

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: P752205

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D70BD010-EU4DR3070959024-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

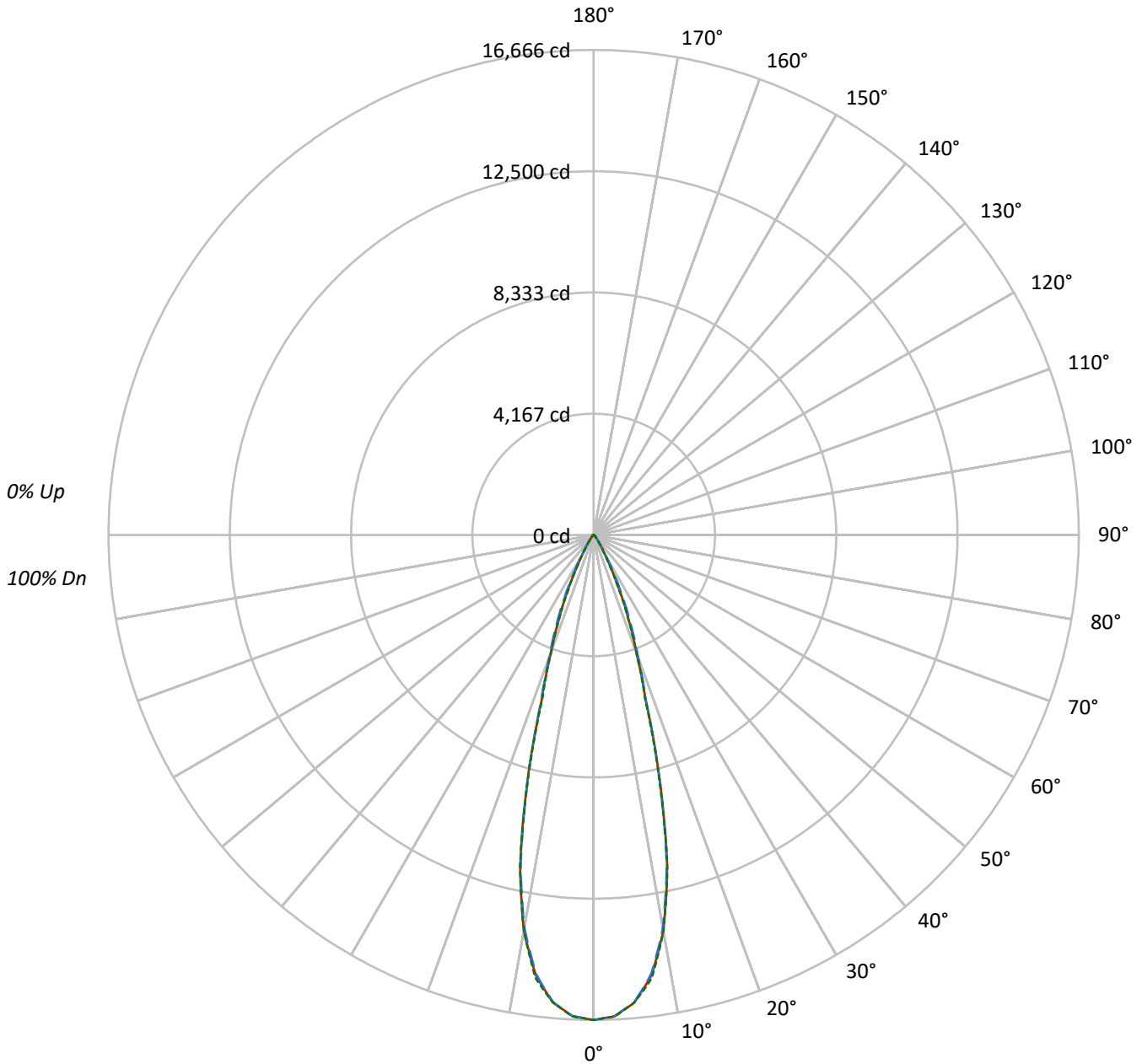
Lumens per Lamp: N/A  
Luminaire Lumens: 5183.1 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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



