

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: P780630

Luminaire Tested: LER4D25D010-EC4DR6520359024-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P780630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER4D25D010-EC4DR6520359024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

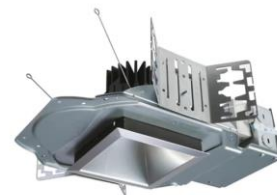
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2013.3 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' 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



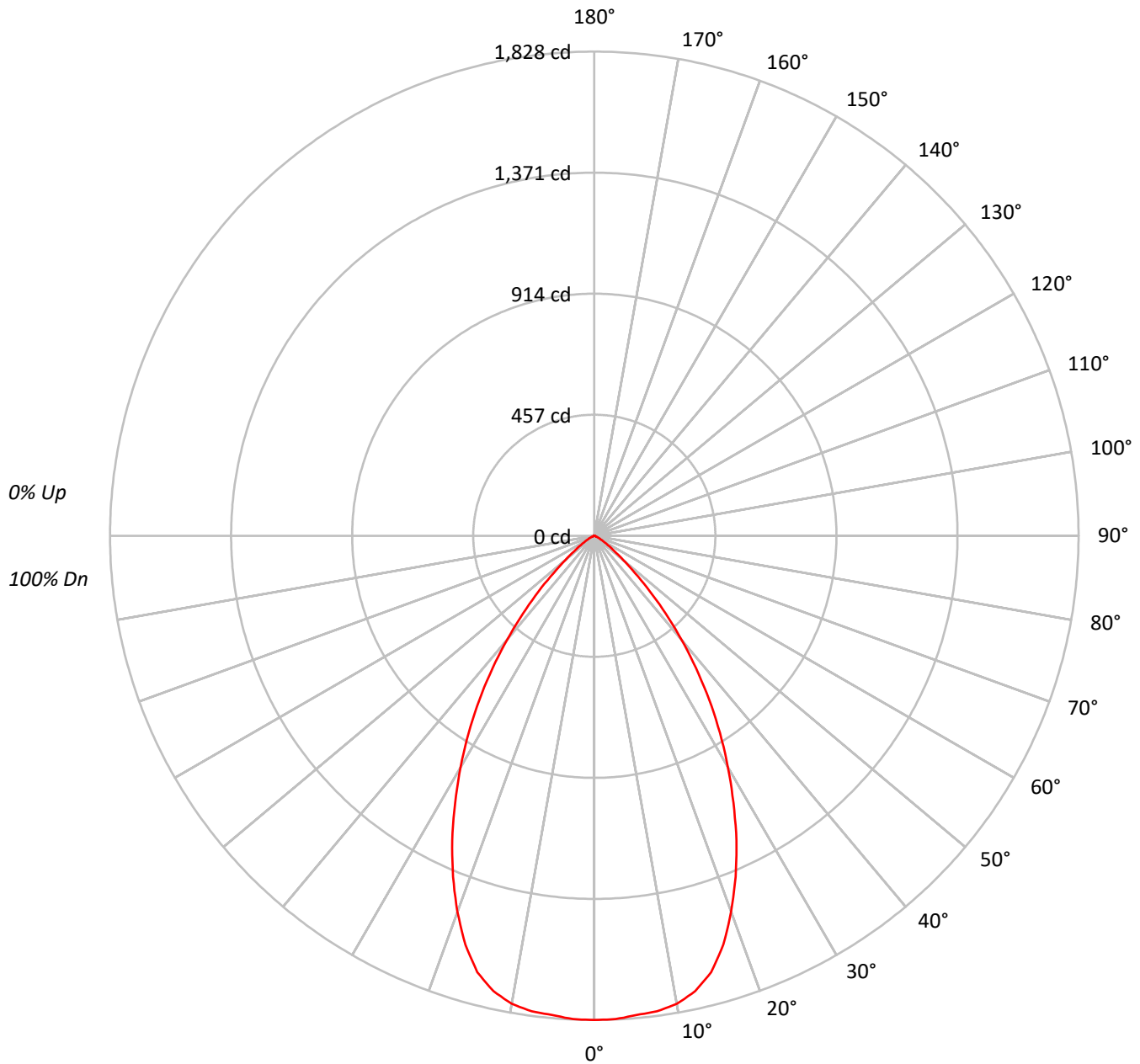
Downlight



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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   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 92  | 97  | 93  | 90  |  | 94  | 91  | 88  |  | 91  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  | 90  | 86  | 82  |  | 87  | 84  | 81  |  | 85  |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 84  | 79  | 75  |  | 82  | 77  | 74  |  | 80  |
| 5   | 90  | 81  | 74  | 70  | 88  | 80  | 74  | 69  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 75  |
| 6   | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  |  | 71  | 67  | 63  |  | 70  |
| 7   | 80  | 70  | 64  | 59  | 79  | 69  | 63  | 59  | 68  | 63  | 59  |  | 67  | 62  | 58  |  | 66  |
| 8   | 76  | 66  | 59  | 55  | 75  | 65  | 59  | 55  | 64  | 58  | 54  |  | 63  | 58  | 54  |  | 62  |
| 9   | 72  | 61  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 54  | 51  |  | 59  | 54  | 50  |  | 58  |
| 10  | 68  | 58  | 52  | 47  | 67  | 57  | 51  | 47  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 55  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 106768 |
| 5°  | 106496 |
| 10° | 106405 |
| 15° | 103128 |
| 20° | 93881  |
| 25° | 81809  |
| 30° | 68046  |
| 35° | 53916  |
