

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: P761174

Luminaire Tested: LD6D15D010-EU6DR300215IC9024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761174  
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-EU6DR300215IC9024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1174.3 lumens  
Efficiency: N/A  
Efficacy: 74.3 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 (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



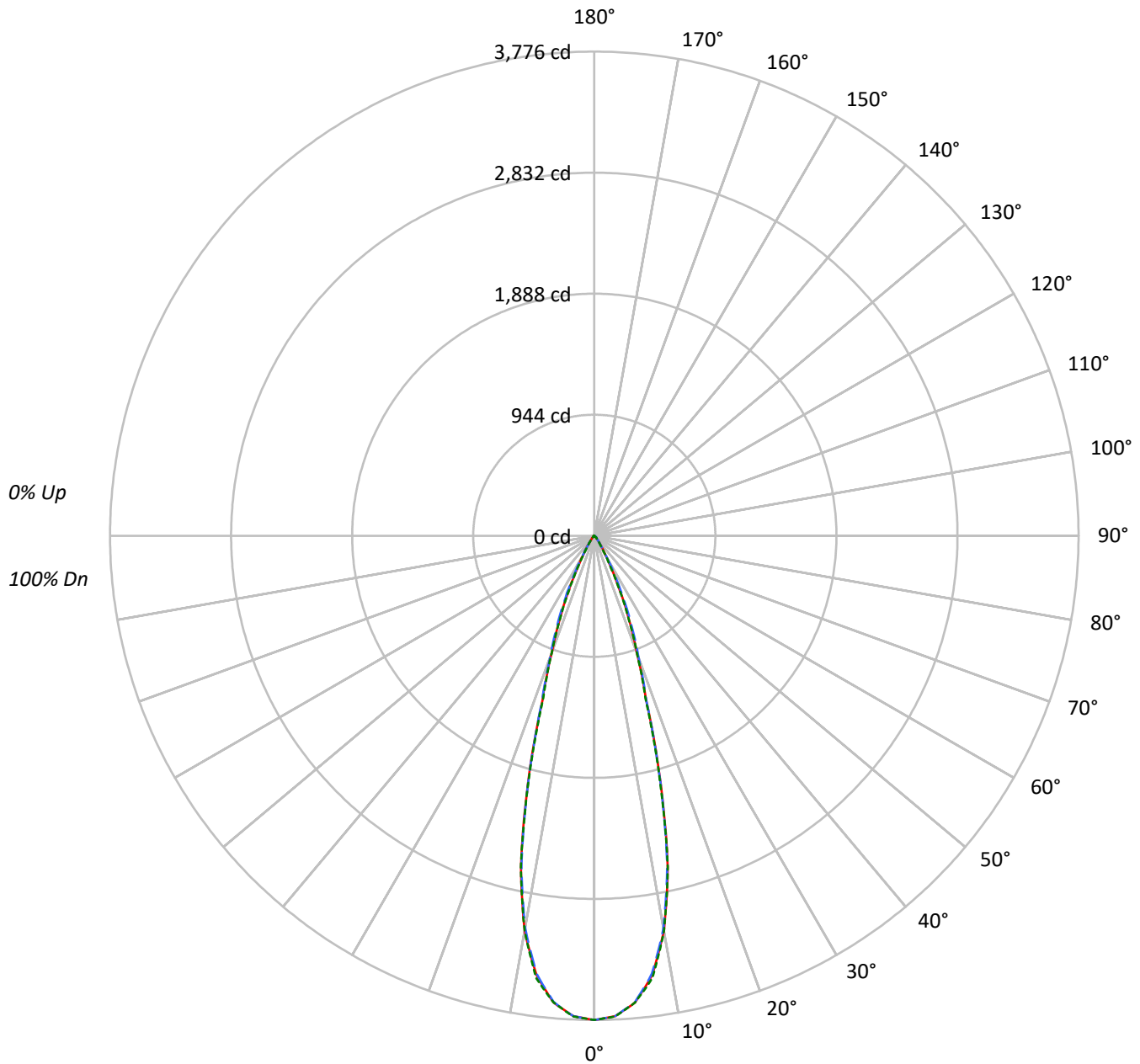
Downlight



TEST NUMBER: P761174

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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°  | 289020 | 289020 | 289020 |
| 5°  | 280720 | 280389 | 280735 |
| 10° | 243145 | 241435 | 243090 |
| 15° | 158638 | 157790 | 156989 |
| 20° | 78890  | 81847  | 78776  |
| 25° | 39737  | 44813  | 38926  |
| 30° | 15909  | 17332  | 13859  |
| 35° | 7382   | 7064   | 5924   |
| 40° | 3187   | 3537   | 2998   |
| 45° | 2241   | 2793   | 2273   |
| 50° | 774    | 2036   | 822    |
| 55° | 440    | 841    | 467    |
| 60° | 321    | 367    | 321    |
| 65° | 199    | 199    | 199    |
| 70° | 134    | 67     | 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: 2793 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 332.0  | 28.3      |
| 10°-20°   | 534.7  | 45.5      |
| 20°-30°   | 231.1  | 19.7      |
| 30°-40°   | 52.7   | 4.5       |
| 40°-50°   | 18.1   | 1.5       |
| 50°-60°   | 4.4    | 0.4       |
| 60°-70°   | 1.1    | 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°    | 1097.8 | 93.5      |
| 0°-40°    | 1150.5 | 98.0      |
| 0°-60°    | 1173.0 | 99.9      |
| 0°-90°    | 1174.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1174.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3776 | 3776  | 3776 | 3776  | 3776 |      |
| 5°  | 3654 | 3650  | 3649 | 3657  | 3654 | 332  |
| 15° | 2002 | 1978  | 1991 | 1985  | 1981 | 536  |
| 25° | 470  | 488   | 531  | 476   | 461  | 225  |
