

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: P785133

Luminaire Tested: LER4DD50D010-EC4DR3040509040-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P785133  
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-EC4DR3040509040-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4999.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 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 (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

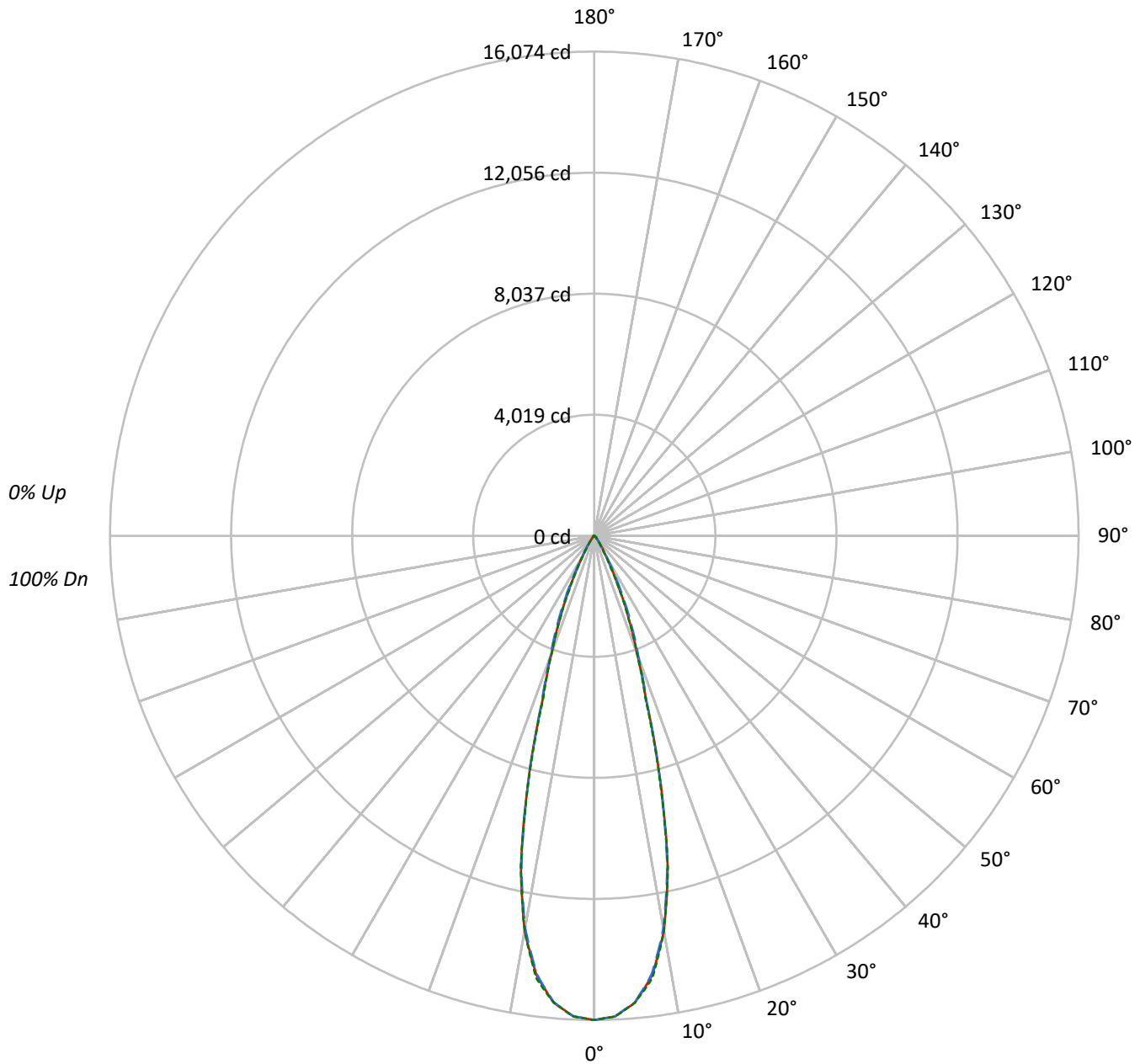


Downlight

TEST NUMBER: P785133

CATALOG NUMBER: LER4DD50D010-EC4DR3040509040-4LBDP1H

### Luminous Intensity Polar Plot



TEST NUMBER: P785133

CATALOG NUMBER: LER4DD50D010-EC4DR3040509040-4LBDP1H

**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°  | 1230366 | 1230366 | 1230366 |
| 5°  | 1195042 | 1193652 | 1195104 |
| 10° | 1035092 | 1027786 | 1034843 |
| 15° | 675345  | 671716  | 668340  |
| 20° | 335818  | 348419  | 335370  |
| 25° | 169158  | 190753  | 165695  |
| 30° | 67729   | 73801   | 59006   |
| 35° | 31415   | 30088   | 25220   |
| 40° | 13559   | 15058   | 12770   |
| 45° | 9569    | 11875   | 9656    |
| 50° | 3287    | 8645    | 3477    |
| 55° | 1895    | 3576    | 2002    |
| 60° | 1332    | 1577    | 1332    |
| 65° | 851     | 851     | 851     |
| 70° | 537     | 358     | 537     |
| 75° | 0       | 237     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11875 cd/sqm



