

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: P770311

Luminaire Tested: LD6D70BD010-EU6DR3070959035-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770311  
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: LD6D70BD010-EU6DR3070959035-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6412.8 lumens  
Efficiency: N/A  
Efficacy: 96.3 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): 66.6  
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

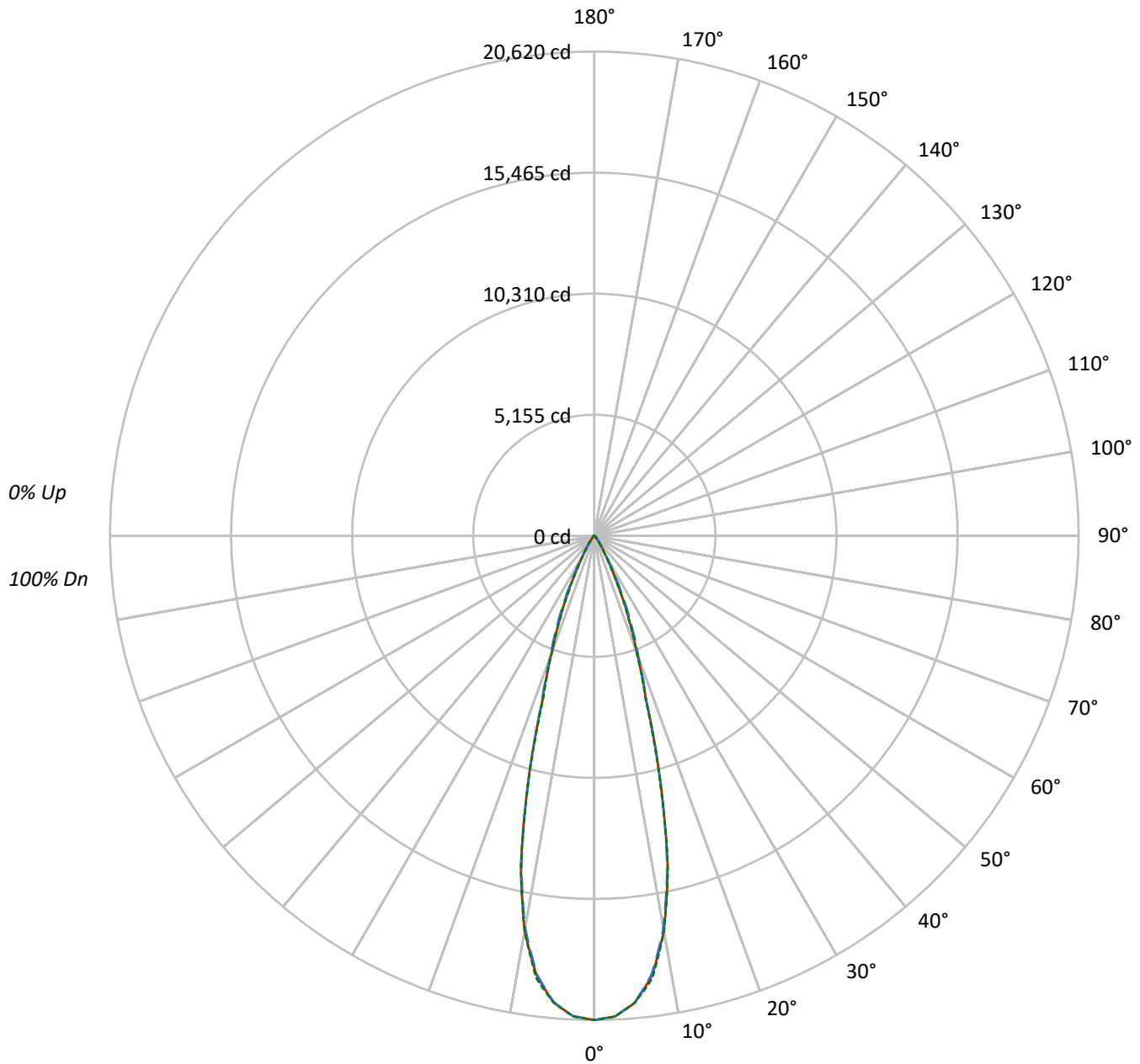


Downlight

TEST NUMBER: P770311

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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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 |  | 103 | 102 | 101 |  | 99  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  |  | 99  | 97  | 96  |  | 97  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  |  | 96  | 93  | 91  |  | 94  |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  |  | 93  | 90  | 88  |  | 91  |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  |  | 90  | 86  | 84  |  | 88  |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  |  | 87  | 83  | 81  |  | 85  |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  |  | 84  | 81  | 78  |  | 83  |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  |  | 81  | 78  | 75  |  | 80  |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  |  | 79  | 75  | 73  |  | 78  |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  |  | 76  | 73  | 71  |  | 76  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1578348 | 1578348 | 1578348 |
| 5°  | 1533035 | 1531245 | 1533112 |
| 10° | 1327840 | 1318482 | 1327529 |
| 15° | 866354  | 861694  | 857368  |
| 20° | 430795  | 446956  | 430217  |
| 25° | 217002  | 244712  | 212560  |
| 30° | 86882   | 94669   | 75701   |
| 35° | 40302   | 38601   | 32350   |
| 40° | 17396   | 19325   | 16387   |
| 45° | 12275   | 15231   | 12384   |
| 50° | 4215    | 11086   | 4466    |
| 55° | 2429    | 4591    | 2562    |
| 60° | 1699    | 2021    | 1699    |
| 65° | 1105    | 1105    | 1105    |
| 70° | 671     | 448     | 671     |
| 75° | 0       | 296     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15231 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1813.2 | 28.3      |
| 10°-20°   | 2920.2 | 45.5      |
| 20°-30°   | 1261.9 | 19.7      |
| 30°-40°   | 287.6  | 4.5       |
| 40°-50°   | 98.8   | 1.5       |
| 50°-60°   | 24.1   | 0.4       |
| 60°-70°   | 6.2    | 0.1       |
| 70°-80°   | 0.7    | 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°    | 5995.4 | 93.5      |
