

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: P756136

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756136  
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-EU4DR3070959030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9026.8 lumens  
Efficiency: N/A  
Efficacy: 91.0 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 (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

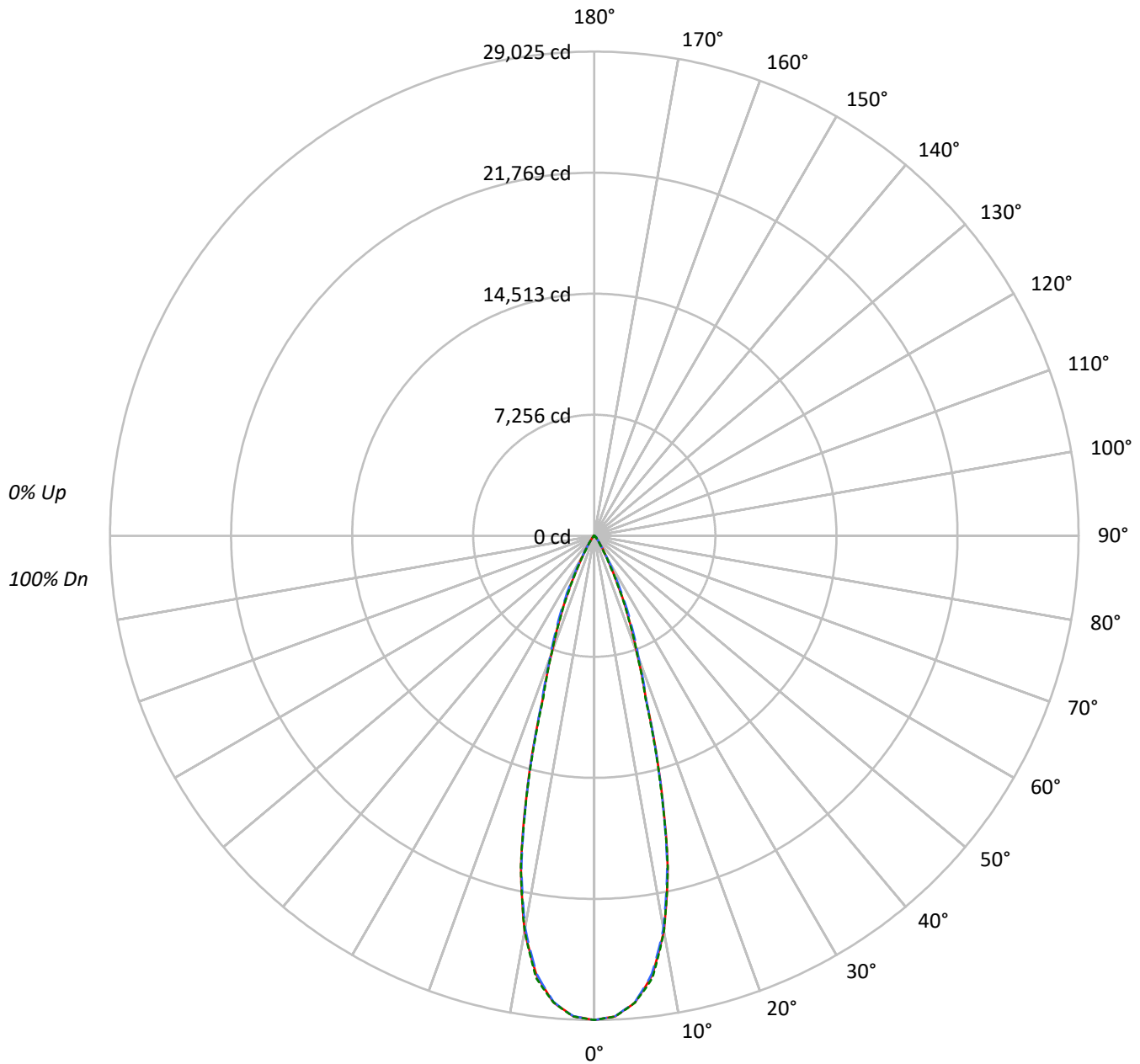


Downlight

TEST NUMBER: P756136

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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  |
| 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°  | 2221703 | 2221703 | 2221703 |
| 5°  | 2157925 | 2155405 | 2158033 |
| 10° | 1869088 | 1855914 | 1868645 |
| 15° | 1219487 | 1212941 | 1206840 |
| 20° | 606398  | 629148  | 605583  |
| 25° | 305462  | 344455  | 299203  |
| 30° | 122298  | 133258  | 106557  |
| 35° | 56729   | 54327   | 45544   |
| 40° | 24490   | 27198   | 23072   |
| 45° | 17276   | 21444   | 17428   |
| 50° | 5942    | 15611   | 6276    |
| 55° | 3430    | 6472    | 3616    |
| 60° | 2403    | 2832    | 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: 21444 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2552.3 | 28.3      |
| 10°-20°   | 4110.6 | 45.5      |
| 20°-30°   | 1776.3 | 19.7      |
| 30°-40°   | 404.9  | 4.5       |
| 40°-50°   | 139.0  | 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°    | 8439.2 | 93.5      |
| 0°-40°    | 8844.1 | 98.0      |
| 0°-60°    | 9017.1 | 99.9      |
| 0°-90°    | 9026.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9026.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 29025 | 29025 | 29025 | 29025 | 29025 |      |
| 5°  | 28085 | 28058 | 28052 | 28111 | 28086 | 2554 |
| 15° | 15389 | 15204 | 15306 | 15257 | 15230 | 4121 |
