

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: P742151

Luminaire Tested: LD4D10D010-EU4DR300210IC9040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742151  
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: LD4D10D010-EU4DR300210IC9040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 967.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 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): 11.7  
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



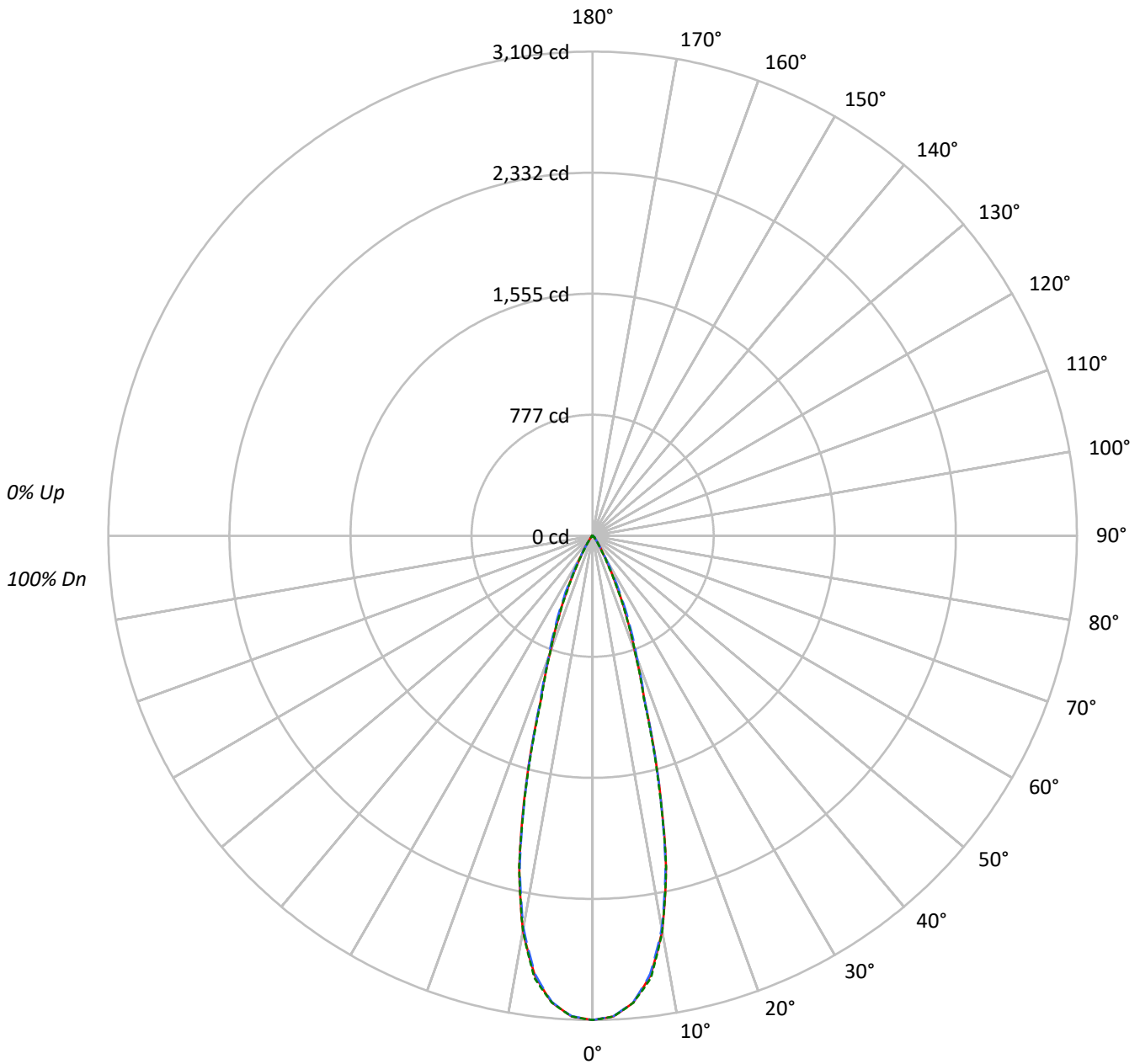
Downlight



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CATALOG NUMBER: LD4D10D010-EU4DR300210IC9040-4LBCSSQMW

