

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



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: P770302

Luminaire Tested: LD6D70BD010-EU6DR3070959030-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770302  
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-EU6DR3070959030-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7779.2 lumens  
Efficiency: N/A  
Efficacy: 116.8 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

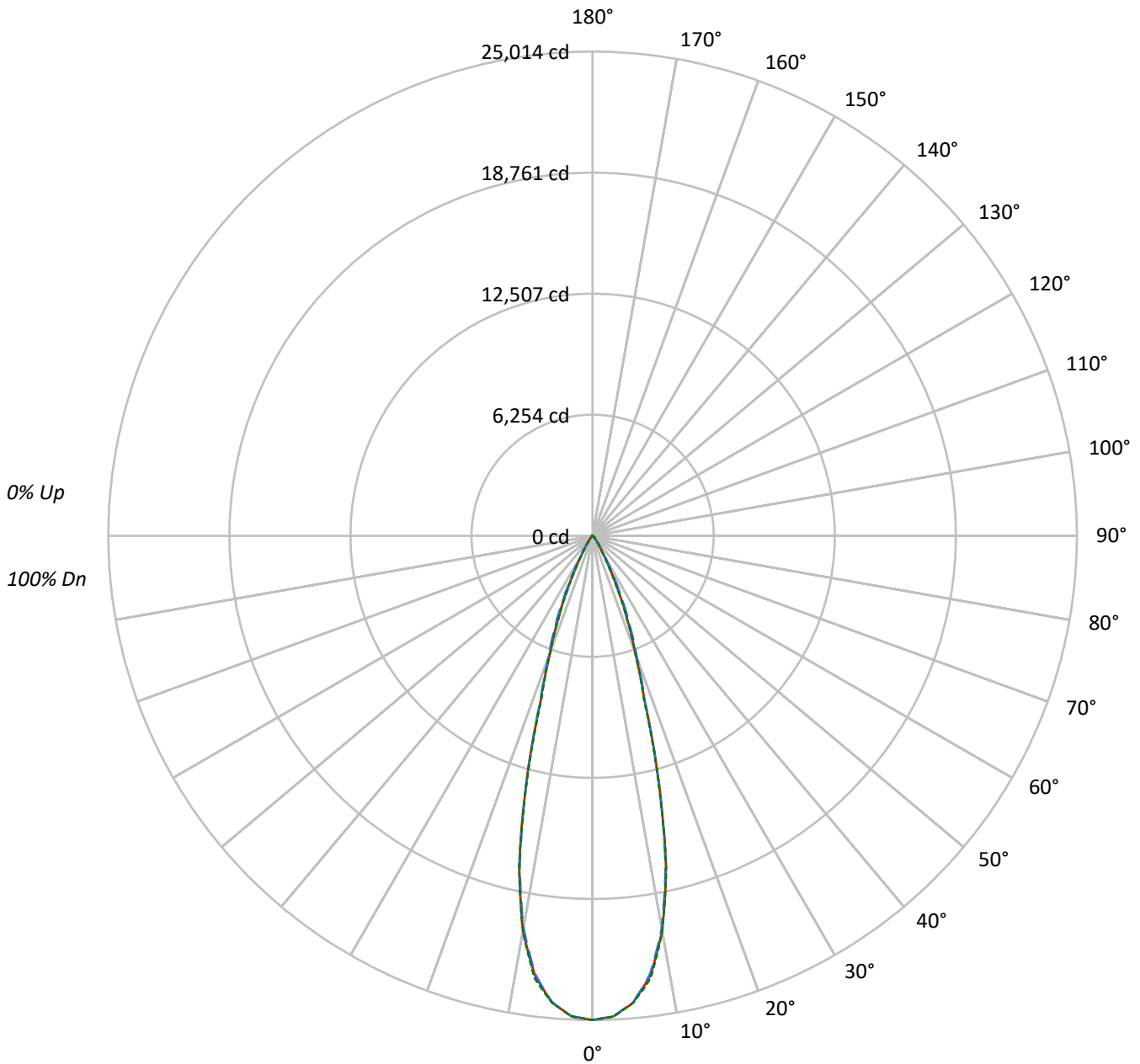


Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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°  | 1914657 | 1914657 | 1914657 |
| 5°  | 1859687 | 1857520 | 1859779 |
| 10° | 1610772 | 1599416 | 1610391 |
| 15° | 1050952 | 1045302 | 1040048 |
| 20° | 522588  | 542194  | 521887  |
| 25° | 263242  | 296847  | 257854  |
| 30° | 105399  | 114838  | 91832   |
| 35° | 48889   | 46824   | 39246   |
| 40° | 21103   | 23441   | 19884   |
| 45° | 14884   | 18478   | 15025   |
| 50° | 5120    | 13456   | 5406    |
| 55° | 2949    | 5578    | 3109    |
| 60° | 2067    | 2449    | 2067    |
| 65° | 1340    | 1340    | 1340    |
| 70° | 828     | 559     | 828     |
| 75° | 0       | 355     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 18478 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2199.6 | 28.3      |
| 10°-20°   | 3542.5 | 45.5      |
| 20°-30°   | 1530.8 | 19.7      |
| 30°-40°   | 348.9  | 4.5       |
| 40°-50°   | 119.8  | 1.5       |
| 50°-60°   | 29.3   | 0.4       |
| 60°-70°   | 7.6    | 0.1       |
| 70°-80°   | 0.8    | 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°    | 7272.9 | 93.5      |
| 0°-40°    | 7621.8 | 98.0      |
| 0°-60°    | 7770.8 | 99.9      |
| 0°-90°    | 7779.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7779.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 25014 | 25014 | 25014 | 25014 | 25014 |      |
| 5°  | 24203 | 24180 | 24175 | 24226 | 24205 | 2201 |
| 15° | 13262 | 13103 | 13191 | 13148 | 13125 | 3551 |
| 25° | 3117  | 3235  | 3515  | 3152  | 3053  | 1492 |
| 35° | 523   | 534   | 501   | 497   | 420   | 355  |
| 45° | 138   | 171   | 171   | 171   | 139   | 98   |
| 55° | 22    | 23    | 42    | 25    | 23    | 22   |
