

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: P760173

Luminaire Tested: LD6D10D010-EU6DR300210IC9024-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P760173  
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: LD6D10D010-EU6DR300210IC9024-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 744.4 lumens  
Efficiency: N/A  
Efficacy: 63.6 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



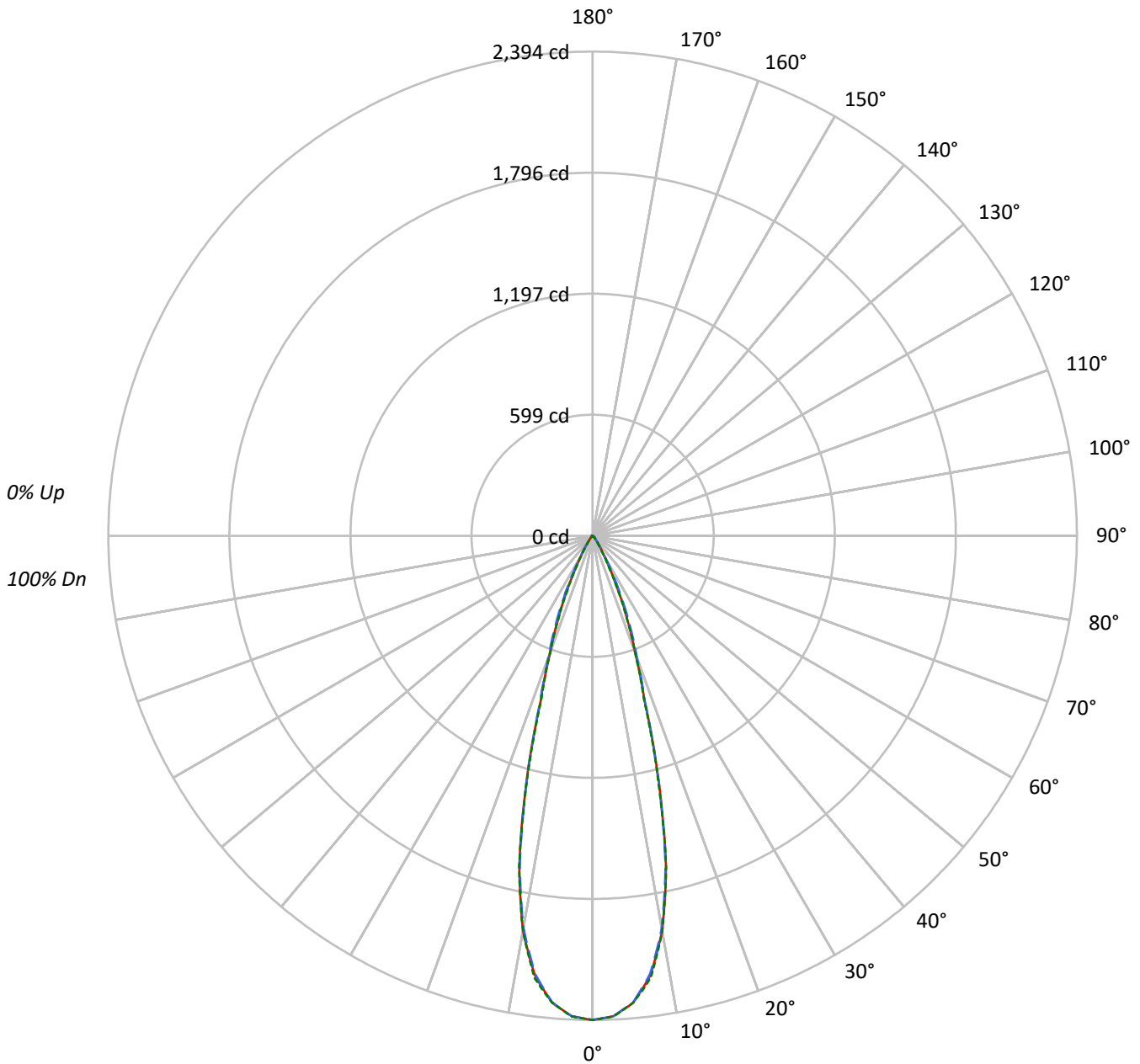
Downlight



TEST NUMBER: P760173

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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  |     |     |     |     | 70  |     |     |     |     | 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 |    |    |    |    |    |   |  |   |
| 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  | 87  | 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°  | 183230 | 183230 | 183230 |
| 5°  | 177967 | 177760 | 177975 |
| 10° | 154150 | 153062 | 154112 |
| 15° | 100568 | 100029 | 99530  |
| 20° | 50014  | 51887  | 49941  |
| 25° | 25193  | 28411  | 24670  |
| 30° | 10085  | 10986  | 8785   |
| 35° | 4681   | 4485   | 3756   |
| 40° | 2018   | 2248   | 1898   |
| 45° | 1429   | 1764   | 1440   |
| 50° | 488    | 1286   | 524    |
| 55° | 280    | 534    | 294    |
| 60° | 199    | 230    | 199    |
| 65° | 127    | 127    | 127    |
| 70° | 67     | 45     | 67     |
| 75° | 0      | 30     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1764 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 210.5  | 28.3      |
| 10°-20°   | 339.0  | 45.5      |
| 20°-30°   | 146.5  | 19.7      |
| 30°-40°   | 33.4   | 4.5       |
| 40°-50°   | 11.5   | 1.5       |
| 50°-60°   | 2.8    | 0.4       |
| 60°-70°   | 0.7    | 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°    | 696.0  | 93.5      |
| 0°-40°    | 729.4  | 98.0      |
| 0°-60°    | 743.7  | 99.9      |
| 0°-90°    | 744.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 744.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2394 | 2394  | 2394 | 2394  | 2394 |      |
| 5°  | 2316 | 2314  | 2314 | 2318  | 2316 | 211  |
| 15° | 1269 | 1254  | 1262 | 1258  | 1256 | 340  |
