

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: P743168

Luminaire Tested: LD4D15D010-EU4DR300215IC9050-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743168  
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: LD4D15D010-EU4DR300215IC9050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

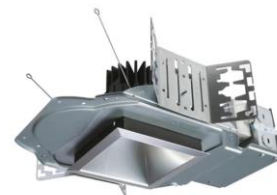
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1284.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 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): 15.8  
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



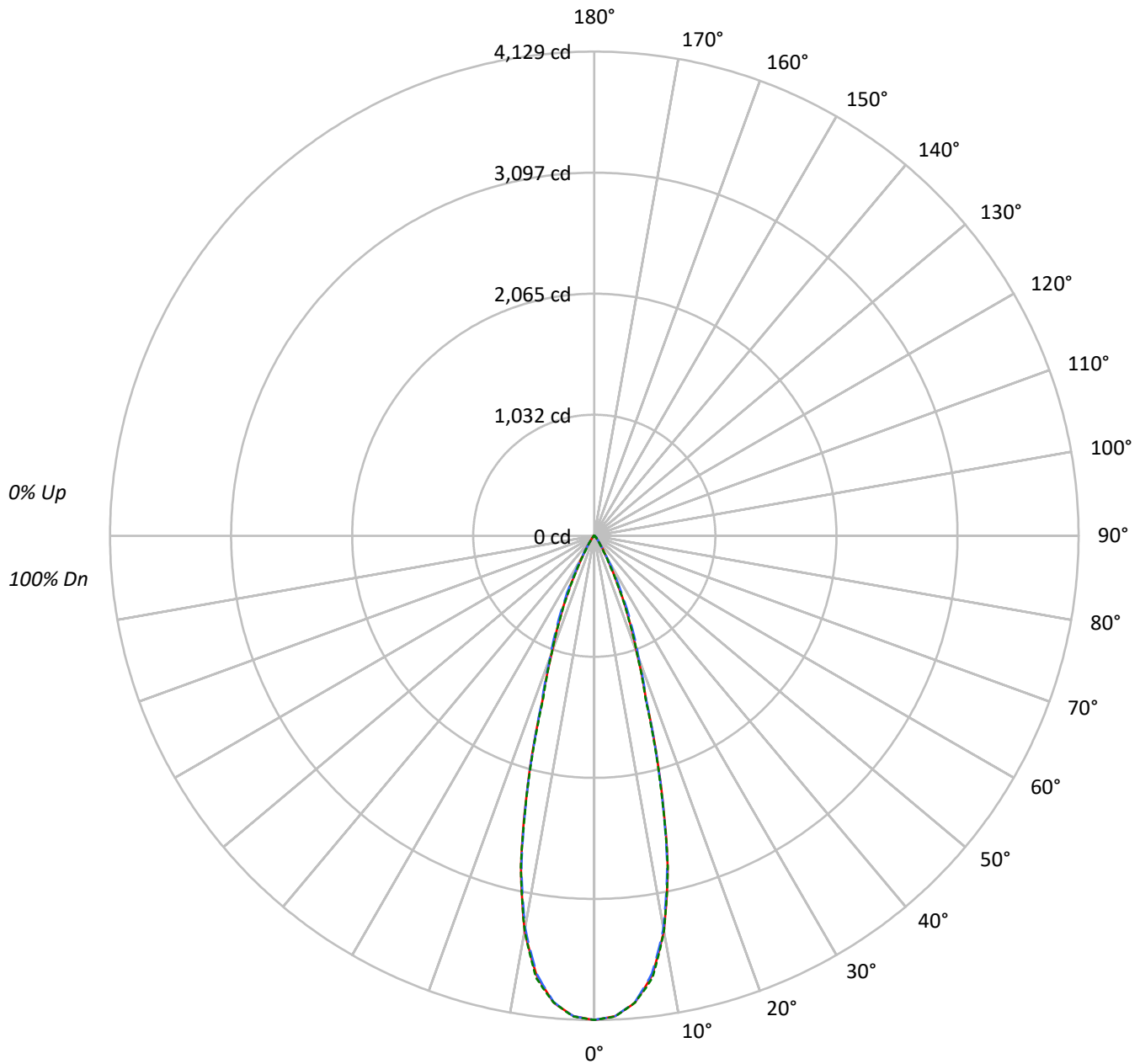
Downlight



TEST NUMBER: P743168

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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°  | 316025 | 316025 | 316025 |
| 5°  | 306959 | 306598 | 306967 |
| 10° | 265871 | 263998 | 265809 |
| 15° | 173464 | 172537 | 171665 |
| 20° | 86254  | 89495  | 86139  |
| 25° | 43453  | 49002  | 42558  |
| 30° | 17394  | 18959  | 15158  |
| 35° | 8064   | 7728   | 6476   |
| 40° | 3487   | 3867   | 3277   |
| 45° | 2457   | 3053   | 2479   |
| 50° | 845    | 2215   | 893    |
| 55° | 494    | 921    | 507    |
| 60° | 337    | 398    | 337    |
| 65° | 217    | 217    | 217    |
| 70° | 134    | 90     | 134    |
| 75° | 0      | 59     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3053 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 363.1  | 28.3      |
| 10°-20°   | 584.7  | 45.5      |
| 20°-30°   | 252.7  | 19.7      |
| 30°-40°   | 57.6   | 4.5       |
| 40°-50°   | 19.8   | 1.5       |
| 50°-60°   | 4.8    | 0.4       |
| 60°-70°   | 1.2    | 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°    | 1200.4 | 93.5      |
| 0°-40°    | 1258.0 | 98.0      |
| 0°-60°    | 1282.6 | 99.9      |
| 0°-90°    | 1284.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1284.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4129 | 4129  | 4129 | 4129  | 4129 |      |
| 5°  | 3995 | 3991  | 3990 | 3999  | 3995 | 363  |
