

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: P742143

Luminaire Tested: LD4D10D010-EU4DR300210IC9035-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742143  
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-EU4DR300210IC9035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1016.8 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

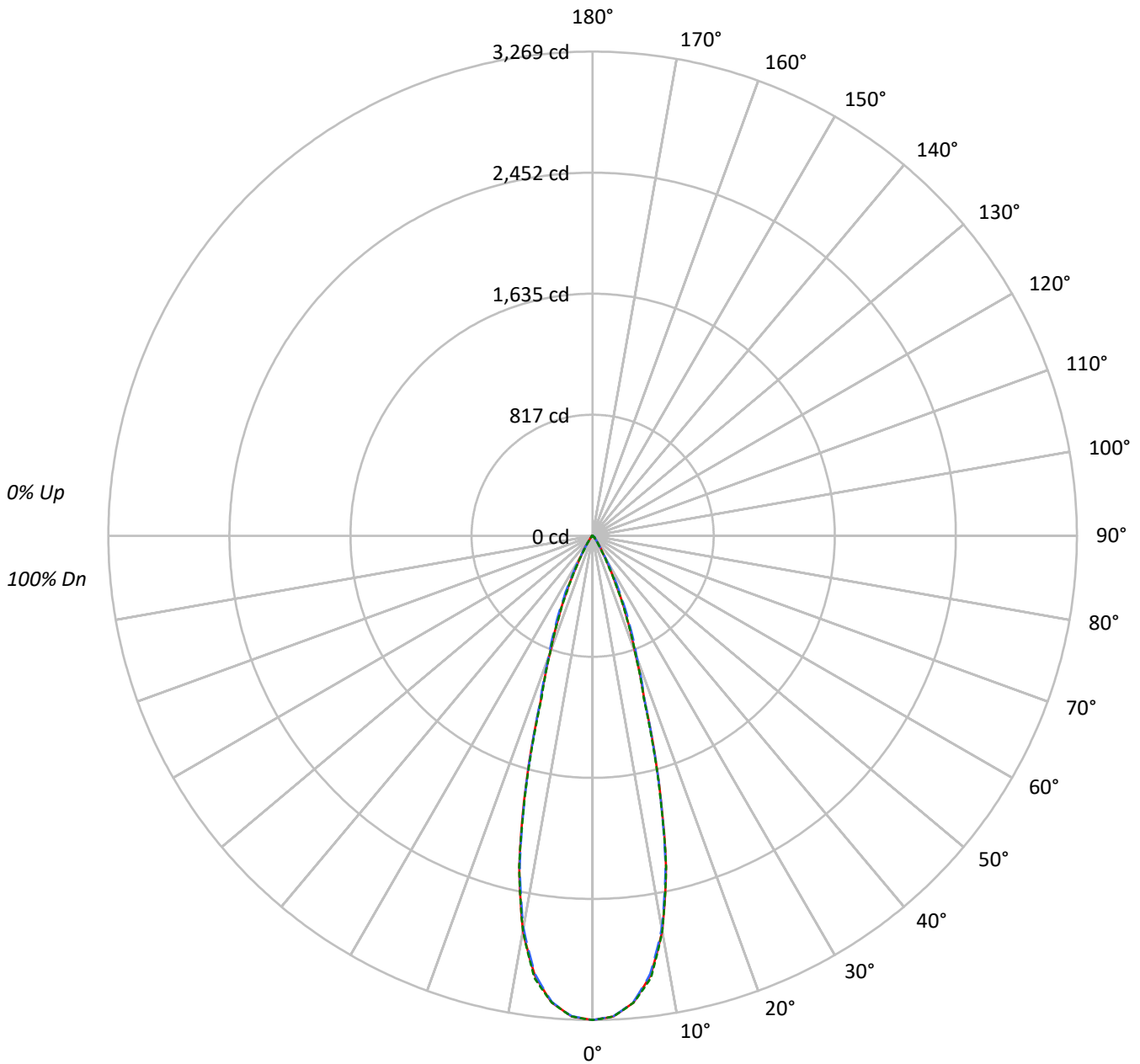


Downlight



TEST NUMBER: P742143  
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### 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 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 250251 | 250251 | 250251 |
| 5°  | 243070 | 242786 | 243078 |
| 10° | 210532 | 209047 | 210485 |
| 15° | 137361 | 136624 | 135942 |
| 20° | 68301  | 70867  | 68211  |
| 25° | 34407  | 38799  | 33707  |
| 30° | 13770  | 15008  | 12003  |
| 35° | 6391   | 6120   | 5130   |
| 40° | 2758   | 3068   | 2598   |
| 45° | 1948   | 2414   | 1970   |
| 50° | 667    | 1762   | 714    |
| 55° | 387    | 721    | 400    |
| 60° | 276    | 321    | 276    |
| 65° | 181    | 181    | 181    |
| 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: 2414 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 287.5  | 28.3      |
| 10°-20°   | 463.0  | 45.5      |
| 20°-30°   | 200.1  | 19.7      |
| 30°-40°   | 45.6   | 4.5       |
| 40°-50°   | 15.7   | 1.5       |
| 50°-60°   | 3.8    | 0.4       |
| 60°-70°   | 1.0    | 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°    | 950.6  | 93.5      |
| 0°-40°    | 996.2  | 98.0      |
| 0°-60°    | 1015.7 | 99.9      |
| 0°-90°    | 1016.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1016.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3269 | 3269  | 3269 | 3269  | 3269 |      |
| 5°  | 3164 | 3160  | 3160 | 3166  | 3164 | 288  |
| 15° | 1733 | 1712  | 1724 | 1718  | 1716 | 464  |
| 25° | 407  | 423   | 459  | 412   | 399  | 195  |
