

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: P753018

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753018  
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: LD4D75BD010-EU4DR3070959030-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6909.3 lumens  
Efficiency: N/A  
Efficacy: 95.4 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): 72.4  
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

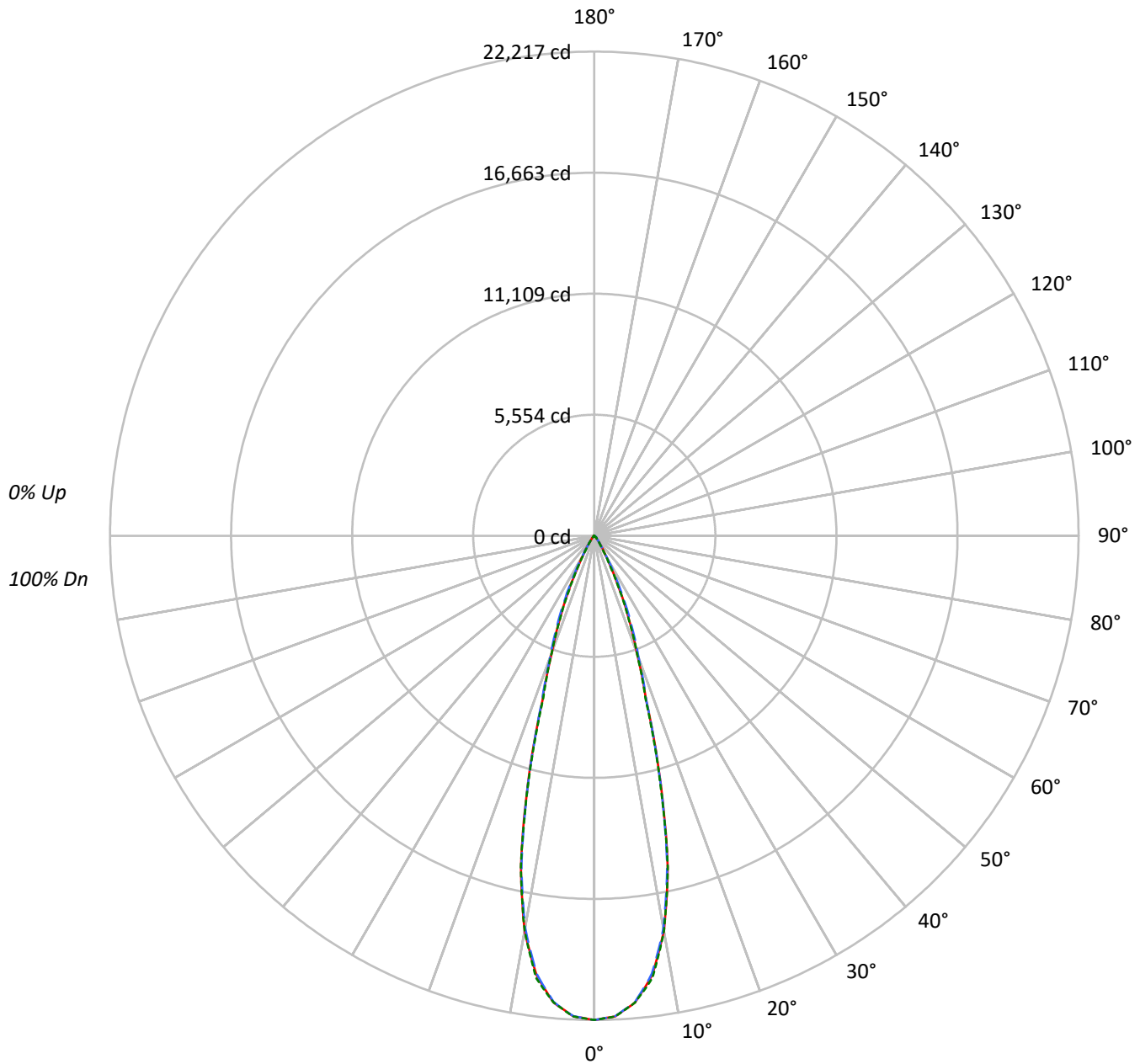


Downlight

TEST NUMBER: P753018

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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  |  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 100 |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 |  | 106 | 105 | 104 |  |  | 103 | 102 | 101 |  |  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 |  | 102 | 100 | 98  |  |  | 99  | 97  | 96  |  |  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  |  | 98  | 95  | 93  |  |  | 96  | 93  | 91  |  |  | 89  |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  |  | 94  | 91  | 89  |  |  | 93  | 90  | 88  |  |  | 85  |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  |  | 91  | 88  | 85  |  |  | 90  | 86  | 84  |  |  | 82  |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  |  | 88  | 84  | 81  |  |  | 87  | 83  | 81  |  |  | 79  |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  |  | 85  | 81  | 78  |  |  | 84  | 81  | 78  |  |  | 77  |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  |  | 82  | 78  | 76  |  |  | 81  | 78  | 75  |  |  | 74  |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  |  | 80  | 76  | 73  |  |  | 79  | 75  | 73  |  |  | 72  |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  |  | 77  | 73  | 71  |  |  | 76  | 73  | 71  |  |  | 69  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1700549 | 1700549 | 1700549 |
| 5°  | 1651731 | 1649802 | 1651816 |
| 10° | 1430654 | 1420565 | 1430312 |
| 15° | 933426  | 928417  | 923750  |
| 20° | 464151  | 481567  | 463532  |
| 25° | 233809  | 263656  | 229020  |
| 30° | 93608   | 101996  | 81561   |
| 35° | 43423   | 41582   | 34854   |
| 40° | 18745   | 20813   | 17656   |
| 45° | 13228   | 16411   | 13347   |
| 50° | 4549    | 11956   | 4811    |
| 55° | 2616    | 4951    | 2762    |
| 60° | 1837    | 2174    | 1837    |
| 65° | 1177    | 1177    | 1177    |
| 70° | 739     | 492     | 739     |
| 75° | 0       | 325     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16411 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1953.6 | 28.3      |
| 10°-20°   | 3146.3 | 45.5      |
| 20°-30°   | 1359.6 | 19.7      |
| 30°-40°   | 309.9  | 4.5       |
| 40°-50°   | 106.4  | 1.5       |
| 50°-60°   | 26.0   | 0.4       |
| 60°-70°   | 6.7    | 0.1       |
