

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: P753019

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753019  
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: LD4D75BD010-EU4DR3070959030-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7369.4 lumens  
Efficiency: N/A  
Efficacy: 101.8 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

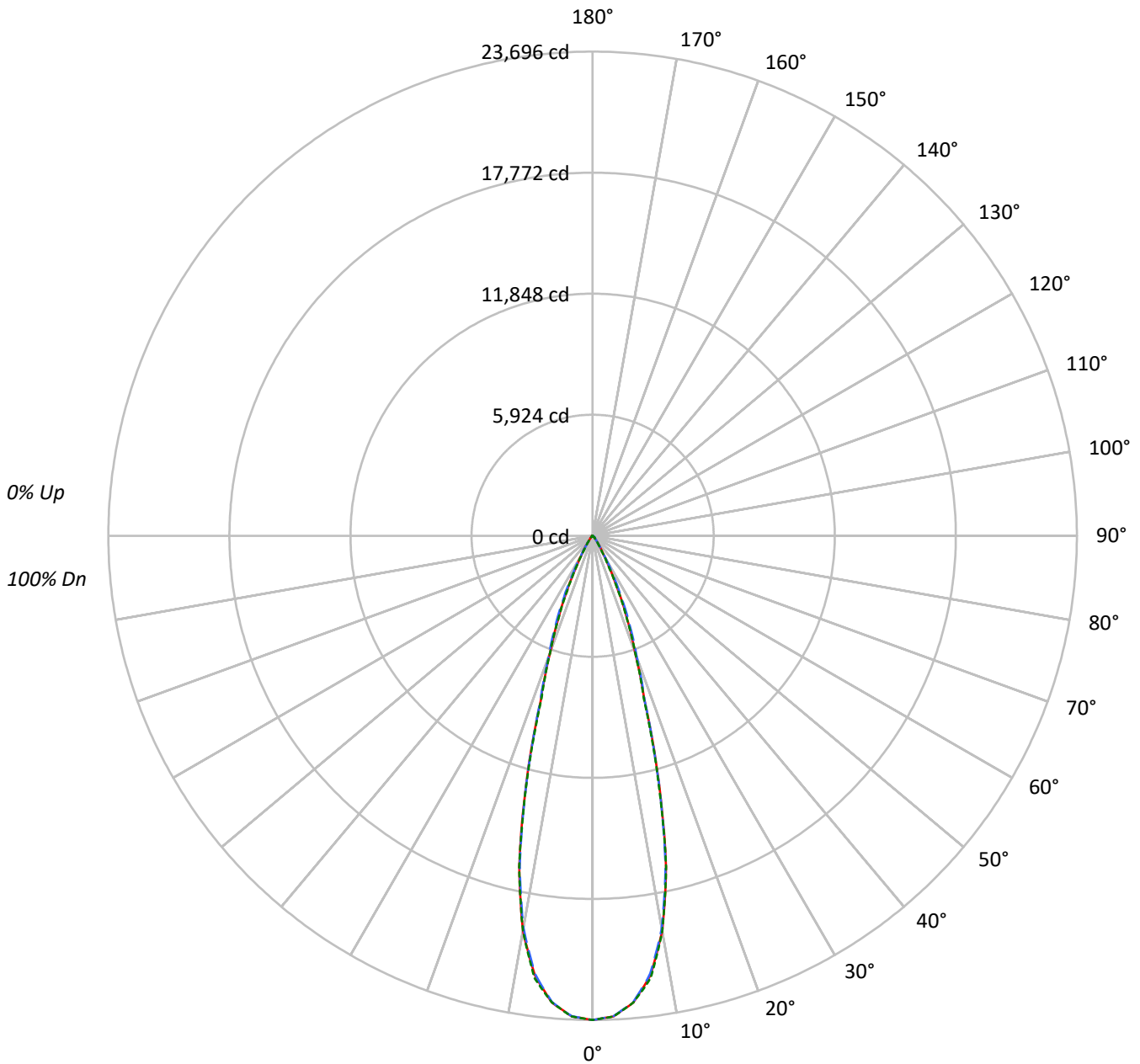
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°  | 1813772 | 1813772 | 1813772 |
| 5°  | 1761698 | 1759647 | 1761791 |
| 10° | 1525897 | 1515140 | 1525540 |
| 15° | 995576  | 990227  | 985251  |
| 20° | 495056  | 513628  | 494388  |
| 25° | 249374  | 281206  | 244264  |
| 30° | 99848   | 108793  | 86988   |
| 35° | 46310   | 44357   | 37181   |
| 40° | 19994   | 22202   | 18835   |
| 45° | 14105   | 17504   | 14235   |
| 50° | 4847    | 12742   | 5120    |
| 55° | 2789    | 5285    | 2949    |
| 60° | 1960    | 2312    | 1960    |
| 65° | 1268    | 1268    | 1268    |
| 70° | 783     | 515     | 783     |
| 75° | 0       | 355     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17504 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2083.7 | 28.3      |
| 10°-20°   | 3355.8 | 45.5      |
| 20°-30°   | 1450.1 | 19.7      |
| 30°-40°   | 330.5  | 4.5       |
| 40°-50°   | 113.5  | 1.5       |
| 50°-60°   | 27.7   | 0.4       |
| 60°-70°   | 7.2    | 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°    | 6889.7 | 93.5      |
| 0°-40°    | 7220.2 | 98.0      |
| 0°-60°    | 7361.4 | 99.9      |
| 0°-90°    | 7369.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7369.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 23696 | 23696 | 23696 | 23696 | 23696 |      |
| 5°  | 22928 | 22906 | 22901 | 22949 | 22929 | 2085 |
| 15° | 12564 | 12412 | 12496 | 12455 | 12433 | 3364 |
| 25° | 2953  | 3064  | 3330  | 2986  | 2892  | 1413 |
| 35° | 496   | 506   | 475   | 471   | 398   | 336  |
| 45° | 130   | 162   | 162   | 162   | 132   | 92   |
