

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: P756127

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756127  
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-EU4DR3070959027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9223.1 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

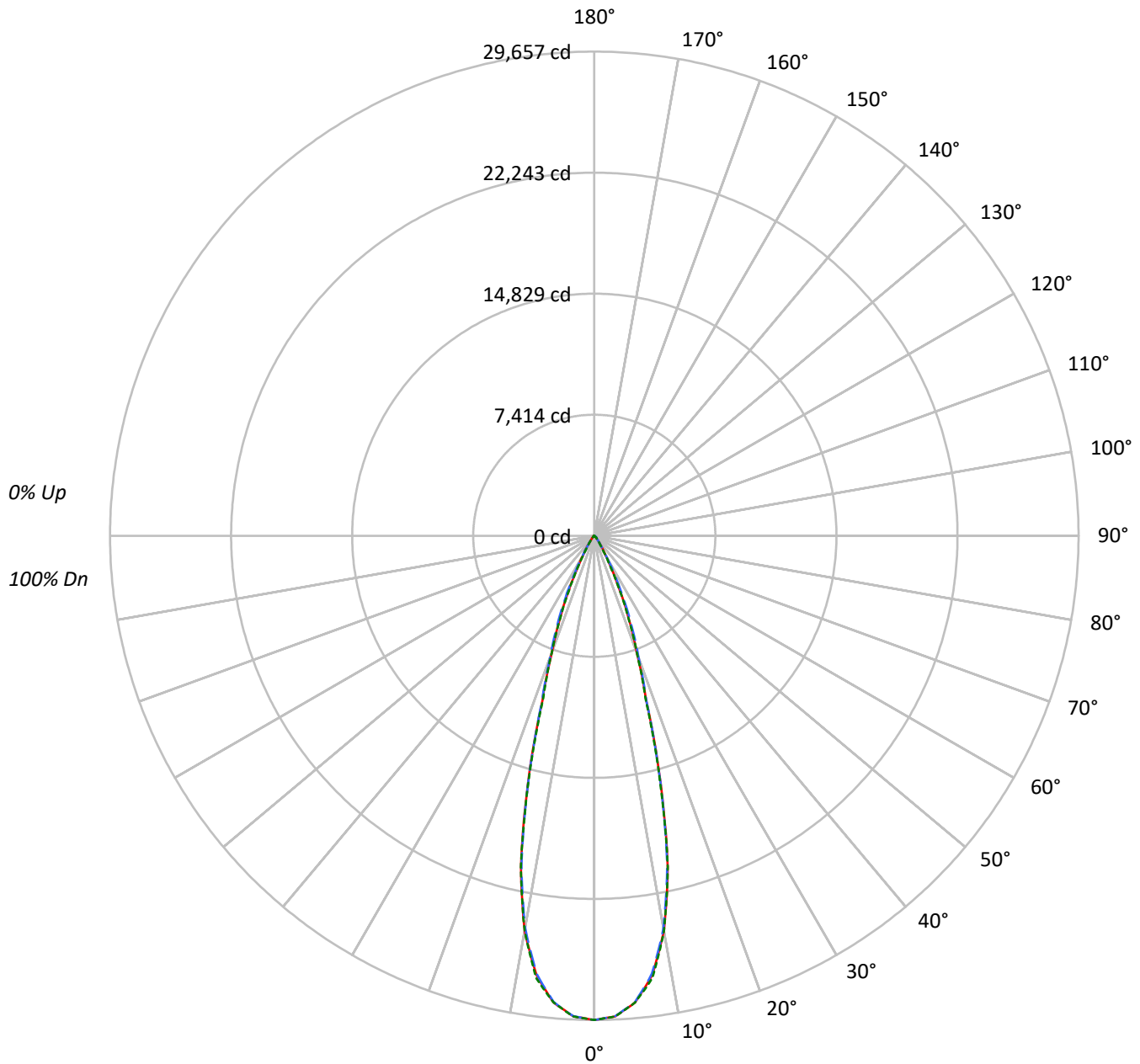


Downlight

TEST NUMBER: P756127

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

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2270040 | 2270040 | 2270040 |
| 5°  | 2204872 | 2202298 | 2204979 |
| 10° | 1909754 | 1896284 | 1909303 |
| 15° | 1246018 | 1239330 | 1233093 |
| 20° | 619585  | 642833  | 618754  |
| 25° | 312108  | 351946  | 305706  |
| 30° | 124958  | 136157  | 108872  |
| 35° | 57962   | 55514   | 46534   |
| 40° | 25020   | 27788   | 23571   |
| 45° | 17655   | 21910   | 17807   |
| 50° | 6073    | 15957   | 6418    |
| 55° | 3496    | 6606    | 3697    |
| 60° | 2449    | 2893    | 2449    |
| 65° | 1576    | 1576    | 1576    |
| 70° | 985     | 649     | 985     |
| 75° | 0       | 444     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21910 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2607.9 | 28.3      |
| 10°-20°   | 4200.0 | 45.5      |
| 20°-30°   | 1814.9 | 19.7      |
| 30°-40°   | 413.7  | 4.5       |
| 40°-50°   | 142.0  | 1.5       |
| 50°-60°   | 34.7   | 0.4       |
| 60°-70°   | 9.0    | 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°    | 8622.8 | 93.5      |
| 0°-40°    | 9036.5 | 98.0      |
| 0°-60°    | 9213.2 | 99.9      |
| 0°-90°    | 9223.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9223.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 29657 | 29657 | 29657 | 29657 | 29657 |      |
| 5°  | 28696 | 28668 | 28662 | 28722 | 28697 | 2610 |
| 15° | 15724 | 15535 | 15640 | 15588 | 15561 | 4210 |
| 25° | 3696  | 3835  | 4167  | 3738  | 3620  | 1769 |
| 35° | 620   | 633   | 594   | 590   | 498   | 421  |
