

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: P752663

Luminaire Tested: LD4D70BD010-EU4DR5570959050-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D70BD010-EU4DR5570959050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 55° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5826.2 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87  
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

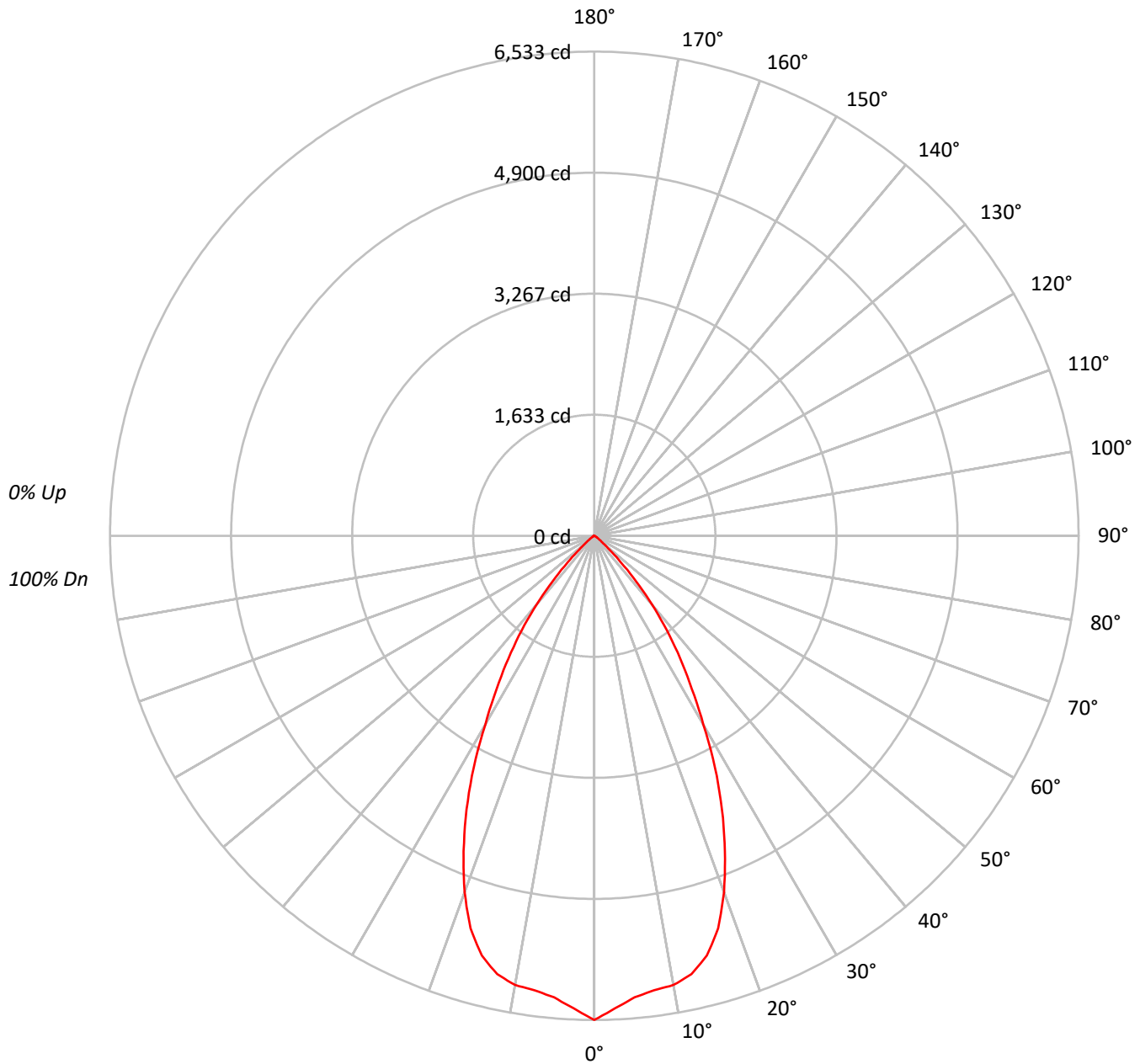


Downlight

TEST NUMBER: P752663

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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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 114 | 111 | 108 | 106 |  | 111 | 109 | 106 | 104 |  | 105 | 103 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  |
| 2   | 108 | 103 | 99  | 96  |  | 106 | 101 | 98  | 95  |  | 98  | 95  | 92  |  | 95  | 93  | 90  |  | 92  | 90  | 89  |
| 3   | 102 | 96  | 91  | 87  |  | 100 | 95  | 90  | 86  |  | 92  | 88  | 85  |  | 90  | 86  | 84  |  | 87  | 85  | 82  |
| 4   | 97  | 90  | 84  | 80  |  | 95  | 88  | 83  | 79  |  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 82  | 79  | 77  |
| 5   | 92  | 84  | 78  | 74  |  | 91  | 83  | 77  | 73  |  | 81  | 76  | 73  |  | 79  | 75  | 72  |  | 78  | 74  | 71  |
| 6   | 88  | 79  | 73  | 68  |  | 86  | 78  | 72  | 68  |  | 76  | 71  | 68  |  | 75  | 70  | 67  |  | 74  | 70  | 67  |
| 7   | 83  | 74  | 68  | 64  |  | 82  | 73  | 67  | 63  |  | 72  | 67  | 63  |  | 71  | 66  | 63  |  | 70  | 65  | 62  |
| 8   | 79  | 69  | 63  | 59  |  | 78  | 69  | 63  | 59  |  | 68  | 63  | 59  |  | 67  | 62  | 59  |  | 66  | 62  | 58  |
| 9   | 75  | 66  | 60  | 56  |  | 74  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  | 58  | 55  |  | 62  | 58  | 55  |
