

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: P752552

Luminaire Tested: LD4D70BD010-EU4DR5070959030-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D70BD010-EU4DR5070959030-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7777.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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

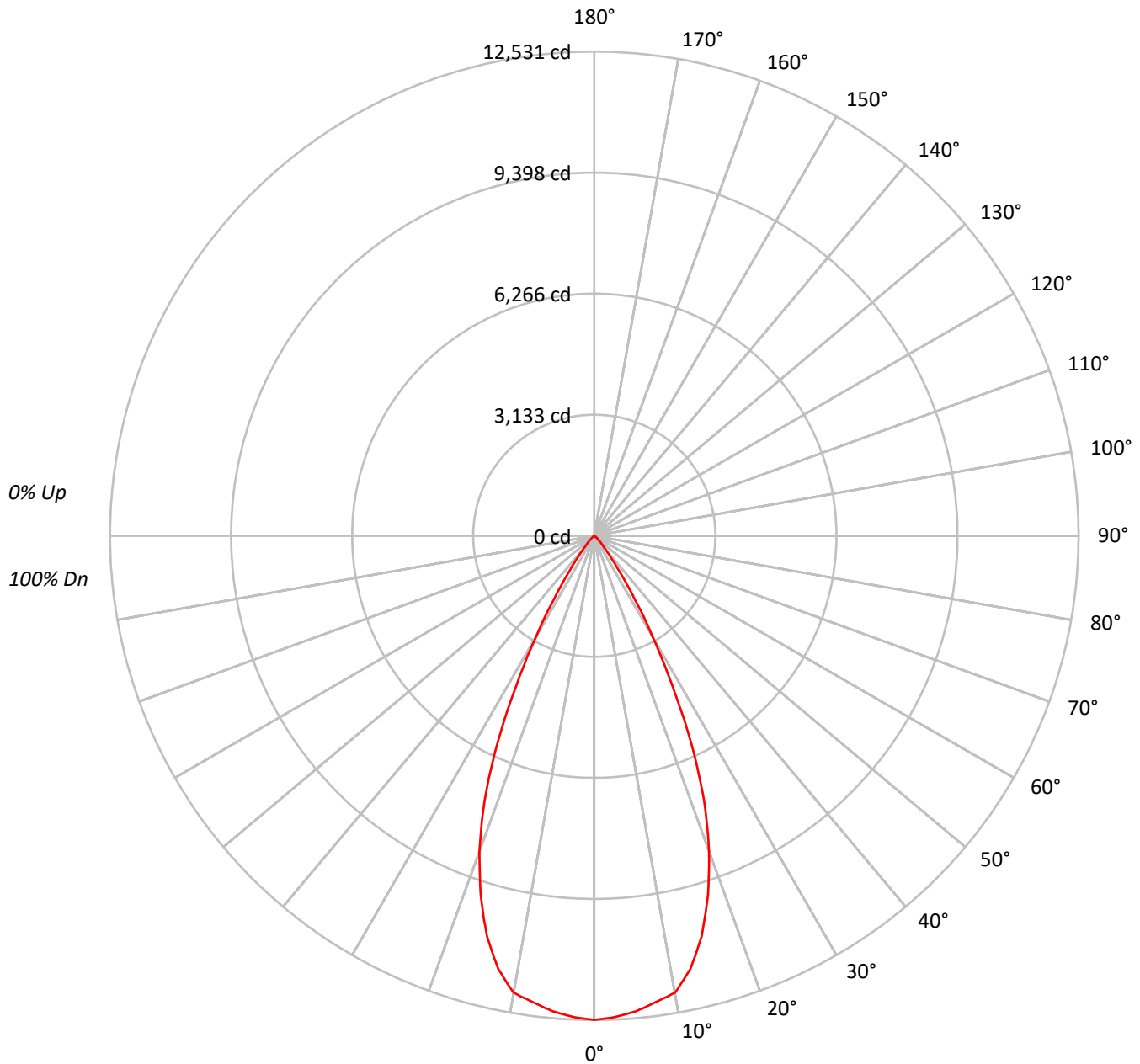


Downlight

TEST NUMBER: P752552

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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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 |  | 106 | 104 | 102 |  |  | 102 | 101 | 99  |  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  |  | 100 | 98  | 95  |  |  | 97  | 95  | 93  |  |  | 95  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  |  | 95  | 92  | 89  |  |  | 93  | 90  | 88  |  |  | 91  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  |  | 90  | 87  | 84  |  |  | 89  | 85  | 83  |  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  |  | 86  | 82  | 79  |  |  | 85  | 81  | 78  |  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  |  | 82  | 78  | 74  |  |  | 81  | 77  | 74  |  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  |  | 78  | 74  | 71  |  |  | 77  | 73  | 70  |  |  | 76  |
| 8   | 85  | 76  | 71  | 67  | 84  | 76  | 71  | 67  |  | 75  | 70  | 67  |  |  | 74  | 70  | 67  |  |  | 73  |
| 9   | 81  | 73  | 68  | 64  | 80  | 72  | 67  | 64  |  | 71  | 67  | 64  |  |  | 71  | 67  | 64  |  |  | 70  |
| 10  | 78  | 70  | 64  | 61  | 77  | 69  | 64  | 61  |  | 68  | 64  | 61  |  |  | 68  | 64  | 61  |  |  | 67  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1369114 |
| 5°  | 1354766 |
| 10° | 1332454 |
| 15° | 1213306 |
| 20° | 1009609 |
| 25° | 716669  |
| 30° | 379336  |
| 35° | 154577  |
| 40° | 57408   |
| 45° | 26284   |
| 50° | 10777   |
| 55° | 5639    |
| 60° | 2775    |
| 65° | 827     |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26284 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1167.5 | 15.0      |
| 10°-20°   | 2950.6 | 37.9      |
| 20°-30°   | 2650.4 | 34.1      |
| 30°-40°   | 829.8  | 10.7      |
| 40°-50°   | 145.3  | 1.9       |
| 50°-60°   | 29.0   | 0.4       |
| 60°-70°   | 4.4    | 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°    | 6768.5 | 87.0      |
| 0°-40°    | 7598.4 | 97.7      |
| 0°-60°    | 7772.6 | 99.9      |
| 0°-90°    | 7777.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7777.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12531 |      |
| 5°  | 12352 | ###  |
| 15° | 10726 | 2951 |
| 25° | 5945  | 2650 |
| 35° | 1159  | 830  |
| 45° | 170   | 145  |
| 55° | 30    | 29   |
| 65° | 3     | 4    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 12530.7 |
| 2.5°  | 12468.4 |
| 5°    | 12352.2 |
| 7.5°  | 12174.7 |
| 10°   | 12009.9 |
| 12.5° | 11481.7 |
| 15°   | 10726.3 |
| 17.5° | 9767.0  |
| 20°   | 8683.1  |
| 22.5° | 7429.1  |
| 25°   | 5944.7  |
| 27.5° | 4370.6  |
| 30°   | 3006.7  |
| 32.5° | 1957.6  |
| 35°   | 1158.9  |
| 37.5° | 665.6   |
| 40°   | 402.5   |
| 42.5° | 262.0   |
| 45°   | 170.1   |
| 47.5° | 103.5   |
| 50°   | 63.4    |
| 52.5° | 43.3    |
| 55°   | 29.6    |
| 57.5° | 20.1    |
| 60°   | 12.7    |
| 62.5° | 7.4     |
| 65°   | 3.2     |
| 67.5° | 1.1     |
| 70°   | 0.0     |
| 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     |



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— 0°-180°







(END OF REPORT)