

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: P751432

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751432  
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: LD4D65D010-EU4DR3055659024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5495.4 lumens  
Efficiency: N/A  
Efficacy: 75.5 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

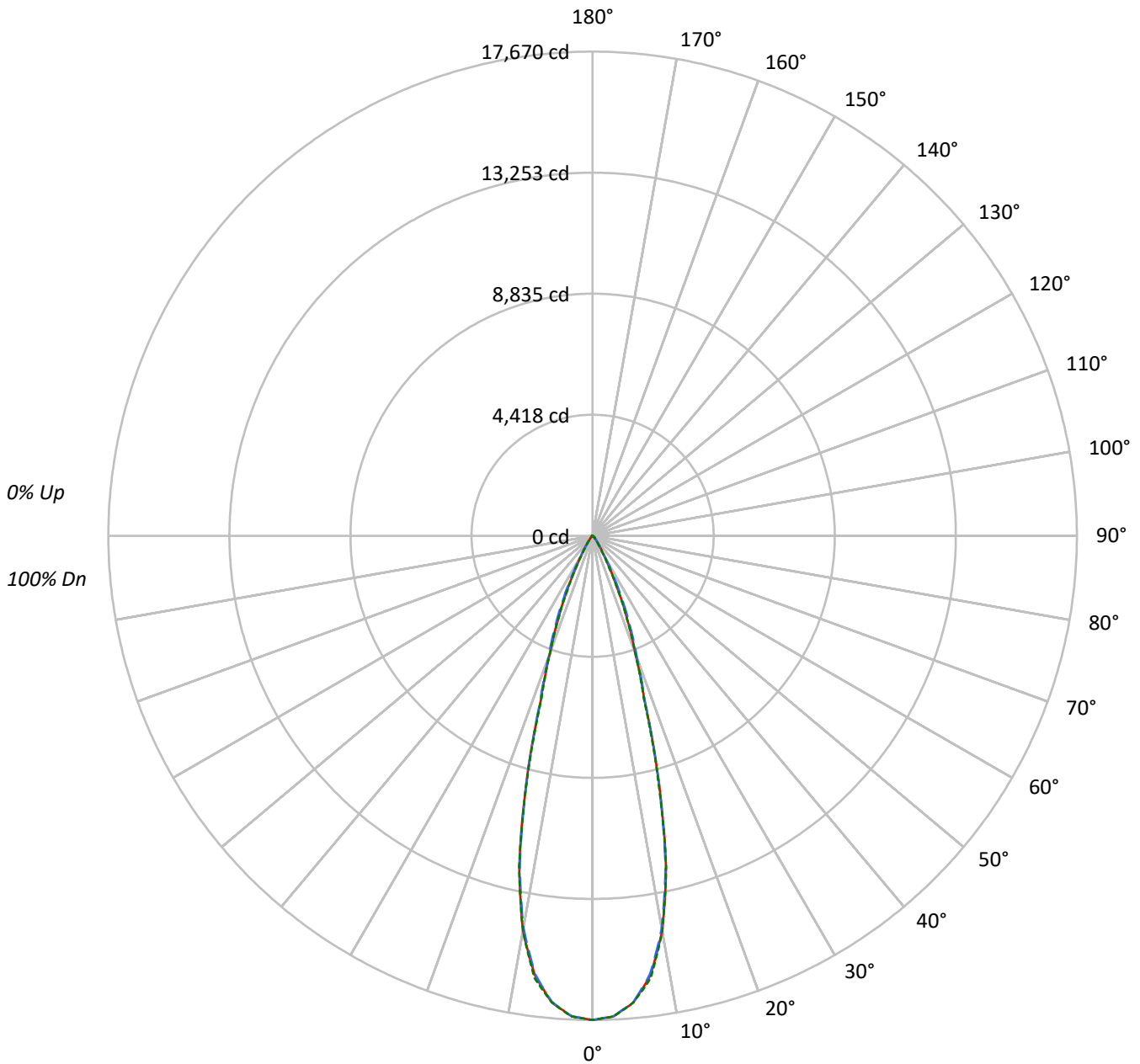
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 | 50 | 30 | 10 | 0   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    | 100 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |    |    |    | 96  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |    |    |    | 92  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |    |    |    | 89  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |    |    |    | 85  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |    |    |    | 82  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |    |    |    | 79  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |    |    |    | 77  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |    |    |    | 74  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |    |    |    | 72  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |    |    |    | 69  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1352560 | 1352560 | 1352560 |
| 5°  | 1313730 | 1312194 | 1313800 |
| 10° | 1137890 | 1129869 | 1137618 |
| 15° | 742417  | 738431  | 734715  |
| 20° | 369166  | 383021  | 368677  |
| 25° | 185964  | 209705  | 182155  |
| 30° | 74455   | 81128   | 64874   |
| 35° | 34536   | 33079   | 27724   |
| 40° | 14908   | 16557   | 14039   |
| 45° | 10522   | 13055   | 10608   |
| 50° | 3620    | 9503    | 3822    |
| 55° | 2082    | 3937    | 2202    |
| 60° | 1454    | 1730    | 1454    |
| 65° | 942     | 942     | 942     |
| 70° | 582     | 380     | 582     |
| 75° | 0       | 266     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13055 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1553.9 | 28.3      |
| 10°-20°   | 2502.5 | 45.5      |
| 20°-30°   | 1081.4 | 19.7      |
| 30°-40°   | 246.5  | 4.5       |
| 40°-50°   | 84.6   | 1.5       |
| 50°-60°   | 20.7   | 0.4       |
| 60°-70°   | 5.4    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 5137.7 | 93.5      |
| 0°-40°    | 5384.2 | 98.0      |
| 0°-60°    | 5489.5 | 99.9      |
