

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: P770308

Luminaire Tested: LD6D70BD010-EU6DR3070959035-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770308  
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-EU6DR3070959035-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7273.8 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

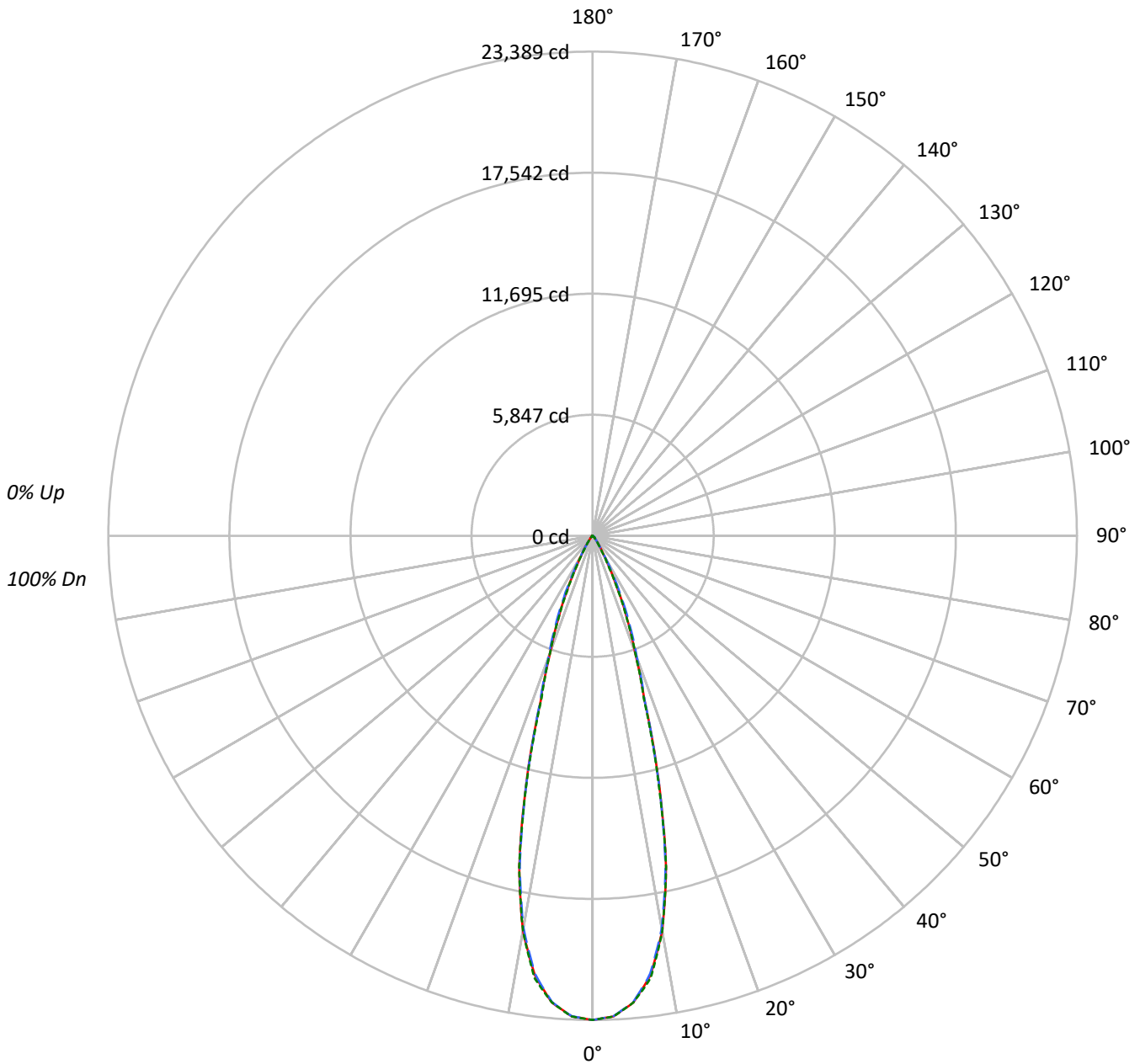
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°  | 1790258 | 1790258 | 1790258 |
| 5°  | 1738863 | 1736834 | 1738955 |
| 10° | 1506124 | 1495499 | 1505766 |
| 15° | 982668  | 977390  | 972477  |
| 20° | 488637  | 506964  | 487977  |
| 25° | 246139  | 277566  | 241097  |
| 30° | 98549   | 107379  | 85866   |
| 35° | 45712   | 43778   | 36695   |
| 40° | 19734   | 21913   | 18585   |
| 45° | 13921   | 17276   | 14051   |
| 50° | 4787    | 12575   | 5061    |
| 55° | 2762    | 5205    | 2909    |
| 60° | 1929    | 2281    | 1929    |
| 65° | 1250    | 1250    | 1250    |
| 70° | 761     | 515     | 761     |
| 75° | 0       | 325     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17276 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2056.7 | 28.3      |
| 10°-20°   | 3312.3 | 45.5      |
| 20°-30°   | 1431.3 | 19.7      |
| 30°-40°   | 326.2  | 4.5       |
| 40°-50°   | 112.0  | 1.5       |
| 50°-60°   | 27.4   | 0.4       |
| 60°-70°   | 7.1    | 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°    | 6800.3 | 93.5      |
| 0°-40°    | 7126.6 | 98.0      |
| 0°-60°    | 7266.0 | 99.9      |
| 0°-90°    | 7273.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7273.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 23389 | 23389 | 23389 | 23389 | 23389 |      |
| 5°  | 22631 | 22609 | 22604 | 22652 | 22632 | 2058 |
| 15° | 12401 | 12251 | 12334 | 12294 | 12272 | 3320 |
| 25° | 2914  | 3025  | 3286  | 2948  | 2855  | 1395 |
| 35° | 489   | 500   | 468   | 465   | 393   | 332  |
| 45° | 129   | 160   | 160   | 160   | 130   | 91   |
| 55° | 21    | 22    | 39    | 23    | 22    | 20   |
