | 89  | 84  | 81  | 94  | 88  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 80  | 84  | 81  | 79  | 78  |    |    | 78  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 93  | 85  | 81  | 78  | 91  | 85  | 80  | 77  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 75  |    |    | 75  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 90  | 82  | 78  | 74  | 88  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |    |    | 72  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 87  | 79  | 75  | 72  | 86  | 79  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 77  | 73  | 71  | 70  |    |    | 70  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 84  | 77  | 72  | 69  | 83  | 76  | 72  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 74  | 71  | 69  | 68  |    |    | 68  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1390529 |
| 5°  | 1357859 |
| 10° | 1223793 |
| 15° | 949861  |
| 20° | 538750  |
| 25° | 209598  |
| 30° | 78196   |
| 35° | 42856   |
| 40° | 28012   |
| 45° | 17059   |
| 50° | 10862   |
| 55° | 7677    |
| 60° | 5616    |
| 65° | 3051    |
| 70° | 224     |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17059 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1138.6 | 24.6      |
| 10°-20°   | 2223.1 | 48.1      |
| 20°-30°   | 906.7  | 19.6      |
| 30°-40°   | 217.0  | 4.7       |
| 40°-50°   | 90.4   | 2.0       |
| 50°-60°   | 37.4   | 0.8       |
| 60°-70°   | 11.7   | 0.3       |
| 70°-80°   | 0.3    | 0.0       |
| 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       |
| 0°-30°    | 4268.4 | 92.3      |
| 0°-40°    | 4485.4 | 97.0      |
| 0°-60°    | 4613.3 | 99.7      |
| 0°-90°    | 4625.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4625.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12727 |      |
| 5°  | 12380 | ###  |
| 15° | 8397  | 2223 |
| 25° | 1739  | 907  |
| 35° | 321   | 217  |
| 45° | 110   | 90   |
| 55° | 40    | 37   |
| 65° | 12    | 12   |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 12726.7 |
| 2.5°  | 12650.4 |
| 5°    | 12380.4 |
| 7.5°  | 11841.8 |
| 10°   | 11030.5 |
| 12.5° | 9888.1  |
| 15°   | 8397.3  |
| 17.5° | 6574.0  |
| 20°   | 4633.5  |
| 22.5° | 2954.6  |
| 25°   | 1738.6  |
| 27.5° | 982.8   |
| 30°   | 619.8   |
| 32.5° | 435.2   |
| 35°   | 321.3   |
| 37.5° | 248.5   |
| 40°   | 196.4   |
| 42.5° | 151.3   |
| 45°   | 110.4   |
| 47.5° | 82.6    |
| 50°   | 63.9    |
| 52.5° | 50.7    |
| 55°   | 40.3    |
| 57.5° | 32.6    |
| 60°   | 25.7    |
| 62.5° | 18.7    |
| 65°   | 11.8    |
| 67.5° | 4.2     |
| 70°   | 0.7     |
| 72.5° | 0.7     |
| 75°   | 0.0     |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 82.5° | 0.7     |
| 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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