

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: P752213

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752213  
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: LD4D70BD010-EU4DR3070959024-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5974.5 lumens  
Efficiency: N/A  
Efficacy: 89.7 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): 66.6  
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

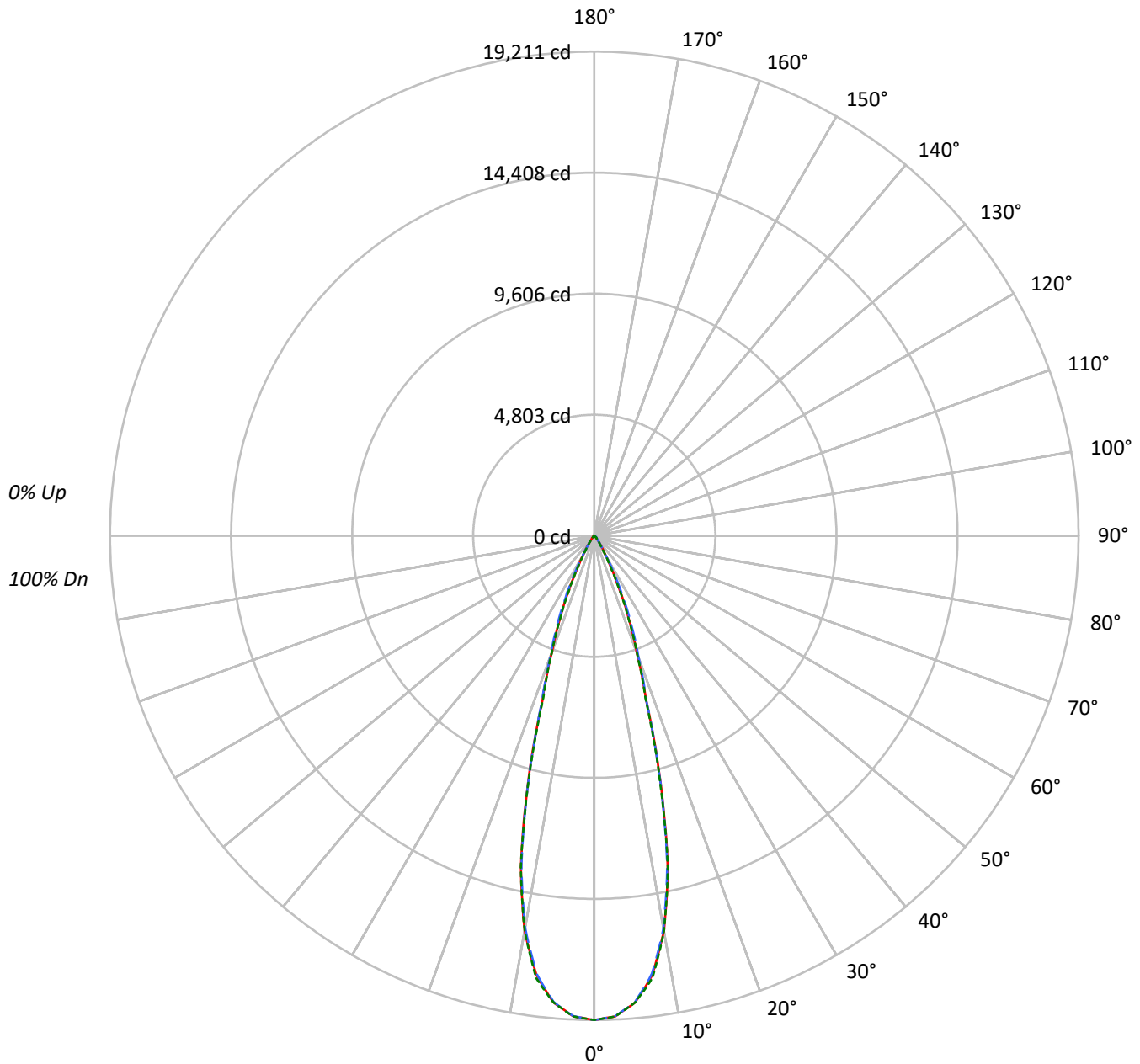


Downlight

TEST NUMBER: P752213

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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  |     |     |     | 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°  | 1470483 | 1470483 | 1470483 |
| 5°  | 1428270 | 1426602 | 1428339 |
| 10° | 1237097 | 1228377 | 1236802 |
| 15° | 807143  | 802809  | 798775  |
| 20° | 401357  | 416410  | 400819  |
| 25° | 202171  | 227981  | 198033  |
| 30° | 80943   | 88199   | 70522   |
| 35° | 37545   | 35957   | 30144   |
| 40° | 16207   | 18006   | 15268   |
| 45° | 11431   | 14191   | 11539   |
| 50° | 3930    | 10336   | 4156    |
| 55° | 2269    | 4284    | 2389    |
| 60° | 1592    | 1883    | 1592    |
| 65° | 1032    | 1032    | 1032    |
| 70° | 627     | 425     | 627     |
| 75° | 0       | 266     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14191 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1689.3 | 28.3      |
| 10°-20°   | 2720.7 | 45.5      |
| 20°-30°   | 1175.7 | 19.7      |
| 30°-40°   | 268.0  | 4.5       |
| 40°-50°   | 92.0   | 1.5       |
| 50°-60°   | 22.5   | 0.4       |
| 60°-70°   | 5.8    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 5585.7 | 93.5      |
| 0°-40°    | 5853.6 | 98.0      |
| 0°-60°    | 5968.1 | 99.9      |
| 0°-90°    | 5974.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5974.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 19211 | 19211 | 19211 | 19211 | 19211 |      |
| 5°  | 18589 | 18571 | 18567 | 18606 | 18590 | 1691 |
| 15° | 10186 | 10063 | 10131 | 10098 | 10080 | 2727 |
| 25° | 2394  | 2484  | 2699  | 2421  | 2345  | 1146 |
| 35° | 402   | 410   | 385   | 382   | 323   | 273  |
