

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: P756887

Luminaire Tested: LD6D02D010-EU6DR150210IC9024-6LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756887  
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: LD6D02D010-EU6DR150210IC9024-6LBCSSQMW  
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 300.8 lumens  
Efficiency: N/A  
Efficacy: 59.0 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): 5.1  
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

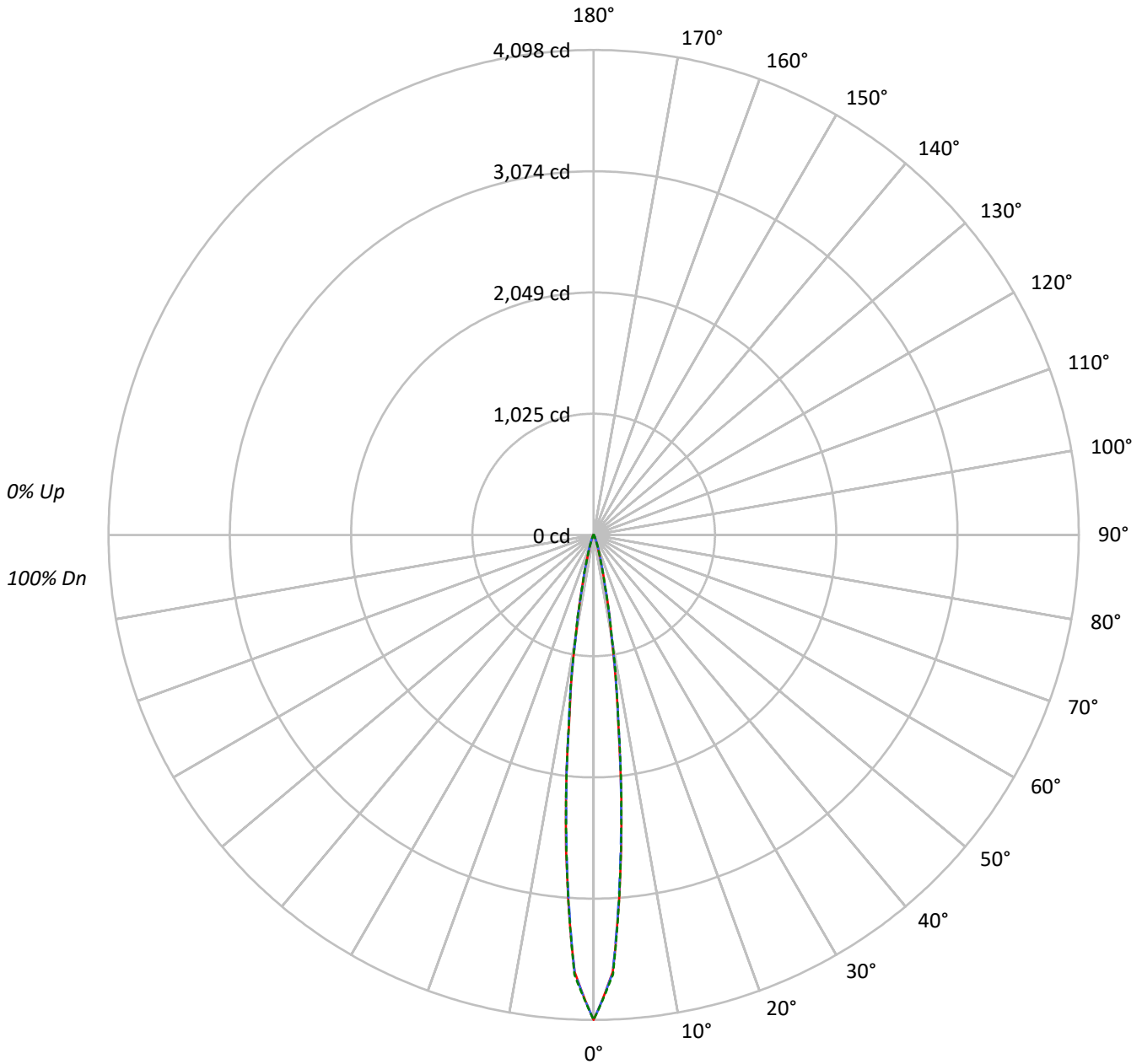


Downlight



TEST NUMBER: P756887  
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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 | 99  | 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  | 99  | 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°  | 461129 | 461129 | 461129 |
| 5°  | 270983 | 267477 | 269591 |
| 10° | 80879  | 81439  | 82689  |
| 15° | 20116  | 20507  | 19873  |
| 20° | 6022   | 6971   | 6145   |
| 25° | 2119   | 2703   | 2150   |
| 30° | 779    | 1026   | 794    |
| 35° | 392    | 443    | 378    |
| 40° | 249    | 270    | 249    |
| 45° | 182    | 196    | 182    |
| 50° | 146    | 146    | 146    |
| 55° | 118    | 118    | 118    |
| 60° | 98     | 98     | 98     |
| 65° | 71     | 71     | 71     |
| 70° | 66     | 66     | 66     |
| 75° | 38     | 38     | 53     |
| 80° | 24     | 24     | 24     |
| 85° | 17     | 17     | 17     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 196 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.1  | 64.9      |
| 10°-20°   | 80.2   | 26.7      |
| 20°-30°   | 15.9   | 5.3       |
| 30°-40°   | 4.0    | 1.3       |
| 40°-50°   | 2.1    | 0.7       |
| 50°-60°   | 1.6    | 0.5       |
| 60°-70°   | 1.1    | 0.4       |
| 70°-80°   | 0.6    | 0.2       |
| 80°-90°   | 0.2    | 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°    | 291.3  | 96.8      |
| 0°-40°    | 295.2  | 98.2      |
| 0°-60°    | 298.9  | 99.4      |
| 0°-90°    | 300.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 300.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4098 | 4098  | 4098 | 4098  | 4098 |      |
| 5°  | 2666 | 2639  | 2632 | 2650  | 2653 | 195  |
| 15° | 232  | 236   | 236  | 232   | 229  | 79   |
| 25° | 27   | 31    | 35   | 31    | 28   | 14   |
| 35° | 5    | 6     | 6    | 6     | 5    | 4    |
| 45° | 3    | 3     | 3    | 3     | 3    | 2    |
