

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: P756128

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756128  
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-EU4DR3070959027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8349.6 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

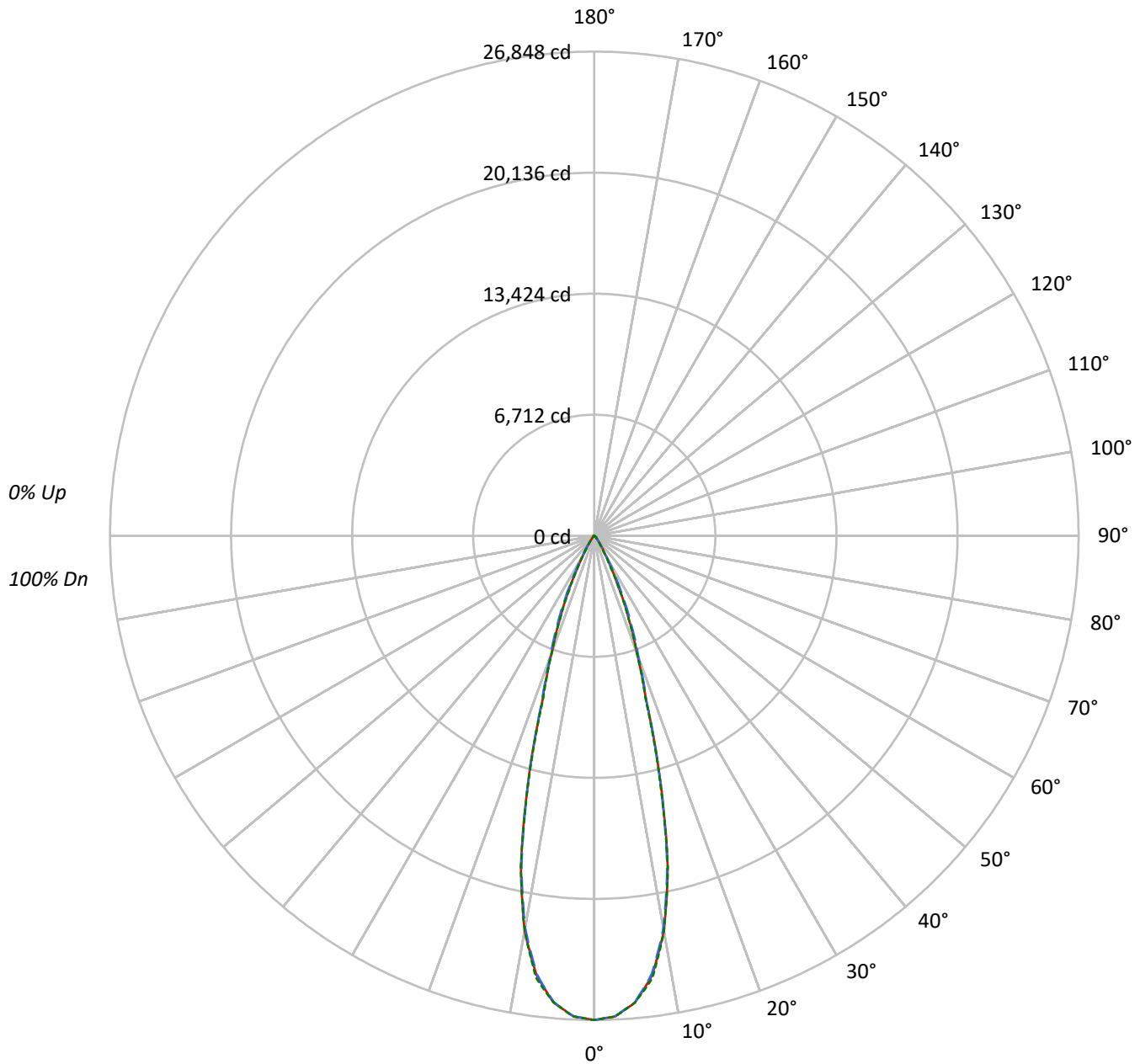


Downlight

TEST NUMBER: P756128

CATALOG NUMBER: LD4D95BD010-EU4DR3070959027-4LBS1MW

### 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°  | 2055037 | 2055037 | 2055037 |
| 5°  | 1996040 | 1993712 | 1996140 |
| 10° | 1728874 | 1716679 | 1728462 |
| 15° | 1128008 | 1121946 | 1116304 |
| 20° | 560905  | 581945  | 560155  |
| 25° | 282549  | 318611  | 276755  |
| 30° | 113124  | 123261  | 98567   |
| 35° | 52468   | 50253   | 42124   |
| 40° | 22652   | 25160   | 21333   |
| 45° | 15978   | 19831   | 16129   |
| 50° | 5490    | 14444   | 5811    |
| 55° | 3163    | 5979    | 3336    |
| 60° | 2220    | 2618    | 2220    |
| 65° | 1431    | 1431    | 1431    |
| 70° | 895     | 582     | 895     |
| 75° | 0       | 384     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19831 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2360.9 | 28.3      |
| 10°-20°   | 3802.2 | 45.5      |
| 20°-30°   | 1643.0 | 19.7      |
| 30°-40°   | 374.5  | 4.5       |
| 40°-50°   | 128.6  | 1.5       |
| 50°-60°   | 31.4   | 0.4       |
| 60°-70°   | 8.1    | 0.1       |
| 70°-80°   | 0.9    | 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°    | 7806.1 | 93.5      |
| 0°-40°    | 8180.6 | 98.0      |
| 0°-60°    | 8340.6 | 99.9      |
| 0°-90°    | 8349.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8349.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 26848 | 26848 | 26848 | 26848 | 26848 |      |
| 5°  | 25978 | 25953 | 25948 | 26002 | 25979 | 2363 |
| 15° | 14235 | 14063 | 14158 | 14112 | 14087 | 3812 |
| 25° | 3346  | 3472  | 3772  | 3384  | 3277  | 1601 |
| 35° | 562   | 573   | 538   | 534   | 451   | 381  |
| 45° | 148   | 183   | 183   | 183   | 149   | 105  |
