

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: P780465

Luminaire Tested: LER4D25D010-EC4DR3020359027-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P780465  
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: LER4D25D010-EC4DR3020359027-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2372.1 lumens  
Efficiency: N/A  
Efficacy: 94.5 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): 25.1  
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



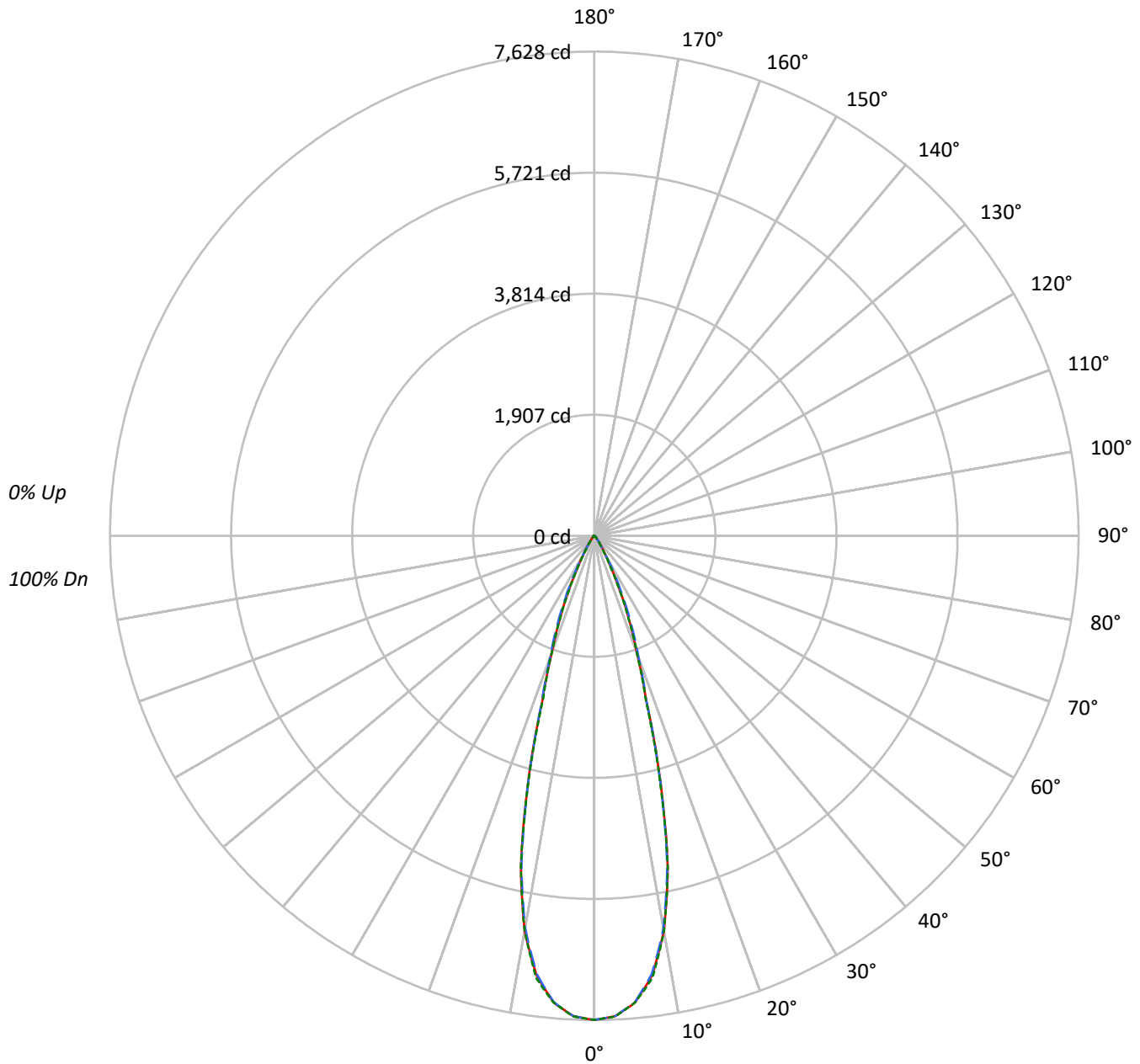
Downlight



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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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 |  | 103 | 102 | 101 |  | 99  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  |  | 99  | 97  | 96  |  | 97  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  |  | 96  | 93  | 91  |  | 94  |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  |  | 93  | 90  | 88  |  | 91  |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  |  | 90  | 86  | 84  |  | 88  |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  |  | 87  | 83  | 81  |  | 85  |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  |  | 84  | 81  | 78  |  | 83  |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  |  | 81  | 78  | 75  |  | 80  |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  |  | 79  | 75  | 73  |  | 78  |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  |  | 76  | 73  | 71  |  | 76  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 583835 | 583835 | 583835 |
| 5°  | 567079 | 566418 | 567102 |
| 10° | 491170 | 487704 | 491054 |
| 15° | 320469 | 318741 | 317141 |
| 20° | 159352 | 165331 | 159140 |
| 25° | 80276  | 90520  | 78629  |
| 30° | 32146  | 35018  | 28000  |
| 35° | 14904  | 14278  | 11970  |
| 40° | 6435   | 7144   | 6065   |
| 45° | 4536   | 5640   | 4579   |
| 50° | 1560   | 4096   | 1655   |
| 55° | 907    | 1695   | 947    |
| 60° | 628    | 750    | 628    |
| 65° | 398    | 398    | 398    |
| 70° | 246    | 157    | 246    |
| 75° | 0      | 118    | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5640 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 670.7  | 28.3      |
| 10°-20°   | 1080.2 | 45.5      |
| 20°-30°   | 466.8  | 19.7      |
| 30°-40°   | 106.4  | 4.5       |
| 40°-50°   | 36.5   | 1.5       |
| 50°-60°   | 8.9    | 0.4       |
| 60°-70°   | 2.3    | 0.1       |
| 70°-80°   | 0.2    | 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°    | 2217.7 | 93.5      |
