

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: P749923

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749923  
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: LD4D55D010-EU4DR3055659040-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 5041.7 lumens  
Efficiency: N/A  
Efficacy: 86.6 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): 58.2  
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

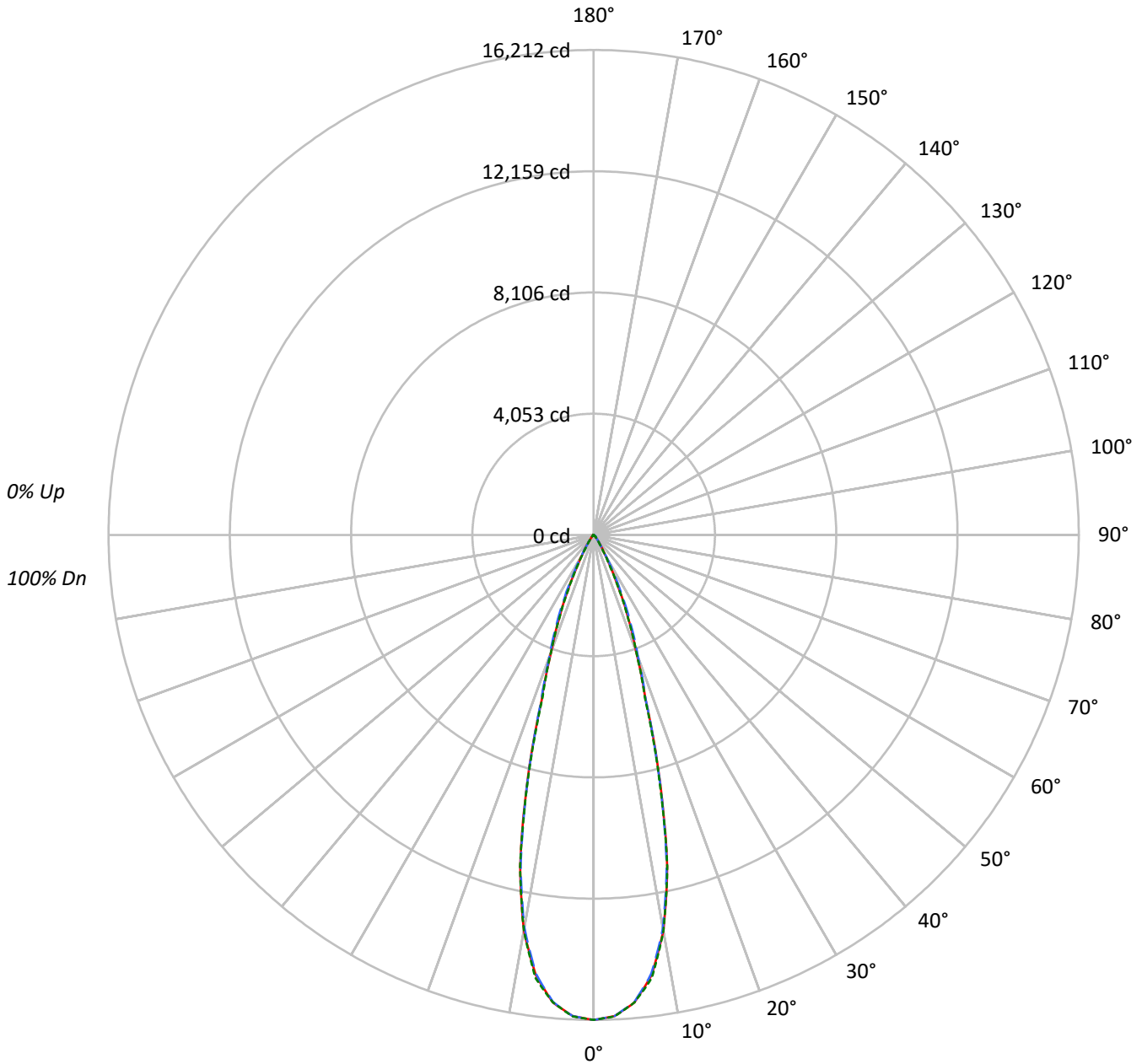


Downlight

TEST NUMBER: P749923

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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 | 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°  | 1240891 | 1240891 | 1240891 |
| 5°  | 1205269 | 1203863 | 1205331 |
| 10° | 1043945 | 1036584 | 1043704 |
| 15° | 681122  | 677469  | 674062  |
| 20° | 338693  | 351400  | 338237  |
| 25° | 170610  | 192391  | 167114  |
| 30° | 68313   | 74429   | 59518   |
| 35° | 31686   | 30341   | 25435   |
| 40° | 13679   | 15188   | 12880   |
| 45° | 9645    | 11972   | 9732    |
| 50° | 3322    | 8717    | 3501    |
| 55° | 1908    | 3616    | 2015    |
| 60° | 1347    | 1577    | 1347    |
| 65° | 869     | 869     | 869     |
| 70° | 537     | 358     | 537     |
| 75° | 0       | 237     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11972 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1425.6 | 28.3      |
| 10°-20°   | 2295.9 | 45.5      |
| 20°-30°   | 992.1  | 19.7      |
| 30°-40°   | 226.1  | 4.5       |
| 40°-50°   | 77.6   | 1.5       |
| 50°-60°   | 19.0   | 0.4       |
| 60°-70°   | 4.9    | 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°    | 4713.6 | 93.5      |
| 0°-40°    | 4939.7 | 98.0      |
| 0°-60°    | 5036.3 | 99.9      |
| 0°-90°    | 5041.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5041.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 16212 | 16212 | 16212 | 16212 | 16212 |      |
| 5°  | 15686 | 15671 | 15668 | 15701 | 15687 | 1427 |
| 15° | 8595  | 8492  | 8549  | 8521  | 8506  | 2302 |
| 25° | 2020  | 2096  | 2278  | 2043  | 1979  | 967  |
| 35° | 339   | 346   | 325   | 322   | 272   | 230  |