| 65° | 7     | 7     | 7     | 7     | 7     | 7    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 25014.0 | 25014.0 | 25014.0 | 25014.0 | 25014.0 |
| 2.5°  | 24848.2 | 24831.0 | 24840.8 | 24853.1 | 24858.0 |
| 5°    | 24203.4 | 24180.1 | 24175.2 | 24225.5 | 24204.6 |
| 7.5°  | 22902.9 | 22869.7 | 22819.3 | 22933.6 | 23040.4 |
| 10°   | 20724.2 | 20687.4 | 20578.1 | 20632.1 | 20719.3 |
| 12.5° | 17507.8 | 17388.7 | 17386.2 | 17558.2 | 17534.8 |
| 15°   | 13262.3 | 13102.6 | 13191.0 | 13148.0 | 13124.7 |
| 17.5° | 8918.5  | 8857.1  | 8975.0  | 8939.3  | 8785.8  |
| 20°   | 6415.6  | 6431.6  | 6656.3  | 6543.3  | 6407.0  |
| 22.5° | 4681.5  | 4739.2  | 5005.7  | 4714.7  | 4607.8  |
| 25°   | 3116.9  | 3234.8  | 3514.8  | 3152.5  | 3053.1  |
| 27.5° | 1917.1  | 1971.1  | 2254.8  | 1892.5  | 1838.5  |
| 30°   | 1192.5  | 1165.5  | 1299.3  | 1115.1  | 1039.0  |
| 32.5° | 782.3   | 747.9   | 790.9   | 709.8   | 648.4   |
| 35°   | 523.2   | 534.2   | 501.1   | 497.4   | 420.0   |
| 37.5° | 326.7   | 375.8   | 331.6   | 353.7   | 270.2   |
| 40°   | 211.2   | 272.6   | 234.6   | 259.1   | 199.0   |
| 42.5° | 173.2   | 210.0   | 192.8   | 205.1   | 176.8   |
| 45°   | 137.5   | 170.7   | 170.7   | 170.7   | 138.8   |
| 47.5° | 76.1    | 114.2   | 146.1   | 116.7   | 81.1    |
| 50°   | 43.0    | 57.7    | 113.0   | 60.2    | 45.4    |
| 52.5° | 29.5    | 33.2    | 77.4    | 34.4    | 30.7    |
| 55°   | 22.1    | 23.3    | 41.8    | 24.6    | 23.3    |
| 57.5° | 17.2    | 18.4    | 22.1    | 18.4    | 17.2    |
| 60°   | 13.5    | 13.5    | 16.0    | 14.7    | 13.5    |
| 62.5° | 9.8     | 9.8     | 11.1    | 9.8     | 9.8     |
| 65°   | 7.4     | 7.4     | 7.4     | 7.4     | 7.4     |
| 67.5° | 3.7     | 4.9     | 4.9     | 4.9     | 4.9     |
| 70°   | 3.7     | 2.5     | 2.5     | 2.5     | 3.7     |
| 72.5° | 2.5     | 1.2     | 1.2     | 1.2     | 1.2     |
| 75°   | 0.0     | 0.0     | 1.2     | 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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Scaled Data Report



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Scaled Data Report







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

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