

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: P781501

Luminaire Tested: LER4D45BD010-EC4DR3540509030-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P781501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4D45BD010-EC4DR3540509030-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4143.1 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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

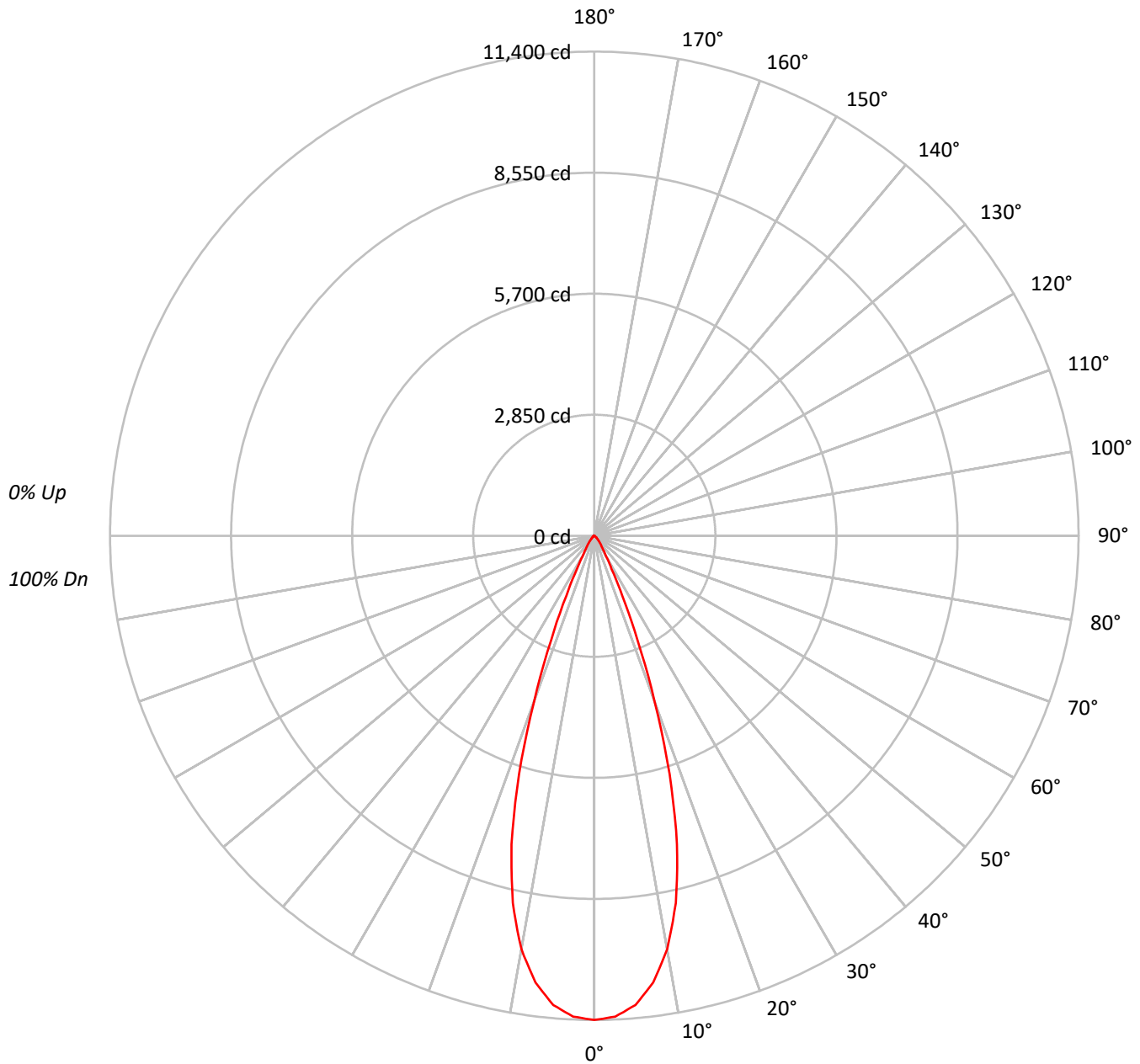


Downlight

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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  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99  | 98  | 98  | 96  |    |    |
| 2   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 99  | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 95  | 93  | 92  |    |    |
| 3   | 106 | 101 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 95  | 92  | 95  | 93  | 91  | 93  | 91  | 89  | 88  |    |    |
| 4   | 103 | 97  | 92  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |    |    |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 87  | 84  | 90  | 86  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 81  |    |    |
| 6   | 96  | 89  | 84  | 81  | 94  | 88  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 80  | 84  | 81  | 79  | 78  |    |    |
| 7   | 93  | 85  | 81  | 78  | 91  | 85  | 80  | 77  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 75  |    |    |
| 8   | 90  | 82  | 78  | 74  | 88  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |    |    |
| 9   | 87  | 79  | 75  | 72  | 86  | 79  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 77  | 73  | 71  | 70  |    |    |
| 10  | 84  | 77  | 72  | 69  | 83  | 76  | 72  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 74  | 71  | 69  | 68  |    |    |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1245562 |
| 5°  | 1216297 |
| 10° | 1096205 |
| 15° | 850829  |
| 20° | 482579  |
| 25° | 187742  |
| 30° | 70046   |
| 35° | 38388   |
| 40° | 25089   |
| 45° | 15266   |
| 50° | 9723    |
| 55° | 6877    |
| 60° | 5026    |
| 65° | 2740    |
| 70° | 192     |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15266 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1019.9 | 24.6      |
| 10°-20°   | 1991.3 | 48.1      |
| 20°-30°   | 812.1  | 19.6      |
| 30°-40°   | 194.4  | 4.7       |
| 40°-50°   | 81.0   | 2.0       |
| 50°-60°   | 33.5   | 0.8       |
| 60°-70°   | 10.5   | 0.3       |
| 70°-80°   | 0.2    | 0.0       |
| 80°-90°   | 0.2    | 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°    | 3823.4 | 92.3      |
| 0°-40°    | 4017.7 | 97.0      |
| 0°-60°    | 4132.3 | 99.7      |
| 0°-90°    | 4143.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4143.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 11400 |      |
| 5°  | 11090 | ###  |
| 15° | 7522  | 1991 |
| 25° | 1557  | 812  |
| 35° | 288   | 194  |
| 45° | 99    | 81   |
| 55° | 36    | 34   |
| 65° | 11    | 10   |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 11399.9 |
| 2.5°  | 11331.5 |
| 5°    | 11089.7 |
| 7.5°  | 10607.2 |
| 10°   | 9880.5  |
| 12.5° | 8857.2  |
| 15°   | 7521.8  |
| 17.5° | 5888.6  |
| 20°   | 4150.4  |
| 22.5° | 2646.5  |
| 25°   | 1557.3  |
| 27.5° | 880.3   |
| 30°   | 555.2   |
| 32.5° | 389.8   |
| 35°   | 287.8   |
| 37.5° | 222.6   |
| 40°   | 175.9   |
| 42.5° | 135.5   |
| 45°   | 98.8    |
| 47.5° | 74.0    |
| 50°   | 57.2    |
| 52.5° | 45.4    |
| 55°   | 36.1    |
| 57.5° | 29.2    |
| 60°   | 23.0    |
| 62.5° | 16.8    |
| 65°   | 10.6    |
| 67.5° | 3.7     |
| 70°   | 0.6     |
| 72.5° | 0.6     |
| 75°   | 0.0     |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 82.5° | 0.6     |
| 85°   | 0.0     |
| 87.5° | 0.0     |
| 90°   | 0.0     |



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— 0°-180°







(END OF REPORT)