| 0°-40°    | 2324.1 | 98.0      |
| 0°-60°    | 2369.6 | 99.9      |
| 0°-90°    | 2372.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2372.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7628 | 7628  | 7628 | 7628  | 7628 |      |
| 5°  | 7380 | 7373  | 7372 | 7387  | 7381 | 671  |
| 15° | 4044 | 3995  | 4022 | 4009  | 4002 | 1083 |
| 25° | 950  | 986   | 1072 | 961   | 931  | 455  |
| 35° | 160  | 163   | 153  | 152   | 128  | 108  |
| 45° | 42   | 52    | 52   | 52    | 42   | 30   |
| 55° | 7    | 7     | 13   | 8     | 7    | 7    |
| 65° | 2    | 2     | 2    | 2     | 2    | 2    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 7627.5 | 7627.5 | 7627.5 | 7627.5 | 7627.5 |
| 2.5°  | 7576.9 | 7571.7 | 7574.7 | 7578.4 | 7580.0 |
| 5°    | 7380.4 | 7373.2 | 7371.8 | 7387.1 | 7380.7 |
| 7.5°  | 6983.8 | 6973.7 | 6958.3 | 6993.2 | 7025.7 |
| 10°   | 6319.4 | 6308.2 | 6274.8 | 6291.3 | 6317.9 |
| 12.5° | 5338.6 | 5302.3 | 5301.6 | 5354.0 | 5346.9 |
| 15°   | 4044.1 | 3995.4 | 4022.3 | 4009.2 | 4002.1 |
| 17.5° | 2719.5 | 2700.8 | 2736.8 | 2725.9 | 2679.1 |
| 20°   | 1956.3 | 1961.2 | 2029.7 | 1995.2 | 1953.7 |
| 22.5° | 1427.6 | 1445.2 | 1526.4 | 1437.6 | 1405.0 |
| 25°   | 950.5  | 986.4  | 1071.8 | 961.3  | 931.0  |
| 27.5° | 584.6  | 601.0  | 687.5  | 577.1  | 560.6  |
| 30°   | 363.7  | 355.4  | 396.2  | 340.0  | 316.8  |
| 32.5° | 238.5  | 228.0  | 241.2  | 216.5  | 197.7  |
| 35°   | 159.5  | 162.9  | 152.8  | 151.7  | 128.1  |
| 37.5° | 99.6   | 114.6  | 101.1  | 107.8  | 82.4   |
| 40°   | 64.4   | 83.1   | 71.5   | 79.0   | 60.7   |
| 42.5° | 52.8   | 64.1   | 58.8   | 62.6   | 53.9   |
| 45°   | 41.9   | 52.1   | 52.1   | 52.1   | 42.3   |
| 47.5° | 23.2   | 34.8   | 44.6   | 35.6   | 24.7   |
| 50°   | 13.1   | 17.6   | 34.4   | 18.3   | 13.9   |
| 52.5° | 9.0    | 10.1   | 23.6   | 10.5   | 9.3    |
| 55°   | 6.8    | 7.1    | 12.7   | 7.5    | 7.1    |
| 57.5° | 5.3    | 5.6    | 6.8    | 5.6    | 5.3    |
| 60°   | 4.1    | 4.1    | 4.9    | 4.5    | 4.1    |
| 62.5° | 3.0    | 3.0    | 3.4    | 3.0    | 3.0    |
| 65°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 67.5° | 1.1    | 1.5    | 1.5    | 1.5    | 1.5    |
| 70°   | 1.1    | 0.7    | 0.7    | 0.7    | 1.1    |
| 72.5° | 0.7    | 0.4    | 0.4    | 0.4    | 0.4    |
| 75°   | 0.0    | 0.0    | 0.4    | 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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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)