

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: P760967

Luminaire Tested: LD6D15D010-EU6DR1515309030-6LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P760967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D15D010-EU6DR1515309030-6LBCSSQMW  
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1328.5 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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



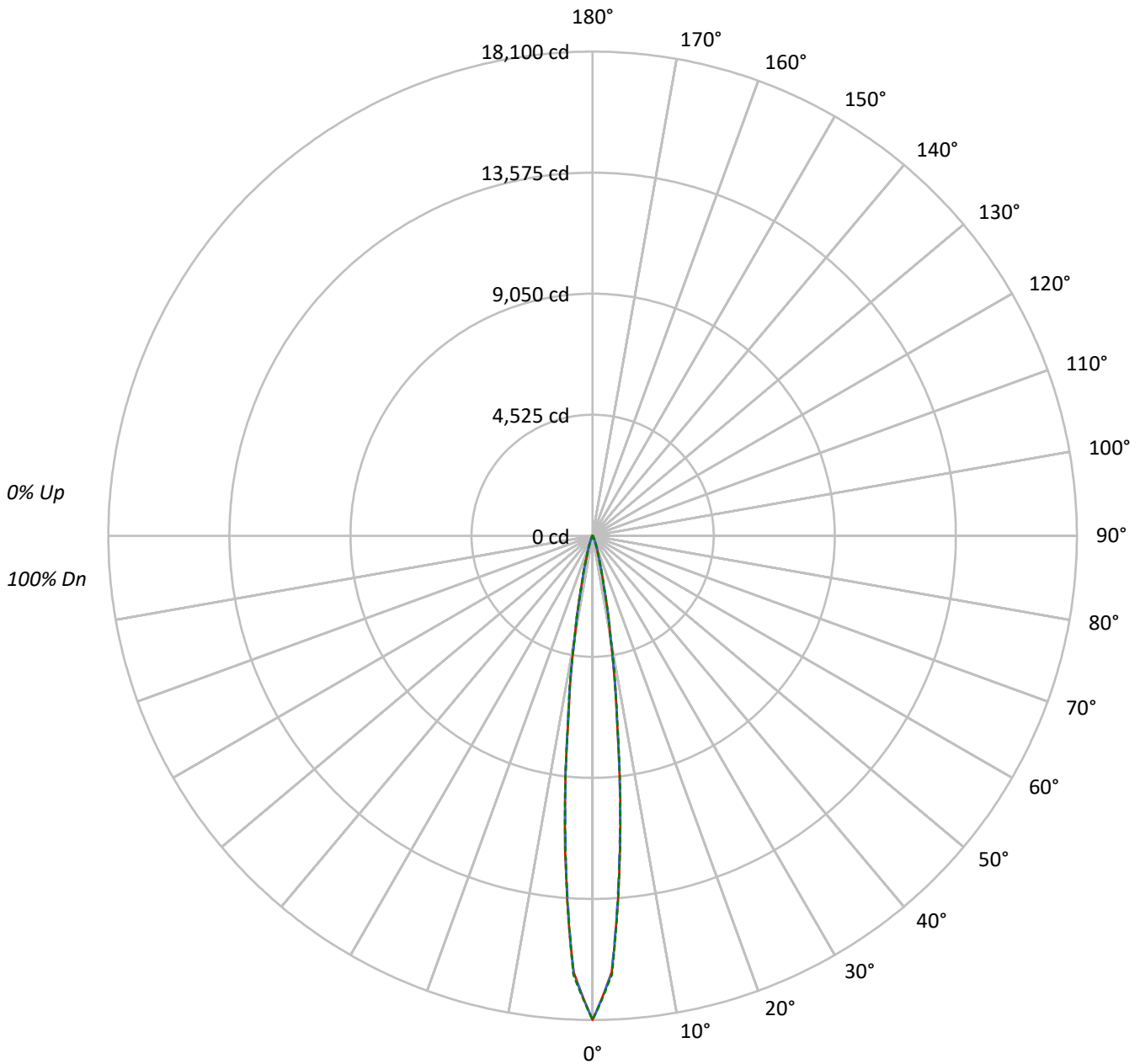
Downlight



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| 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   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98  | 98  | 96  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99  | 100 | 99  | 97  | 98  | 97  | 96  | 94  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  | 100 | 98  | 96  | 99  | 97  | 95  | 97  | 95  | 94  | 93  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 98  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 92  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 104 | 99  | 95  | 93  | 102 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 93  | 92  | 95  | 93  | 91  | 90  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 93  | 91  | 90  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 88  | 87  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 86  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2036600 | 2036600 | 2036600 |
| 5°  | 1196802 | 1181304 | 1190654 |
| 10° | 357191  | 359691  | 365197  |
| 15° | 88846   | 90574   | 87786   |
| 20° | 26584   | 30782   | 27149   |
| 25° | 9371    | 11934   | 9488    |
| 30° | 3445    | 4530    | 3497    |
| 35° | 1728    | 1946    | 1670    |
| 40° | 1087    | 1200    | 1087    |
| 45° | 805     | 861     | 805     |
| 50° | 640     | 640     | 640     |
| 55° | 536     | 536     | 536     |
| 60° | 428     | 428     | 428     |
| 65° | 328     | 328     | 328     |
| 70° | 278     | 278     | 278     |
| 75° | 174     | 174     | 234     |
| 80° | 118     | 118     | 118     |
| 85° | 66      | 66      | 66      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 861 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 861.6  | 64.9      |
| 10°-20°   | 354.4  | 26.7      |
| 20°-30°   | 70.4   | 5.3       |
| 30°-40°   | 17.6   | 1.3       |
| 40°-50°   | 9.2    | 0.7       |
| 50°-60°   | 6.8    | 0.5       |
| 60°-70°   | 4.8    | 0.4       |
| 70°-80°   | 2.8    | 0.2       |
| 80°-90°   | 0.8    | 0.1       |
| 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°    | 1286.4 | 96.8      |
| 0°-40°    | 1304.0 | 98.2      |
| 0°-60°    | 1320.0 | 99.4      |
| 0°-90°    | 1328.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1328.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 18100 | 18100 | 18100 | 18100 | 18100 |      |
