

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: P771847

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D80BD010-EU6DR3070959027-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9619.7 lumens  
Efficiency: N/A  
Efficacy: 121.9 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 (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

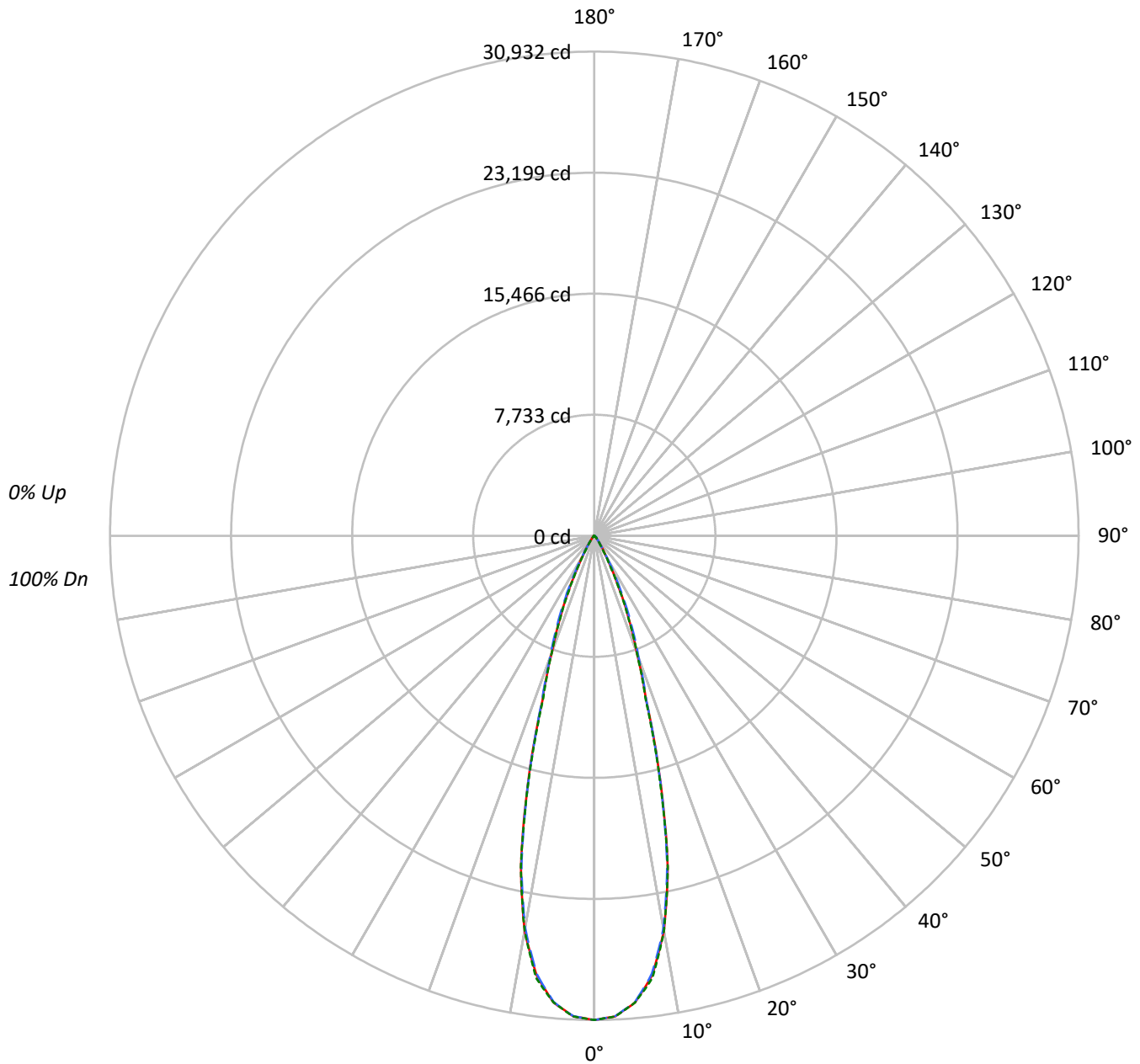


Downlight

TEST NUMBER: P771847

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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  | 50  | 30 | 10 |
| 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°  | 2367648 | 2367648 | 2367648 |
| 5°  | 2299672 | 2296990 | 2299795 |
| 10° | 1991869 | 1977824 | 1991395 |
| 15° | 1299594 | 1292613 | 1286115 |
| 20° | 646229  | 670471  | 645358  |
| 25° | 325528  | 367081  | 318856  |
| 30° | 130332  | 142008  | 113557  |
| 35° | 60448   | 57897   | 48534   |
| 40° | 26099   | 28987   | 24580   |
| 45° | 18413   | 22851   | 18575   |
| 50° | 6335    | 16636   | 6692    |
| 55° | 3643    | 6886    | 3857    |
| 60° | 2557    | 3016    | 2557    |
| 65° | 1648    | 1648    | 1648    |
| 70° | 1029    | 671     | 1029    |
| 75° | 0       | 444     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22851 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2720.0 | 28.3      |
| 10°-20°   | 4380.6 | 45.5      |
| 20°-30°   | 1893.0 | 19.7      |
| 30°-40°   | 431.4  | 4.5       |
| 40°-50°   | 148.1  | 1.5       |
| 50°-60°   | 36.2   | 0.4       |
| 60°-70°   | 9.4    | 0.1       |
| 70°-80°   | 1.0    | 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°    | 8993.6 | 93.5      |
| 0°-40°    | 9425.0 | 98.0      |
| 0°-60°    | 9609.3 | 99.9      |
| 0°-90°    | 9619.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9619.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 30932 | 30932 | 30932 | 30932 | 30932 |      |
| 5°  | 29930 | 29901 | 29895 | 29957 | 29931 | 2722 |
| 15° | 16400 | 16203 | 16312 | 16259 | 16230 | 4391 |
| 25° | 3854  | 4000  | 4346  | 3898  | 3775  | 1845 |
| 35° | 647   | 661   | 620   | 615   | 519   | 439  |