| 0°-40°    | 6283.0 | 98.0      |
| 0°-60°    | 6405.9 | 99.9      |
| 0°-90°    | 6412.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6412.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 20620 | 20620 | 20620 | 20620 | 20620 |      |
| 5°  | 19952 | 19933 | 19929 | 19970 | 19953 | 1815 |
| 15° | 10933 | 10801 | 10874 | 10839 | 10819 | 2927 |
| 25° | 2569  | 2667  | 2898  | 2599  | 2517  | 1230 |
| 35° | 431   | 440   | 413   | 410   | 346   | 293  |
| 45° | 113   | 141   | 141   | 141   | 114   | 80   |
| 55° | 18    | 19    | 34    | 20    | 19    | 18   |
| 65° | 6     | 6     | 6     | 6     | 6     | 6    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 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°    | 20620.3 | 20620.3 | 20620.3 | 20620.3 | 20620.3 |
| 2.5°  | 20483.6 | 20469.5 | 20477.5 | 20487.7 | 20491.7 |
| 5°    | 19952.1 | 19932.9 | 19928.8 | 19970.3 | 19953.1 |
| 7.5°  | 18880.0 | 18852.7 | 18811.2 | 18905.3 | 18993.4 |
| 10°   | 17084.0 | 17053.7 | 16963.6 | 17008.1 | 17080.0 |
| 12.5° | 14432.6 | 14334.4 | 14332.4 | 14474.1 | 14454.9 |
| 15°   | 10932.8 | 10801.2 | 10874.0 | 10838.6 | 10819.4 |
| 17.5° | 7352.0  | 7301.3  | 7398.5  | 7369.2  | 7242.6  |
| 20°   | 5288.7  | 5301.9  | 5487.1  | 5394.0  | 5281.6  |
| 22.5° | 3859.2  | 3906.8  | 4126.5  | 3886.6  | 3798.5  |
| 25°   | 2569.4  | 2666.6  | 2897.5  | 2598.8  | 2516.8  |
| 27.5° | 1580.3  | 1624.9  | 1858.7  | 1560.1  | 1515.5  |
| 30°   | 983.0   | 960.8   | 1071.1  | 919.2   | 856.5   |
| 32.5° | 644.9   | 616.5   | 652.0   | 585.2   | 534.5   |
| 35°   | 431.3   | 440.4   | 413.1   | 410.0   | 346.2   |
| 37.5° | 269.3   | 309.8   | 273.3   | 291.6   | 222.7   |
| 40°   | 174.1   | 224.7   | 193.4   | 213.6   | 164.0   |
| 42.5° | 142.7   | 173.1   | 158.9   | 169.1   | 145.8   |
| 45°   | 113.4   | 140.7   | 140.7   | 140.7   | 114.4   |
| 47.5° | 62.8    | 94.2    | 120.5   | 96.2    | 66.8    |
| 50°   | 35.4    | 47.6    | 93.1    | 49.6    | 37.5    |
| 52.5° | 24.3    | 27.3    | 63.8    | 28.3    | 25.3    |
| 55°   | 18.2    | 19.2    | 34.4    | 20.2    | 19.2    |
| 57.5° | 14.2    | 15.2    | 18.2    | 15.2    | 14.2    |
| 60°   | 11.1    | 11.1    | 13.2    | 12.1    | 11.1    |
| 62.5° | 8.1     | 8.1     | 9.1     | 8.1     | 8.1     |
| 65°   | 6.1     | 6.1     | 6.1     | 6.1     | 6.1     |
| 67.5° | 3.0     | 4.0     | 4.0     | 4.0     | 4.0     |
| 70°   | 3.0     | 2.0     | 2.0     | 2.0     | 3.0     |
| 72.5° | 2.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 75°   | 0.0     | 0.0     | 1.0     | 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)