

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: P756178

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756178  
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: LD4D95BD010-EU4DR3070959050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9640.6 lumens  
Efficiency: N/A  
Efficacy: 97.2 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): 99.2  
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

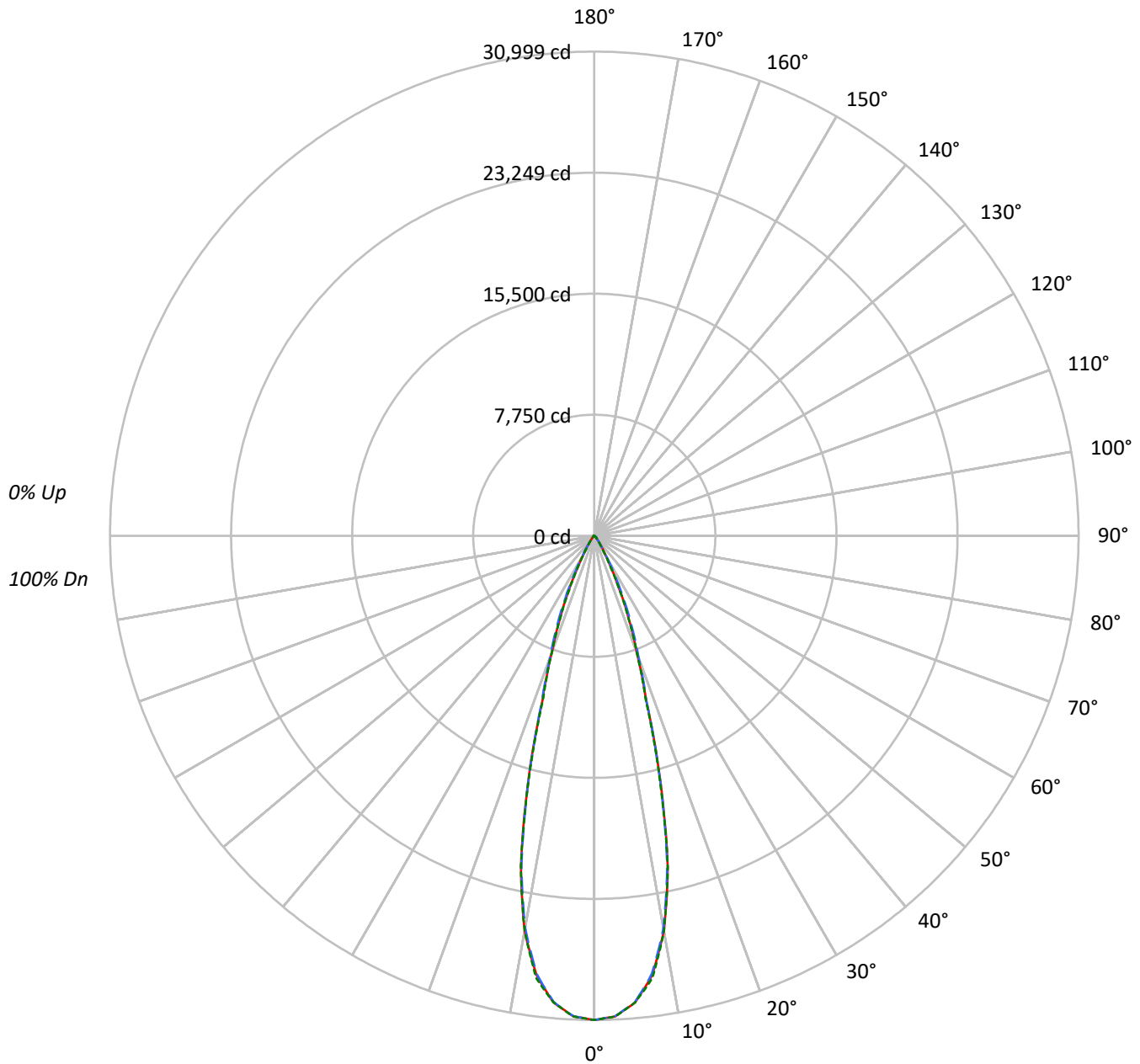


Downlight

TEST NUMBER: P756178

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 2372792 | 2372792 | 2372792 |
| 5°  | 2304674 | 2301985 | 2304789 |
| 10° | 1996198 | 1982123 | 1995724 |
| 15° | 1302415 | 1295426 | 1288912 |
| 20° | 647630  | 671929  | 646767  |
| 25° | 326229  | 367875  | 319549  |
| 30° | 130615  | 142317  | 113804  |
| 35° | 60588   | 58028   | 48637   |
| 40° | 26159   | 29047   | 24640   |
| 45° | 18456   | 22905   | 18619   |
| 50° | 6347    | 16671   | 6704    |
| 55° | 3657    | 6899    | 3857    |
| 60° | 2557    | 3031    | 2557    |
| 65° | 1648    | 1648    | 1648    |
| 70° | 1029    | 671     | 1029    |
| 75° | 0       | 444     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22905 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2725.9 | 28.3      |
| 10°-20°   | 4390.1 | 45.5      |
| 20°-30°   | 1897.1 | 19.7      |
| 30°-40°   | 432.4  | 4.5       |
| 40°-50°   | 148.5  | 1.5       |
| 50°-60°   | 36.3   | 0.4       |
| 60°-70°   | 9.4    | 0.1       |
| 70°-80°   | 1.0    | 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°    | 9013.1 | 93.5      |
| 0°-40°    | 9445.5 | 98.0      |
| 0°-60°    | 9630.2 | 99.9      |
| 0°-90°    | 9640.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9640.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 30999 | 30999 | 30999 | 30999 | 30999 |      |
| 5°  | 29995 | 29966 | 29960 | 30022 | 29996 | 2728 |
| 15° | 16436 | 16238 | 16347 | 16294 | 16265 | 4401 |
| 25° | 3863  | 4009  | 4356  | 3907  | 3784  | 1849 |
| 35° | 648   | 662   | 621   | 616   | 520   | 440  |
| 45° | 170   | 212   | 212   | 212   | 172   | 121  |
| 55° | 27    | 29    | 52    | 30    | 29    | 27   |
