

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: P771834

Luminaire Tested: LD6D80BD010-EU6DR3070959024-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771834  
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-EU6DR3070959024-6LBDP1LI  
Description: 6 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: 8492.1 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

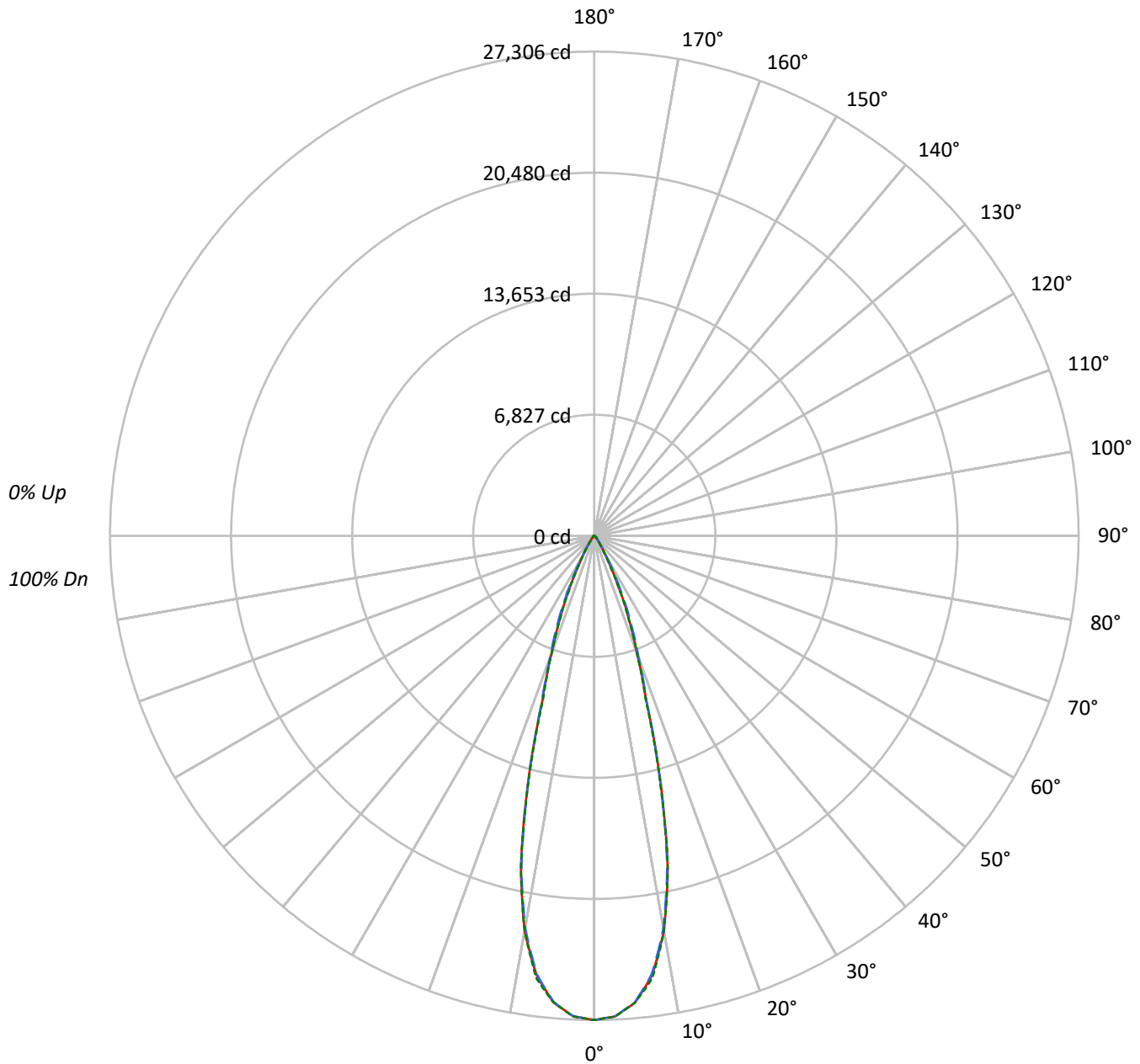


Downlight

TEST NUMBER: P771834

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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  | 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°  | 2090117 | 2090117 | 2090117 |
| 5°  | 2030117 | 2027750 | 2030216 |
| 10° | 1758386 | 1745989 | 1757974 |
| 15° | 1147264 | 1141099 | 1135362 |
| 20° | 570476  | 591882  | 569718  |
| 25° | 287371  | 324050  | 281484  |
| 30° | 115059  | 125365  | 100246  |
| 35° | 53365   | 51113   | 42843   |
| 40° | 23042   | 25590   | 21703   |
| 45° | 16259   | 20178   | 16400   |
| 50° | 5585    | 14683   | 5906    |
| 55° | 3216    | 6085    | 3403    |
| 60° | 2250    | 2664    | 2250    |
| 65° | 1449    | 1449    | 1449    |
| 70° | 895     | 604     | 895     |
| 75° | 0       | 384     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20178 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2401.2 | 28.3      |
| 10°-20°   | 3867.1 | 45.5      |
| 20°-30°   | 1671.1 | 19.7      |
| 30°-40°   | 380.9  | 4.5       |
| 40°-50°   | 130.8  | 1.5       |
| 50°-60°   | 31.9   | 0.4       |
| 60°-70°   | 8.3    | 0.1       |
| 70°-80°   | 0.9    | 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°    | 7939.4 | 93.5      |
| 0°-40°    | 8320.3 | 98.0      |
| 0°-60°    | 8483.0 | 99.9      |
| 0°-90°    | 8492.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8492.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 27306 | 27306 | 27306 | 27306 | 27306 |      |
| 5°  | 26422 | 26396 | 26391 | 26446 | 26423 | 2403 |
| 15° | 14478 | 14303 | 14400 | 14353 | 14328 | 3877 |
| 25° | 3403  | 3531  | 3837  | 3441  | 3333  | 1629 |
| 35° | 571   | 583   | 547   | 543   | 458   | 387  |
