

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: P772366

Luminaire Tested: LD6D80BD010-EU6DR6070959050-6LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D80BD010-EU6DR6070959050-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10326.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' 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

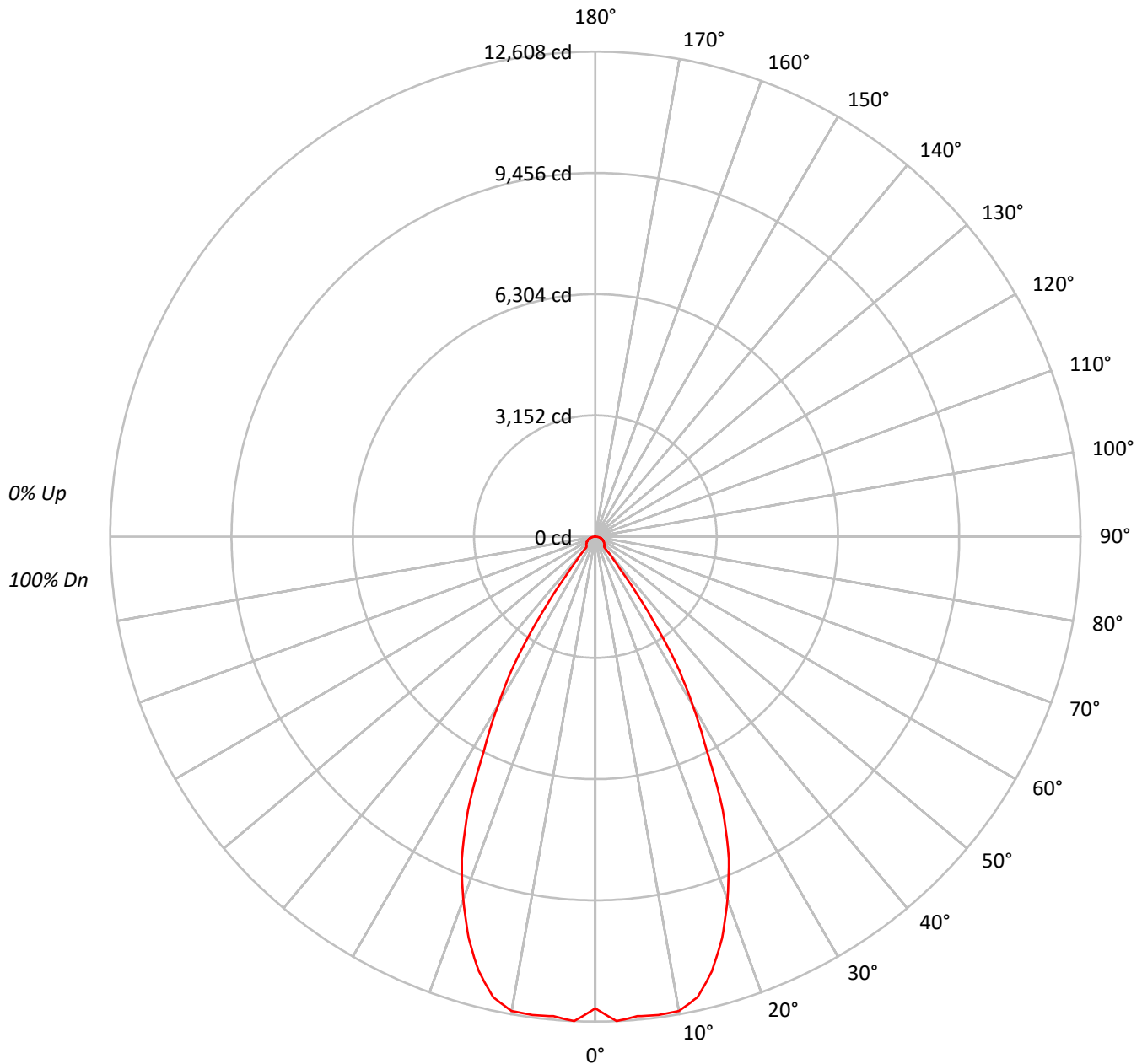


Downlight

TEST NUMBER: P772366

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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   | 113 | 110 | 108 | 105 |  | 111 | 108 | 106 | 104 |  | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 96  | 95  |
| 2   | 107 | 102 | 98  | 95  |  | 105 | 101 | 97  | 94  |  | 97  | 94  | 92  |  | 94  | 92  | 90  |  | 92  | 90  | 88  |
| 3   | 102 | 96  | 90  | 86  |  | 100 | 94  | 89  | 86  |  | 91  | 88  | 84  |  | 89  | 86  | 83  |  | 87  | 84  | 82  |
| 4   | 97  | 89  | 84  | 80  |  | 95  | 88  | 83  | 79  |  | 86  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 79  | 76  |
| 5   | 92  | 84  | 78  | 74  |  | 91  | 83  | 78  | 74  |  | 81  | 77  | 73  |  | 80  | 76  | 72  |  | 78  | 75  | 72  |
| 6   | 88  | 79  | 73  | 69  |  | 87  | 78  | 73  | 69  |  | 77  | 72  | 68  |  | 75  | 71  | 68  |  | 74  | 70  | 67  |
| 7   | 84  | 75  | 69  | 65  |  | 83  | 74  | 68  | 64  |  | 73  | 68  | 64  |  | 72  | 67  | 64  |  | 71  | 67  | 63  |
| 8   | 80  | 71  | 65  | 61  |  | 79  | 70  | 65  | 61  |  | 69  | 64  | 60  |  | 68  | 64  | 60  |  | 67  | 63  | 60  |
| 9   | 77  | 67  | 61  | 57  |  | 75  | 67  | 61  | 57  |  | 66  | 61  | 57  |  | 65  | 60  | 57  |  | 64  | 60  | 57  |
| 10  | 73  | 64  | 58  | 54  |  | 72  | 63  | 58  | 54  |  | 62  | 58  | 54  |  | 62  | 57  | 54  |  | 61  | 57  | 54  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1339908 |
| 5°  | 1372863 |
| 10° | 1389447 |
| 15° | 1323627 |
| 20° | 1167031 |
| 25° | 943929  |
| 30° | 638488  |
| 35° | 319945  |