| 10  | 72  | 62  | 56  | 52  |  | 71  | 61  | 56  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  | 55  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 713822 |
| 5°  | 685466 |
| 10° | 682885 |
| 15° | 663273 |
| 20° | 594712 |
| 25° | 491506 |
| 30° | 371274 |
| 35° | 269193 |
| 40° | 172283 |
| 45° | 78681  |
| 50° | 25735  |
| 55° | 11106  |
| 60° | 4786   |
| 65° | 620    |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78681 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 594.7  | 10.2      |
| 10°-20°   | 1623.1 | 27.9      |
| 20°-30°   | 1849.6 | 31.7      |
| 30°-40°   | 1259.1 | 21.6      |
| 40°-50°   | 433.9  | 7.4       |
| 50°-60°   | 60.0   | 1.0       |
| 60°-70°   | 5.8    | 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°    | 4067.4 | 69.8      |
| 0°-40°    | 5326.5 | 91.4      |
| 0°-60°    | 5820.4 | 99.9      |
| 0°-90°    | 5826.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5826.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6533 |      |
| 5°  | 6250 | 595  |
| 15° | 5864 | 1623 |
| 25° | 4077 | 1850 |
| 35° | 2018 | 1259 |
| 45° | 509  | 434  |
| 55° | 58   | 60   |
| 65° | 2    | 6    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 6533.2 |
| 2.5°  | 6383.4 |
| 5°    | 6249.8 |
| 7.5°  | 6184.2 |
| 10°   | 6155.1 |
| 12.5° | 6058.0 |
| 15°   | 5863.7 |
| 17.5° | 5555.2 |
| 20°   | 5114.8 |
| 22.5° | 4606.4 |
| 25°   | 4077.0 |
| 27.5° | 3525.6 |
| 30°   | 2942.8 |
| 32.5° | 2448.9 |
| 35°   | 2018.2 |
| 37.5° | 1608.6 |
| 40°   | 1207.9 |
| 42.5° | 837.1  |
| 45°   | 509.2  |
| 47.5° | 274.4  |
| 50°   | 151.4  |
| 52.5° | 89.9   |
| 55°   | 58.3   |
| 57.5° | 37.2   |
| 60°   | 21.9   |
| 62.5° | 9.7    |
| 65°   | 2.4    |
| 67.5° | 0.8    |
| 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)