

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: P756180

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756180  
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-EU4DR3070959050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9163.9 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

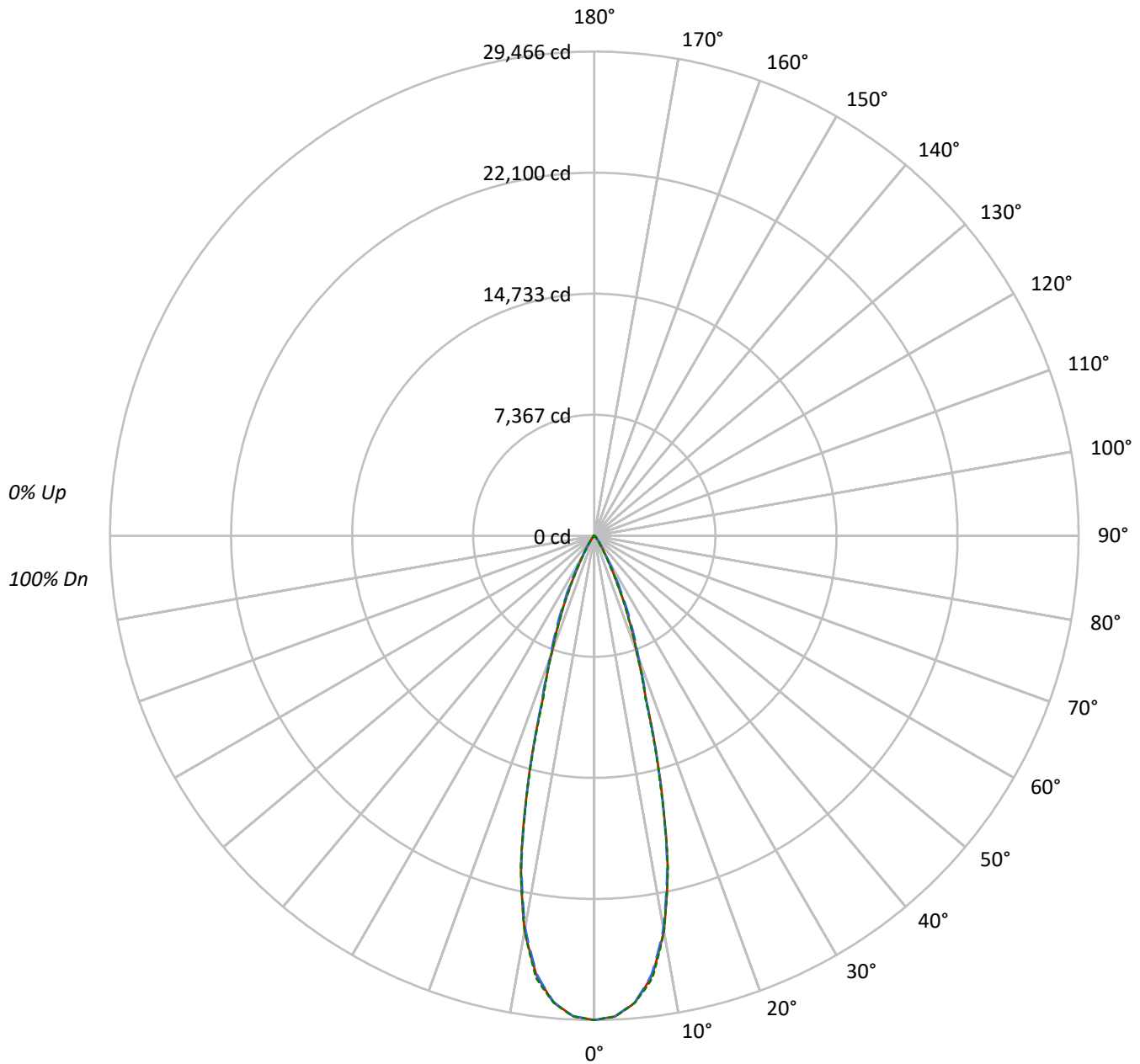


Downlight

TEST NUMBER: P756180

CATALOG NUMBER: LD4D95BD010-EU4DR3070959050-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P756180