| 25° | 3617  | 3754  | 4078  | 3658  | 3543  | 1731 |
| 35° | 607   | 620   | 581   | 577   | 487   | 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°    | 29025.4 | 29025.4 | 29025.4 | 29025.4 | 29025.4 |
| 2.5°  | 28833.1 | 28813.1 | 28824.5 | 28838.8 | 28844.5 |
| 5°    | 28084.9 | 28057.8 | 28052.1 | 28110.6 | 28086.3 |
| 7.5°  | 26575.8 | 26537.3 | 26478.9 | 26611.4 | 26735.4 |
| 10°   | 24047.7 | 24005.0 | 23878.2 | 23940.9 | 24042.0 |
| 12.5° | 20315.5 | 20177.3 | 20174.5 | 20374.0 | 20346.9 |
| 15°   | 15389.1 | 15203.9 | 15306.5 | 15256.6 | 15229.5 |
| 17.5° | 10348.7 | 10277.5 | 10414.3 | 10372.9 | 10194.8 |
| 20°   | 7444.5  | 7463.0  | 7723.8  | 7592.7  | 7434.5  |
| 22.5° | 5432.3  | 5499.3  | 5808.5  | 5470.8  | 5346.8  |
| 25°   | 3616.8  | 3753.6  | 4078.5  | 3658.1  | 3542.7  |
| 27.5° | 2224.5  | 2287.2  | 2616.4  | 2196.0  | 2133.3  |
| 30°   | 1383.7  | 1352.4  | 1507.7  | 1293.9  | 1205.6  |
| 32.5° | 907.8   | 867.9   | 917.7   | 823.7   | 752.4   |
| 35°   | 607.1   | 619.9   | 581.4   | 577.1   | 487.4   |
| 37.5° | 379.1   | 436.1   | 384.8   | 410.4   | 313.5   |
| 40°   | 245.1   | 316.4   | 272.2   | 300.7   | 230.9   |
| 42.5° | 200.9   | 243.7   | 223.7   | 238.0   | 205.2   |
| 45°   | 159.6   | 198.1   | 198.1   | 198.1   | 161.0   |
| 47.5° | 88.4    | 132.5   | 169.6   | 135.4   | 94.1    |
| 50°   | 49.9    | 67.0    | 131.1   | 69.8    | 52.7    |
| 52.5° | 34.2    | 38.5    | 89.8    | 39.9    | 35.6    |
| 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    | 18.5    | 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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Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

## Scaled Data Report





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







(END OF REPORT)