

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: P770323

Luminaire Tested: LD6D70BD010-EU6DR3070959040-6LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770323  
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-EU6DR3070959040-6LBCSSQMW  
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7615.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

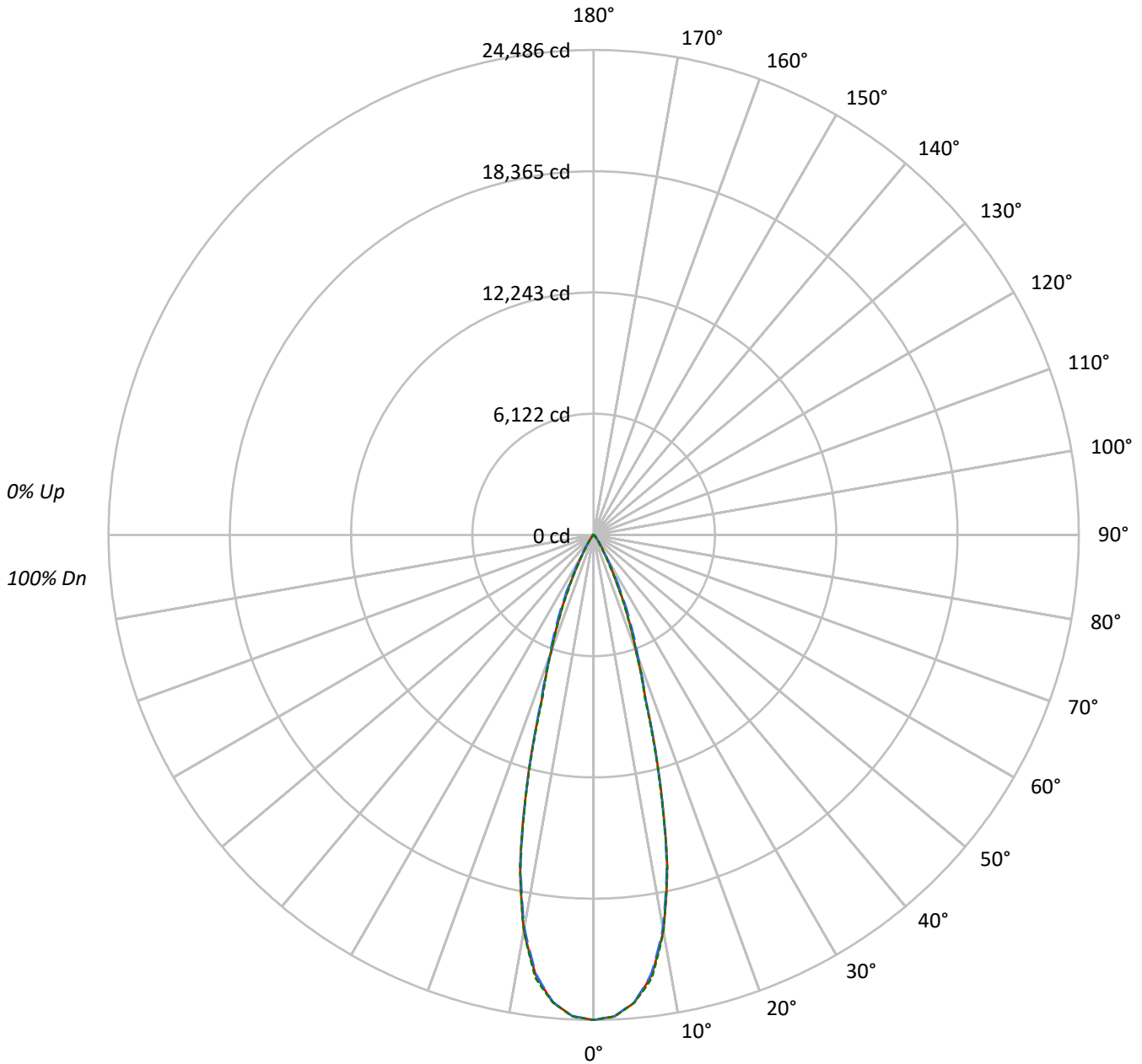
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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  |     |     |     |     | 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 |    |    |    |  |  |  |  |   |
| 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°  | 1874249 | 1874249 | 1874249 |
| 5°  | 1820447 | 1818319 | 1820539 |
| 10° | 1576783 | 1565661 | 1576410 |
| 15° | 1028772 | 1023248 | 1018105 |
| 20° | 511559  | 530758  | 510874  |
| 25° | 257693  | 290589  | 252406  |
| 30° | 103171  | 112417  | 89896   |
| 35° | 47852   | 45833   | 38414   |
| 40° | 20664   | 22942   | 19464   |
| 45° | 14570   | 18088   | 14700   |
| 50° | 5013    | 13170   | 5299    |
| 55° | 2883    | 5458    | 3043    |
| 60° | 2021    | 2388    | 2021    |
| 65° | 1304    | 1304    | 1304    |
| 70° | 806     | 537     | 806     |
| 75° | 0       | 355     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 18088 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2153.2 | 28.3      |
| 10°-20°   | 3467.7 | 45.5      |
| 20°-30°   | 1498.5 | 19.7      |
| 30°-40°   | 341.5  | 4.5       |
| 40°-50°   | 117.3  | 1.5       |
| 50°-60°   | 28.6   | 0.4       |
| 60°-70°   | 7.4    | 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°    | 7119.4 | 93.5      |
| 0°-40°    | 7461.0 | 98.0      |
| 0°-60°    | 7606.9 | 99.9      |
| 0°-90°    | 7615.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7615.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 24486 | 24486 | 24486 | 24486 | 24486 |      |
| 5°  | 23693 | 23670 | 23665 | 23714 | 23694 | 2155 |
| 15° | 12982 | 12826 | 12913 | 12871 | 12848 | 3476 |
| 25° | 3051  | 3167  | 3441  | 3086  | 2989  | 1460 |