| 35° | 68   | 70    | 66   | 65    | 55   | 46   |
| 45° | 18   | 22    | 22   | 22    | 18   | 13   |
| 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°    | 3269.4 | 3269.4 | 3269.4 | 3269.4 | 3269.4 |
| 2.5°  | 3247.8 | 3245.5 | 3246.8 | 3248.4 | 3249.0 |
| 5°    | 3163.5 | 3160.4 | 3159.8 | 3166.4 | 3163.6 |
| 7.5°  | 2993.5 | 2989.1 | 2982.6 | 2997.5 | 3011.5 |
| 10°   | 2708.7 | 2703.9 | 2689.6 | 2696.7 | 2708.1 |
| 12.5° | 2288.3 | 2272.8 | 2272.4 | 2294.9 | 2291.9 |
| 15°   | 1733.4 | 1712.5 | 1724.1 | 1718.5 | 1715.5 |
| 17.5° | 1165.7 | 1157.6 | 1173.1 | 1168.4 | 1148.4 |
| 20°   | 838.5  | 840.6  | 870.0  | 855.2  | 837.4  |
| 22.5° | 611.9  | 619.4  | 654.3  | 616.2  | 602.3  |
| 25°   | 407.4  | 422.8  | 459.4  | 412.1  | 399.1  |
| 27.5° | 250.6  | 257.7  | 294.7  | 247.3  | 240.3  |
| 30°   | 155.8  | 152.3  | 169.8  | 145.8  | 135.8  |
| 32.5° | 102.3  | 97.7   | 103.4  | 92.8   | 84.7   |
| 35°   | 68.4   | 69.8   | 65.5   | 65.0   | 54.9   |
| 37.5° | 42.7   | 49.1   | 43.3   | 46.2   | 35.3   |
| 40°   | 27.6   | 35.6   | 30.7   | 33.9   | 26.0   |
| 42.5° | 22.6   | 27.4   | 25.2   | 26.8   | 23.1   |
| 45°   | 18.0   | 22.3   | 22.3   | 22.3   | 18.2   |
| 47.5° | 10.0   | 15.0   | 19.1   | 15.2   | 10.6   |
| 50°   | 5.6    | 7.6    | 14.8   | 7.8    | 6.0    |
| 52.5° | 3.8    | 4.4    | 10.1   | 4.5    | 4.0    |
| 55°   | 2.9    | 3.0    | 5.4    | 3.2    | 3.0    |
| 57.5° | 2.2    | 2.4    | 2.9    | 2.4    | 2.2    |
| 60°   | 1.8    | 1.8    | 2.1    | 1.9    | 1.8    |
| 62.5° | 1.3    | 1.3    | 1.4    | 1.3    | 1.3    |
| 65°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report







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

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Scaled Data Report



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Scaled Data Report



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