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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°  | 2255458 | 2255458 | 2255458 |
| 5°  | 2190711 | 2188152 | 2190819 |
| 10° | 1897489 | 1884105 | 1897038 |
| 15° | 1238014 | 1231366 | 1225177 |
| 20° | 615610  | 638703  | 614779  |
| 25° | 310098  | 349691  | 303747  |
| 30° | 124154  | 135282  | 108174  |
| 35° | 57588   | 55159   | 46235   |
| 40° | 24860   | 27608   | 23421   |
| 45° | 17536   | 21769   | 17699   |
| 50° | 6025    | 15850   | 6371    |
| 55° | 3470    | 6566    | 3670    |
| 60° | 2434    | 2878    | 2434    |
| 65° | 1576    | 1576    | 1576    |
| 70° | 962     | 649     | 962     |
| 75° | 0       | 414     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21769 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2591.1 | 28.3      |
| 10°-20°   | 4173.0 | 45.5      |
| 20°-30°   | 1803.3 | 19.7      |
| 30°-40°   | 411.0  | 4.5       |
| 40°-50°   | 141.1  | 1.5       |
| 50°-60°   | 34.5   | 0.4       |
| 60°-70°   | 8.9    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 8567.4 | 93.5      |
| 0°-40°    | 8978.4 | 98.0      |
| 0°-60°    | 9154.0 | 99.9      |
| 0°-90°    | 9163.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9163.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 29466 | 29466 | 29466 | 29466 | 29466 |      |
| 5°  | 28512 | 28484 | 28478 | 28538 | 28513 | 2593 |
| 15° | 15623 | 15435 | 15539 | 15488 | 15461 | 4183 |
| 25° | 3672  | 3811  | 4140  | 3714  | 3596  | 1758 |
| 35° | 616   | 629   | 590   | 586   | 495   | 418  |
| 45° | 162   | 201   | 201   | 201   | 164   | 115  |
| 55° | 26    | 28    | 49    | 29    | 28    | 25   |
| 65° | 9     | 9     | 9     | 9     | 9     | 9    |
| 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°    | 29466.4 | 29466.4 | 29466.4 | 29466.4 | 29466.4 |
| 2.5°  | 29271.1 | 29250.8 | 29262.4 | 29276.9 | 29282.7 |
| 5°    | 28511.6 | 28484.1 | 28478.3 | 28537.6 | 28513.0 |
| 7.5°  | 26979.5 | 26940.5 | 26881.2 | 27015.7 | 27141.6 |
| 10°   | 24413.1 | 24369.7 | 24240.9 | 24304.6 | 24407.3 |
| 12.5° | 20624.2 | 20483.8 | 20480.9 | 20683.5 | 20656.0 |
| 15°   | 15622.9 | 15434.9 | 15539.0 | 15488.4 | 15460.9 |
| 17.5° | 10505.9 | 10433.6 | 10572.5 | 10530.5 | 10349.7 |
| 20°   | 7557.6  | 7576.4  | 7841.1  | 7708.0  | 7547.4  |
| 22.5° | 5514.8  | 5582.8  | 5896.8  | 5553.9  | 5428.0  |
| 25°   | 3671.7  | 3810.6  | 4140.5  | 3713.7  | 3596.5  |
| 27.5° | 2258.3  | 2322.0  | 2656.1  | 2229.4  | 2165.7  |
| 30°   | 1404.7  | 1372.9  | 1530.6  | 1313.6  | 1223.9  |
| 32.5° | 921.5   | 881.0   | 931.7   | 836.2   | 763.9   |
| 35°   | 616.3   | 629.3   | 590.3   | 585.9   | 494.8   |
| 37.5° | 384.8   | 442.7   | 390.6   | 416.6   | 318.3   |
| 40°   | 248.8   | 321.2   | 276.3   | 305.3   | 234.4   |
| 42.5° | 204.0   | 247.4   | 227.1   | 241.6   | 208.3   |
| 45°   | 162.0   | 201.1   | 201.1   | 201.1   | 163.5   |
| 47.5° | 89.7    | 134.5   | 172.2   | 137.4   | 95.5    |
| 50°   | 50.6    | 68.0    | 133.1   | 70.9    | 53.5    |
| 52.5° | 34.7    | 39.1    | 91.1    | 40.5    | 36.2    |
| 55°   | 26.0    | 27.5    | 49.2    | 28.9    | 27.5    |
| 57.5° | 20.3    | 21.7    | 26.0    | 21.7    | 20.3    |
| 60°   | 15.9    | 15.9    | 18.8    | 17.4    | 15.9    |
| 62.5° | 11.6    | 11.6    | 13.0    | 11.6    | 11.6    |
| 65°   | 8.7     | 8.7     | 8.7     | 8.7     | 8.7     |
| 67.5° | 4.3     | 5.8     | 5.8     | 5.8     | 5.8     |
| 70°   | 4.3     | 2.9     | 2.9     | 2.9     | 4.3     |
| 72.5° | 2.9     | 1.4     | 1.4     | 1.4     | 1.4     |
| 75°   | 0.0     | 0.0     | 1.4     | 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     |



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







(END OF REPORT)