| 5°  | 11776 | 11655 | 11624 | 11704 | 11716 | 860  |
| 15° | 1023  | 1042  | 1043  | 1024  | 1011  | 351  |
| 25° | 120   | 136   | 153   | 136   | 122   | 63   |
| 35° | 24    | 25    | 27    | 25    | 23    | 16   |
| 45° | 12    | 12    | 12    | 12    | 12    | 9    |
| 55° | 8     | 8     | 8     | 8     | 8     | 7    |
| 65° | 5     | 5     | 5     | 5     | 5     | 5    |
| 75° | 2     | 2     | 2     | 2     | 3     | 3    |
| 85° | 1     | 1     | 1     | 1     | 1     | 1    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 18099.9 | 18099.9 | 18099.9 | 18099.9 | 18099.9 |
| 2.5°  | 16326.9 | 16340.6 | 16346.0 | 16362.1 | 16421.9 |
| 5°    | 11776.2 | 11655.1 | 11623.7 | 11704.2 | 11715.7 |
| 7.5°  | 6975.8  | 7000.3  | 7089.9  | 7109.9  | 7037.8  |
| 10°   | 3828.1  | 3859.5  | 3854.9  | 3882.5  | 3913.9  |
| 12.5° | 1957.7  | 1933.2  | 1925.5  | 1957.0  | 1913.3  |
| 15°   | 1022.9  | 1042.1  | 1042.8  | 1024.5  | 1010.7  |
| 17.5° | 550.2   | 572.4   | 609.2   | 579.3   | 533.3   |
| 20°   | 324.9   | 344.8   | 376.2   | 351.7   | 331.8   |
| 22.5° | 200.8   | 216.8   | 239.1   | 219.9   | 203.8   |
| 25°   | 120.3   | 136.4   | 153.2   | 135.6   | 121.8   |
| 27.5° | 71.3    | 85.1    | 95.8    | 84.3    | 70.5    |
| 30°   | 46.0    | 53.6    | 60.5    | 52.9    | 46.7    |
| 32.5° | 32.2    | 35.2    | 38.3    | 35.2    | 32.2    |
| 35°   | 23.8    | 25.3    | 26.8    | 25.3    | 23.0    |
| 37.5° | 18.4    | 19.9    | 20.7    | 19.2    | 17.6    |
| 40°   | 15.3    | 16.1    | 16.9    | 16.1    | 15.3    |
| 42.5° | 13.0    | 13.8    | 13.8    | 13.8    | 13.0    |
| 45°   | 11.5    | 11.5    | 12.3    | 11.5    | 11.5    |
| 47.5° | 10.0    | 10.0    | 10.7    | 10.0    | 10.0    |
| 50°   | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     |
| 52.5° | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 55°   | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     |
| 57.5° | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     |
| 60°   | 6.1     | 6.1     | 6.1     | 6.1     | 6.1     |
| 62.5° | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 65°   | 4.6     | 4.6     | 4.6     | 4.6     | 4.6     |
| 67.5° | 4.6     | 4.6     | 4.6     | 4.6     | 4.6     |
| 70°   | 3.8     | 3.8     | 3.8     | 3.8     | 3.8     |
| 72.5° | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     |
| 75°   | 2.3     | 2.3     | 2.3     | 2.3     | 3.1     |
| 77.5° | 2.3     | 2.3     | 2.3     | 2.3     | 2.3     |
| 80°   | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     |
| 82.5° | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     |
| 85°   | 0.8     | 0.8     | 0.8     | 0.8     | 0.8     |
| 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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