| 45° | 106   | 131   | 131   | 131   | 107   | 75   |
| 55° | 17    | 18    | 32    | 19    | 18    | 17   |
| 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     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 19211.1 | 19211.1 | 19211.1 | 19211.1 | 19211.1 |
| 2.5°  | 19083.8 | 19070.6 | 19078.1 | 19087.5 | 19091.3 |
| 5°    | 18588.6 | 18570.7 | 18566.9 | 18605.6 | 18589.5 |
| 7.5°  | 17589.7 | 17564.3 | 17525.6 | 17613.3 | 17695.4 |
| 10°   | 15916.5 | 15888.2 | 15804.3 | 15845.8 | 15912.7 |
| 12.5° | 13446.3 | 13354.8 | 13352.9 | 13484.9 | 13467.0 |
| 15°   | 10185.6 | 10063.0 | 10130.9 | 10097.9 | 10080.0 |
| 17.5° | 6849.5  | 6802.4  | 6892.9  | 6865.6  | 6747.7  |
| 20°   | 4927.3  | 4939.5  | 5112.1  | 5025.4  | 4920.7  |
| 22.5° | 3595.5  | 3639.8  | 3844.5  | 3620.9  | 3538.9  |
| 25°   | 2393.8  | 2484.4  | 2699.4  | 2421.2  | 2344.8  |
| 27.5° | 1472.3  | 1513.8  | 1731.7  | 1453.5  | 1412.0  |
| 30°   | 915.8   | 895.1   | 997.9   | 856.4   | 797.9   |
| 32.5° | 600.8   | 574.4   | 607.4   | 545.2   | 498.0   |
| 35°   | 401.8   | 410.3   | 384.8   | 382.0   | 322.6   |
| 37.5° | 250.9   | 288.6   | 254.7   | 271.6   | 207.5   |
| 40°   | 162.2   | 209.4   | 180.2   | 199.0   | 152.8   |
| 42.5° | 133.0   | 161.3   | 148.1   | 157.5   | 135.8   |
| 45°   | 105.6   | 131.1   | 131.1   | 131.1   | 106.6   |
| 47.5° | 58.5    | 87.7    | 112.2   | 89.6    | 62.3    |
| 50°   | 33.0    | 44.3    | 86.8    | 46.2    | 34.9    |
| 52.5° | 22.6    | 25.5    | 59.4    | 26.4    | 23.6    |
| 55°   | 17.0    | 17.9    | 32.1    | 18.9    | 17.9    |
| 57.5° | 13.2    | 14.1    | 17.0    | 14.1    | 13.2    |
| 60°   | 10.4    | 10.4    | 12.3    | 11.3    | 10.4    |
| 62.5° | 7.5     | 7.5     | 8.5     | 7.5     | 7.5     |
| 65°   | 5.7     | 5.7     | 5.7     | 5.7     | 5.7     |
| 67.5° | 2.8     | 3.8     | 3.8     | 3.8     | 3.8     |
| 70°   | 2.8     | 1.9     | 1.9     | 1.9     | 2.8     |
| 72.5° | 1.9     | 0.9     | 0.9     | 0.9     | 0.9     |
| 75°   | 0.0     | 0.0     | 0.9     | 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)