

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: P756177

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756177  
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-EU4DR3070959050-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9038.8 lumens  
Efficiency: N/A  
Efficacy: 91.1 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 (Ain): 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

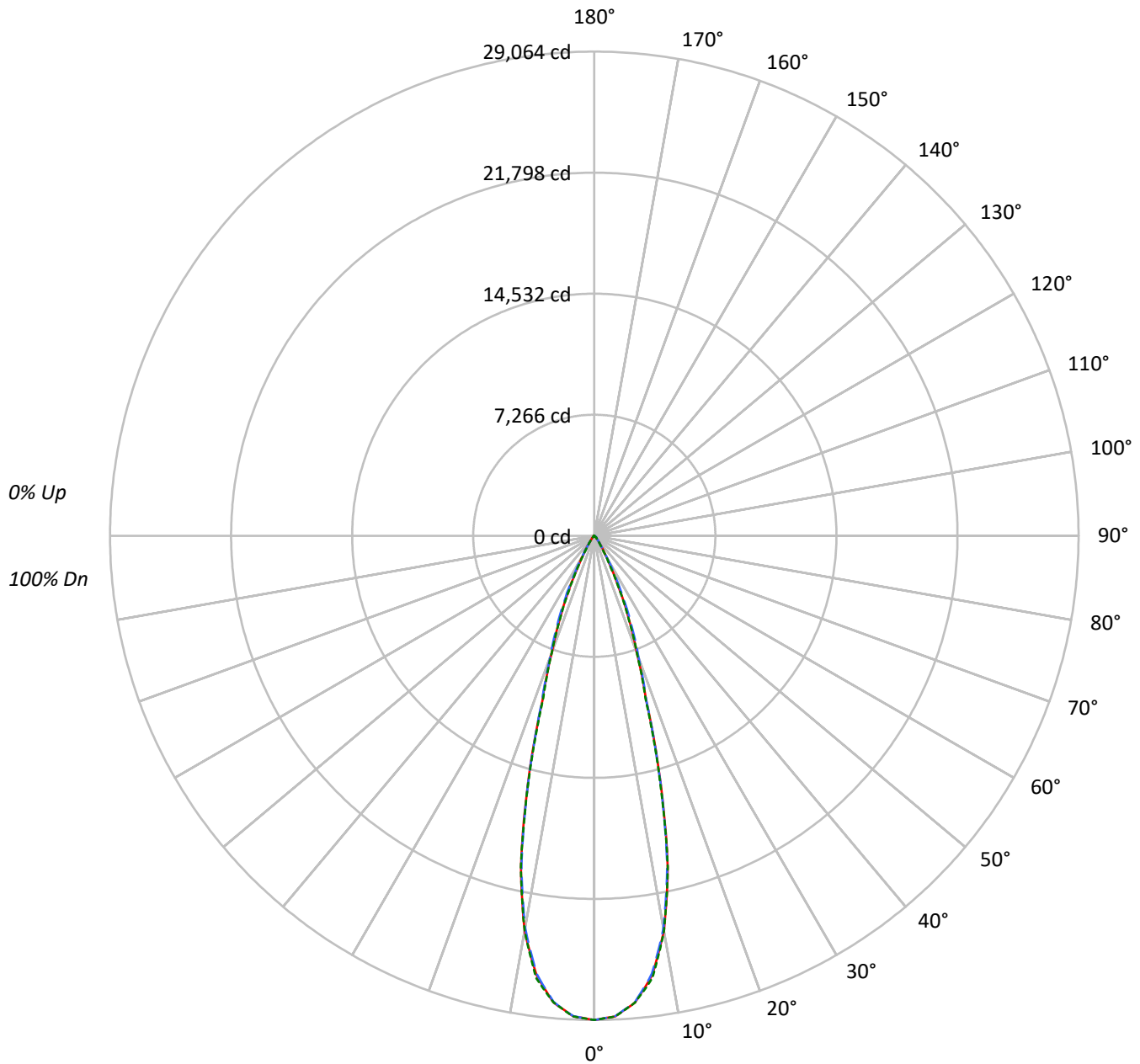


Downlight

TEST NUMBER: P756177

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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  |     |     |     |    | 0  |
| 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°  | 2224680 | 2224680 | 2224680 |
| 5°  | 2160814 | 2158294 | 2160922 |
| 10° | 1871591 | 1858393 | 1871148 |
| 15° | 1221119 | 1214558 | 1208456 |
| 20° | 607204  | 629987  | 606389  |
| 25° | 305867  | 344920  | 299600  |
| 30° | 122466  | 133434  | 106698  |
| 35° | 56804   | 54402   | 45600   |
| 40° | 24520   | 27228   | 23102   |
| 45° | 17298   | 21466   | 17450   |
| 50° | 5942    | 15635   | 6287    |
| 55° | 3430    | 6472    | 3616    |
| 60° | 2403    | 2847    | 2403    |
| 65° | 1558    | 1558    | 1558    |
| 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: 21466 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2555.8 | 28.3      |
| 10°-20°   | 4116.1 | 45.5      |
| 20°-30°   | 1778.7 | 19.7      |
| 30°-40°   | 405.4  | 4.5       |
| 40°-50°   | 139.2  | 1.5       |
| 50°-60°   | 34.0   | 0.4       |
| 60°-70°   | 8.8    | 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°    | 8450.5 | 93.5      |
| 0°-40°    | 8855.9 | 98.0      |
| 0°-60°    | 9029.1 | 99.9      |
| 0°-90°    | 9038.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9038.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 29064 | 29064 | 29064 | 29064 | 29064 |      |
| 5°  | 28122 | 28095 | 28090 | 28148 | 28124 | 2558 |
| 15° | 15410 | 15224 | 15327 | 15277 | 15250 | 4126 |
| 25° | 3622  | 3759  | 4084  | 3663  | 3547  | 1734 |