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |    |    |    |     |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |    |    |    |     |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 50 | 30 | 10 | 0   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    | 100 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |    |    |    | 96  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |    |    |    | 92  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |    |    |    | 89  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |    |    |    | 85  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |    |    |    | 82  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |    |    |    | 79  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |    |    |    | 77  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |    |    |    | 74  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |    |    |    | 72  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |    |    |    | 69  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 237996 | 237996 | 237996 |
| 5°  | 231160 | 230892 | 231176 |
| 10° | 200218 | 198811 | 200171 |
| 15° | 130633 | 129936 | 129278 |
| 20° | 64961  | 67397  | 64871  |
| 25° | 32718  | 36899  | 32051  |
| 30° | 13099  | 14274  | 11410  |
| 35° | 6074   | 5821   | 4878   |
| 40° | 2618   | 2918   | 2478   |
| 45° | 1851   | 2295   | 1862   |
| 50° | 631    | 1667   | 679    |
| 55° | 374    | 694    | 387    |
| 60° | 260    | 306    | 260    |
| 65° | 163    | 163    | 163    |
| 70° | 112    | 67     | 112    |
| 75° | 0      | 59     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2295 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 273.4  | 28.3      |
| 10°-20°   | 440.3  | 45.5      |
| 20°-30°   | 190.3  | 19.7      |
| 30°-40°   | 43.4   | 4.5       |
| 40°-50°   | 14.9   | 1.5       |
| 50°-60°   | 3.6    | 0.4       |
| 60°-70°   | 0.9    | 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°    | 904.0  | 93.5      |
| 0°-40°    | 947.4  | 98.0      |
| 0°-60°    | 965.9  | 99.9      |
| 0°-90°    | 967.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 967.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3109 | 3109  | 3109 | 3109  | 3109 |      |
| 5°  | 3008 | 3006  | 3005 | 3011  | 3009 | 274  |
| 15° | 1648 | 1629  | 1640 | 1634  | 1631 | 441  |
| 25° | 387  | 402   | 437  | 392   | 380  | 185  |
| 35° | 65   | 66    | 62   | 62    | 52   | 44   |
| 45° | 17   | 21    | 21   | 21    | 17   | 12   |
| 55° | 3    | 3     | 5    | 3     | 3    | 3    |
| 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°    | 3109.3 | 3109.3 | 3109.3 | 3109.3 | 3109.3 |
| 2.5°  | 3088.7 | 3086.5 | 3087.7 | 3089.3 | 3089.9 |
| 5°    | 3008.5 | 3005.6 | 3005.0 | 3011.3 | 3008.7 |
| 7.5°  | 2846.9 | 2842.8 | 2836.5 | 2850.7 | 2864.0 |
| 10°   | 2576.0 | 2571.5 | 2557.9 | 2564.6 | 2575.4 |
| 12.5° | 2176.2 | 2161.5 | 2161.1 | 2182.5 | 2179.6 |
| 15°   | 1648.5 | 1628.7 | 1639.7 | 1634.3 | 1631.4 |
| 17.5° | 1108.6 | 1100.9 | 1115.6 | 1111.2 | 1092.1 |
| 20°   | 797.5  | 799.4  | 827.4  | 813.4  | 796.4  |
| 22.5° | 581.9  | 589.1  | 622.2  | 586.0  | 572.8  |
| 25°   | 387.4  | 402.1  | 436.9  | 391.8  | 379.5  |
| 27.5° | 238.3  | 245.0  | 280.3  | 235.3  | 228.6  |
| 30°   | 148.2  | 144.8  | 161.5  | 138.6  | 129.1  |
| 32.5° | 97.2   | 93.0   | 98.3   | 88.2   | 80.6   |
| 35°   | 65.0   | 66.4   | 62.3   | 61.8   | 52.2   |
| 37.5° | 40.6   | 46.7   | 41.2   | 43.9   | 33.6   |
| 40°   | 26.2   | 33.9   | 29.2   | 32.2   | 24.8   |
| 42.5° | 21.5   | 26.1   | 23.9   | 25.5   | 22.0   |
| 45°   | 17.1   | 21.2   | 21.2   | 21.2   | 17.2   |
| 47.5° | 9.5    | 14.2   | 18.2   | 14.5   | 10.1   |
| 50°   | 5.3    | 7.2    | 14.0   | 7.5    | 5.7    |
| 52.5° | 3.7    | 4.1    | 9.6    | 4.3    | 3.8    |
| 55°   | 2.8    | 2.9    | 5.2    | 3.0    | 2.9    |
| 57.5° | 2.1    | 2.3    | 2.8    | 2.3    | 2.1    |
| 60°   | 1.7    | 1.7    | 2.0    | 1.8    | 1.7    |
| 62.5° | 1.2    | 1.2    | 1.4    | 1.2    | 1.2    |
| 65°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 67.5° | 0.5    | 0.6    | 0.6    | 0.6    | 0.6    |
| 70°   | 0.5    | 0.3    | 0.3    | 0.3    | 0.5    |
| 72.5° | 0.3    | 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    |

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

Scaled Data Report



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Signify Classified - Internal  
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Scaled Data Report







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

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Scaled Data Report



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