

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: P761187

Luminaire Tested: LD6D15D010-EU6DR300215IC9027-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761187  
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-EU6DR300215IC9027-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1303.5 lumens  
Efficiency: N/A  
Efficacy: 82.5 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



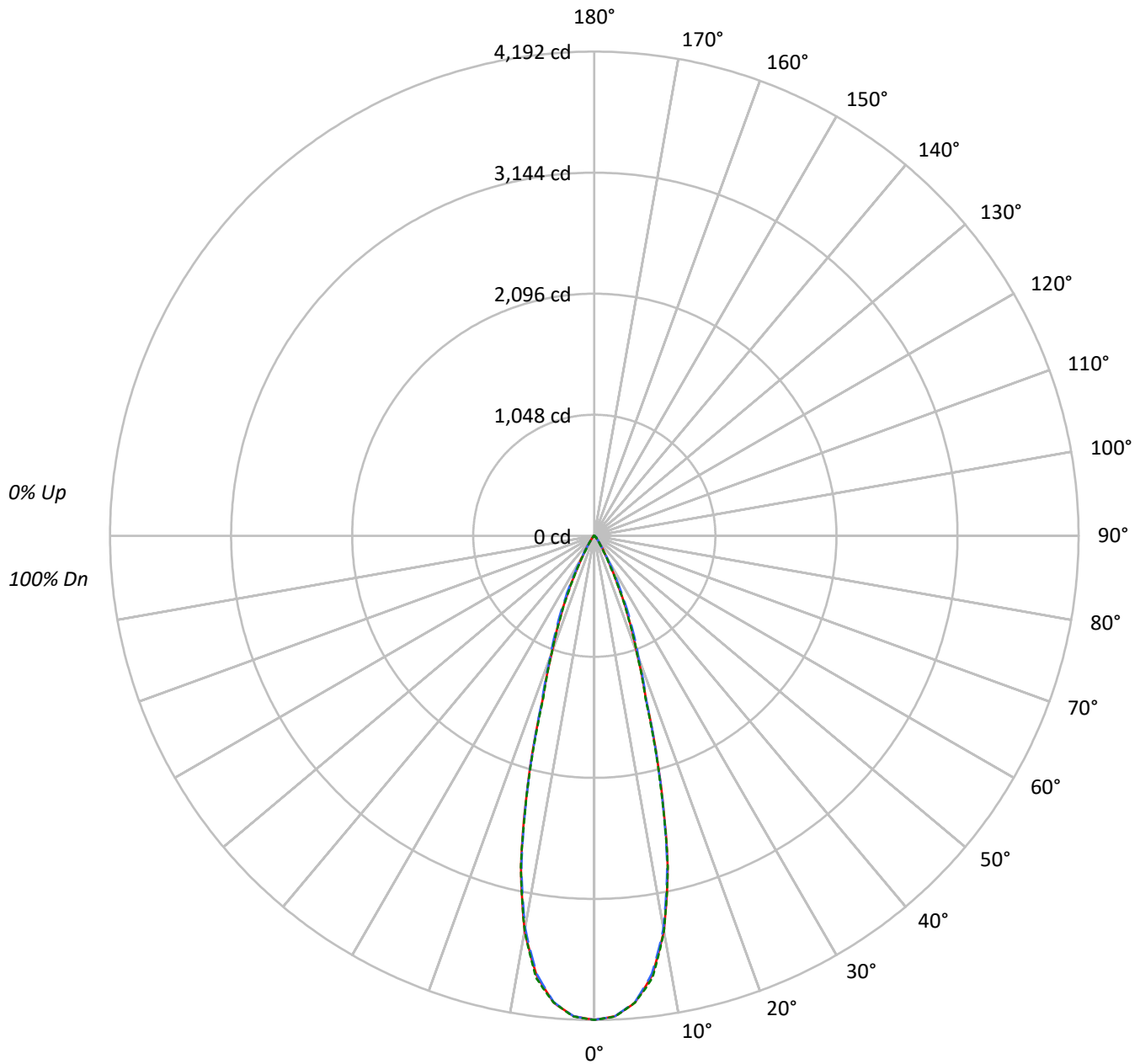
Downlight



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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  | 50  | 30 | 10 |
| 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  | 86  | 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°  | 320832 | 320832 | 320832 |
| 5°  | 311615 | 311254 | 311638 |
| 10° | 269913 | 268009 | 269851 |
| 15° | 176103 | 175160 | 174280 |
| 20° | 87565  | 90856  | 87451  |
| 25° | 44112  | 49736  | 43208  |
| 30° | 17659  | 19241  | 15388  |
| 35° | 8195   | 7840   | 6578   |
| 40° | 3537   | 3927   | 3327   |
| 45° | 2490   | 3096   | 2522   |
| 50° | 857    | 2251   | 905    |
| 55° | 494    | 934    | 520    |
| 60° | 352    | 413    | 352    |
| 65° | 235    | 235    | 235    |
| 70° | 134    | 90     | 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: 3096 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 368.6  | 28.3      |
| 10°-20°   | 593.6  | 45.5      |
| 20°-30°   | 256.5  | 19.7      |
| 30°-40°   | 58.5   | 4.5       |
| 40°-50°   | 20.1   | 1.5       |
| 50°-60°   | 4.9    | 0.4       |
| 60°-70°   | 1.3    | 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°    | 1218.7 | 93.5      |
| 0°-40°    | 1277.1 | 98.0      |
| 0°-60°    | 1302.1 | 99.9      |
| 0°-90°    | 1303.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1303.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4192 | 4192  | 4192 | 4192  | 4192 |      |
| 5°  | 4056 | 4052  | 4051 | 4059  | 4056 | 369  |
| 15° | 2222 | 2196  | 2210 | 2203  | 2199 | 595  |
| 25° | 522  | 542   | 589  | 528   | 512  | 250  |
| 35° | 88   | 90    | 84   | 83    | 70   | 59   |