| 40° | 51903   |
| 45° | 50806   |
| 50° | 51810   |
| 55° | 52594   |
| 60° | 54062   |
| 65° | 55300   |
| 70° | 56608   |
| 75° | 57286   |
| 80° | 55244   |
| 85° | 46008   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 57286 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1196.3  | 11.6      |
| 10°-20°   | 3236.7  | 31.3      |
| 20°-30°   | 3482.5  | 33.7      |
| 30°-40°   | 1513.7  | 14.7      |
| 40°-50°   | 254.3   | 2.5       |
| 50°-60°   | 247.2   | 2.4       |
| 60°-70°   | 211.5   | 2.0       |
| 70°-80°   | 141.5   | 1.4       |
| 80°-90°   | 42.3    | 0.4       |
| 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°    | 7915.5  | 76.7      |
| 0°-40°    | 9429.3  | 91.3      |
| 0°-60°    | 9930.7  | 96.2      |
| 0°-90°    | 10326.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10326.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12263 |      |
| 5°  | 12517 | ###  |
| 15° | 11702 | 3237 |
| 25° | 7830  | 3482 |
| 35° | 2399  | 1514 |
| 45° | 329   | 254  |
| 55° | 276   | 247  |
| 65° | 214   | 211  |
| 75° | 136   | 141  |
| 85° | 37    | 42   |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 12263.4 |
| 2.5°  | 12608.2 |
| 5°    | 12517.2 |
| 7.5°  | 12545.9 |
| 10°   | 12523.6 |
| 12.5° | 12265.0 |
| 15°   | 11701.6 |
| 17.5° | 10945.2 |
| 20°   | 10037.0 |
| 22.5° | 9065.1  |
| 25°   | 7829.8  |
| 27.5° | 6262.6  |
| 30°   | 5060.8  |
| 32.5° | 3900.5  |
| 35°   | 2398.7  |
| 37.5° | 1026.2  |
| 40°   | 363.9   |
| 42.5° | 335.2   |
| 45°   | 328.8   |
| 47.5° | 317.6   |
| 50°   | 304.8   |
| 52.5° | 290.5   |
| 55°   | 276.1   |
| 57.5° | 261.7   |
| 60°   | 247.4   |
| 62.5° | 231.4   |
| 65°   | 213.9   |
| 67.5° | 196.3   |
| 70°   | 177.2   |
| 72.5° | 156.4   |
| 75°   | 135.7   |
| 77.5° | 111.7   |
| 80°   | 87.8    |
| 82.5° | 62.2    |
| 85°   | 36.7    |
| 87.5° | 12.8    |
| 90°   | 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°







(END OF REPORT)