| 35° | 512   | 523   | 490   | 487   | 411   | 347  |
| 45° | 135   | 167   | 167   | 167   | 136   | 96   |
| 55° | 22    | 23    | 41    | 24    | 23    | 21   |
| 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°    | 24486.1 | 24486.1 | 24486.1 | 24486.1 | 24486.1 |
| 2.5°  | 24323.8 | 24307.0 | 24316.6 | 24328.7 | 24333.5 |
| 5°    | 23692.7 | 23669.9 | 23665.0 | 23714.3 | 23693.9 |
| 7.5°  | 22419.6 | 22387.1 | 22337.8 | 22449.6 | 22554.2 |
| 10°   | 20286.9 | 20250.8 | 20143.8 | 20196.7 | 20282.1 |
| 12.5° | 17138.4 | 17021.8 | 17019.4 | 17187.7 | 17164.8 |
| 15°   | 12982.4 | 12826.1 | 12912.7 | 12870.6 | 12847.8 |
| 17.5° | 8730.3  | 8670.2  | 8785.6  | 8750.7  | 8600.4  |
| 20°   | 6280.2  | 6295.9  | 6515.9  | 6405.3  | 6271.8  |
| 22.5° | 4582.7  | 4639.2  | 4900.1  | 4615.2  | 4510.6  |
| 25°   | 3051.2  | 3166.6  | 3440.7  | 3086.0  | 2988.6  |
| 27.5° | 1876.6  | 1929.5  | 2207.2  | 1852.6  | 1799.7  |
| 30°   | 1167.3  | 1140.9  | 1271.9  | 1091.6  | 1017.1  |
| 32.5° | 765.8   | 732.1   | 774.2   | 694.9   | 634.8   |
| 35°   | 512.1   | 523.0   | 490.5   | 486.9   | 411.1   |
| 37.5° | 319.8   | 367.9   | 324.6   | 346.2   | 264.5   |
| 40°   | 206.8   | 266.9   | 229.6   | 253.7   | 194.8   |
| 42.5° | 169.5   | 205.6   | 188.7   | 200.8   | 173.1   |
| 45°   | 134.6   | 167.1   | 167.1   | 167.1   | 135.8   |
| 47.5° | 74.5    | 111.8   | 143.1   | 114.2   | 79.3    |
| 50°   | 42.1    | 56.5    | 110.6   | 58.9    | 44.5    |
| 52.5° | 28.9    | 32.5    | 75.7    | 33.7    | 30.1    |
| 55°   | 21.6    | 22.8    | 40.9    | 24.0    | 22.8    |
| 57.5° | 16.8    | 18.0    | 21.6    | 18.0    | 16.8    |
| 60°   | 13.2    | 13.2    | 15.6    | 14.4    | 13.2    |
| 62.5° | 9.6     | 9.6     | 10.8    | 9.6     | 9.6     |
| 65°   | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     |
| 67.5° | 3.6     | 4.8     | 4.8     | 4.8     | 4.8     |
| 70°   | 3.6     | 2.4     | 2.4     | 2.4     | 3.6     |
| 72.5° | 2.4     | 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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