TEST NUMBER: P785133

CATALOG NUMBER: LER4DD50D010-EC4DR3040509040-4LBDP1H

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1413.5 | 28.3      |
| 10°-20°   | 2276.4 | 45.5      |
| 20°-30°   | 983.7  | 19.7      |
| 30°-40°   | 224.2  | 4.5       |
| 40°-50°   | 77.0   | 1.5       |
| 50°-60°   | 18.8   | 0.4       |
| 60°-70°   | 4.9    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 4673.6 | 93.5      |
| 0°-40°    | 4897.8 | 98.0      |
| 0°-60°    | 4993.6 | 99.9      |
| 0°-90°    | 4999.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4999.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 16074 | 16074 | 16074 | 16074 | 16074 |      |
| 5°  | 15553 | 15538 | 15535 | 15567 | 15554 | 1415 |
| 15° | 8522  | 8420  | 8477  | 8449  | 8434  | 2282 |
| 25° | 2003  | 2079  | 2259  | 2026  | 1962  | 959  |
| 35° | 336   | 343   | 322   | 320   | 270   | 228  |
| 45° | 88    | 110   | 110   | 110   | 89    | 63   |
| 55° | 14    | 15    | 27    | 16    | 15    | 14   |
| 65° | 5     | 5     | 5     | 5     | 5     | 5    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P785133

CATALOG NUMBER: LER4DD50D010-EC4DR3040509040-4LBDP1H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 16074.1 | 16074.1 | 16074.1 | 16074.1 | 16074.1 |
| 2.5°  | 15967.5 | 15956.5 | 15962.8 | 15970.7 | 15973.8 |
| 5°    | 15553.2 | 15538.2 | 15535.1 | 15567.4 | 15554.0 |
| 7.5°  | 14717.5 | 14696.2 | 14663.8 | 14737.2 | 14805.9 |
| 10°   | 13317.5 | 13293.8 | 13223.5 | 13258.3 | 13314.3 |
| 12.5° | 11250.6 | 11174.0 | 11172.5 | 11282.9 | 11268.0 |
| 15°   | 8522.4  | 8419.8  | 8476.6  | 8449.0  | 8434.0  |
| 17.5° | 5731.0  | 5691.6  | 5767.3  | 5744.5  | 5645.8  |
| 20°   | 4122.7  | 4133.0  | 4277.4  | 4204.8  | 4117.2  |
| 22.5° | 3008.4  | 3045.5  | 3216.7  | 3029.7  | 2961.0  |
| 25°   | 2002.9  | 2078.7  | 2258.6  | 2025.8  | 1961.9  |
| 27.5° | 1231.9  | 1266.6  | 1448.9  | 1216.1  | 1181.4  |
| 30°   | 766.3   | 748.9   | 835.0   | 716.6   | 667.6   |
| 32.5° | 502.7   | 480.6   | 508.2   | 456.1   | 416.7   |
| 35°   | 336.2   | 343.3   | 322.0   | 319.6   | 269.9   |
| 37.5° | 209.9   | 241.5   | 213.1   | 227.3   | 173.6   |
| 40°   | 135.7   | 175.2   | 150.7   | 166.5   | 127.8   |
| 42.5° | 111.3   | 135.0   | 123.9   | 131.8   | 113.6   |
| 45°   | 88.4    | 109.7   | 109.7   | 109.7   | 89.2    |
| 47.5° | 48.9    | 73.4    | 93.9    | 75.0    | 52.1    |
| 50°   | 27.6    | 37.1    | 72.6    | 38.7    | 29.2    |
| 52.5° | 18.9    | 21.3    | 49.7    | 22.1    | 19.7    |
| 55°   | 14.2    | 15.0    | 26.8    | 15.8    | 15.0    |
| 57.5° | 11.0    | 11.8    | 14.2    | 11.8    | 11.0    |
| 60°   | 8.7     | 8.7     | 10.3    | 9.5     | 8.7     |
| 62.5° | 6.3     | 6.3     | 7.1     | 6.3     | 6.3     |
| 65°   | 4.7     | 4.7     | 4.7     | 4.7     | 4.7     |
| 67.5° | 2.4     | 3.2     | 3.2     | 3.2     | 3.2     |
| 70°   | 2.4     | 1.6     | 1.6     | 1.6     | 2.4     |
| 72.5° | 1.6     | 0.8     | 0.8     | 0.8     | 0.8     |
| 75°   | 0.0     | 0.0     | 0.8     | 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     |



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°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)