

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: P770844

Luminaire Tested: LD6D70BD010-EU6DR6570959030-6LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D70BD010-EU6DR6570959030-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5268.5 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

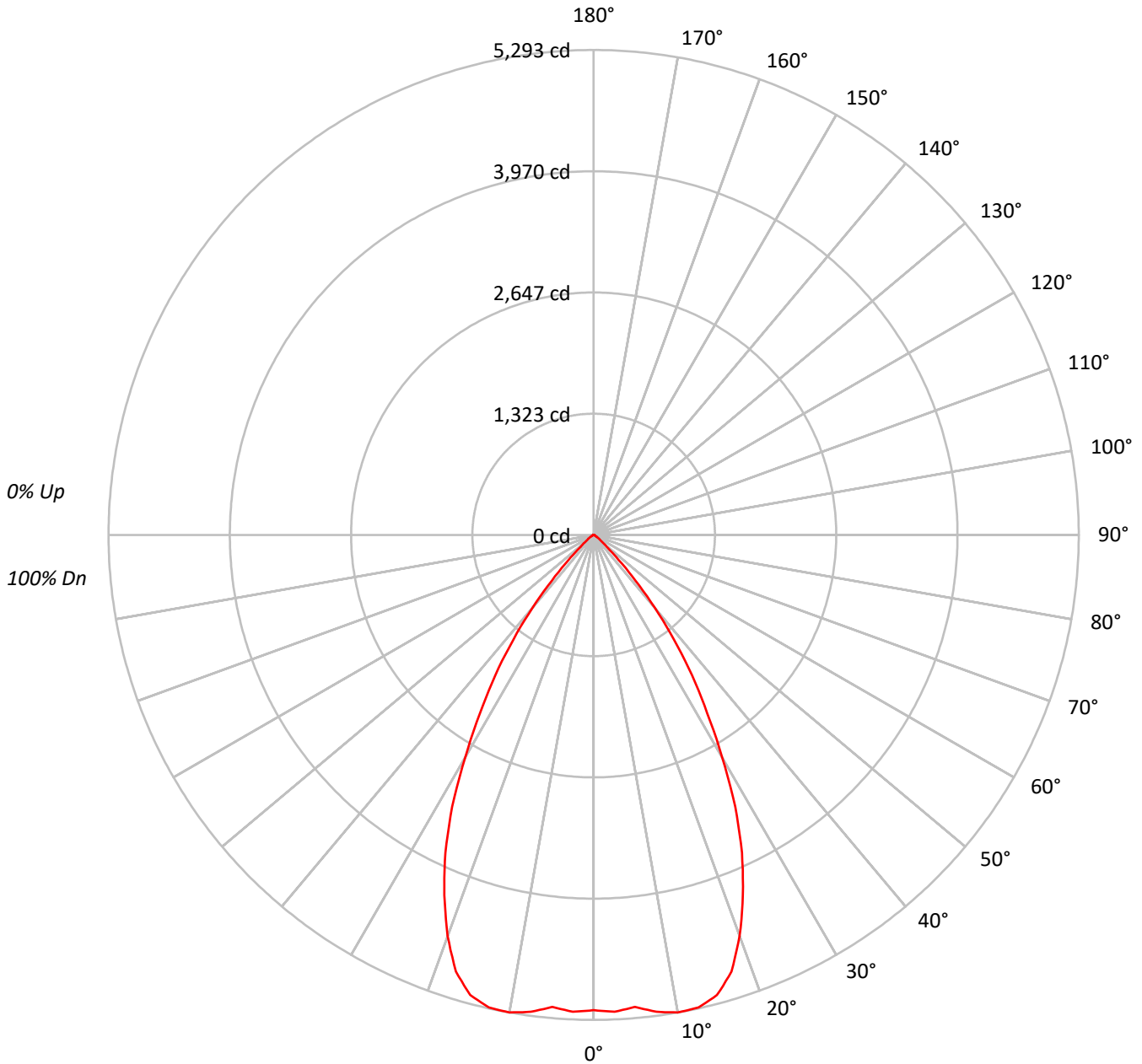
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 87  |    |    |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |    |    |
| 5   | 92  | 83  | 78  | 73  | 90  | 83  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 72  | 77  | 74  | 71  | 69  |    |    |
| 6   | 87  | 78  | 72  | 68  | 86  | 77  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 65  |    |    |
| 7   | 83  | 73  | 67  | 63  | 81  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 66  | 62  | 69  | 65  | 62  | 60  |    |    |
| 8   | 79  | 69  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 58  | 66  | 62  | 58  | 65  | 61  | 58  | 57  |    |    |
| 9   | 75  | 65  | 59  | 55  | 74  | 65  | 59  | 55  | 64  | 58  | 55  | 63  | 58  | 55  | 62  | 58  | 54  | 53  |    |    |
| 10  | 71  | 61  | 56  | 52  | 70  | 61  | 55  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 59  | 54  | 51  | 50  |    |    |

