

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: P784672

Luminaire Tested: LER4DD40BD010-EC4DR3540509035-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P784672  
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: LER4DD40BD010-EC4DR3540509035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3143.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 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): 35.2  
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

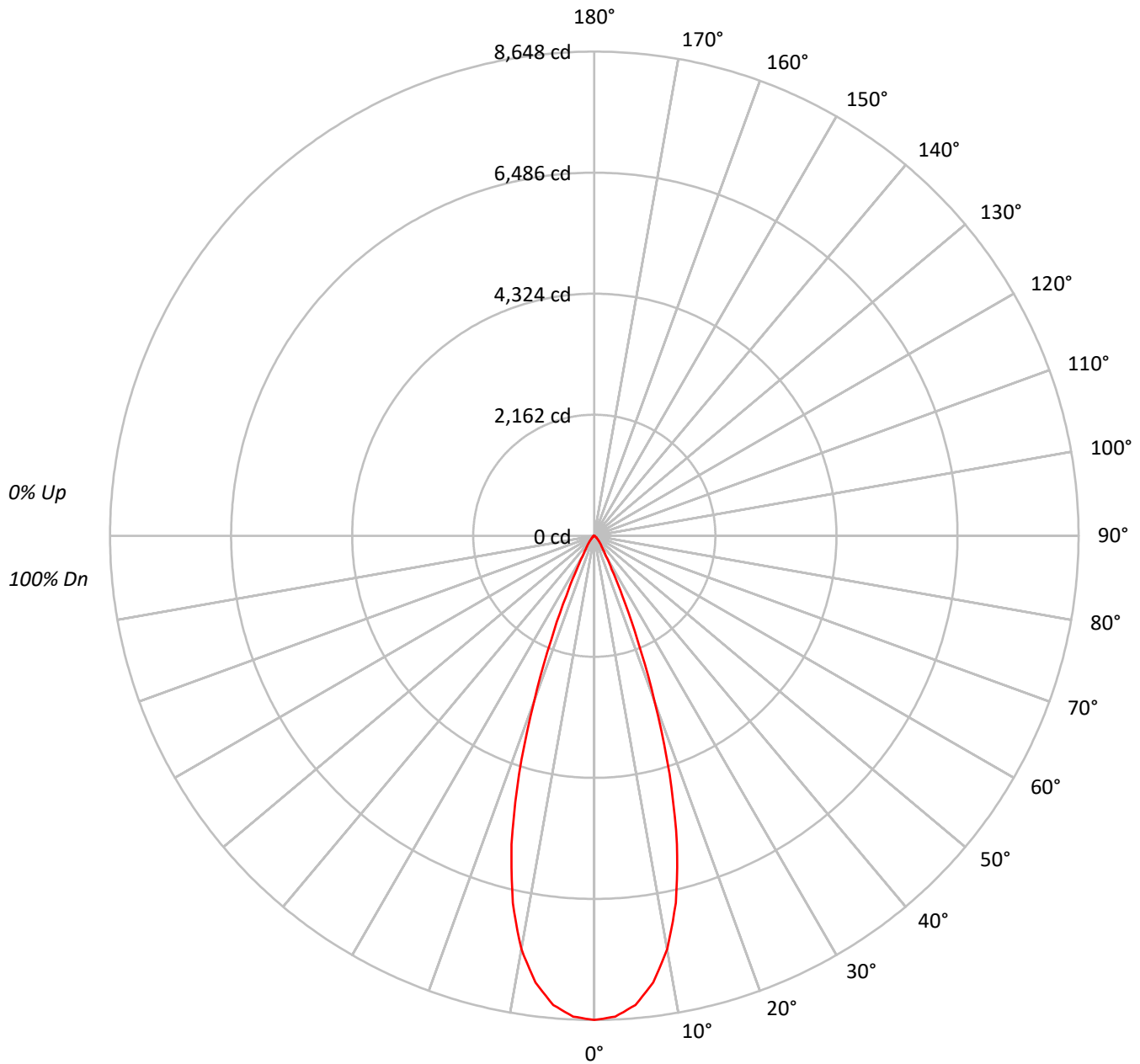


Downlight

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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 944876 |
| 5°  | 922678 |
| 10° | 831576 |
| 15° | 645435 |
| 20° | 366085 |
| 25° | 142425 |
| 30° | 53127  |
| 35° | 29131  |
| 40° | 19041  |
| 45° | 11589  |
| 50° | 7377   |
| 55° | 5219   |
| 60° | 3802   |
| 65° | 2068   |
| 70° | 160    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11589 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 773.7  | 24.6      |
| 10°-20°   | 1510.6 | 48.1      |
| 20°-30°   | 616.1  | 19.6      |
| 30°-40°   | 147.4  | 4.7       |
| 40°-50°   | 61.4   | 2.0       |
| 50°-60°   | 25.4   | 0.8       |
| 60°-70°   | 7.9    | 0.3       |
| 70°-80°   | 0.2    | 0.0       |
| 80°-90°   | 0.1    | 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°    | 2900.4 | 92.3      |
| 0°-40°    | 3047.8 | 97.0      |
| 0°-60°    | 3134.7 | 99.7      |
| 0°-90°    | 3143.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3143.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 8648 |      |
| 5°  | 8413 | 774  |
| 15° | 5706 | 1511 |
| 25° | 1181 | 616  |
| 35° | 218  | 147  |
| 45° | 75   | 61   |
| 55° | 27   | 25   |
| 65° | 8    | 8    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 8647.9 |
| 2.5°  | 8596.1 |
| 5°    | 8412.6 |
| 7.5°  | 8046.6 |
| 10°   | 7495.3 |
| 12.5° | 6719.0 |
| 15°   | 5706.0 |
| 17.5° | 4467.1 |
| 20°   | 3148.5 |
| 22.5° | 2007.6 |
| 25°   | 1181.4 |
| 27.5° | 667.8  |
| 30°   | 421.1  |
| 32.5° | 295.7  |
| 35°   | 218.4  |
| 37.5° | 168.8  |
| 40°   | 133.5  |
| 42.5° | 102.8  |
| 45°   | 75.0   |
| 47.5° | 56.1   |
| 50°   | 43.4   |
| 52.5° | 34.4   |
| 55°   | 27.4   |
| 57.5° | 22.2   |
| 60°   | 17.4   |
| 62.5° | 12.7   |
| 65°   | 8.0    |
| 67.5° | 2.8    |
| 70°   | 0.5    |
| 72.5° | 0.5    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.5    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)