| 45° | 163   | 202   | 202   | 202   | 164   | 116  |
| 55° | 26    | 28    | 50    | 29    | 28    | 26   |
| 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°    | 29656.9 | 29656.9 | 29656.9 | 29656.9 | 29656.9 |
| 2.5°  | 29460.3 | 29439.9 | 29451.6 | 29466.1 | 29472.0 |
| 5°    | 28695.9 | 28668.2 | 28662.4 | 28722.1 | 28697.3 |
| 7.5°  | 27153.9 | 27114.6 | 27054.9 | 27190.3 | 27317.0 |
| 10°   | 24570.9 | 24527.2 | 24397.6 | 24461.7 | 24565.1 |
| 12.5° | 20757.5 | 20616.2 | 20613.3 | 20817.2 | 20789.5 |
| 15°   | 15723.9 | 15534.6 | 15639.5 | 15588.5 | 15560.8 |
| 17.5° | 10573.9 | 10501.1 | 10640.8 | 10598.6 | 10416.6 |
| 20°   | 7606.4  | 7625.3  | 7891.8  | 7757.8  | 7596.2  |
| 22.5° | 5550.5  | 5618.9  | 5934.9  | 5589.8  | 5463.1  |
| 25°   | 3695.5  | 3835.2  | 4167.2  | 3737.7  | 3619.7  |
| 27.5° | 2272.9  | 2337.0  | 2673.3  | 2243.8  | 2179.7  |
| 30°   | 1413.8  | 1381.8  | 1540.5  | 1322.1  | 1231.8  |
| 32.5° | 927.5   | 886.7   | 937.7   | 841.6   | 768.8   |
| 35°   | 620.3   | 633.4   | 594.1   | 589.7   | 498.0   |
| 37.5° | 387.3   | 445.6   | 393.1   | 419.3   | 320.3   |
| 40°   | 250.4   | 323.2   | 278.1   | 307.2   | 235.9   |
| 42.5° | 205.3   | 249.0   | 228.6   | 243.2   | 209.7   |
| 45°   | 163.1   | 202.4   | 202.4   | 202.4   | 164.5   |
| 47.5° | 90.3    | 135.4   | 173.3   | 138.3   | 96.1    |
| 50°   | 51.0    | 68.4    | 134.0   | 71.3    | 53.9    |
| 52.5° | 34.9    | 39.3    | 91.7    | 40.8    | 36.4    |
| 55°   | 26.2    | 27.7    | 49.5    | 29.1    | 27.7    |
| 57.5° | 20.4    | 21.8    | 26.2    | 21.8    | 20.4    |
| 60°   | 16.0    | 16.0    | 18.9    | 17.5    | 16.0    |
| 62.5° | 11.6    | 11.6    | 13.1    | 11.6    | 11.6    |
| 65°   | 8.7     | 8.7     | 8.7     | 8.7     | 8.7     |
| 67.5° | 4.4     | 5.8     | 5.8     | 5.8     | 5.8     |
| 70°   | 4.4     | 2.9     | 2.9     | 2.9     | 4.4     |
| 72.5° | 2.9     | 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)