

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: P756474

Luminaire Tested: LD4D95BD010-EU4DR5070959040-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756474  
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: LD4D95BD010-EU4DR5070959040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10143.1 lumens  
Efficiency: N/A  
Efficacy: 102.2 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): 99.2  
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

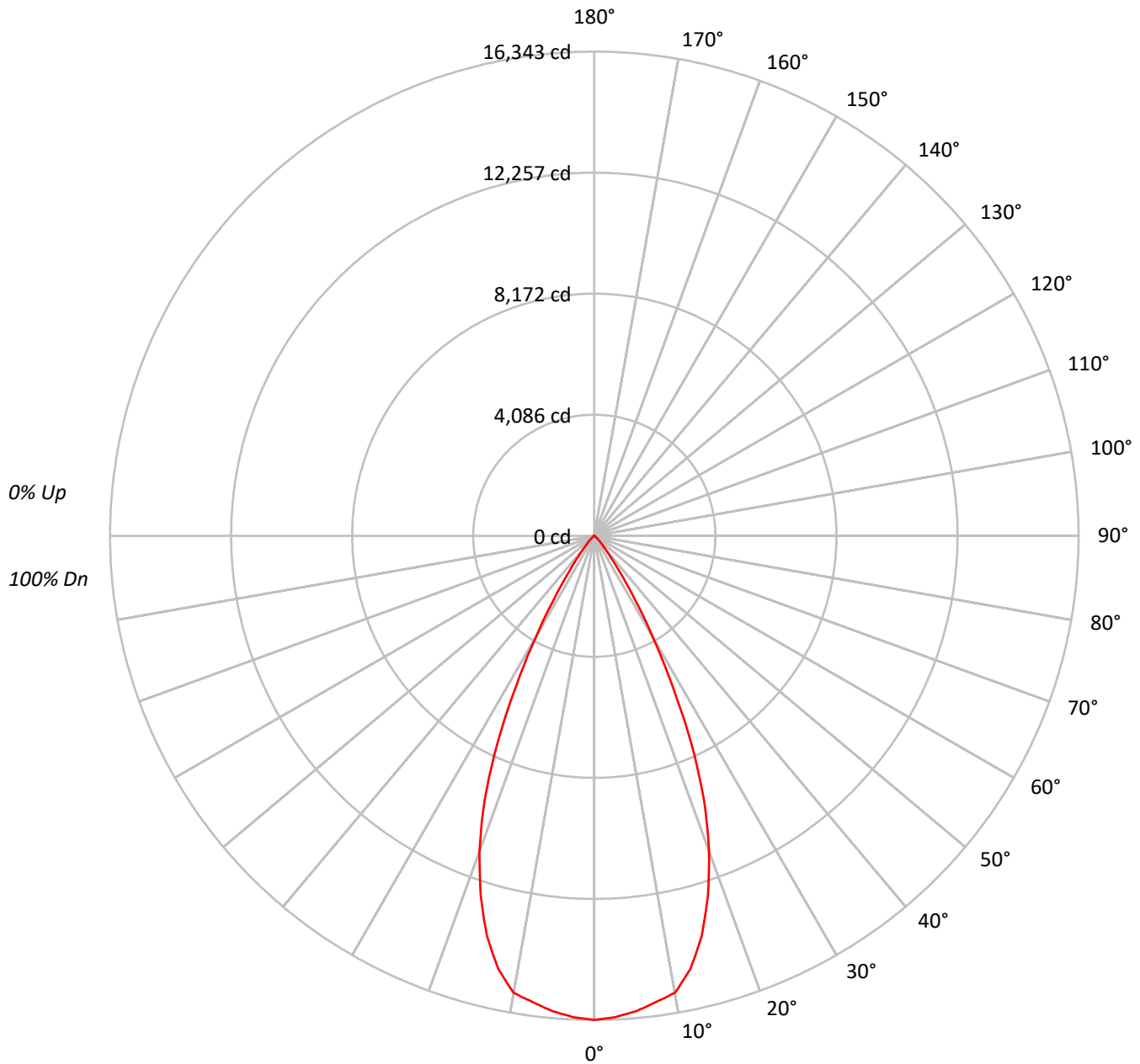


Downlight

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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  |     |     |  |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |  |  | 100 |
| 1   | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 |  | 106 | 104 | 102 |  |  | 102 | 101 | 99  |  |  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  |  | 100 | 98  | 95  |  |  | 97  | 95  | 93  |  |  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  |  | 95  | 92  | 89  |  |  | 93  | 90  | 88  |  |  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  |  | 90  | 87  | 84  |  |  | 89  | 85  | 83  |  |  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  |  | 86  | 82  | 79  |  |  | 85  | 81  | 78  |  |  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  |  | 82  | 78  | 74  |  |  | 81  | 77  | 74  |  |  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  |  | 78  | 74  | 71  |  |  | 77  | 73  | 70  |  |  | 69  |
| 8   | 85  | 76  | 71  | 67  | 84  | 76  | 71  | 67  |  | 75  | 70  | 67  |  |  | 74  | 70  | 67  |  |  | 65  |
| 9   | 81  | 73  | 68  | 64  | 80  | 72  | 67  | 64  |  | 71  | 67  | 64  |  |  | 71  | 67  | 64  |  |  | 62  |
| 10  | 78  | 70  | 64  | 61  | 77  | 69  | 64  | 61  |  | 68  | 64  | 61  |  |  | 68  | 64  | 61  |  |  | 59  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1785659 |
| 5°  | 1766936 |
| 10° | 1737840 |
| 15° | 1582434 |
| 20° | 1316767 |
| 25° | 934706  |
| 30° | 494750  |
| 35° | 201608  |
| 40° | 74881   |
| 45° | 34272   |
| 50° | 14057   |
| 55° | 7353    |
| 60° | 3606    |
| 65° | 1060    |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 34272 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1522.7  | 15.0      |
| 10°-20°   | 3848.3  | 37.9      |
| 20°-30°   | 3456.8  | 34.1      |
| 30°-40°   | 1082.3  | 10.7      |
| 40°-50°   | 189.5   | 1.9       |
| 50°-60°   | 37.8    | 0.4       |
| 60°-70°   | 5.7     | 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°    | 8827.8  | 87.0      |
| 0°-40°    | 9910.1  | 97.7      |
| 0°-60°    | 10137.4 | 99.9      |
| 0°-90°    | 10143.1 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10143.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 16343 |      |
| 5°  | 16110 | ###  |
| 15° | 13990 | 3848 |
| 25° | 7753  | 3457 |
| 35° | 1512  | 1082 |
| 45° | 222   | 190  |
| 55° | 39    | 38   |
| 65° | 4     | 6    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 16343.1 |
| 2.5°  | 16261.8 |
| 5°    | 16110.2 |
| 7.5°  | 15878.7 |
| 10°   | 15663.8 |
| 12.5° | 14974.8 |
| 15°   | 13989.6 |
| 17.5° | 12738.5 |
| 20°   | 11324.8 |
| 22.5° | 9689.3  |
| 25°   | 7753.3  |
| 27.5° | 5700.3  |
| 30°   | 3921.5  |
| 32.5° | 2553.2  |
| 35°   | 1511.5  |
| 37.5° | 868.1   |
| 40°   | 525.0   |
| 42.5° | 341.7   |
| 45°   | 221.8   |
| 47.5° | 135.0   |
| 50°   | 82.7    |
| 52.5° | 56.5    |
| 55°   | 38.6    |
| 57.5° | 26.2    |
| 60°   | 16.5    |
| 62.5° | 9.6     |
| 65°   | 4.1     |
| 67.5° | 1.4     |
| 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)