| 70°-80°   | 0.7    | 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°    | 6459.6 | 93.5      |
| 0°-40°    | 6769.5 | 98.0      |
| 0°-60°    | 6901.9 | 99.9      |
| 0°-90°    | 6909.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6909.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 22217 | 22217 | 22217 | 22217 | 22217 |      |
| 5°  | 21497 | 21476 | 21472 | 21517 | 21498 | 1955 |
| 15° | 11779 | 11637 | 11716 | 11678 | 11657 | 3154 |
| 25° | 2768  | 2873  | 3122  | 2800  | 2712  | 1325 |
| 35° | 465   | 474   | 445   | 442   | 373   | 315  |
| 45° | 122   | 152   | 152   | 152   | 123   | 87   |
| 55° | 20    | 21    | 37    | 22    | 21    | 19   |
| 65° | 6     | 6     | 6     | 6     | 6     | 6    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

TEST NUMBER: P753018

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 22216.8 | 22216.8 | 22216.8 | 22216.8 | 22216.8 |
| 2.5°  | 22069.6 | 22054.3 | 22063.0 | 22073.9 | 22078.3 |
| 5°    | 21496.9 | 21476.2 | 21471.8 | 21516.6 | 21498.0 |
| 7.5°  | 20341.8 | 20312.4 | 20267.6 | 20369.1 | 20464.0 |
| 10°   | 18406.8 | 18374.0 | 18277.0 | 18325.0 | 18402.4 |
| 12.5° | 15550.0 | 15444.2 | 15442.1 | 15594.8 | 15574.0 |
| 15°   | 11779.2 | 11637.4 | 11716.0 | 11677.8 | 11657.1 |
| 17.5° | 7921.2  | 7866.6  | 7971.4  | 7939.7  | 7803.4  |
| 20°   | 5698.2  | 5712.4  | 5912.0  | 5811.6  | 5690.6  |
| 22.5° | 4158.0  | 4209.3  | 4446.0  | 4187.5  | 4092.6  |
| 25°   | 2768.4  | 2873.1  | 3121.8  | 2800.0  | 2711.7  |
| 27.5° | 1702.7  | 1750.7  | 2002.7  | 1680.9  | 1632.9  |
| 30°   | 1059.1  | 1035.1  | 1154.0  | 990.4   | 922.8   |
| 32.5° | 694.8   | 664.3   | 702.5   | 630.5   | 575.9   |
| 35°   | 464.7   | 474.5   | 445.0   | 441.8   | 373.0   |
| 37.5° | 290.1   | 333.8   | 294.5   | 314.1   | 240.0   |
| 40°   | 187.6   | 242.2   | 208.3   | 230.2   | 176.7   |
| 42.5° | 153.8   | 186.5   | 171.3   | 182.2   | 157.1   |
| 45°   | 122.2   | 151.6   | 151.6   | 151.6   | 123.3   |
| 47.5° | 67.6    | 101.4   | 129.8   | 103.6   | 72.0    |
| 50°   | 38.2    | 51.3    | 100.4   | 53.4    | 40.4    |
| 52.5° | 26.2    | 29.5    | 68.7    | 30.5    | 27.3    |
| 55°   | 19.6    | 20.7    | 37.1    | 21.8    | 20.7    |
| 57.5° | 15.3    | 16.4    | 19.6    | 16.4    | 15.3    |
| 60°   | 12.0    | 12.0    | 14.2    | 13.1    | 12.0    |
| 62.5° | 8.7     | 8.7     | 9.8     | 8.7     | 8.7     |
| 65°   | 6.5     | 6.5     | 6.5     | 6.5     | 6.5     |
| 67.5° | 3.3     | 4.4     | 4.4     | 4.4     | 4.4     |
| 70°   | 3.3     | 2.2     | 2.2     | 2.2     | 3.3     |
| 72.5° | 2.2     | 1.1     | 1.1     | 1.1     | 1.1     |
| 75°   | 0.0     | 0.0     | 1.1     | 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)