| 35° | 608   | 621   | 582   | 578   | 488   | 412  |
| 45° | 160   | 198   | 198   | 198   | 161   | 113  |
| 55° | 26    | 27    | 48    | 28    | 27    | 25   |
| 65° | 9     | 9     | 9     | 9     | 9     | 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°    | 29064.3 | 29064.3 | 29064.3 | 29064.3 | 29064.3 |
| 2.5°  | 28871.6 | 28851.6 | 28863.1 | 28877.3 | 28883.0 |
| 5°    | 28122.5 | 28095.4 | 28089.7 | 28148.2 | 28123.9 |
| 7.5°  | 26611.3 | 26572.8 | 26514.3 | 26647.0 | 26771.1 |
| 10°   | 24079.9 | 24037.1 | 23910.1 | 23972.9 | 24074.2 |
| 12.5° | 20342.7 | 20204.3 | 20201.4 | 20401.2 | 20374.1 |
| 15°   | 15409.7 | 15224.2 | 15326.9 | 15277.0 | 15249.9 |
| 17.5° | 10362.6 | 10291.2 | 10428.2 | 10386.8 | 10208.5 |
| 20°   | 7454.4  | 7473.0  | 7734.1  | 7602.8  | 7444.4  |
| 22.5° | 5439.6  | 5506.6  | 5816.3  | 5478.1  | 5353.9  |
| 25°   | 3621.6  | 3758.6  | 4084.0  | 3663.0  | 3547.4  |
| 27.5° | 2227.5  | 2290.3  | 2619.9  | 2198.9  | 2136.2  |
| 30°   | 1385.6  | 1354.2  | 1509.7  | 1295.7  | 1207.2  |
| 32.5° | 909.0   | 869.0   | 919.0   | 824.8   | 753.4   |
| 35°   | 607.9   | 620.7   | 582.2   | 577.9   | 488.0   |
| 37.5° | 379.6   | 436.6   | 385.3   | 411.0   | 313.9   |
| 40°   | 245.4   | 316.8   | 272.5   | 301.1   | 231.2   |
| 42.5° | 201.2   | 244.0   | 224.0   | 238.3   | 205.5   |
| 45°   | 159.8   | 198.3   | 198.3   | 198.3   | 161.2   |
| 47.5° | 88.5    | 132.7   | 169.8   | 135.6   | 94.2    |
| 50°   | 49.9    | 67.1    | 131.3   | 69.9    | 52.8    |
| 52.5° | 34.2    | 38.5    | 89.9    | 40.0    | 35.7    |
| 55°   | 25.7    | 27.1    | 48.5    | 28.5    | 27.1    |
| 57.5° | 20.0    | 21.4    | 25.7    | 21.4    | 20.0    |
| 60°   | 15.7    | 15.7    | 18.6    | 17.1    | 15.7    |
| 62.5° | 11.4    | 11.4    | 12.8    | 11.4    | 11.4    |
| 65°   | 8.6     | 8.6     | 8.6     | 8.6     | 8.6     |
| 67.5° | 4.3     | 5.7     | 5.7     | 5.7     | 5.7     |
| 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)