

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: P781295

Luminaire Tested: LER4D40BD010-EC4DR4040509040-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P781295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4D40BD010-EC4DR4040509040-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4154.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6  
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

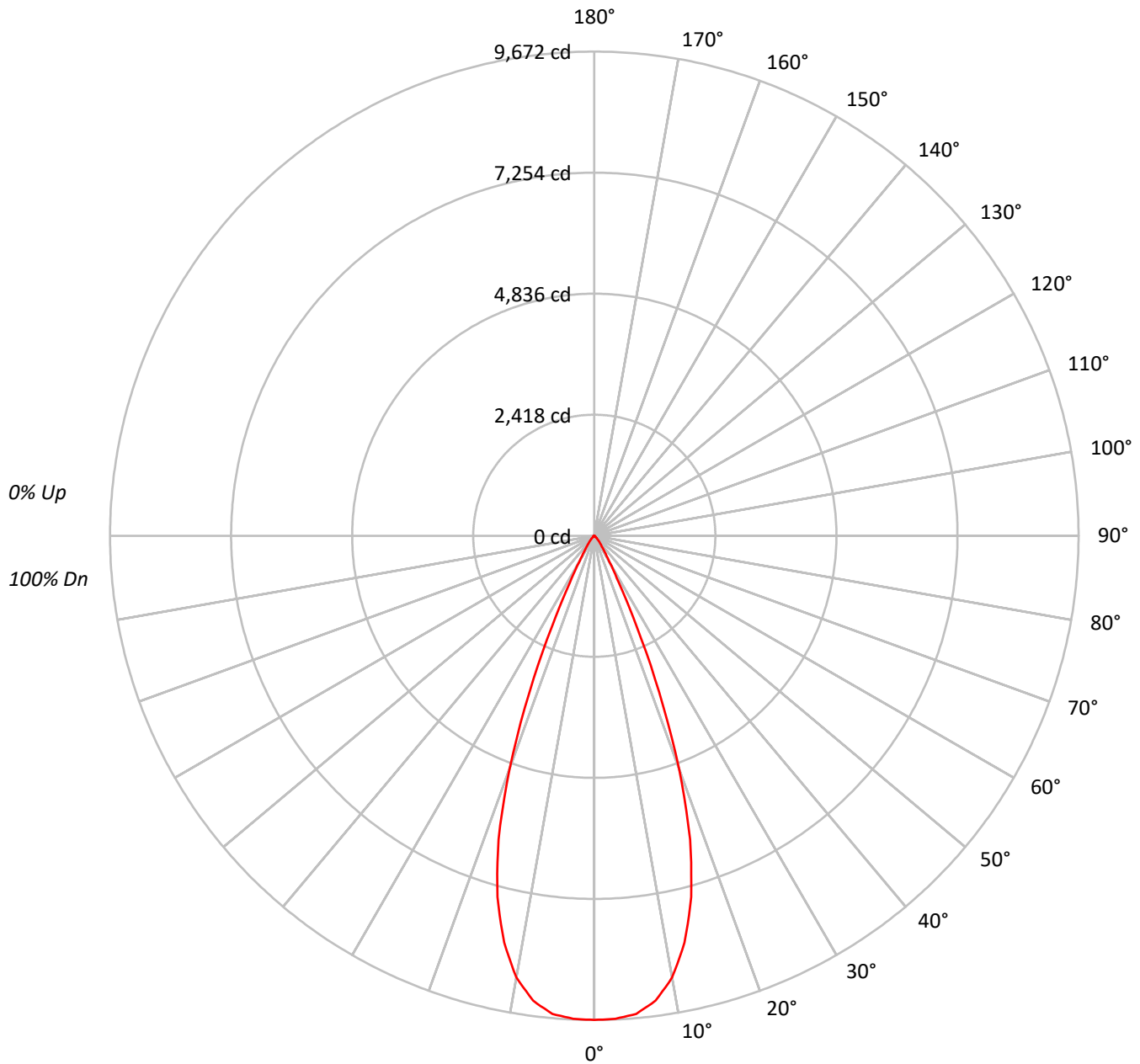


Downlight

TEST NUMBER: P781295

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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  |     |     |  |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  |  | 50  | 30  | 10  |  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 100 |
| 1   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 |  | 106 | 105 | 103 |  |  | 103 | 101 | 100 |  |  | 96  |
| 2   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99  |  | 102 | 99  | 97  |  |  | 99  | 97  | 95  |  |  | 92  |
| 3   | 106 | 101 | 97  | 94  | 104 | 100 | 96  | 93  |  | 97  | 94  | 92  |  |  | 95  | 93  | 90  |  |  | 88  |
| 4   | 102 | 97  | 92  | 89  | 101 | 95  | 91  | 88  |  | 93  | 90  | 87  |  |  | 92  | 89  | 86  |  |  | 84  |
| 5   | 99  | 92  | 88  | 84  | 97  | 91  | 87  | 84  |  | 90  | 86  | 83  |  |  | 88  | 85  | 83  |  |  | 81  |
| 6   | 95  | 88  | 84  | 80  | 94  | 88  | 83  | 80  |  | 86  | 82  | 80  |  |  | 85  | 82  | 79  |  |  | 77  |
| 7   | 92  | 85  | 80  | 77  | 91  | 84  | 80  | 77  |  | 83  | 79  | 76  |  |  | 82  | 79  | 76  |  |  | 74  |
| 8   | 89  | 82  | 77  | 74  | 88  | 81  | 77  | 74  |  | 80  | 76  | 73  |  |  | 79  | 76  | 73  |  |  | 72  |
| 9   | 86  | 79  | 74  | 71  | 85  | 78  | 74  | 71  |  | 77  | 73  | 71  |  |  | 76  | 73  | 70  |  |  | 69  |
