

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: P752214

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752214  
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-EU4DR3070959024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW 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: 6273.3 lumens  
Efficiency: N/A  
Efficacy: 94.2 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

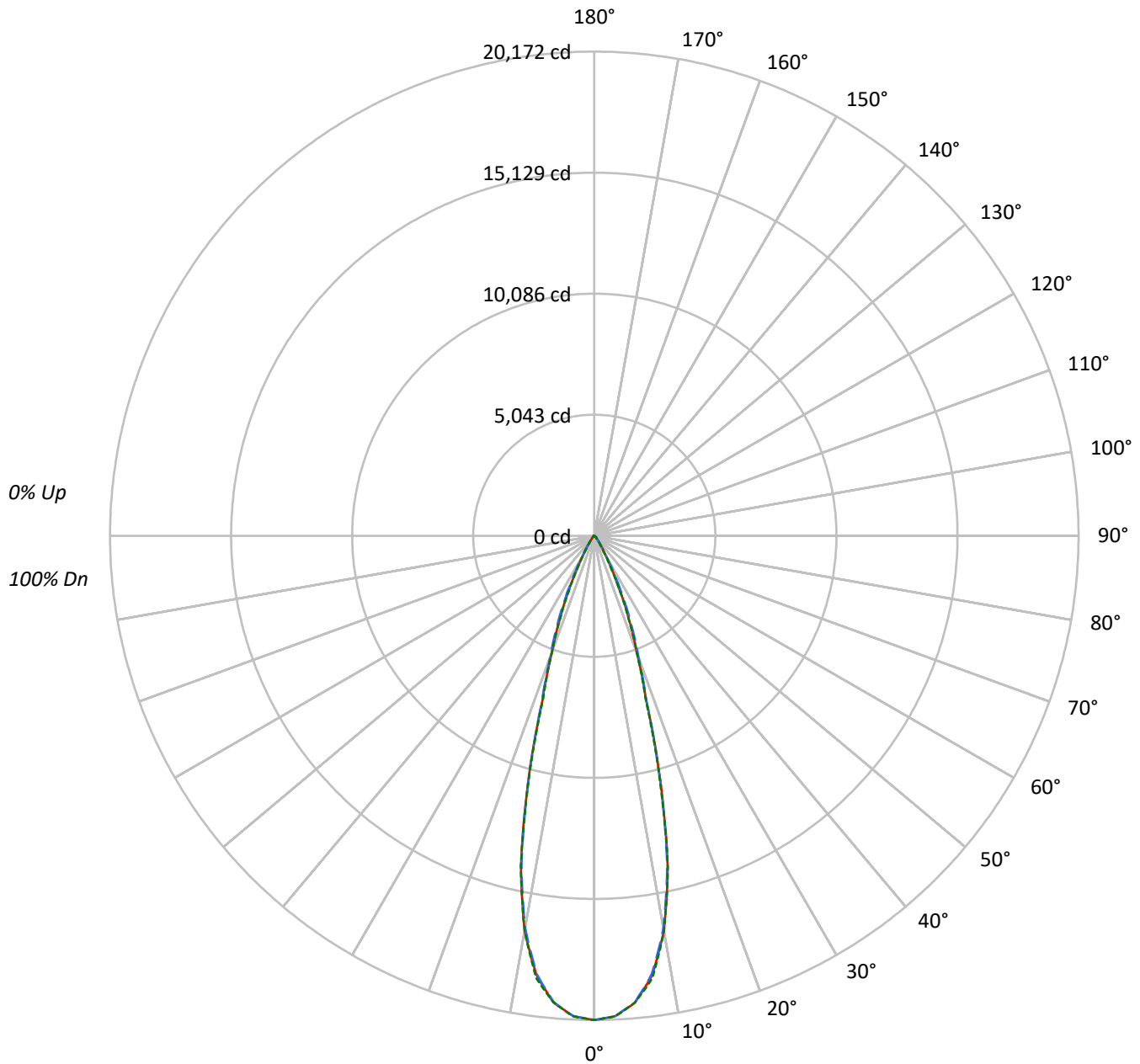


Downlight

TEST NUMBER: P752214

CATALOG NUMBER: LD4D70BD010-EU4DR3070959024-4LBS1LI

### Luminous Intensity Polar Plot



TEST NUMBER: P752214

CATALOG NUMBER: LD4D70BD010-EU4DR3070959024-4LBS1LI

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

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1544010 | 1544010 | 1544010 |
| 5°  | 1499681 | 1497929 | 1499758 |
| 10° | 1298950 | 1289794 | 1298647 |
| 15° | 847502  | 842953  | 838714  |
| 20° | 421420  | 437238  | 420858  |
| 25° | 212281  | 239383  | 207931  |
| 30° | 84991   | 92609   | 74049   |
| 35° | 39423   | 37760   | 31649   |
| 40° | 17016   | 18905   | 16027   |
| 45° | 12005   | 14906   | 12113   |
| 50° | 4132    | 10848   | 4358    |
| 55° | 2375    | 4497    | 2509    |
| 60° | 1669    | 1975    | 1669    |
| 65° | 1069    | 1069    | 1069    |
| 70° | 671     | 448     | 671     |
| 75° | 0       | 296     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14906 cd/sqm



