

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: P761203

Luminaire Tested: LD6D15D010-EU6DR300215IC9030-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D15D010-EU6DR300215IC9030-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1364.6 lumens  
Efficiency: N/A  
Efficacy: 86.4 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



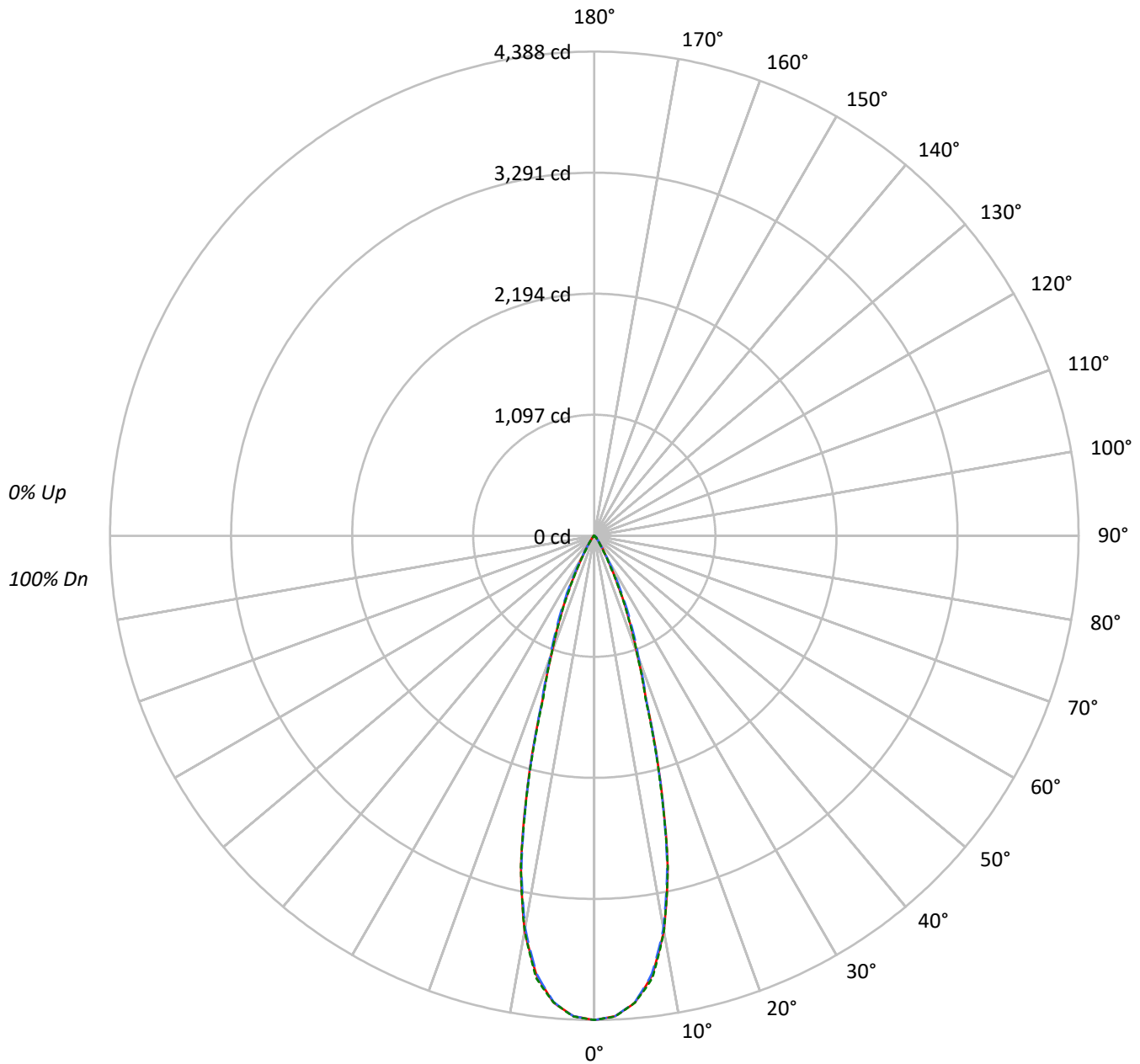
Downlight



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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°  | 335857 | 335857 | 335857 |
| 5°  | 326214 | 325837 | 326237 |
| 10° | 282551 | 280561 | 282489 |
| 15° | 184352 | 183362 | 182442 |
| 20° | 91670  | 95108  | 91548  |
| 25° | 46181  | 52076  | 45226  |
| 30° | 18490  | 20143  | 16113  |
| 35° | 8578   | 8214   | 6887   |
| 40° | 3707   | 4107   | 3487   |
| 45° | 2609   | 3247   | 2641   |
| 50° | 905    | 2358   | 953    |
| 55° | 520    | 974    | 547    |
| 60° | 352    | 429    | 352    |
| 65° | 235    | 235    | 235    |
| 70° | 134    | 112    | 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: 3247 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 385.8  | 28.3      |
| 10°-20°   | 621.4  | 45.5      |
| 20°-30°   | 268.5  | 19.7      |
| 30°-40°   | 61.2   | 4.5       |
| 40°-50°   | 21.0   | 1.5       |
| 50°-60°   | 5.1    | 0.4       |
| 60°-70°   | 1.3    | 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°    | 1275.8 | 93.5      |
| 0°-40°    | 1337.0 | 98.0      |
| 0°-60°    | 1363.1 | 99.9      |
| 0°-90°    | 1364.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1364.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4388 | 4388  | 4388 | 4388  | 4388 |      |
| 5°  | 4246 | 4242  | 4241 | 4250  | 4246 | 386  |
| 15° | 2326 | 2298  | 2314 | 2306  | 2302 | 623  |
| 25° | 547  | 568   | 617  | 553   | 536  | 262  |
| 35° | 92   | 94    | 88   | 87    | 74   | 62   |
| 45° | 24   | 30    | 30   | 30    | 24   | 17   |
