

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: P763802

Luminaire Tested: LD6D30D010-EU6DR1515309024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763802  
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: LD6D30D010-EU6DR1515309024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2774.3 lumens  
Efficiency: N/A  
Efficacy: 95.7 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): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



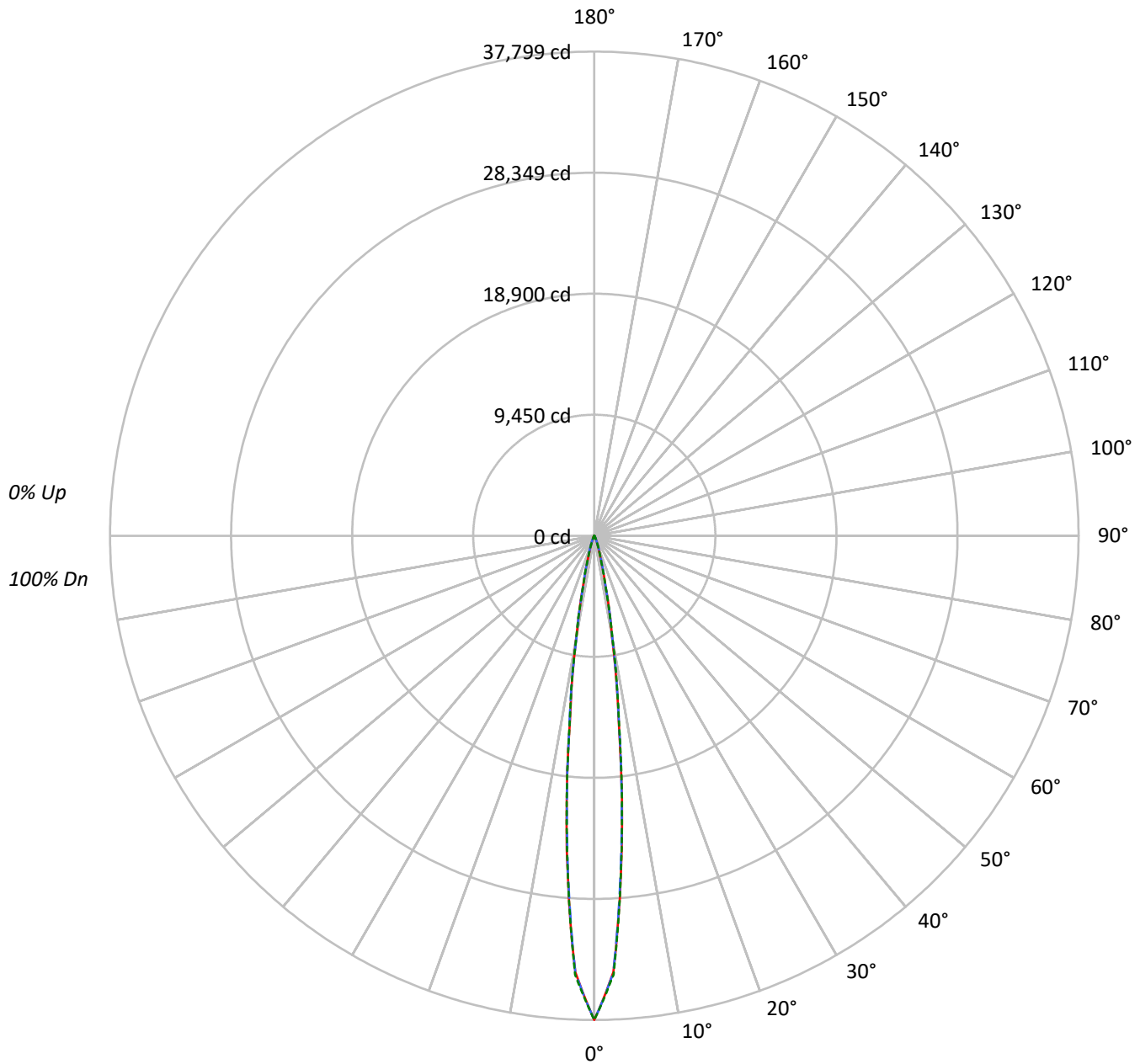
Downlight



TEST NUMBER: P763802

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 103 | 103 |  | 101 |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 |  | 102 | 101 | 100 |  | 100 |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99  |  | 100 | 99  | 97  |  | 98  |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  | 100 | 98  | 96  |  | 99  | 97  | 95  |  | 97  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 98  | 96  | 94  |  | 97  | 95  | 93  |  | 96  |
| 6   | 104 | 99  | 95  | 93  | 102 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 93  | 92  |  | 95  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 93  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  |
| 9   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 89  | 87  |  | 91  | 88  | 87  |  | 90  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 4253153 | 4253153 | 4253153 |
| 5°  | 2499349 | 2466991 | 2486504 |
| 10° | 745938  | 751163  | 762659  |
| 15° | 185544  | 189157  | 183320  |
| 20° | 55517   | 64288   | 56695   |
| 25° | 19569   | 24928   | 19818   |
| 30° | 7189    | 9465    | 7308    |
| 35° | 3602    | 4067    | 3486    |
| 40° | 2272    | 2500    | 2272    |
| 45° | 1680    | 1792    | 1680    |
| 50° | 1335    | 1335    | 1335    |
| 55° | 1114    | 1114    | 1114    |
| 60° | 899     | 899     | 899     |
| 65° | 685     | 685     | 685     |
| 70° | 585     | 585     | 585     |
| 75° | 363     | 363     | 484     |
| 80° | 252     | 252     | 252     |
| 85° | 133     | 133     | 133     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1792 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1799.3 | 64.9      |
| 10°-20°   | 740.1  | 26.7      |
| 20°-30°   | 147.0  | 5.3       |
| 30°-40°   | 36.7   | 1.3       |
| 40°-50°   | 19.3   | 0.7       |
| 50°-60°   | 14.3   | 0.5       |
| 60°-70°   | 10.1   | 0.4       |
| 70°-80°   | 5.7    | 0.2       |
| 80°-90°   | 1.7    | 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°    | 2686.4 | 96.8      |
| 0°-40°    | 2723.1 | 98.2      |
| 0°-60°    | 2756.7 | 99.4      |
| 0°-90°    | 2774.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2774.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 37799 | 37799 | 37799 | 37799 | 37799 |      |
| 5°  | 24593 | 24340 | 24274 | 24442 | 24466 | 1796 |