| 55° | 24    | 25    | 45    | 26    | 25    | 23   |
| 65° | 8     | 8     | 8     | 8     | 8     | 8    |
| 75° | 0     | 0     | 1     | 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°    | 26848.0 | 26848.0 | 26848.0 | 26848.0 | 26848.0 |
| 2.5°  | 26670.0 | 26651.6 | 26662.1 | 26675.3 | 26680.6 |
| 5°    | 25978.0 | 25953.0 | 25947.7 | 26001.7 | 25979.3 |
| 7.5°  | 24582.1 | 24546.5 | 24492.5 | 24615.1 | 24729.7 |
| 10°   | 22243.7 | 22204.2 | 22086.8 | 22144.8 | 22238.4 |
| 12.5° | 18791.5 | 18663.6 | 18661.0 | 18845.5 | 18820.5 |
| 15°   | 14234.7 | 14063.3 | 14158.2 | 14112.1 | 14087.0 |
| 17.5° | 9572.4  | 9506.5  | 9633.0  | 9594.8  | 9430.0  |
| 20°   | 6886.0  | 6903.1  | 7144.3  | 7023.1  | 6876.8  |
| 22.5° | 5024.8  | 5086.7  | 5372.8  | 5060.4  | 4945.7  |
| 25°   | 3345.5  | 3472.0  | 3772.5  | 3383.7  | 3276.9  |
| 27.5° | 2057.6  | 2115.6  | 2420.1  | 2031.3  | 1973.3  |
| 30°   | 1279.9  | 1250.9  | 1394.6  | 1196.9  | 1115.2  |
| 32.5° | 839.7   | 802.8   | 848.9   | 761.9   | 696.0   |
| 35°   | 561.5   | 573.4   | 537.8   | 533.8   | 450.8   |
| 37.5° | 350.6   | 403.4   | 355.9   | 379.6   | 290.0   |
| 40°   | 226.7   | 292.6   | 251.8   | 278.1   | 213.5   |
| 42.5° | 185.9   | 225.4   | 206.9   | 220.1   | 189.8   |
| 45°   | 147.6   | 183.2   | 183.2   | 183.2   | 149.0   |
| 47.5° | 81.7    | 122.6   | 156.9   | 125.2   | 87.0    |
| 50°   | 46.1    | 62.0    | 121.3   | 64.6    | 48.8    |
| 52.5° | 31.6    | 35.6    | 83.0    | 36.9    | 33.0    |
| 55°   | 23.7    | 25.0    | 44.8    | 26.4    | 25.0    |
| 57.5° | 18.5    | 19.8    | 23.7    | 19.8    | 18.5    |
| 60°   | 14.5    | 14.5    | 17.1    | 15.8    | 14.5    |
| 62.5° | 10.5    | 10.5    | 11.9    | 10.5    | 10.5    |
| 65°   | 7.9     | 7.9     | 7.9     | 7.9     | 7.9     |
| 67.5° | 4.0     | 5.3     | 5.3     | 5.3     | 5.3     |
| 70°   | 4.0     | 2.6     | 2.6     | 2.6     | 4.0     |
| 72.5° | 2.6     | 1.3     | 1.3     | 1.3     | 1.3     |
| 75°   | 0.0     | 0.0     | 1.3     | 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)