

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: P785136

Luminaire Tested: LER4DD50D010-EC4DR3040509050-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P785136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4DD50D010-EC4DR3040509050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4053.4 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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

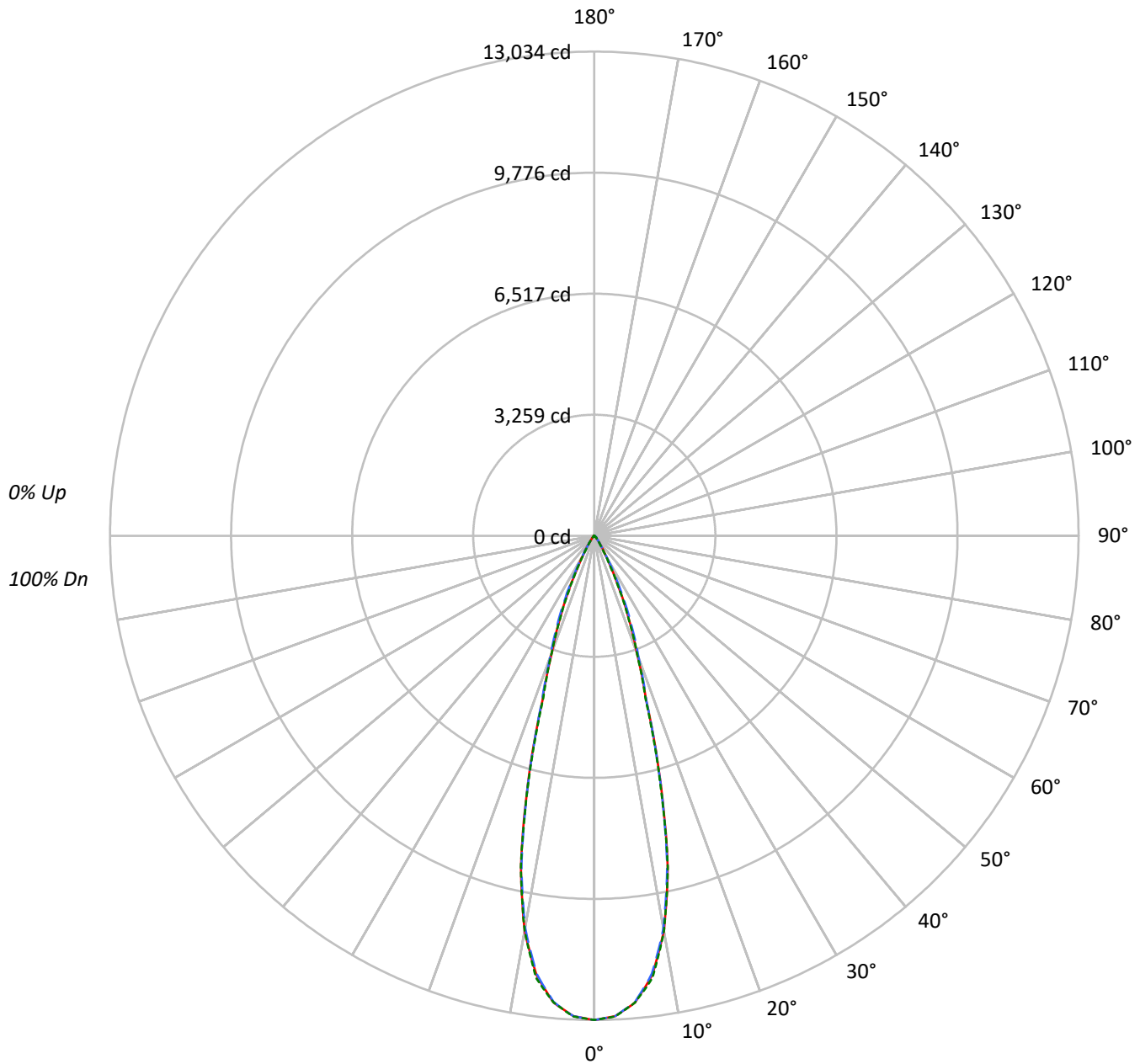


Downlight

TEST NUMBER: P785136

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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 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 997636 | 997636 | 997636 |
| 5°  | 968991 | 967862 | 969045 |
| 10° | 839297 | 833374 | 839095 |
| 15° | 547597 | 544657 | 541923 |
| 20° | 272299 | 282513 | 271932 |
| 25° | 137165 | 154673 | 134353 |
| 30° | 54913  | 59836  | 47851  |
| 35° | 25472  | 24398  | 20445  |
| 40° | 11001  | 12210  | 10362  |
| 45° | 7761   | 9623   | 7826   |
| 50° | 2667   | 7014   | 2822   |
| 55° | 1535   | 2909   | 1628   |
| 60° | 1072   | 1271   | 1072   |
| 65° | 688    | 688    | 688    |
| 70° | 425    | 291    | 425    |
| 75° | 0      | 177    | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9623 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1146.1 | 28.3      |
| 10°-20°   | 1845.8 | 45.5      |
| 20°-30°   | 797.6  | 19.7      |
| 30°-40°   | 181.8  | 4.5       |
| 40°-50°   | 62.4   | 1.5       |
| 50°-60°   | 15.3   | 0.4       |
| 60°-70°   | 3.9    | 0.1       |
| 70°-80°   | 0.4    | 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°    | 3789.5 | 93.5      |
| 0°-40°    | 3971.3 | 98.0      |
| 0°-60°    | 4049.0 | 99.9      |
| 0°-90°    | 4053.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4053.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 13034 | 13034 | 13034 | 13034 | 13034 |      |
| 5°  | 12611 | 12599 | 12596 | 12623 | 12612 | 1147 |
| 15° | 6910  | 6827  | 6873  | 6851  | 6839  | 1850 |
| 25° | 1624  | 1686  | 1831  | 1643  | 1591  | 777  |
| 35° | 273   | 278   | 261   | 259   | 219   | 185  |
| 45° | 72    | 89    | 89    | 89    | 72    | 51   |