| 40° | 38913  |
| 45° | 24580  |
| 50° | 12811  |
| 55° | 6812   |
| 60° | 3574   |
| 65° | 1962   |
| 70° | 820    |
| 75° | 903    |
| 80° | 639    |
| 85° | 536    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24580 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 172.9  | 8.6       |
| 10°-20°   | 473.4  | 23.5      |
| 20°-30°   | 578.6  | 28.7      |
| 30°-40°   | 469.5  | 23.3      |
| 40°-50°   | 234.0  | 11.6      |
| 50°-60°   | 65.2   | 3.2       |
| 60°-70°   | 14.8   | 0.7       |
| 70°-80°   | 3.9    | 0.2       |
| 80°-90°   | 1.0    | 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°    | 1224.9 | 60.8      |
| 0°-40°    | 1694.4 | 84.2      |
| 0°-60°    | 1993.6 | 99.0      |
| 0°-90°    | 2013.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2013.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1828 |      |
| 5°  | 1816 | 173  |
| 15° | 1706 | 473  |
| 25° | 1270 | 579  |
| 35° | 756  | 470  |
| 45° | 298  | 234  |
| 55° | 67   | 65   |
| 65° | 14   | 15   |
| 75° | 4    | 4    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1828.1 |
| 2.5°  | 1826.7 |
| 5°    | 1816.5 |
| 7.5°  | 1810.6 |
| 10°   | 1794.2 |
| 12.5° | 1760.9 |
| 15°   | 1705.6 |
| 17.5° | 1619.0 |
| 20°   | 1510.5 |
| 22.5° | 1393.4 |
| 25°   | 1269.5 |
| 27.5° | 1137.1 |
| 30°   | 1009.0 |
| 32.5° | 882.5  |
| 35°   | 756.2  |
| 37.5° | 630.2  |
| 40°   | 510.4  |
| 42.5° | 398.1  |
| 45°   | 297.6  |
| 47.5° | 207.4  |
| 50°   | 141.0  |
| 52.5° | 97.2   |
| 55°   | 66.9   |
| 57.5° | 45.1   |
| 60°   | 30.6   |
| 62.5° | 21.2   |
| 65°   | 14.2   |
| 67.5° | 7.3    |
| 70°   | 4.8    |
| 72.5° | 4.6    |
| 75°   | 4.0    |
| 77.5° | 2.7    |
| 80°   | 1.9    |
| 82.5° | 1.3    |
| 85°   | 0.8    |
| 87.5° | 0.5    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)