| 55° | 2    | 2     | 2    | 2     | 2    | 2    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 0    | 0     | 0    | 0     | 1    | 1    |
| 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°    | 4098.2 | 4098.2 | 4098.2 | 4098.2 | 4098.2 |
| 2.5°  | 3696.8 | 3699.9 | 3701.1 | 3704.7 | 3718.3 |
| 5°    | 2666.4 | 2639.0 | 2631.9 | 2650.1 | 2652.7 |
| 7.5°  | 1579.5 | 1585.0 | 1605.3 | 1609.8 | 1593.5 |
| 10°   | 866.8  | 873.9  | 872.8  | 879.1  | 886.2  |
| 12.5° | 443.3  | 437.7  | 436.0  | 443.1  | 433.2  |
| 15°   | 231.6  | 235.9  | 236.1  | 232.0  | 228.8  |
| 17.5° | 124.6  | 129.6  | 137.9  | 131.2  | 120.7  |
| 20°   | 73.6   | 78.1   | 85.2   | 79.6   | 75.1   |
| 22.5° | 45.5   | 49.1   | 54.1   | 49.8   | 46.1   |
| 25°   | 27.2   | 30.9   | 34.7   | 30.7   | 27.6   |
| 27.5° | 16.1   | 19.3   | 21.7   | 19.1   | 16.0   |
| 30°   | 10.4   | 12.1   | 13.7   | 12.0   | 10.6   |
| 32.5° | 7.3    | 8.0    | 8.7    | 8.0    | 7.3    |
| 35°   | 5.4    | 5.7    | 6.1    | 5.7    | 5.2    |
| 37.5° | 4.2    | 4.5    | 4.7    | 4.3    | 4.0    |
| 40°   | 3.5    | 3.6    | 3.8    | 3.6    | 3.5    |
| 42.5° | 2.9    | 3.1    | 3.1    | 3.1    | 2.9    |
| 45°   | 2.6    | 2.6    | 2.8    | 2.6    | 2.6    |
| 47.5° | 2.3    | 2.3    | 2.4    | 2.3    | 2.3    |
| 50°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 52.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 55°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 57.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 60°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 62.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 65°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 67.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 70°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.7    |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 80°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 82.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 85°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 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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Scaled Data Report







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

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Scaled Data Report



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