

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P753770

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753770  
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: LD4D80BD010-EU4DR3070959024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 6686.7 lumens  
Efficiency: N/A  
Efficacy: 84.7 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): 78.9  
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

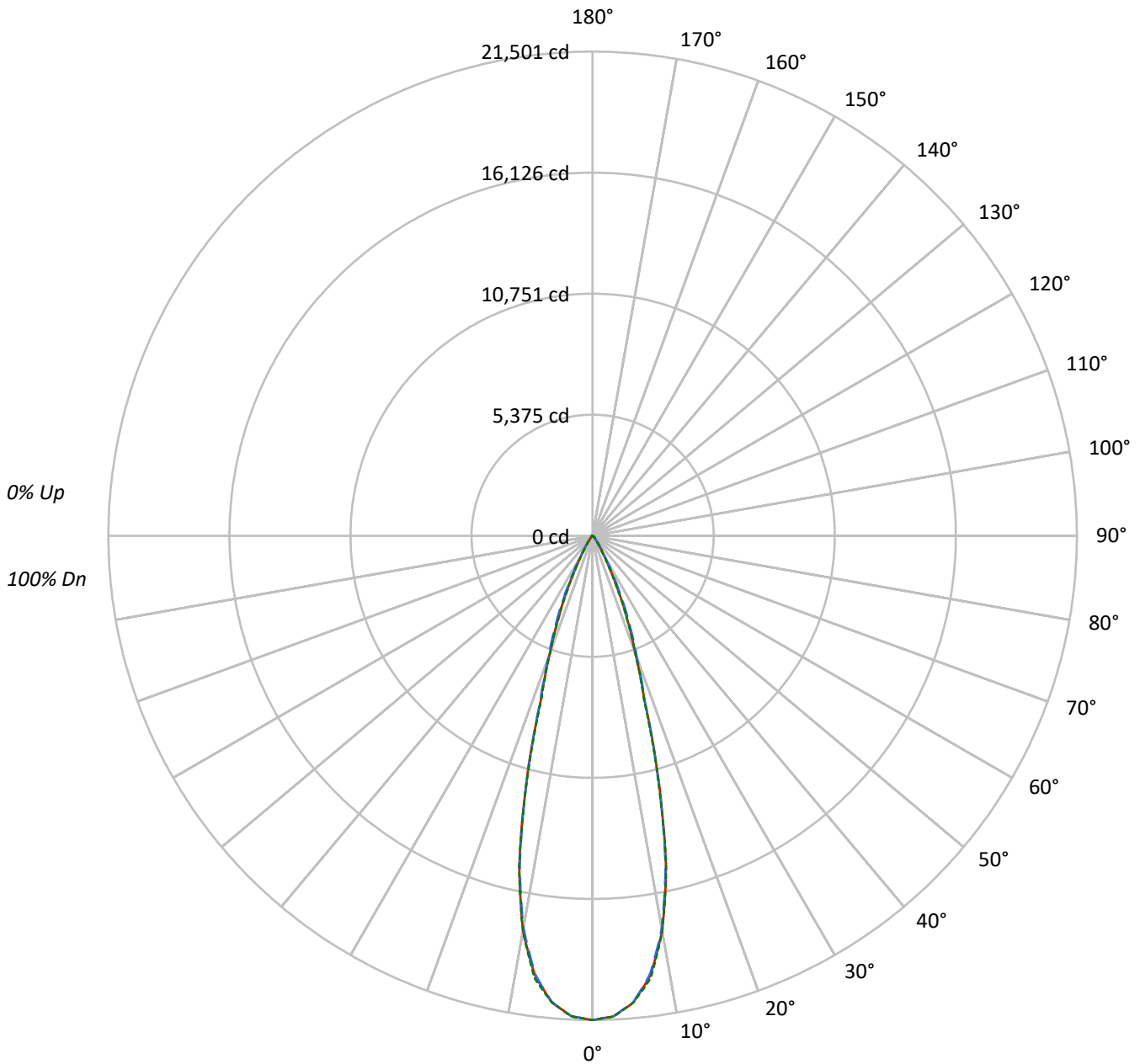


Downlight

TEST NUMBER: P753770

CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1LI

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |   |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    |    |    |    |   |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 10 |    |    |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 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 | 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°  | 1645760 | 1645760 | 1645760 |
| 5°  | 1598515 | 1596647 | 1598599 |
| 10° | 1384556 | 1374793 | 1384229 |
| 15° | 903353  | 898503  | 893986  |
| 20° | 449196  | 466049  | 448593  |
| 25° | 226275  | 255159  | 221639  |
| 30° | 90594   | 98717   | 78936   |
| 35° | 42021   | 40246   | 33733   |
| 40° | 18146   | 20144   | 17086   |
| 45° | 12795   | 15880   | 12914   |
| 50° | 4394    | 11563   | 4656    |
| 55° | 2536    | 4791    | 2682    |
| 60° | 1776    | 2097    | 1776    |
| 65° | 1141    | 1141    | 1141    |
| 70° | 716     | 470     | 716     |
| 75° | 0       | 325     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15880 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1890.7 | 28.3      |
| 10°-20°   | 3045.0 | 45.5      |
| 20°-30°   | 1315.8 | 19.7      |
| 30°-40°   | 299.9  | 4.5       |
| 40°-50°   | 103.0  | 1.5       |
| 50°-60°   | 25.2   | 0.4       |
| 60°-70°   | 6.5    | 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°    | 6251.5 | 93.5      |
| 0°-40°    | 6551.4 | 98.0      |
| 0°-60°    | 6679.5 | 99.9      |
| 0°-90°    | 6686.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6686.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 21501 | 21501 | 21501 | 21501 | 21501 |      |
| 5°  | 20804 | 20784 | 20780 | 20823 | 20805 | 1892 |
| 15° | 11400 | 11262 | 11338 | 11302 | 11282 | 3052 |
| 25° | 2679  | 2780  | 3021  | 2710  | 2624  | 1282 |