| 0°-90°    | 5495.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5495.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 17670 | 17670 | 17670 | 17670 | 17670 |      |
| 5°  | 17098 | 17081 | 17078 | 17114 | 17099 | 1555 |
| 15° | 9369  | 9256  | 9318  | 9288  | 9272  | 2509 |
| 25° | 2202  | 2285  | 2483  | 2227  | 2157  | 1054 |
| 35° | 370   | 377   | 354   | 351   | 297   | 251  |
| 45° | 97    | 121   | 121   | 121   | 98    | 69   |
| 55° | 16    | 16    | 30    | 17    | 16    | 15   |
| 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°    | 17670.5 | 17670.5 | 17670.5 | 17670.5 | 17670.5 |
| 2.5°  | 17553.4 | 17541.2 | 17548.2 | 17556.8 | 17560.3 |
| 5°    | 17097.9 | 17081.4 | 17077.9 | 17113.5 | 17098.8 |
| 7.5°  | 16179.2 | 16155.7 | 16120.2 | 16200.8 | 16276.3 |
| 10°   | 14640.1 | 14614.1 | 14536.9 | 14575.0 | 14636.6 |
| 12.5° | 12368.0 | 12283.8 | 12282.1 | 12403.5 | 12387.0 |
| 15°   | 9368.8  | 9256.0  | 9318.5  | 9288.1  | 9271.6  |
| 17.5° | 6300.2  | 6256.9  | 6340.1  | 6315.0  | 6206.5  |
| 20°   | 4532.1  | 4543.4  | 4702.2  | 4622.4  | 4526.1  |
| 22.5° | 3307.1  | 3347.9  | 3536.2  | 3330.6  | 3255.1  |
| 25°   | 2201.9  | 2285.2  | 2483.0  | 2227.0  | 2156.8  |
| 27.5° | 1354.3  | 1392.4  | 1592.8  | 1336.9  | 1298.7  |
| 30°   | 842.4   | 823.3   | 917.9   | 787.7   | 734.0   |
| 32.5° | 552.6   | 528.3   | 558.7   | 501.5   | 458.1   |
| 35°   | 369.6   | 377.4   | 354.0   | 351.4   | 296.7   |
| 37.5° | 230.8   | 265.5   | 234.2   | 249.9   | 190.9   |
| 40°   | 149.2   | 192.6   | 165.7   | 183.1   | 140.5   |
| 42.5° | 122.3   | 148.4   | 136.2   | 144.9   | 124.9   |
| 45°   | 97.2    | 120.6   | 120.6   | 120.6   | 98.0    |
| 47.5° | 53.8    | 80.7    | 103.2   | 82.4    | 57.3    |
| 50°   | 30.4    | 40.8    | 79.8    | 42.5    | 32.1    |
| 52.5° | 20.8    | 23.4    | 54.7    | 24.3    | 21.7    |
| 55°   | 15.6    | 16.5    | 29.5    | 17.4    | 16.5    |
| 57.5° | 12.1    | 13.0    | 15.6    | 13.0    | 12.1    |
| 60°   | 9.5     | 9.5     | 11.3    | 10.4    | 9.5     |
| 62.5° | 6.9     | 6.9     | 7.8     | 6.9     | 6.9     |
| 65°   | 5.2     | 5.2     | 5.2     | 5.2     | 5.2     |
| 67.5° | 2.6     | 3.5     | 3.5     | 3.5     | 3.5     |
| 70°   | 2.6     | 1.7     | 1.7     | 1.7     | 2.6     |
| 72.5° | 1.7     | 0.9     | 0.9     | 0.9     | 0.9     |
| 75°   | 0.0     | 0.0     | 0.9     | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report







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

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