| 45° | 23   | 29    | 29   | 29    | 23   | 16   |
| 55° | 4    | 4     | 7    | 4     | 4    | 4    |
| 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°    | 4191.5 | 4191.5 | 4191.5 | 4191.5 | 4191.5 |
| 2.5°  | 4163.7 | 4160.8 | 4162.5 | 4164.5 | 4165.4 |
| 5°    | 4055.6 | 4051.7 | 4050.9 | 4059.4 | 4055.9 |
| 7.5°  | 3837.7 | 3832.2 | 3823.8 | 3842.9 | 3860.8 |
| 10°   | 3472.7 | 3466.5 | 3448.2 | 3457.2 | 3471.9 |
| 12.5° | 2933.7 | 2913.7 | 2913.3 | 2942.2 | 2938.2 |
| 15°   | 2222.3 | 2195.5 | 2210.4 | 2203.2 | 2199.3 |
| 17.5° | 1494.4 | 1484.1 | 1503.9 | 1497.9 | 1472.2 |
| 20°   | 1075.0 | 1077.7 | 1115.4 | 1096.5 | 1073.6 |
| 22.5° | 784.5  | 794.1  | 838.8  | 790.0  | 772.1  |
| 25°   | 522.3  | 542.1  | 588.9  | 528.3  | 511.6  |
| 27.5° | 321.3  | 330.3  | 377.8  | 317.1  | 308.1  |
| 30°   | 199.8  | 195.3  | 217.7  | 186.8  | 174.1  |
| 32.5° | 131.1  | 125.3  | 132.5  | 118.9  | 108.6  |
| 35°   | 87.7   | 89.5   | 83.9   | 83.4   | 70.4   |
| 37.5° | 54.7   | 63.0   | 55.6   | 59.2   | 45.3   |
| 40°   | 35.4   | 45.7   | 39.3   | 43.4   | 33.3   |
| 42.5° | 29.0   | 35.2   | 32.3   | 34.4   | 29.6   |
| 45°   | 23.0   | 28.6   | 28.6   | 28.6   | 23.3   |
| 47.5° | 12.8   | 19.1   | 24.5   | 19.5   | 13.6   |
| 50°   | 7.2    | 9.7    | 18.9   | 10.1   | 7.6    |
| 52.5° | 4.9    | 5.6    | 12.9   | 5.8    | 5.2    |
| 55°   | 3.7    | 3.9    | 7.0    | 4.1    | 3.9    |
| 57.5° | 2.9    | 3.1    | 3.7    | 3.1    | 2.9    |
| 60°   | 2.3    | 2.3    | 2.7    | 2.5    | 2.3    |
| 62.5° | 1.7    | 1.7    | 1.8    | 1.7    | 1.7    |
| 65°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 67.5° | 0.6    | 0.8    | 0.8    | 0.8    | 0.8    |
| 70°   | 0.6    | 0.4    | 0.4    | 0.4    | 0.6    |
| 72.5° | 0.4    | 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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Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

## Scaled Data Report





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







(END OF REPORT)