

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: P785027

Luminaire Tested: LER4DD45BD010-EC4DR6040509027-4LBDP1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P785027  
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-EC4DR6040509027-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3632.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

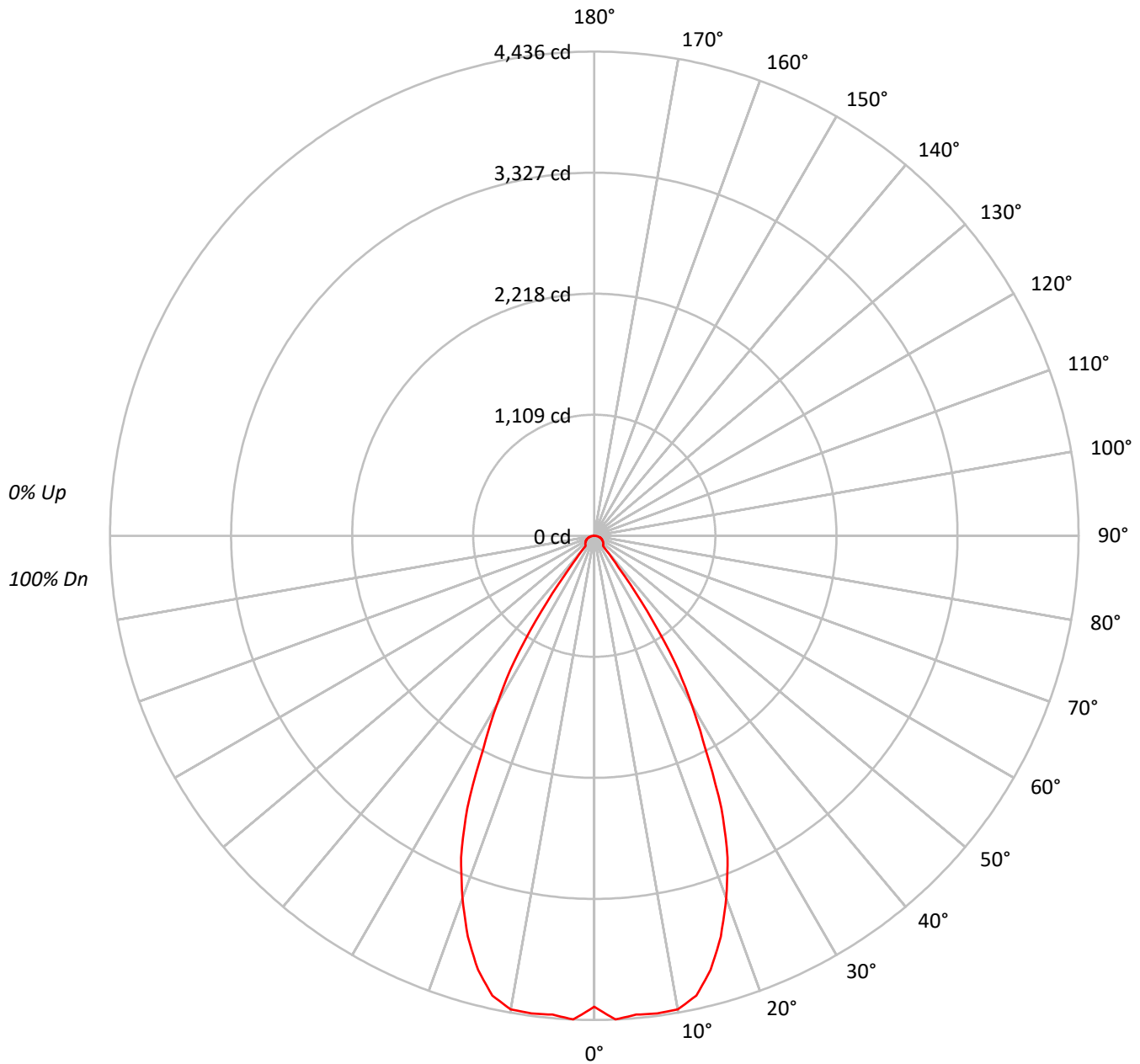


Downlight

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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°  | 471373 |
| 5°  | 482968 |
| 10° | 488796 |
| 15° | 465649 |
| 20° | 410559 |
| 25° | 332071 |
| 30° | 224621 |
| 35° | 112562 |
| 40° | 18257  |
| 45° | 17878  |
| 50° | 18222  |
| 55° | 18497  |
| 60° | 19011  |
| 65° | 19442  |
| 70° | 19902  |
| 75° | 20137  |
| 80° | 19443  |
| 85° | 16172  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 20137 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 420.9  | 11.6      |
| 10°-20°   | 1138.7 | 31.3      |
| 20°-30°   | 1225.1 | 33.7      |
| 30°-40°   | 532.5  | 14.7      |
| 40°-50°   | 89.4   | 2.5       |
| 50°-60°   | 87.0   | 2.4       |
| 60°-70°   | 74.4   | 2.0       |
| 70°-80°   | 49.8   | 1.4       |
| 80°-90°   | 14.9   | 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°    | 2784.6 | 76.7      |
| 0°-40°    | 3317.2 | 91.3      |
| 0°-60°    | 3493.6 | 96.2      |
| 0°-90°    | 3632.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3632.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4314 |      |
| 5°  | 4404 | 421  |
| 15° | 4117 | 1139 |
| 25° | 2754 | 1225 |
| 35° | 844  | 533  |
| 45° | 116  | 89   |
| 55° | 97   | 87   |
| 65° | 75   | 74   |
| 75° | 48   | 50   |
| 85° | 13   | 15   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4314.2 |
| 2.5°  | 4435.5 |
| 5°    | 4403.5 |
| 7.5°  | 4413.6 |
| 10°   | 4405.7 |
| 12.5° | 4314.8 |
| 15°   | 4116.6 |
| 17.5° | 3850.4 |
| 20°   | 3531.0 |
| 22.5° | 3189.1 |
| 25°   | 2754.5 |
| 27.5° | 2203.1 |
| 30°   | 1780.4 |
| 32.5° | 1372.2 |
| 35°   | 843.9  |
| 37.5° | 361.0  |
| 40°   | 128.0  |
| 42.5° | 117.9  |
| 45°   | 115.7  |
| 47.5° | 111.7  |
| 50°   | 107.2  |
| 52.5° | 102.2  |
| 55°   | 97.1   |
| 57.5° | 92.1   |
| 60°   | 87.0   |
| 62.5° | 81.4   |
| 65°   | 75.2   |
| 67.5° | 69.1   |
| 70°   | 62.3   |
| 72.5° | 55.0   |
| 75°   | 47.7   |
| 77.5° | 39.3   |
| 80°   | 30.9   |
| 82.5° | 21.9   |
| 85°   | 12.9   |
| 87.5° | 4.5    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)