| 45° | 89    | 111   | 111   | 111   | 90    | 63   |
| 55° | 14    | 15    | 27    | 16    | 15    | 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°    | 16211.6 | 16211.6 | 16211.6 | 16211.6 | 16211.6 |
| 2.5°  | 16104.2 | 16093.0 | 16099.4 | 16107.4 | 16110.6 |
| 5°    | 15686.3 | 15671.2 | 15668.0 | 15700.7 | 15687.1 |
| 7.5°  | 14843.4 | 14821.9 | 14789.3 | 14863.3 | 14932.6 |
| 10°   | 13431.4 | 13407.6 | 13336.7 | 13371.7 | 13428.3 |
| 12.5° | 11346.9 | 11269.7 | 11268.1 | 11379.5 | 11364.4 |
| 15°   | 8595.3  | 8491.9  | 8549.2  | 8521.3  | 8506.2  |
| 17.5° | 5780.1  | 5740.3  | 5816.7  | 5793.6  | 5694.1  |
| 20°   | 4158.0  | 4168.3  | 4314.0  | 4240.8  | 4152.4  |
| 22.5° | 3034.1  | 3071.5  | 3244.2  | 3055.6  | 2986.4  |
| 25°   | 2020.1  | 2096.5  | 2278.0  | 2043.2  | 1978.7  |
| 27.5° | 1242.5  | 1277.5  | 1461.3  | 1226.5  | 1191.5  |
| 30°   | 772.9   | 755.3   | 842.1   | 722.7   | 673.4   |
| 32.5° | 507.0   | 484.7   | 512.6   | 460.1   | 420.3   |
| 35°   | 339.1   | 346.2   | 324.7   | 322.4   | 272.2   |
| 37.5° | 211.7   | 243.6   | 214.9   | 229.2   | 175.1   |
| 40°   | 136.9   | 176.7   | 152.0   | 167.9   | 128.9   |
| 42.5° | 112.2   | 136.1   | 125.0   | 132.9   | 114.6   |
| 45°   | 89.1    | 110.6   | 110.6   | 110.6   | 89.9    |
| 47.5° | 49.3    | 74.0    | 94.7    | 75.6    | 52.5    |
| 50°   | 27.9    | 37.4    | 73.2    | 39.0    | 29.4    |
| 52.5° | 19.1    | 21.5    | 50.1    | 22.3    | 19.9    |
| 55°   | 14.3    | 15.1    | 27.1    | 15.9    | 15.1    |
| 57.5° | 11.1    | 11.9    | 14.3    | 11.9    | 11.1    |
| 60°   | 8.8     | 8.8     | 10.3    | 9.6     | 8.8     |
| 62.5° | 6.4     | 6.4     | 7.2     | 6.4     | 6.4     |
| 65°   | 4.8     | 4.8     | 4.8     | 4.8     | 4.8     |
| 67.5° | 2.4     | 3.2     | 3.2     | 3.2     | 3.2     |
| 70°   | 2.4     | 1.6     | 1.6     | 1.6     | 2.4     |
| 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



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Scaled Data Report







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

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