

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: P745063

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745063  
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: LD4D25D010-EU4DR3020359030-4LBS1H  
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: 2449.3 lumens  
Efficiency: N/A  
Efficacy: 97.6 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): 25.1  
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

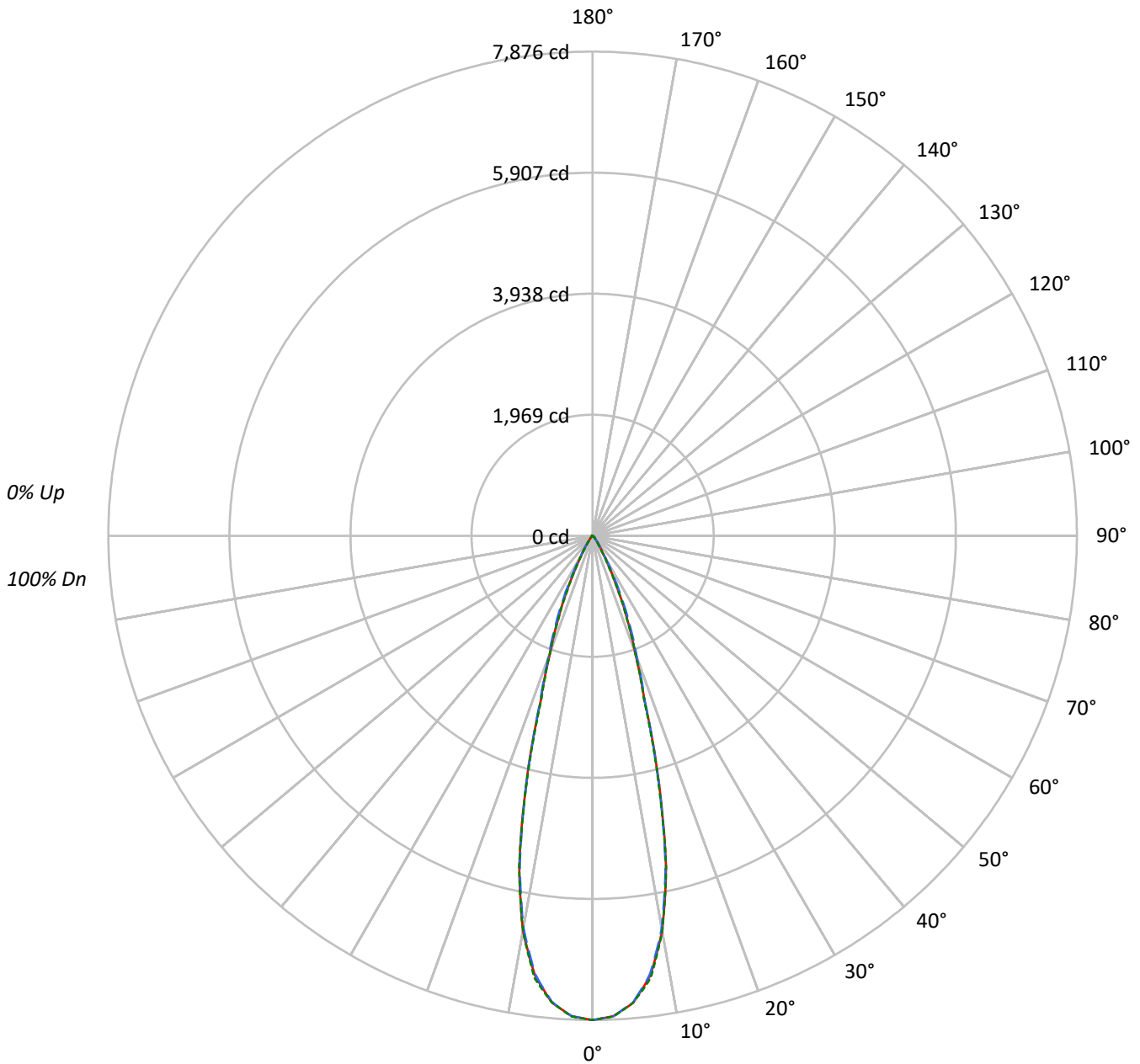


Downlight



TEST NUMBER: P745063  
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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  | 87  | 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°  | 602840 | 602840 | 602840 |
| 5°  | 585535 | 584859 | 585565 |
| 10° | 507166 | 503591 | 507042 |
| 15° | 330897 | 329122 | 327466 |
| 20° | 164541 | 170715 | 164321 |
| 25° | 82885  | 93468  | 81188  |
| 30° | 33188  | 36158  | 28919  |
| 35° | 15390  | 14745  | 12353  |
| 40° | 6645   | 7384   | 6255   |
| 45° | 4687   | 5813   | 4730   |
| 50° | 1608   | 4239   | 1703   |
| 55° | 921    | 1748   | 974    |
| 60° | 643    | 765    | 643    |
| 65° | 417    | 417    | 417    |
| 70° | 246    | 157    | 246    |
| 75° | 0      | 118    | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5813 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 692.6  | 28.3      |
| 10°-20°   | 1115.4 | 45.5      |
| 20°-30°   | 482.0  | 19.7      |
| 30°-40°   | 109.9  | 4.5       |
| 40°-50°   | 37.7   | 1.5       |
| 50°-60°   | 9.2    | 0.4       |
| 60°-70°   | 2.4    | 0.1       |
| 70°-80°   | 0.2    | 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°    | 2289.9 | 93.5      |
| 0°-40°    | 2399.8 | 98.0      |
| 0°-60°    | 2446.7 | 99.9      |
| 0°-90°    | 2449.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2449.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7876 | 7876  | 7876 | 7876  | 7876 |      |
| 5°  | 7621 | 7613  | 7612 | 7628  | 7621 | 693  |
| 15° | 4176 | 4126  | 4153 | 4140  | 4132 | 1118 |
| 25° | 981  | 1018  | 1107 | 993   | 961  | 470  |
| 35° | 165  | 168   | 158  | 157   | 132  | 112  |
| 45° | 43   | 54    | 54   | 54    | 44   | 31   |