| 25° | 298  | 310   | 336  | 302   | 292  | 143  |
| 35° | 50   | 51    | 48   | 48    | 40   | 34   |
| 45° | 13   | 16    | 16   | 16    | 13   | 9    |
| 55° | 2    | 2     | 4    | 2     | 2    | 2    |
| 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°    | 2393.8 | 2393.8 | 2393.8 | 2393.8 | 2393.8 |
| 2.5°  | 2377.9 | 2376.3 | 2377.2 | 2378.4 | 2378.8 |
| 5°    | 2316.2 | 2314.0 | 2313.5 | 2318.3 | 2316.3 |
| 7.5°  | 2191.8 | 2188.6 | 2183.7 | 2194.7 | 2204.9 |
| 10°   | 1983.3 | 1979.7 | 1969.3 | 1974.4 | 1982.8 |
| 12.5° | 1675.4 | 1664.1 | 1663.8 | 1680.3 | 1678.1 |
| 15°   | 1269.1 | 1253.9 | 1262.3 | 1258.3 | 1256.0 |
| 17.5° | 853.5  | 847.6  | 858.9  | 855.5  | 840.8  |
| 20°   | 614.0  | 615.5  | 637.0  | 626.2  | 613.1  |
| 22.5° | 448.0  | 453.5  | 479.0  | 451.2  | 440.9  |
| 25°   | 298.3  | 309.6  | 336.4  | 301.7  | 292.1  |
| 27.5° | 183.5  | 188.6  | 215.8  | 181.1  | 176.0  |
| 30°   | 114.1  | 111.6  | 124.3  | 106.7  | 99.4   |
| 32.5° | 74.9   | 71.6   | 75.7   | 68.0   | 62.1   |
| 35°   | 50.1   | 51.1   | 48.0   | 47.6   | 40.2   |
| 37.5° | 31.3   | 36.0   | 31.7   | 33.9   | 25.8   |
| 40°   | 20.2   | 26.1   | 22.5   | 24.8   | 19.0   |
| 42.5° | 16.6   | 20.1   | 18.4   | 19.7   | 16.9   |
| 45°   | 13.2   | 16.3   | 16.3   | 16.3   | 13.3   |
| 47.5° | 7.3    | 10.9   | 14.0   | 11.2   | 7.7    |
| 50°   | 4.1    | 5.5    | 10.8   | 5.8    | 4.4    |
| 52.5° | 2.8    | 3.2    | 7.4    | 3.3    | 2.9    |
| 55°   | 2.1    | 2.2    | 4.0    | 2.3    | 2.2    |
| 57.5° | 1.7    | 1.8    | 2.1    | 1.8    | 1.7    |
| 60°   | 1.3    | 1.3    | 1.5    | 1.4    | 1.3    |
| 62.5° | 0.9    | 0.9    | 1.0    | 0.9    | 0.9    |
| 65°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 67.5° | 0.3    | 0.5    | 0.5    | 0.5    | 0.5    |
| 70°   | 0.3    | 0.2    | 0.2    | 0.2    | 0.3    |
| 72.5° | 0.2    | 0.1    | 0.1    | 0.1    | 0.1    |
| 75°   | 0.0    | 0.0    | 0.1    | 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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Scaled Data Report







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

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