| 15° | 2136  | 2176  | 2178  | 2139  | 2111  | 732  |
| 25° | 251   | 285   | 320   | 283   | 254   | 132  |
| 35° | 50    | 53    | 56    | 53    | 48    | 34   |
| 45° | 24    | 24    | 26    | 24    | 24    | 19   |
| 55° | 16    | 16    | 16    | 16    | 16    | 14   |
| 65° | 10    | 10    | 10    | 10    | 10    | 10   |
| 75° | 5     | 5     | 5     | 5     | 6     | 6    |
| 85° | 2     | 2     | 2     | 2     | 2     | 2    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

TEST NUMBER: P763802

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 37799.1 | 37799.1 | 37799.1 | 37799.1 | 37799.1 |
| 2.5°  | 34096.3 | 34125.1 | 34136.3 | 34169.9 | 34294.7 |
| 5°    | 24592.9 | 24340.1 | 24274.5 | 24442.5 | 24466.5 |
| 7.5°  | 14567.9 | 14619.1 | 14806.3 | 14847.9 | 14697.5 |
| 10°   | 7994.4  | 8060.0  | 8050.4  | 8108.0  | 8173.6  |
| 12.5° | 4088.4  | 4037.2  | 4021.2  | 4086.8  | 3995.6  |
| 15°   | 2136.2  | 2176.2  | 2177.8  | 2139.4  | 2110.6  |
| 17.5° | 1148.9  | 1195.3  | 1272.1  | 1209.7  | 1113.7  |
| 20°   | 678.5   | 720.1   | 785.7   | 734.5   | 692.9   |
| 22.5° | 419.2   | 452.8   | 499.3   | 459.2   | 425.6   |
| 25°   | 251.2   | 284.8   | 320.0   | 283.2   | 254.4   |
| 27.5° | 148.8   | 177.6   | 200.0   | 176.0   | 147.2   |
| 30°   | 96.0    | 112.0   | 126.4   | 110.4   | 97.6    |
| 32.5° | 67.2    | 73.6    | 80.0    | 73.6    | 67.2    |
| 35°   | 49.6    | 52.8    | 56.0    | 52.8    | 48.0    |
| 37.5° | 38.4    | 41.6    | 43.2    | 40.0    | 36.8    |
| 40°   | 32.0    | 33.6    | 35.2    | 33.6    | 32.0    |
| 42.5° | 27.2    | 28.8    | 28.8    | 28.8    | 27.2    |
| 45°   | 24.0    | 24.0    | 25.6    | 24.0    | 24.0    |
| 47.5° | 20.8    | 20.8    | 22.4    | 20.8    | 20.8    |
| 50°   | 19.2    | 19.2    | 19.2    | 19.2    | 19.2    |
| 52.5° | 17.6    | 17.6    | 17.6    | 17.6    | 17.6    |
| 55°   | 16.0    | 16.0    | 16.0    | 16.0    | 16.0    |
| 57.5° | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    |
| 60°   | 12.8    | 12.8    | 12.8    | 12.8    | 12.8    |
| 62.5° | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    |
| 65°   | 9.6     | 9.6     | 9.6     | 9.6     | 9.6     |
| 67.5° | 9.6     | 9.6     | 9.6     | 9.6     | 9.6     |
| 70°   | 8.0     | 8.0     | 8.0     | 8.0     | 8.0     |
| 72.5° | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     |
| 75°   | 4.8     | 4.8     | 4.8     | 4.8     | 6.4     |
| 77.5° | 4.8     | 4.8     | 4.8     | 4.8     | 4.8     |
| 80°   | 3.2     | 3.2     | 3.2     | 3.2     | 3.2     |
| 82.5° | 3.2     | 3.2     | 3.2     | 3.2     | 3.2     |
| 85°   | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     |
| 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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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)