| 55° | 7    | 7     | 13   | 8     | 7    | 7    |
| 65° | 2    | 2     | 2    | 2     | 2    | 2    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 7875.8 | 7875.8 | 7875.8 | 7875.8 | 7875.8 |
| 2.5°  | 7823.6 | 7818.2 | 7821.3 | 7825.2 | 7826.7 |
| 5°    | 7620.6 | 7613.3 | 7611.8 | 7627.6 | 7621.0 |
| 7.5°  | 7211.2 | 7200.7 | 7184.9 | 7220.8 | 7254.5 |
| 10°   | 6525.2 | 6513.6 | 6479.2 | 6496.2 | 6523.6 |
| 12.5° | 5512.5 | 5474.9 | 5474.2 | 5528.3 | 5521.0 |
| 15°   | 4175.7 | 4125.5 | 4153.3 | 4139.7 | 4132.4 |
| 17.5° | 2808.0 | 2788.7 | 2825.9 | 2814.6 | 2766.3 |
| 20°   | 2020.0 | 2025.0 | 2095.8 | 2060.2 | 2017.3 |
| 22.5° | 1474.0 | 1492.2 | 1576.1 | 1484.5 | 1450.8 |
| 25°   | 981.4  | 1018.5 | 1106.7 | 992.6  | 961.3  |
| 27.5° | 603.6  | 620.6  | 709.9  | 595.9  | 578.9  |
| 30°   | 375.5  | 367.0  | 409.1  | 351.1  | 327.2  |
| 32.5° | 246.3  | 235.5  | 249.0  | 223.5  | 204.1  |
| 35°   | 164.7  | 168.2  | 157.8  | 156.6  | 132.2  |
| 37.5° | 102.8  | 118.3  | 104.4  | 111.4  | 85.1   |
| 40°   | 66.5   | 85.8   | 73.9   | 81.6   | 62.6   |
| 42.5° | 54.5   | 66.1   | 60.7   | 64.6   | 55.7   |
| 45°   | 43.3   | 53.7   | 53.7   | 53.7   | 43.7   |
| 47.5° | 23.9   | 36.0   | 46.0   | 36.7   | 25.5   |
| 50°   | 13.5   | 18.2   | 35.6   | 19.0   | 14.3   |
| 52.5° | 9.3    | 10.4   | 24.4   | 10.8   | 9.7    |
| 55°   | 6.9    | 7.3    | 13.1   | 7.7    | 7.3    |
| 57.5° | 5.4    | 5.8    | 6.9    | 5.8    | 5.4    |
| 60°   | 4.2    | 4.2    | 5.0    | 4.6    | 4.2    |
| 62.5° | 3.1    | 3.1    | 3.5    | 3.1    | 3.1    |
| 65°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 67.5° | 1.1    | 1.5    | 1.5    | 1.5    | 1.5    |
| 70°   | 1.1    | 0.7    | 0.7    | 0.7    | 1.1    |
| 72.5° | 0.7    | 0.4    | 0.4    | 0.4    | 0.4    |
| 75°   | 0.0    | 0.0    | 0.4    | 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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Peachtree City, GA 30269

Scaled Data Report







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

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Scaled Data Report



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