| 15° | 2189 | 2163  | 2177 | 2170  | 2166 | 586  |
| 25° | 514  | 534   | 580  | 520   | 504  | 246  |
| 35° | 86   | 88    | 83   | 82    | 69   | 59   |
| 45° | 23   | 28    | 28   | 28    | 23   | 16   |
| 55° | 4    | 4     | 7    | 4     | 4    | 4    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 4128.7 | 4128.7 | 4128.7 | 4128.7 | 4128.7 |
| 2.5°  | 4101.4 | 4098.5 | 4100.2 | 4102.2 | 4103.0 |
| 5°    | 3995.0 | 3991.1 | 3990.3 | 3998.6 | 3995.1 |
| 7.5°  | 3780.3 | 3774.8 | 3766.5 | 3785.3 | 3803.0 |
| 10°   | 3420.7 | 3414.6 | 3396.6 | 3405.4 | 3419.9 |
| 12.5° | 2889.8 | 2870.1 | 2869.7 | 2898.1 | 2894.3 |
| 15°   | 2189.0 | 2162.7 | 2177.3 | 2170.2 | 2166.3 |
| 17.5° | 1472.0 | 1461.9 | 1481.4 | 1475.5 | 1450.1 |
| 20°   | 1058.9 | 1061.6 | 1098.7 | 1080.0 | 1057.5 |
| 22.5° | 772.7  | 782.2  | 826.3  | 778.2  | 760.5  |
| 25°   | 514.5  | 533.9  | 580.2  | 520.4  | 503.9  |
| 27.5° | 316.4  | 325.3  | 372.2  | 312.4  | 303.4  |
| 30°   | 196.8  | 192.4  | 214.5  | 184.0  | 171.5  |
| 32.5° | 129.1  | 123.5  | 130.5  | 117.2  | 107.0  |
| 35°   | 86.3   | 88.2   | 82.7   | 82.1   | 69.3   |
| 37.5° | 53.9   | 62.1   | 54.7   | 58.4   | 44.6   |
| 40°   | 34.9   | 45.0   | 38.7   | 42.8   | 32.8   |
| 42.5° | 28.6   | 34.7   | 31.8   | 33.9   | 29.2   |
| 45°   | 22.7   | 28.2   | 28.2   | 28.2   | 22.9   |
| 47.5° | 12.5   | 18.9   | 24.1   | 19.3   | 13.4   |
| 50°   | 7.1    | 9.5    | 18.6   | 9.9    | 7.5    |
| 52.5° | 4.9    | 5.5    | 12.8   | 5.7    | 5.0    |
| 55°   | 3.7    | 3.8    | 6.9    | 4.1    | 3.8    |
| 57.5° | 2.9    | 3.0    | 3.7    | 3.0    | 2.9    |
| 60°   | 2.2    | 2.2    | 2.6    | 2.4    | 2.2    |
| 62.5° | 1.6    | 1.6    | 1.8    | 1.6    | 1.6    |
| 65°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 67.5° | 0.6    | 0.8    | 0.8    | 0.8    | 0.8    |
| 70°   | 0.6    | 0.4    | 0.4    | 0.4    | 0.6    |
| 72.5° | 0.4    | 0.2    | 0.2    | 0.2    | 0.2    |
| 75°   | 0.0    | 0.0    | 0.2    | 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)