| 45° | 170   | 211   | 211   | 211   | 172   | 121  |
| 55° | 27    | 29    | 52    | 30    | 29    | 27   |
| 65° | 9     | 9     | 9     | 9     | 9     | 9    |
| 75° | 0     | 0     | 2     | 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°    | 30932.1 | 30932.1 | 30932.1 | 30932.1 | 30932.1 |
| 2.5°  | 30727.0 | 30705.8 | 30717.9 | 30733.1 | 30739.2 |
| 5°    | 29929.7 | 29900.9 | 29894.8 | 29957.1 | 29931.3 |
| 7.5°  | 28321.5 | 28280.5 | 28218.2 | 28359.4 | 28491.6 |
| 10°   | 25627.4 | 25581.8 | 25446.7 | 25513.5 | 25621.3 |
| 12.5° | 21650.0 | 21502.7 | 21499.7 | 21712.3 | 21683.4 |
| 15°   | 16400.0 | 16202.6 | 16311.9 | 16258.8 | 16229.9 |
| 17.5° | 11028.5 | 10952.6 | 11098.4 | 11054.3 | 10864.5 |
| 20°   | 7933.5  | 7953.2  | 8231.1  | 8091.4  | 7922.8  |
| 22.5° | 5789.1  | 5860.5  | 6190.1  | 5830.1  | 5698.0  |
| 25°   | 3854.4  | 4000.1  | 4346.4  | 3898.4  | 3775.4  |
| 27.5° | 2370.6  | 2437.4  | 2788.3  | 2340.3  | 2273.4  |
| 30°   | 1474.6  | 1441.2  | 1606.7  | 1378.9  | 1284.8  |
| 32.5° | 967.4   | 924.9   | 978.0   | 877.8   | 801.9   |
| 35°   | 646.9   | 660.6   | 619.6   | 615.1   | 519.4   |
| 37.5° | 404.0   | 464.7   | 410.0   | 437.4   | 334.1   |
| 40°   | 261.2   | 337.1   | 290.1   | 320.4   | 246.0   |
| 42.5° | 214.1   | 259.7   | 238.4   | 253.6   | 218.7   |
| 45°   | 170.1   | 211.1   | 211.1   | 211.1   | 171.6   |
| 47.5° | 94.2    | 141.2   | 180.7   | 144.3   | 100.2   |
| 50°   | 53.2    | 71.4    | 139.7   | 74.4    | 56.2    |
| 52.5° | 36.4    | 41.0    | 95.7    | 42.5    | 38.0    |
| 55°   | 27.3    | 28.9    | 51.6    | 30.4    | 28.9    |
| 57.5° | 21.3    | 22.8    | 27.3    | 22.8    | 21.3    |
| 60°   | 16.7    | 16.7    | 19.7    | 18.2    | 16.7    |
| 62.5° | 12.1    | 12.1    | 13.7    | 12.1    | 12.1    |
| 65°   | 9.1     | 9.1     | 9.1     | 9.1     | 9.1     |
| 67.5° | 4.6     | 6.1     | 6.1     | 6.1     | 6.1     |
| 70°   | 4.6     | 3.0     | 3.0     | 3.0     | 4.6     |
| 72.5° | 3.0     | 1.5     | 1.5     | 1.5     | 1.5     |
| 75°   | 0.0     | 0.0     | 1.5     | 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)