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

|     | 0°     |
|-----|--------|
| 0°  | 566757 |
| 5°  | 567222 |
| 10° | 587194 |
| 15° | 588164 |
| 20° | 541506 |
| 25° | 461392 |
| 30° | 353207 |
| 35° | 249532 |
| 40° | 147294 |
| 45° | 59798  |
| 50° | 21672  |
| 55° | 12077  |
| 60° | 6927   |
| 65° | 3800   |
| 70° | 3993   |
| 75° | 3124   |
| 80° | 3272   |
| 85° | 2758   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 59798 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 499.5  | 9.5       |
| 10°-20°   | 1440.8 | 27.3      |
| 20°-30°   | 1728.7 | 32.8      |
| 30°-40°   | 1161.7 | 22.0      |
| 40°-50°   | 347.8  | 6.6       |
| 50°-60°   | 61.4   | 1.2       |
| 60°-70°   | 17.4   | 0.3       |
| 70°-80°   | 8.6    | 0.2       |
| 80°-90°   | 2.7    | 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°    | 3668.9 | 69.6      |
| 0°-40°    | 4830.6 | 91.7      |
| 0°-60°    | 5239.8 | 99.5      |
| 0°-90°    | 5268.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5268.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5187 |      |
| 5°  | 5172 | 499  |
| 15° | 5200 | 1441 |
| 25° | 3827 | 1729 |
| 35° | 1871 | 1162 |
| 45° | 387  | 348  |
| 55° | 63   | 61   |
| 65° | 15   | 17   |
| 75° | 7    | 9    |
| 85° | 2    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 5187.2 |
| 2.5°  | 5209.3 |
| 5°    | 5171.7 |
| 7.5°  | 5249.8 |
| 10°   | 5292.6 |
| 12.5° | 5282.3 |
| 15°   | 5199.7 |
| 17.5° | 4997.7 |
| 20°   | 4657.2 |
| 22.5° | 4256.2 |
| 25°   | 3827.2 |
| 27.5° | 3342.9 |
| 30°   | 2799.6 |
| 32.5° | 2307.2 |
| 35°   | 1870.8 |
| 37.5° | 1439.6 |
| 40°   | 1032.7 |
| 42.5° | 674.5  |
| 45°   | 387.0  |
| 47.5° | 204.9  |
| 50°   | 127.5  |
| 52.5° | 88.5   |
| 55°   | 63.4   |
| 57.5° | 45.7   |
| 60°   | 31.7   |
| 62.5° | 20.6   |
| 65°   | 14.7   |
| 67.5° | 13.3   |
| 70°   | 12.5   |
| 72.5° | 9.6    |
| 75°   | 7.4    |
| 77.5° | 6.6    |
| 80°   | 5.2    |
| 82.5° | 3.7    |
| 85°   | 2.2    |
| 87.5° | 1.5    |
| 90°   | 0.0    |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180°

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Scaled Data Report



(END OF REPORT)