

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: P785036

Luminaire Tested: LER4DD45BD010-EC4DR6040509040-4LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P785036  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4DD45BD010-EC4DR6040509040-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3442.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
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

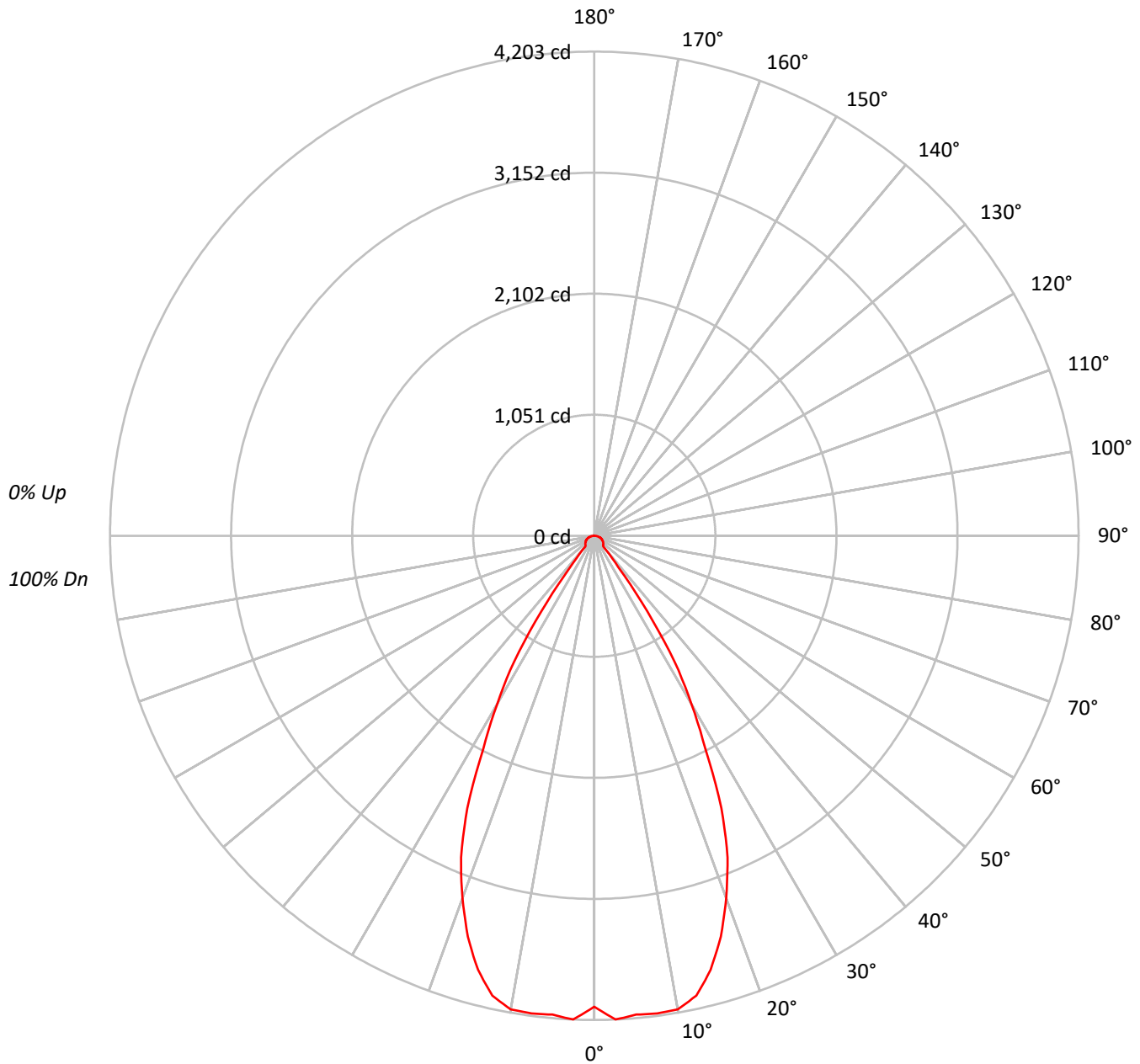


Downlight

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  |  | 94  | 92  | 90  |  | 92  |
| 3   | 102 | 96  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 88  | 84  |  | 89  | 86  | 83  |  | 87  |
| 4   | 97  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 77  |  | 82  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 74  | 81  | 77  | 73  |  | 80  | 76  | 72  |  | 78  |
| 6   | 88  | 79  | 73  | 69  | 87  | 78  | 73  | 69  | 77  | 72  | 68  |  | 75  | 71  | 68  |  | 74  |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 68  | 64  | 73  | 68  | 64  |  | 72  | 67  | 64  |  | 71  |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 60  |  | 68  | 64  | 60  |  | 67  |
| 9   | 77  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  |  | 65  | 60  | 57  |  | 64  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 58  | 54  |  | 62  | 57  | 54  |  | 61  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 446669 |
| 5°  | 457654 |
| 10° | 463179 |
| 15° | 441239 |
| 20° | 389037 |
| 25° | 314663 |
| 30° | 212850 |
| 35° | 106653 |
| 40° | 17301  |
| 45° | 16935  |
| 50° | 17270  |
| 55° | 17525  |
| 60° | 18028  |
| 65° | 18433  |
| 70° | 18880  |
| 75° | 19081  |
| 80° | 18436  |