| 65° | 9     | 9     | 9     | 9     | 9     | 9    |
| 75° | 0     | 0     | 2     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 30999.3 | 30999.3 | 30999.3 | 30999.3 | 30999.3 |
| 2.5°  | 30793.8 | 30772.5 | 30784.7 | 30799.9 | 30806.0 |
| 5°    | 29994.8 | 29965.9 | 29959.8 | 30022.2 | 29996.3 |
| 7.5°  | 28383.0 | 28341.9 | 28279.5 | 28421.1 | 28553.5 |
| 10°   | 25683.1 | 25637.4 | 25502.0 | 25568.9 | 25677.0 |
| 12.5° | 21697.1 | 21549.4 | 21546.4 | 21759.5 | 21730.5 |
| 15°   | 16435.6 | 16237.8 | 16347.4 | 16294.1 | 16265.2 |
| 17.5° | 11052.5 | 10976.4 | 11122.5 | 11078.3 | 10888.1 |
| 20°   | 7950.7  | 7970.5  | 8249.0  | 8109.0  | 7940.1  |
| 22.5° | 5801.7  | 5873.2  | 6203.5  | 5842.8  | 5710.4  |
| 25°   | 3862.7  | 4008.8  | 4355.8  | 3906.9  | 3783.6  |
| 27.5° | 2375.8  | 2442.7  | 2794.3  | 2345.3  | 2278.4  |
| 30°   | 1477.8  | 1444.3  | 1610.2  | 1381.9  | 1287.6  |
| 32.5° | 969.5   | 926.9   | 980.1   | 879.7   | 803.6   |
| 35°   | 648.4   | 662.1   | 621.0   | 616.4   | 520.5   |
| 37.5° | 404.8   | 465.7   | 410.9   | 438.3   | 334.8   |
| 40°   | 261.8   | 337.9   | 290.7   | 321.1   | 246.6   |
| 42.5° | 214.6   | 260.3   | 238.9   | 254.2   | 219.2   |
| 45°   | 170.5   | 211.6   | 211.6   | 211.6   | 172.0   |
| 47.5° | 94.4    | 141.5   | 181.1   | 144.6   | 100.4   |
| 50°   | 53.3    | 71.5    | 140.0   | 74.6    | 56.3    |
| 52.5° | 36.5    | 41.1    | 95.9    | 42.6    | 38.0    |
| 55°   | 27.4    | 28.9    | 51.7    | 30.4    | 28.9    |
| 57.5° | 21.3    | 22.8    | 27.4    | 22.8    | 21.3    |
| 60°   | 16.7    | 16.7    | 19.8    | 18.3    | 16.7    |
| 62.5° | 12.2    | 12.2    | 13.7    | 12.2    | 12.2    |
| 65°   | 9.1     | 9.1     | 9.1     | 9.1     | 9.1     |
| 67.5° | 4.6     | 6.1     | 6.1     | 6.1     | 6.1     |
| 70°   | 4.6     | 3.0     | 3.0     | 3.0     | 4.6     |
| 72.5° | 3.0     | 1.5     | 1.5     | 1.5     | 1.5     |
| 75°   | 0.0     | 0.0     | 1.5     | 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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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)