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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°  | 1275680 | 1275680 | 1275680 |
| 5°  | 1239061 | 1237617 | 1239123 |
| 10° | 1073216 | 1065645 | 1072959 |
| 15° | 700220  | 696456  | 692961  |
| 20° | 348183  | 361248  | 347718  |
| 25° | 175390  | 197780  | 171801  |
| 30° | 70222   | 76515   | 61180   |
| 35° | 32574   | 31191   | 26145   |
| 40° | 14059   | 15618   | 13249   |
| 45° | 9916    | 12308   | 10013   |
| 50° | 3406    | 8967    | 3608    |
| 55° | 1962    | 3710    | 2068    |
| 60° | 1378    | 1623    | 1378    |
| 65° | 887     | 887     | 887     |
| 70° | 559     | 358     | 559     |
| 75° | 0       | 237     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12308 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1465.5 | 28.3      |
| 10°-20°   | 2360.3 | 45.5      |
| 20°-30°   | 1019.9 | 19.7      |
| 30°-40°   | 232.5  | 4.5       |
| 40°-50°   | 79.8   | 1.5       |
| 50°-60°   | 19.5   | 0.4       |
| 60°-70°   | 5.0    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 4845.7 | 93.5      |
| 0°-40°    | 5078.2 | 98.0      |
| 0°-60°    | 5177.5 | 99.9      |
| 0°-90°    | 5183.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5183.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 16666 | 16666 | 16666 | 16666 | 16666 |      |
| 5°  | 16126 | 16111 | 16107 | 16141 | 16127 | 1467 |
| 15° | 8836  | 8730  | 8789  | 8760  | 8745  | 2366 |
| 25° | 2077  | 2155  | 2342  | 2100  | 2034  | 994  |
| 35° | 349   | 356   | 334   | 331   | 280   | 236  |
| 45° | 92    | 114   | 114   | 114   | 92    | 65   |
| 55° | 15    | 16    | 28    | 16    | 16    | 14   |
| 65° | 5     | 5     | 5     | 5     | 5     | 5    |
| 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°    | 16666.1 | 16666.1 | 16666.1 | 16666.1 | 16666.1 |
| 2.5°  | 16555.7 | 16544.2 | 16550.8 | 16559.0 | 16562.2 |
| 5°    | 16126.1 | 16110.6 | 16107.3 | 16140.8 | 16126.9 |
| 7.5°  | 15259.6 | 15237.5 | 15203.9 | 15280.0 | 15351.2 |
| 10°   | 13808.0 | 13783.4 | 13710.6 | 13746.6 | 13804.7 |
| 12.5° | 11665.0 | 11585.6 | 11584.0 | 11698.5 | 11683.0 |
| 15°   | 8836.3  | 8729.9  | 8788.8  | 8760.2  | 8744.7  |
| 17.5° | 5942.1  | 5901.2  | 5979.8  | 5956.1  | 5853.8  |
| 20°   | 4274.5  | 4285.2  | 4434.9  | 4359.6  | 4268.8  |
| 22.5° | 3119.2  | 3157.6  | 3335.2  | 3141.3  | 3070.1  |
| 25°   | 2076.7  | 2155.3  | 2341.8  | 2100.5  | 2034.2  |
| 27.5° | 1277.3  | 1313.3  | 1502.3  | 1260.9  | 1224.9  |
| 30°   | 794.5   | 776.5   | 865.7   | 743.0   | 692.2   |
| 32.5° | 521.2   | 498.3   | 527.0   | 472.9   | 432.0   |
| 35°   | 348.6   | 355.9   | 333.8   | 331.4   | 279.8   |
| 37.5° | 217.7   | 250.4   | 220.9   | 235.7   | 180.0   |
| 40°   | 140.7   | 181.7   | 156.3   | 172.7   | 132.6   |
| 42.5° | 115.4   | 139.9   | 128.5   | 136.6   | 117.8   |
| 45°   | 91.6    | 113.7   | 113.7   | 113.7   | 92.5    |
| 47.5° | 50.7    | 76.1    | 97.4    | 77.7    | 54.0    |
| 50°   | 28.6    | 38.5    | 75.3    | 40.1    | 30.3    |
| 52.5° | 19.6    | 22.1    | 51.5    | 22.9    | 20.5    |
| 55°   | 14.7    | 15.5    | 27.8    | 16.4    | 15.5    |
| 57.5° | 11.5    | 12.3    | 14.7    | 12.3    | 11.5    |
| 60°   | 9.0     | 9.0     | 10.6    | 9.8     | 9.0     |
| 62.5° | 6.5     | 6.5     | 7.4     | 6.5     | 6.5     |
| 65°   | 4.9     | 4.9     | 4.9     | 4.9     | 4.9     |
| 67.5° | 2.5     | 3.3     | 3.3     | 3.3     | 3.3     |
| 70°   | 2.5     | 1.6     | 1.6     | 1.6     | 2.5     |
| 72.5° | 1.6     | 0.8     | 0.8     | 0.8     | 0.8     |
| 75°   | 0.0     | 0.0     | 0.8     | 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     |

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

Signify Classified - Internal  
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Scaled Data Report







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

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Scaled Data Report



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Scaled Data Report



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