| 85° | 15294  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 19081 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 398.8  | 11.6      |
| 10°-20°   | 1079.0 | 31.3      |
| 20°-30°   | 1160.9 | 33.7      |
| 30°-40°   | 504.6  | 14.7      |
| 40°-50°   | 84.8   | 2.5       |
| 50°-60°   | 82.4   | 2.4       |
| 60°-70°   | 70.5   | 2.0       |
| 70°-80°   | 47.1   | 1.4       |
| 80°-90°   | 14.1   | 0.4       |
| 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°    | 2638.7 | 76.7      |
| 0°-40°    | 3143.3 | 91.3      |
| 0°-60°    | 3310.5 | 96.2      |
| 0°-90°    | 3442.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3442.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4088 |      |
| 5°  | 4173 | 399  |
| 15° | 3901 | 1079 |
| 25° | 2610 | 1161 |
| 35° | 800  | 505  |
| 45° | 110  | 85   |
| 55° | 92   | 82   |
| 65° | 71   | 70   |
| 75° | 45   | 47   |
| 85° | 12   | 14   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4088.1 |
| 2.5°  | 4203.0 |
| 5°    | 4172.7 |
| 7.5°  | 4182.3 |
| 10°   | 4174.8 |
| 12.5° | 4088.6 |
| 15°   | 3900.8 |
| 17.5° | 3648.6 |
| 20°   | 3345.9 |
| 22.5° | 3021.9 |
| 25°   | 2610.1 |
| 27.5° | 2087.7 |
| 30°   | 1687.1 |
| 32.5° | 1300.3 |
| 35°   | 799.6  |
| 37.5° | 342.1  |
| 40°   | 121.3  |
| 42.5° | 111.7  |
| 45°   | 109.6  |
| 47.5° | 105.9  |
| 50°   | 101.6  |
| 52.5° | 96.8   |
| 55°   | 92.0   |
| 57.5° | 87.3   |
| 60°   | 82.5   |
| 62.5° | 77.1   |
| 65°   | 71.3   |
| 67.5° | 65.4   |
| 70°   | 59.1   |
| 72.5° | 52.1   |
| 75°   | 45.2   |
| 77.5° | 37.2   |
| 80°   | 29.3   |
| 82.5° | 20.7   |
| 85°   | 12.2   |
| 87.5° | 4.3    |
| 90°   | 0.0    |



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

## Scaled Data Report







— 0°-180°







(END OF REPORT)