| 10  | 83  | 76  | 71  | 68  | 82  | 75  | 71  | 68  |  | 75  | 71  | 68  |  |  | 74  | 70  | 68  |  |  | 67  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1056737 |
| 5°  | 1051605 |
| 10° | 993990  |
| 15° | 845015  |
| 20° | 575946  |
| 25° | 240304  |
| 30° | 75559   |
| 35° | 35120   |
| 40° | 19426   |
| 45° | 8900    |
| 50° | 4317    |
| 55° | 2362    |
| 60° | 1246    |
| 65° | 440     |
| 70° | 192     |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8900 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 895.3  | 21.6      |
| 10°-20°   | 2005.7 | 48.3      |
| 20°-30°   | 1004.0 | 24.2      |
| 30°-40°   | 184.0  | 4.4       |
| 40°-50°   | 50.8   | 1.2       |
| 50°-60°   | 11.9   | 0.3       |
| 60°-70°   | 2.3    | 0.1       |
| 70°-80°   | 0.1    | 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°    | 3904.9 | 94.0      |
| 0°-40°    | 4089.0 | 98.4      |
| 0°-60°    | 4151.7 | 99.9      |
| 0°-90°    | 4154.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4154.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9672 |      |
| 5°  | 9588 | 895  |
| 15° | 7470 | 2006 |
| 25° | 1993 | 1004 |
| 35° | 263  | 184  |
| 45° | 58   | 51   |
| 55° | 12   | 12   |
| 65° | 2    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 9671.7 |
| 2.5°  | 9657.6 |
| 5°    | 9588.1 |
| 7.5°  | 9366.6 |
| 10°   | 8959.2 |
| 12.5° | 8324.2 |
| 15°   | 7470.4 |
| 17.5° | 6360.2 |
| 20°   | 4953.4 |
| 22.5° | 3377.0 |
| 25°   | 1993.3 |
| 27.5° | 1053.7 |
| 30°   | 598.9  |
| 32.5° | 387.0  |
| 35°   | 263.3  |
| 37.5° | 188.1  |
| 40°   | 136.2  |
| 42.5° | 93.2   |
| 45°   | 57.6   |
| 47.5° | 36.7   |
| 50°   | 25.4   |
| 52.5° | 18.1   |
| 55°   | 12.4   |
| 57.5° | 7.9    |
| 60°   | 5.7    |
| 62.5° | 3.4    |
| 65°   | 1.7    |
| 67.5° | 1.1    |
| 70°   | 0.6    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)