| 55° | 21    | 22    | 40    | 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°    | 23696.0 | 23696.0 | 23696.0 | 23696.0 | 23696.0 |
| 2.5°  | 23538.9 | 23522.6 | 23531.9 | 23543.6 | 23548.2 |
| 5°    | 22928.1 | 22906.0 | 22901.4 | 22949.1 | 22929.3 |
| 7.5°  | 21696.1 | 21664.7 | 21617.0 | 21725.2 | 21826.4 |
| 10°   | 19632.2 | 19597.3 | 19493.8 | 19545.0 | 19627.6 |
| 12.5° | 16585.3 | 16472.5 | 16470.1 | 16633.0 | 16610.9 |
| 15°   | 12563.5 | 12412.2 | 12496.0 | 12455.3 | 12433.2 |
| 17.5° | 8448.6  | 8390.4  | 8502.1  | 8468.3  | 8322.9  |
| 20°   | 6077.6  | 6092.7  | 6305.6  | 6198.6  | 6069.4  |
| 22.5° | 4434.9  | 4489.5  | 4742.0  | 4466.3  | 4365.0  |
| 25°   | 2952.7  | 3064.4  | 3329.6  | 2986.4  | 2892.2  |
| 27.5° | 1816.1  | 1867.2  | 2136.0  | 1792.8  | 1741.6  |
| 30°   | 1129.7  | 1104.1  | 1230.9  | 1056.4  | 984.2   |
| 32.5° | 741.1   | 708.5   | 749.2   | 672.4   | 614.3   |
| 35°   | 495.6   | 506.1   | 474.7   | 471.2   | 397.9   |
| 37.5° | 309.5   | 356.0   | 314.1   | 335.1   | 255.9   |
| 40°   | 200.1   | 258.3   | 222.2   | 245.5   | 188.5   |
| 42.5° | 164.0   | 198.9   | 182.7   | 194.3   | 167.5   |
| 45°   | 130.3   | 161.7   | 161.7   | 161.7   | 131.5   |
| 47.5° | 72.1    | 108.2   | 138.4   | 110.5   | 76.8    |
| 50°   | 40.7    | 54.7    | 107.0   | 57.0    | 43.0    |
| 52.5° | 27.9    | 31.4    | 73.3    | 32.6    | 29.1    |
| 55°   | 20.9    | 22.1    | 39.6    | 23.3    | 22.1    |
| 57.5° | 16.3    | 17.5    | 20.9    | 17.5    | 16.3    |
| 60°   | 12.8    | 12.8    | 15.1    | 14.0    | 12.8    |
| 62.5° | 9.3     | 9.3     | 10.5    | 9.3     | 9.3     |
| 65°   | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     |
| 67.5° | 3.5     | 4.7     | 4.7     | 4.7     | 4.7     |
| 70°   | 3.5     | 2.3     | 2.3     | 2.3     | 3.5     |
| 72.5° | 2.3     | 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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