

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: P753626

Luminaire Tested: LD4D75BD010-EU4DR7070959027-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D75BD010-EU4DR7070959027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7024.4 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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

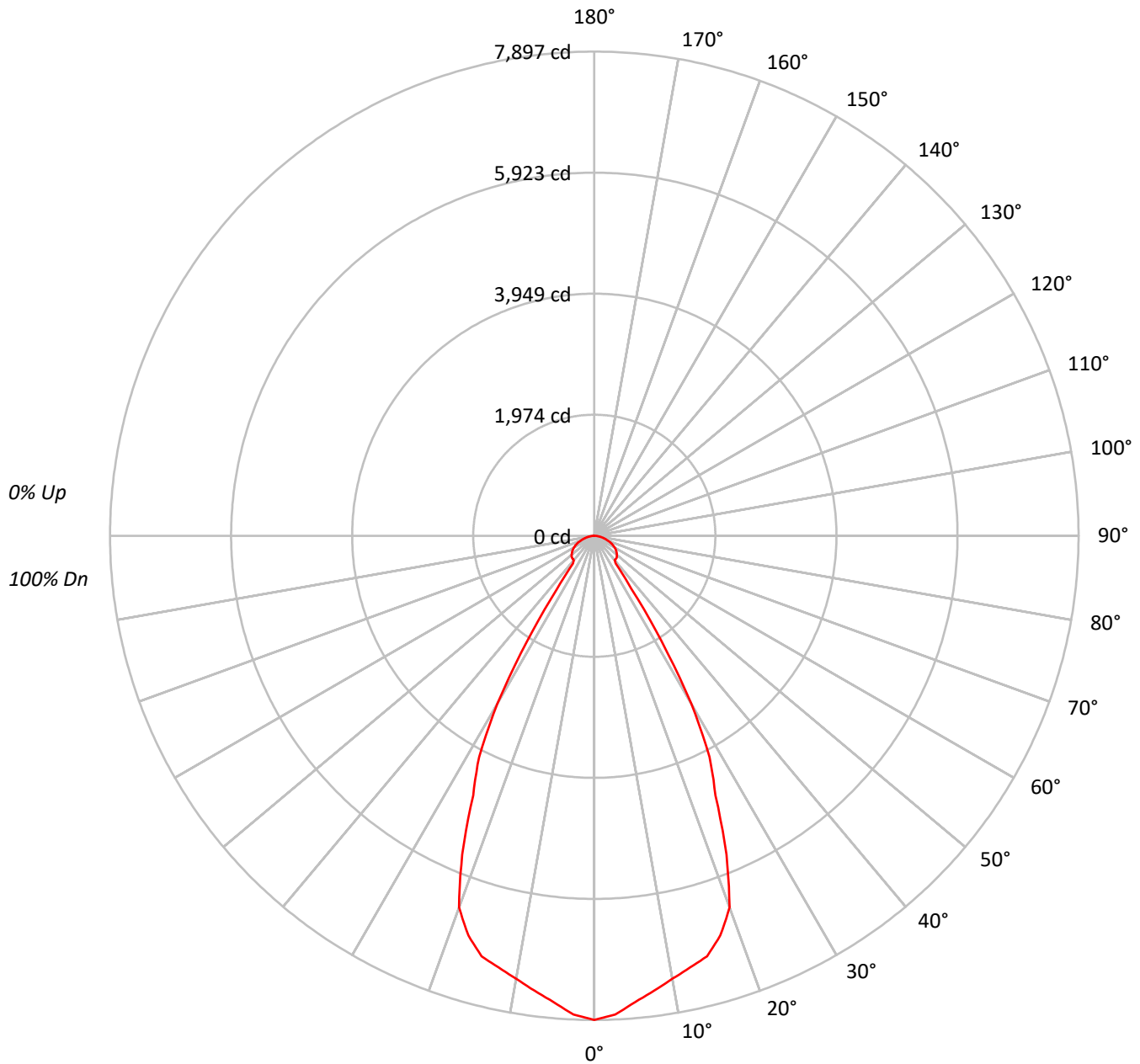


Downlight

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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   | 112 | 109 | 106 | 103 |  | 110 | 107 | 104 | 102 |  | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 95  | 94  | 93  |
| 2   | 106 | 100 | 95  | 91  |  | 103 | 98  | 94  | 90  |  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 87  | 85  |
| 3   | 100 | 92  | 87  | 82  |  | 98  | 91  | 86  | 81  |  | 88  | 84  | 80  |  | 86  | 82  | 79  |  | 83  | 80  | 78  |
| 4   | 94  | 86  | 80  | 75  |  | 92  | 85  | 79  | 74  |  | 82  | 77  | 73  |  | 80  | 76  | 73  |  | 78  | 75  | 72  |
| 5   | 89  | 80  | 74  | 69  |  | 87  | 79  | 73  | 69  |  | 77  | 72  | 68  |  | 75  | 71  | 67  |  | 74  | 70  | 67  |
| 6   | 85  | 75  | 68  | 64  |  | 83  | 74  | 68  | 64  |  | 73  | 67  | 63  |  | 71  | 66  | 63  |  | 70  | 66  | 62  |
| 7   | 80  | 70  | 64  | 59  |  | 79  | 70  | 64  | 59  |  | 68  | 63  | 59  |  | 67  | 62  | 59  |  | 66  | 62  | 58  |
| 8   | 77  | 66  | 60  | 56  |  | 75  | 66  | 60  | 56  |  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  | 58  | 55  |
| 9   | 73  | 63  | 57  | 52  |  | 72  | 62  | 56  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 60  | 55  | 52  |
| 10  | 70  | 59  | 53  | 49  |  | 69  | 59  | 53  | 49  |  | 58  | 53  | 49  |  | 57  | 52  | 49  |  | 57  | 52  | 49  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 862876 |
| 5°  | 837228 |
| 10° | 813891 |
| 15° | 803219 |
| 20° | 750041 |
| 25° | 563466 |