| 45° | 150   | 186   | 186   | 186   | 152   | 107  |
| 55° | 24    | 26    | 46    | 27    | 26    | 23   |
| 65° | 8     | 8     | 8     | 8     | 8     | 8    |
| 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°    | 27306.3 | 27306.3 | 27306.3 | 27306.3 | 27306.3 |
| 2.5°  | 27125.3 | 27106.6 | 27117.3 | 27130.7 | 27136.1 |
| 5°    | 26421.5 | 26396.0 | 26390.7 | 26445.6 | 26422.8 |
| 7.5°  | 25001.7 | 24965.6 | 24910.6 | 25035.3 | 25151.9 |
| 10°   | 22623.4 | 22583.2 | 22463.9 | 22522.9 | 22618.1 |
| 12.5° | 19112.3 | 18982.2 | 18979.6 | 19167.2 | 19141.8 |
| 15°   | 14477.7 | 14303.4 | 14399.9 | 14353.0 | 14327.5 |
| 17.5° | 9735.8  | 9668.8  | 9797.5  | 9758.6  | 9591.0  |
| 20°   | 7003.5  | 7021.0  | 7266.3  | 7143.0  | 6994.2  |
| 22.5° | 5110.6  | 5173.6  | 5464.5  | 5146.7  | 5030.1  |
| 25°   | 3402.6  | 3531.3  | 3836.9  | 3441.4  | 3332.9  |
| 27.5° | 2092.8  | 2151.7  | 2461.4  | 2065.9  | 2007.0  |
| 30°   | 1301.8  | 1272.3  | 1418.4  | 1217.3  | 1134.2  |
| 32.5° | 854.0   | 816.5   | 863.4   | 774.9   | 707.9   |
| 35°   | 571.1   | 583.2   | 547.0   | 543.0   | 458.5   |
| 37.5° | 356.6   | 410.2   | 362.0   | 386.1   | 294.9   |
| 40°   | 230.6   | 297.6   | 256.1   | 282.9   | 217.2   |
| 42.5° | 189.0   | 229.3   | 210.5   | 223.9   | 193.1   |
| 45°   | 150.2   | 186.4   | 186.4   | 186.4   | 151.5   |
| 47.5° | 83.1    | 124.7   | 159.5   | 127.4   | 88.5    |
| 50°   | 46.9    | 63.0    | 123.3   | 65.7    | 49.6    |
| 52.5° | 32.2    | 36.2    | 84.5    | 37.5    | 33.5    |
| 55°   | 24.1    | 25.5    | 45.6    | 26.8    | 25.5    |
| 57.5° | 18.8    | 20.1    | 24.1    | 20.1    | 18.8    |
| 60°   | 14.7    | 14.7    | 17.4    | 16.1    | 14.7    |
| 62.5° | 10.7    | 10.7    | 12.1    | 10.7    | 10.7    |
| 65°   | 8.0     | 8.0     | 8.0     | 8.0     | 8.0     |
| 67.5° | 4.0     | 5.4     | 5.4     | 5.4     | 5.4     |
| 70°   | 4.0     | 2.7     | 2.7     | 2.7     | 4.0     |
| 72.5° | 2.7     | 1.3     | 1.3     | 1.3     | 1.3     |
| 75°   | 0.0     | 0.0     | 1.3     | 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)