

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: P761787

Luminaire Tested: LD6D15D010-EU6DR700215IC9027-6LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D15D010-EU6DR700215IC9027-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 794.3 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
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



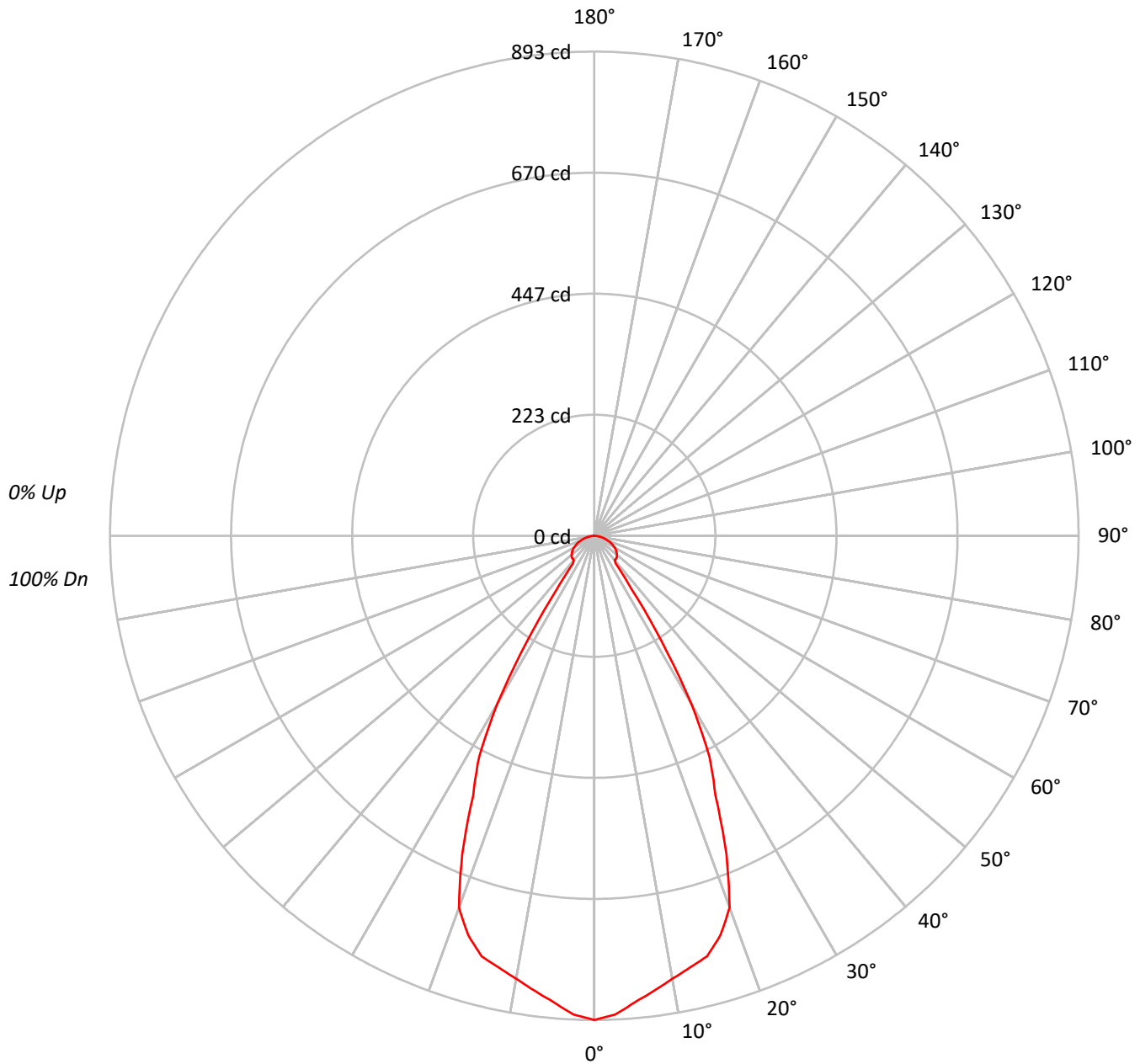
Downlight



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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  |     |     |     | 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 | 100 | 100 |   |  |  |  |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 95  | 94  | 93  | 91  | 91  | 91  |   |  |  |  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  | 83  | 83  |   |  |  |  |
| 3   | 100 | 92  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 78  | 76  | 76  | 76  |   |  |  |  |
| 4   | 94  | 86  | 80  | 75  | 92  | 85  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 70  | 70  | 70  |   |  |  |  |
| 5   | 89  | 80  | 74  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  | 65  | 65  |   |  |  |  |
| 6   | 85  | 75  | 68  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 62  | 61  | 61  | 61  |   |  |  |  |
| 7   | 80  | 70  | 64  | 59  | 79  | 70  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 57  | 57  | 57  |   |  |  |  |
| 8   | 77  | 66  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  | 53  | 53  |   |  |  |  |
| 9   | 73  | 63  | 57  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 60  | 55  | 52  | 50  | 50  | 50  |   |  |  |  |
| 10  | 70  | 59  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 48  | 48  | 48  |   |  |  |  |

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

|     | 0°    |
|-----|-------|
| 0°  | 97581 |
| 5°  | 94685 |
| 10° | 92041 |
| 15° | 90831 |
| 20° | 84821 |