| 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°    | 4387.8 | 4387.8 | 4387.8 | 4387.8 | 4387.8 |
| 2.5°  | 4358.7 | 4355.7 | 4357.5 | 4359.6 | 4360.4 |
| 5°    | 4245.6 | 4241.6 | 4240.7 | 4249.5 | 4245.9 |
| 7.5°  | 4017.5 | 4011.7 | 4002.9 | 4022.9 | 4041.7 |
| 10°   | 3635.3 | 3628.9 | 3609.7 | 3619.2 | 3634.5 |
| 12.5° | 3071.1 | 3050.2 | 3049.8 | 3080.0 | 3075.9 |
| 15°   | 2326.4 | 2298.4 | 2313.9 | 2306.4 | 2302.3 |
| 17.5° | 1564.4 | 1553.7 | 1574.4 | 1568.1 | 1541.2 |
| 20°   | 1125.4 | 1128.2 | 1167.6 | 1147.8 | 1123.9 |
| 22.5° | 821.2  | 831.4  | 878.1  | 827.1  | 808.3  |
| 25°   | 546.8  | 567.5  | 616.6  | 553.0  | 535.5  |
| 27.5° | 336.3  | 345.8  | 395.5  | 332.0  | 322.5  |
| 30°   | 209.2  | 204.4  | 227.9  | 195.6  | 182.3  |
| 32.5° | 137.2  | 131.2  | 138.7  | 124.5  | 113.7  |
| 35°   | 91.8   | 93.7   | 87.9   | 87.3   | 73.7   |
| 37.5° | 57.3   | 65.9   | 58.2   | 62.1   | 47.4   |
| 40°   | 37.1   | 47.8   | 41.1   | 45.4   | 34.9   |
| 42.5° | 30.4   | 36.8   | 33.8   | 36.0   | 31.0   |
| 45°   | 24.1   | 30.0   | 30.0   | 30.0   | 24.4   |
| 47.5° | 13.3   | 20.1   | 25.6   | 20.5   | 14.2   |
| 50°   | 7.6    | 10.1   | 19.8   | 10.5   | 8.0    |
| 52.5° | 5.2    | 5.8    | 13.6   | 6.0    | 5.4    |
| 55°   | 3.9    | 4.1    | 7.3    | 4.3    | 4.1    |
| 57.5° | 3.0    | 3.2    | 3.9    | 3.2    | 3.0    |
| 60°   | 2.3    | 2.3    | 2.8    | 2.6    | 2.3    |
| 62.5° | 1.7    | 1.7    | 1.9    | 1.7    | 1.7    |
| 65°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 67.5° | 0.6    | 0.9    | 0.9    | 0.9    | 0.9    |
| 70°   | 0.6    | 0.5    | 0.5    | 0.5    | 0.6    |
| 72.5° | 0.5    | 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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Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

## Scaled Data Report







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







(END OF REPORT)