

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: P779738

Luminaire Tested: LER4D10D010-EC4DR650210IC9050-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P779738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4D10D010-EC4DR650210IC9050-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1037.6 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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



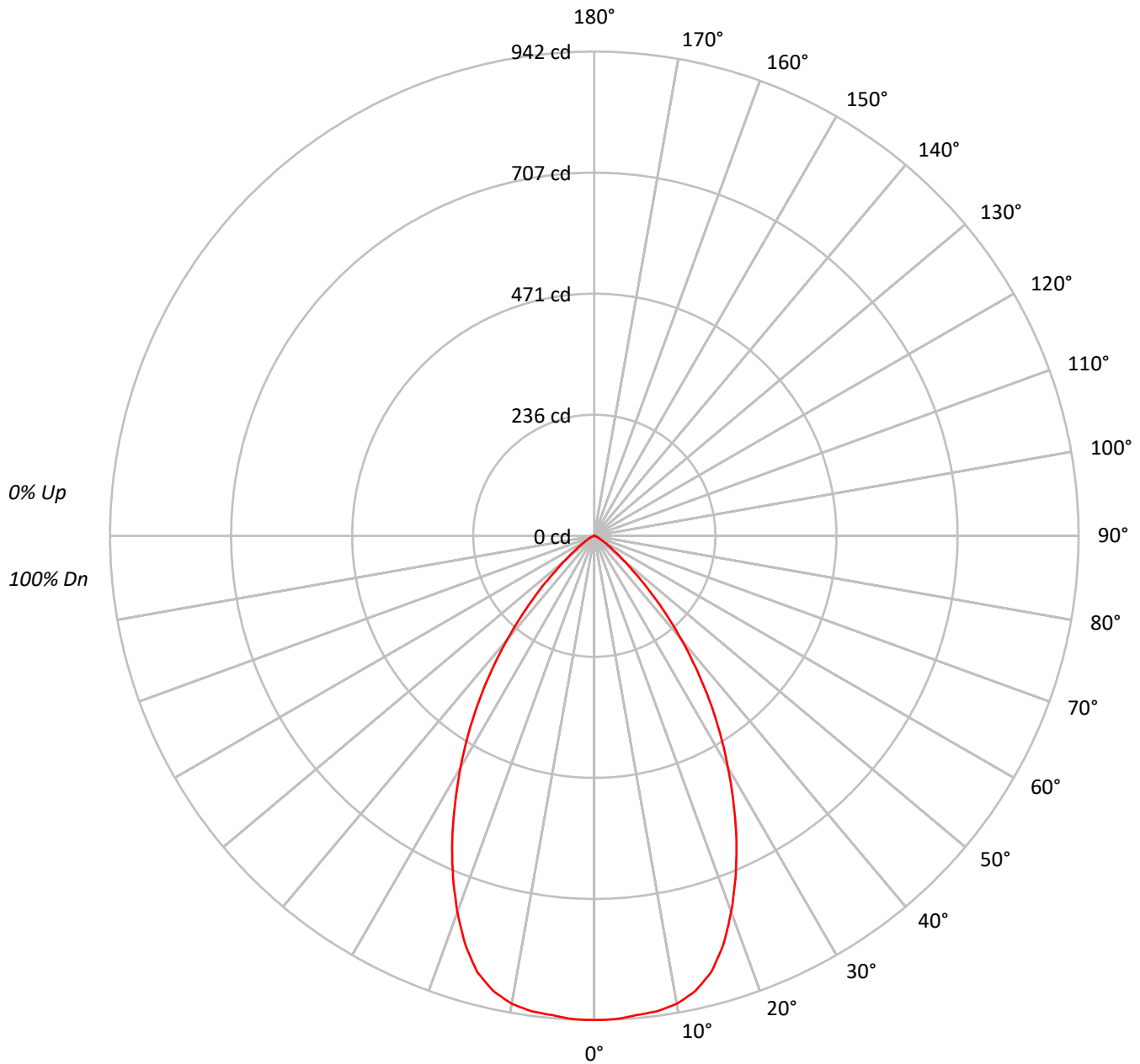
Downlight



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 92  | 97  | 93  | 90  |  | 94  | 91  | 88  |  | 91  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  | 90  | 86  | 82  |  | 87  | 84  | 81  |  | 85  |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 84  | 79  | 75  |  | 82  | 77  | 74  |  | 80  |
| 5   | 90  | 81  | 74  | 70  | 88  | 80  | 74  | 69  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 75  |
| 6   | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  |  | 71  | 67  | 63  |  | 70  |
| 7   | 80  | 70  | 64  | 59  | 79  | 69  | 63  | 59  | 68  | 63  | 59  |  | 67  | 62  | 58  |  | 66  |
| 8   | 76  | 66  | 59  | 55  | 75  | 65  | 59  | 55  | 64  | 58  | 54  |  | 63  | 58  | 54  |  | 62  |
| 9   | 72  | 61  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 54  | 51  |  | 59  | 54  | 50  |  | 58  |
| 10  | 68  | 58  | 52  | 47  | 67  | 57  | 51  | 47  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 55  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 55028 |
| 5°  | 54887 |
| 10° | 54839 |
| 15° | 53148 |
| 20° | 48385 |
| 25° | 42164 |
| 30° | 35068 |
| 35° | 27785 |
| 40° | 20051 |
| 45° | 12670 |
| 50° | 6606  |
| 55° | 3513  |
| 60° | 1846  |
| 65° | 1009  |