| 35° | 79   | 81    | 76   | 75    | 63   | 54   |
| 45° | 21   | 26    | 26   | 26    | 21   | 15   |
| 55° | 3    | 4     | 6    | 4     | 4    | 3    |
| 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°    | 3775.9 | 3775.9 | 3775.9 | 3775.9 | 3775.9 |
| 2.5°  | 3750.8 | 3748.2 | 3749.7 | 3751.6 | 3752.3 |
| 5°    | 3653.5 | 3650.0 | 3649.2 | 3656.8 | 3653.7 |
| 7.5°  | 3457.2 | 3452.1 | 3444.6 | 3461.8 | 3477.9 |
| 10°   | 3128.3 | 3122.8 | 3106.3 | 3114.4 | 3127.6 |
| 12.5° | 2642.8 | 2624.8 | 2624.5 | 2650.4 | 2646.9 |
| 15°   | 2001.9 | 1977.8 | 1991.2 | 1984.7 | 1981.1 |
| 17.5° | 1346.3 | 1337.0 | 1354.7 | 1349.4 | 1326.2 |
| 20°   | 968.5  | 970.9  | 1004.8 | 987.7  | 967.1  |
| 22.5° | 706.7  | 715.4  | 755.6  | 711.7  | 695.6  |
| 25°   | 470.5  | 488.3  | 530.6  | 475.9  | 460.9  |
| 27.5° | 289.4  | 297.5  | 340.3  | 285.7  | 277.5  |
| 30°   | 180.0  | 176.0  | 196.1  | 168.3  | 156.8  |
| 32.5° | 118.1  | 112.9  | 119.4  | 107.1  | 97.9   |
| 35°   | 79.0   | 80.6   | 75.6   | 75.1   | 63.4   |
| 37.5° | 49.3   | 56.7   | 50.1   | 53.4   | 40.8   |
| 40°   | 31.9   | 41.1   | 35.4   | 39.1   | 30.0   |
| 42.5° | 26.1   | 31.7   | 29.1   | 30.9   | 26.7   |
| 45°   | 20.7   | 25.8   | 25.8   | 25.8   | 21.0   |
| 47.5° | 11.5   | 17.2   | 22.1   | 17.6   | 12.3   |
| 50°   | 6.5    | 8.7    | 17.1   | 9.1    | 6.9    |
| 52.5° | 4.5    | 5.0    | 11.7   | 5.2    | 4.6    |
| 55°   | 3.3    | 3.5    | 6.3    | 3.7    | 3.5    |
| 57.5° | 2.6    | 2.8    | 3.3    | 2.8    | 2.6    |
| 60°   | 2.1    | 2.1    | 2.4    | 2.2    | 2.1    |
| 62.5° | 1.5    | 1.5    | 1.7    | 1.5    | 1.5    |
| 65°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 67.5° | 0.6    | 0.7    | 0.7    | 0.7    | 0.7    |
| 70°   | 0.6    | 0.3    | 0.3    | 0.3    | 0.6    |
| 72.5° | 0.3    | 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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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)