

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: P778652

Luminaire Tested: LER4D02D010-EC4DR350210IC9040-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778652  
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: LER4D02D010-EC4DR350210IC9040-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 353.7 lumens  
Efficiency: N/A  
Efficacy: 69.4 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): 5.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



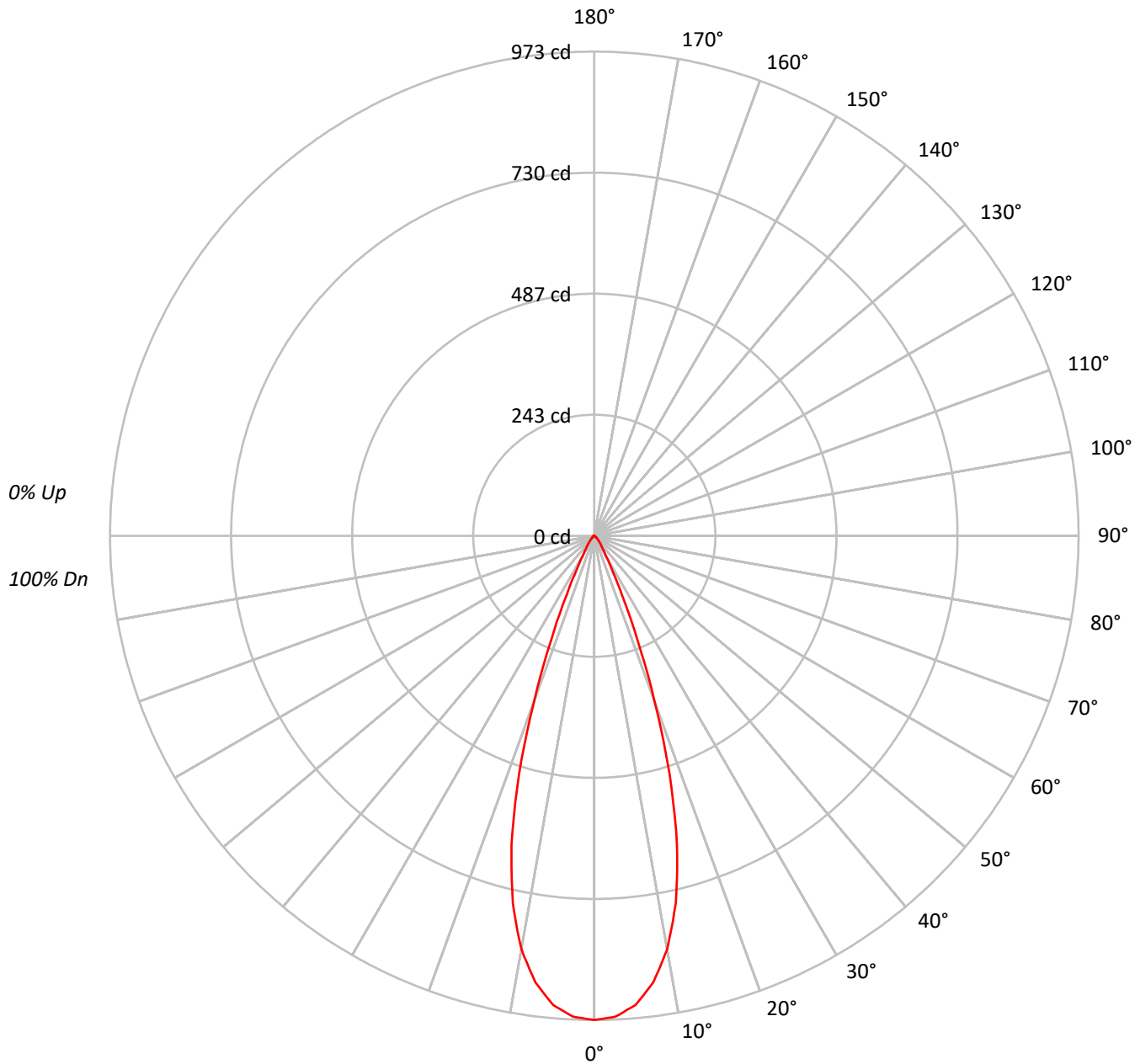
Downlight



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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 106322 |
| 5°  | 103821 |
| 10° | 93572  |
| 15° | 72620  |
| 20° | 41195  |
| 25° | 16022  |
| 30° | 5980   |
| 35° | 3281   |
| 40° | 2139   |
| 45° | 1298   |
| 50° | 833    |
| 55° | 591    |
| 60° | 415    |
| 65° | 233    |
| 70° | 32     |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1298 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.1   | 24.6      |
| 10°-20°   | 170.0  | 48.1      |
| 20°-30°   | 69.3   | 19.6      |
| 30°-40°   | 16.6   | 4.7       |
| 40°-50°   | 6.9    | 2.0       |
| 50°-60°   | 2.9    | 0.8       |
| 60°-70°   | 0.9    | 0.2       |
| 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°    | 326.4  | 92.3      |
| 0°-40°    | 343.0  | 97.0      |
| 0°-60°    | 352.7  | 99.7      |
| 0°-90°    | 353.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 353.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 973 |      |
| 5°  | 947 | 87   |
| 15° | 642 | 170  |
| 25° | 133 | 69   |
| 35° | 25  | 17   |
| 45° | 8   | 7    |
| 55° | 3   | 3    |
| 65° | 1   | 1    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 973.1 |
| 2.5°  | 967.3 |
| 5°    | 946.6 |
| 7.5°  | 905.4 |
| 10°   | 843.4 |
| 12.5° | 756.1 |
| 15°   | 642.0 |
| 17.5° | 502.6 |
| 20°   | 354.3 |
| 22.5° | 225.9 |
| 25°   | 132.9 |
| 27.5° | 75.2  |
| 30°   | 47.4  |
| 32.5° | 33.3  |
| 35°   | 24.6  |
| 37.5° | 19.0  |
| 40°   | 15.0  |
| 42.5° | 11.6  |
| 45°   | 8.4   |
| 47.5° | 6.3   |
| 50°   | 4.9   |
| 52.5° | 3.9   |
| 55°   | 3.1   |
| 57.5° | 2.5   |
| 60°   | 1.9   |
| 62.5° | 1.4   |
| 65°   | 0.9   |
| 67.5° | 0.3   |
| 70°   | 0.1   |
| 72.5° | 0.1   |
| 75°   | 0.0   |
| 77.5° | 0.0   |
| 80°   | 0.0   |
| 82.5° | 0.1   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)