| 55° | 12    | 12    | 22    | 13    | 12    | 11   |
| 65° | 4     | 4     | 4     | 4     | 4     | 4    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 13033.6 | 13033.6 | 13033.6 | 13033.6 | 13033.6 |
| 2.5°  | 12947.2 | 12938.2 | 12943.3 | 12949.7 | 12952.3 |
| 5°    | 12611.2 | 12599.1 | 12596.5 | 12622.7 | 12611.9 |
| 7.5°  | 11933.6 | 11916.3 | 11890.1 | 11949.6 | 12005.2 |
| 10°   | 10798.4 | 10779.2 | 10722.2 | 10750.4 | 10795.8 |
| 12.5° | 9122.5  | 9060.4  | 9059.1  | 9148.7  | 9136.5  |
| 15°   | 6910.3  | 6827.1  | 6873.2  | 6850.8  | 6838.7  |
| 17.5° | 4647.0  | 4615.0  | 4676.4  | 4657.9  | 4577.9  |
| 20°   | 3342.9  | 3351.2  | 3468.3  | 3409.4  | 3338.4  |
| 22.5° | 2439.3  | 2469.4  | 2608.2  | 2456.6  | 2400.9  |
| 25°   | 1624.1  | 1685.5  | 1831.4  | 1642.6  | 1590.8  |
| 27.5° | 998.9   | 1027.0  | 1174.9  | 986.1   | 957.9   |
| 30°   | 621.3   | 607.3   | 677.0   | 581.0   | 541.4   |
| 32.5° | 407.6   | 389.7   | 412.1   | 369.9   | 337.9   |
| 35°   | 272.6   | 278.4   | 261.1   | 259.2   | 218.8   |
| 37.5° | 170.2   | 195.8   | 172.8   | 184.3   | 140.8   |
| 40°   | 110.1   | 142.1   | 122.2   | 135.0   | 103.7   |
| 42.5° | 90.2    | 109.4   | 100.5   | 106.9   | 92.1    |
| 45°   | 71.7    | 88.9    | 88.9    | 88.9    | 72.3    |
| 47.5° | 39.7    | 59.5    | 76.1    | 60.8    | 42.2    |
| 50°   | 22.4    | 30.1    | 58.9    | 31.4    | 23.7    |
| 52.5° | 15.4    | 17.3    | 40.3    | 17.9    | 16.0    |
| 55°   | 11.5    | 12.2    | 21.8    | 12.8    | 12.2    |
| 57.5° | 9.0     | 9.6     | 11.5    | 9.6     | 9.0     |
| 60°   | 7.0     | 7.0     | 8.3     | 7.7     | 7.0     |
| 62.5° | 5.1     | 5.1     | 5.8     | 5.1     | 5.1     |
| 65°   | 3.8     | 3.8     | 3.8     | 3.8     | 3.8     |
| 67.5° | 1.9     | 2.6     | 2.6     | 2.6     | 2.6     |
| 70°   | 1.9     | 1.3     | 1.3     | 1.3     | 1.9     |
| 72.5° | 1.3     | 0.6     | 0.6     | 0.6     | 0.6     |
| 75°   | 0.0     | 0.0     | 0.6     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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

## Scaled Data Report





— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)