| 30° | 398323 |
| 35° | 141092 |
| 40° | 74196  |
| 45° | 79021  |
| 50° | 81828  |
| 55° | 83359  |
| 60° | 83890  |
| 65° | 82110  |
| 70° | 77500  |
| 75° | 71808  |
| 80° | 63739  |
| 85° | 51775  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 83903 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 720.0  | 10.3      |
| 10°-20°   | 1974.9 | 28.1      |
| 20°-30°   | 2175.1 | 31.0      |
| 30°-40°   | 831.1  | 11.8      |
| 40°-50°   | 392.4  | 5.6       |
| 50°-60°   | 390.1  | 5.6       |
| 60°-70°   | 312.4  | 4.4       |
| 70°-80°   | 179.5  | 2.6       |
| 80°-90°   | 48.8   | 0.7       |
| 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°    | 4870.1 | 69.3      |
| 0°-40°    | 5701.1 | 81.2      |
| 0°-60°    | 6483.6 | 92.3      |
| 0°-90°    | 7024.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7024.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7897 |      |
| 5°  | 7634 | 720  |
| 15° | 7101 | 1975 |
| 25° | 4674 | 2175 |
| 35° | 1058 | 831  |
| 45° | 511  | 392  |
| 55° | 438  | 390  |
| 65° | 318  | 312  |
| 75° | 170  | 180  |
| 85° | 41   | 49   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 7897.4 |
| 2.5°  | 7814.8 |
| 5°    | 7633.5 |
| 7.5°  | 7482.2 |
| 10°   | 7335.9 |
| 12.5° | 7212.1 |
| 15°   | 7100.9 |
| 17.5° | 6832.0 |
| 20°   | 6450.7 |
| 22.5° | 5627.9 |
| 25°   | 4673.9 |
| 27.5° | 4068.7 |
| 30°   | 3157.2 |
| 32.5° | 2039.4 |
| 35°   | 1057.8 |
| 37.5° | 571.4  |
| 40°   | 520.2  |
| 42.5° | 516.4  |
| 45°   | 511.4  |
| 47.5° | 500.1  |
| 50°   | 481.4  |
| 52.5° | 460.1  |
| 55°   | 437.6  |
| 57.5° | 412.6  |
| 60°   | 383.9  |
| 62.5° | 351.4  |
| 65°   | 317.6  |
| 67.5° | 280.1  |
| 70°   | 242.6  |
| 72.5° | 205.1  |
| 75°   | 170.1  |
| 77.5° | 133.8  |
| 80°   | 101.3  |
| 82.5° | 71.3   |
| 85°   | 41.3   |
| 87.5° | 16.3   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)