| 25° | 63714 |
| 30° | 45040 |
| 35° | 15953 |
| 40° | 8387  |
| 45° | 8931  |
| 50° | 9247  |
| 55° | 9429  |
| 60° | 9484  |
| 65° | 9281  |
| 70° | 8753  |
| 75° | 8148  |
| 80° | 7236  |
| 85° | 5767  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $60^\circ$

Luminance: 9484 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.4   | 10.3      |
| 10°-20°   | 223.3  | 28.1      |
| 20°-30°   | 246.0  | 31.0      |
| 30°-40°   | 94.0   | 11.8      |
| 40°-50°   | 44.4   | 5.6       |
| 50°-60°   | 44.1   | 5.6       |
| 60°-70°   | 35.3   | 4.4       |
| 70°-80°   | 20.3   | 2.6       |
| 80°-90°   | 5.5    | 0.7       |
| 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°    | 550.7  | 69.3      |
| 0°-40°    | 644.7  | 81.2      |
| 0°-60°    | 733.2  | 92.3      |
| 0°-90°    | 794.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 794.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 893 |      |
| 5°  | 863 | 81   |
| 15° | 803 | 223  |
| 25° | 528 | 246  |
| 35° | 120 | 94   |
| 45° | 58  | 44   |
| 55° | 50  | 44   |
| 65° | 36  | 35   |
| 75° | 19  | 20   |
| 85° | 5   | 6    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 893.1 |
| 2.5°  | 883.7 |
| 5°    | 863.3 |
| 7.5°  | 846.1 |
| 10°   | 829.6 |
| 12.5° | 815.6 |
| 15°   | 803.0 |
| 17.5° | 772.6 |
| 20°   | 729.5 |
| 22.5° | 636.4 |
| 25°   | 528.5 |
| 27.5° | 460.1 |
| 30°   | 357.0 |
| 32.5° | 230.6 |
| 35°   | 119.6 |
| 37.5° | 64.6  |
| 40°   | 58.8  |
| 42.5° | 58.4  |
| 45°   | 57.8  |
| 47.5° | 56.6  |
| 50°   | 54.4  |
| 52.5° | 52.0  |
| 55°   | 49.5  |
| 57.5° | 46.6  |
| 60°   | 43.4  |
| 62.5° | 39.7  |
| 65°   | 35.9  |
| 67.5° | 31.7  |
| 70°   | 27.4  |
| 72.5° | 23.2  |
| 75°   | 19.3  |
| 77.5° | 15.1  |
| 80°   | 11.5  |
| 82.5° | 8.1   |
| 85°   | 4.6   |
| 87.5° | 1.8   |
| 90°   | 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°







(END OF REPORT)