| 70° | 427   |
| 75° | 474   |
| 80° | 336   |
| 85° | 268   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12670 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.1   | 8.6       |
| 10°-20°   | 244.0  | 23.5      |
| 20°-30°   | 298.2  | 28.7      |
| 30°-40°   | 242.0  | 23.3      |
| 40°-50°   | 120.6  | 11.6      |
| 50°-60°   | 33.6   | 3.2       |
| 60°-70°   | 7.6    | 0.7       |
| 70°-80°   | 2.0    | 0.2       |
| 80°-90°   | 0.5    | 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°    | 631.3  | 60.8      |
| 0°-40°    | 873.3  | 84.2      |
| 0°-60°    | 1027.5 | 99.0      |
| 0°-90°    | 1037.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1037.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 942 |      |
| 5°  | 936 | 89   |
| 15° | 879 | 244  |
| 25° | 654 | 298  |
| 35° | 390 | 242  |
| 45° | 153 | 121  |
| 55° | 34  | 34   |
| 65° | 7   | 8    |
| 75° | 2   | 2    |
| 85° | 0   | 1    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 942.2 |
| 2.5°  | 941.4 |
| 5°    | 936.2 |
| 7.5°  | 933.1 |
| 10°   | 924.7 |
| 12.5° | 907.5 |
| 15°   | 879.0 |
| 17.5° | 834.4 |
| 20°   | 778.5 |
| 22.5° | 718.1 |
| 25°   | 654.3 |
| 27.5° | 586.1 |
| 30°   | 520.0 |
| 32.5° | 454.8 |
| 35°   | 389.7 |
| 37.5° | 324.8 |
| 40°   | 263.0 |
| 42.5° | 205.2 |
| 45°   | 153.4 |
| 47.5° | 106.9 |
| 50°   | 72.7  |
| 52.5° | 50.1  |
| 55°   | 34.5  |
| 57.5° | 23.3  |
| 60°   | 15.8  |
| 62.5° | 10.9  |
| 65°   | 7.3   |
| 67.5° | 3.7   |
| 70°   | 2.5   |
| 72.5° | 2.3   |
| 75°   | 2.1   |
| 77.5° | 1.4   |
| 80°   | 1.0   |
| 82.5° | 0.7   |
| 85°   | 0.4   |
| 87.5° | 0.3   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)