| 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°    | 23388.8 | 23388.8 | 23388.8 | 23388.8 | 23388.8 |
| 2.5°  | 23233.8 | 23217.7 | 23226.9 | 23238.4 | 23243.0 |
| 5°    | 22630.9 | 22609.1 | 22604.5 | 22651.6 | 22632.1 |
| 7.5°  | 21414.9 | 21383.9 | 21336.8 | 21443.6 | 21543.5 |
| 10°   | 19377.8 | 19343.3 | 19241.1 | 19291.6 | 19373.2 |
| 12.5° | 16370.3 | 16258.9 | 16256.6 | 16417.4 | 16395.6 |
| 15°   | 12400.6 | 12251.3 | 12334.0 | 12293.8 | 12272.0 |
| 17.5° | 8339.0  | 8281.6  | 8391.9  | 8358.6  | 8215.0  |
| 20°   | 5998.8  | 6013.7  | 6223.8  | 6118.2  | 5990.7  |
| 22.5° | 4377.4  | 4431.3  | 4680.5  | 4408.4  | 4308.5  |
| 25°   | 2914.4  | 3024.7  | 3286.5  | 2947.7  | 2854.7  |
| 27.5° | 1792.5  | 1843.0  | 2108.3  | 1769.5  | 1719.0  |
| 30°   | 1115.0  | 1089.7  | 1214.9  | 1042.7  | 971.5   |
| 32.5° | 731.5   | 699.3   | 739.5   | 663.7   | 606.3   |
| 35°   | 489.2   | 499.5   | 468.5   | 465.1   | 392.7   |
| 37.5° | 305.5   | 351.4   | 310.0   | 330.7   | 252.6   |
| 40°   | 197.5   | 254.9   | 219.3   | 242.3   | 186.0   |
| 42.5° | 161.9   | 196.4   | 180.3   | 191.8   | 165.4   |
| 45°   | 128.6   | 159.6   | 159.6   | 159.6   | 129.8   |
| 47.5° | 71.2    | 106.8   | 136.6   | 109.1   | 75.8    |
| 50°   | 40.2    | 54.0    | 105.6   | 56.3    | 42.5    |
| 52.5° | 27.6    | 31.0    | 72.3    | 32.2    | 28.7    |
| 55°   | 20.7    | 21.8    | 39.0    | 23.0    | 21.8    |
| 57.5° | 16.1    | 17.2    | 20.7    | 17.2    | 16.1    |
| 60°   | 12.6    | 12.6    | 14.9    | 13.8    | 12.6    |
| 62.5° | 9.2     | 9.2     | 10.3    | 9.2     | 9.2     |
| 65°   | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     |
| 67.5° | 3.4     | 4.6     | 4.6     | 4.6     | 4.6     |
| 70°   | 3.4     | 2.3     | 2.3     | 2.3     | 3.4     |
| 72.5° | 2.3     | 1.1     | 1.1     | 1.1     | 1.1     |
| 75°   | 0.0     | 0.0     | 1.1     | 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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