TEST NUMBER: P752214

CATALOG NUMBER: LD4D70BD010-EU4DR3070959024-4LBS1LI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1773.8 | 28.3      |
| 10°-20°   | 2856.7 | 45.5      |
| 20°-30°   | 1234.5 | 19.7      |
| 30°-40°   | 281.4  | 4.5       |
| 40°-50°   | 96.6   | 1.5       |
| 50°-60°   | 23.6   | 0.4       |
| 60°-70°   | 6.1    | 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       |
| 0°-30°    | 5865.0 | 93.5      |
| 0°-40°    | 6146.3 | 98.0      |
| 0°-60°    | 6266.5 | 99.9      |
| 0°-90°    | 6273.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6273.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 20172 | 20172 | 20172 | 20172 | 20172 |      |
| 5°  | 19518 | 19499 | 19495 | 19536 | 19519 | 1775 |
| 15° | 10695 | 10566 | 10638 | 10603 | 10584 | 2864 |
| 25° | 2514  | 2609  | 2834  | 2542  | 2462  | 1203 |
| 35° | 422   | 431   | 404   | 401   | 339   | 286  |
| 45° | 111   | 138   | 138   | 138   | 112   | 79   |
| 55° | 18    | 19    | 34    | 20    | 19    | 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     |      |

TEST NUMBER: P752214

CATALOG NUMBER: LD4D70BD010-EU4DR3070959024-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 20171.7 | 20171.7 | 20171.7 | 20171.7 | 20171.7 |
| 2.5°  | 20038.0 | 20024.1 | 20032.0 | 20041.9 | 20045.9 |
| 5°    | 19518.0 | 19499.2 | 19495.2 | 19535.8 | 19519.0 |
| 7.5°  | 18469.2 | 18442.5 | 18401.9 | 18494.0 | 18580.1 |
| 10°   | 16712.3 | 16682.6 | 16594.5 | 16638.0 | 16708.4 |
| 12.5° | 14118.6 | 14022.5 | 14020.5 | 14159.2 | 14140.4 |
| 15°   | 10694.9 | 10566.2 | 10637.5 | 10602.8 | 10584.0 |
| 17.5° | 7192.0  | 7142.5  | 7237.6  | 7208.8  | 7085.0  |
| 20°   | 5173.6  | 5186.5  | 5367.8  | 5276.6  | 5166.7  |
| 22.5° | 3775.3  | 3821.8  | 4036.7  | 3802.0  | 3715.8  |
| 25°   | 2513.5  | 2608.6  | 2834.4  | 2542.3  | 2462.0  |
| 27.5° | 1546.0  | 1589.5  | 1818.3  | 1526.1  | 1482.6  |
| 30°   | 961.6   | 939.9   | 1047.8  | 899.2   | 837.8   |
| 32.5° | 630.9   | 603.1   | 637.8   | 572.4   | 522.9   |
| 35°   | 421.9   | 430.8   | 404.1   | 401.1   | 338.7   |
| 37.5° | 263.4   | 303.1   | 267.4   | 285.2   | 217.9   |
| 40°   | 170.3   | 219.9   | 189.2   | 209.0   | 160.4   |
| 42.5° | 139.6   | 169.4   | 155.5   | 165.4   | 142.6   |
| 45°   | 110.9   | 137.7   | 137.7   | 137.7   | 111.9   |
| 47.5° | 61.4    | 92.1    | 117.9   | 94.1    | 65.4    |
| 50°   | 34.7    | 46.5    | 91.1    | 48.5    | 36.6    |
| 52.5° | 23.8    | 26.7    | 62.4    | 27.7    | 24.8    |
| 55°   | 17.8    | 18.8    | 33.7    | 19.8    | 18.8    |
| 57.5° | 13.9    | 14.9    | 17.8    | 14.9    | 13.9    |
| 60°   | 10.9    | 10.9    | 12.9    | 11.9    | 10.9    |
| 62.5° | 7.9     | 7.9     | 8.9     | 7.9     | 7.9     |
| 65°   | 5.9     | 5.9     | 5.9     | 5.9     | 5.9     |
| 67.5° | 3.0     | 4.0     | 4.0     | 4.0     | 4.0     |
| 70°   | 3.0     | 2.0     | 2.0     | 2.0     | 3.0     |
| 72.5° | 2.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 75°   | 0.0     | 0.0     | 1.0     | 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     |



Report Generated By 670245859 / DESKTOP-T8S5UU9





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







(END OF REPORT)