| 35° | 450   | 459   | 431   | 428   | 361   | 305  |
| 45° | 118   | 147   | 147   | 147   | 119   | 84   |
| 55° | 19    | 20    | 36    | 21    | 20    | 18   |
| 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     | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 21501.0 | 21501.0 | 21501.0 | 21501.0 | 21501.0 |
| 2.5°  | 21358.5 | 21343.8 | 21352.2 | 21362.8 | 21367.0 |
| 5°    | 20804.3 | 20784.3 | 20780.0 | 20823.3 | 20805.4 |
| 7.5°  | 19686.4 | 19657.9 | 19614.6 | 19712.8 | 19804.6 |
| 10°   | 17813.7 | 17782.1 | 17688.1 | 17734.6 | 17809.5 |
| 12.5° | 15049.0 | 14946.6 | 14944.5 | 15092.3 | 15072.3 |
| 15°   | 11399.7 | 11262.5 | 11338.5 | 11301.6 | 11281.5 |
| 17.5° | 7666.0  | 7613.2  | 7714.5  | 7683.9  | 7552.0  |
| 20°   | 5514.6  | 5528.3  | 5721.5  | 5624.4  | 5507.2  |
| 22.5° | 4024.1  | 4073.7  | 4302.7  | 4052.6  | 3960.7  |
| 25°   | 2679.2  | 2780.5  | 3021.2  | 2709.8  | 2624.3  |
| 27.5° | 1647.8  | 1694.3  | 1938.1  | 1626.7  | 1580.3  |
| 30°   | 1025.0  | 1001.8  | 1116.9  | 958.5   | 893.1   |
| 32.5° | 672.4   | 642.9   | 679.8   | 610.2   | 557.4   |
| 35°   | 449.7   | 459.2   | 430.7   | 427.5   | 361.0   |
| 37.5° | 280.8   | 323.0   | 285.0   | 304.0   | 232.2   |
| 40°   | 181.6   | 234.3   | 201.6   | 222.7   | 171.0   |
| 42.5° | 148.8   | 180.5   | 165.7   | 176.3   | 152.0   |
| 45°   | 118.2   | 146.7   | 146.7   | 146.7   | 119.3   |
| 47.5° | 65.4    | 98.2    | 125.6   | 100.3   | 69.7    |
| 50°   | 36.9    | 49.6    | 97.1    | 51.7    | 39.1    |
| 52.5° | 25.3    | 28.5    | 66.5    | 29.6    | 26.4    |
| 55°   | 19.0    | 20.1    | 35.9    | 21.1    | 20.1    |
| 57.5° | 14.8    | 15.8    | 19.0    | 15.8    | 14.8    |
| 60°   | 11.6    | 11.6    | 13.7    | 12.7    | 11.6    |
| 62.5° | 8.4     | 8.4     | 9.5     | 8.4     | 8.4     |
| 65°   | 6.3     | 6.3     | 6.3     | 6.3     | 6.3     |
| 67.5° | 3.2     | 4.2     | 4.2     | 4.2     | 4.2     |
| 70°   | 3.2     | 2.1     | 2.1     | 2.1     | 3.2     |
| 72.5° | 2.1     | 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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Scaled Data Report



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Scaled Data Report







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

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