

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: P760165

Luminaire Tested: LD6D10D010-EU6DR300210IC9024-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P760165  
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: LD6D10D010-EU6DR300210IC9024-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-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: 885.5 lumens  
Efficiency: N/A  
Efficacy: 75.7 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): 11.7  
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



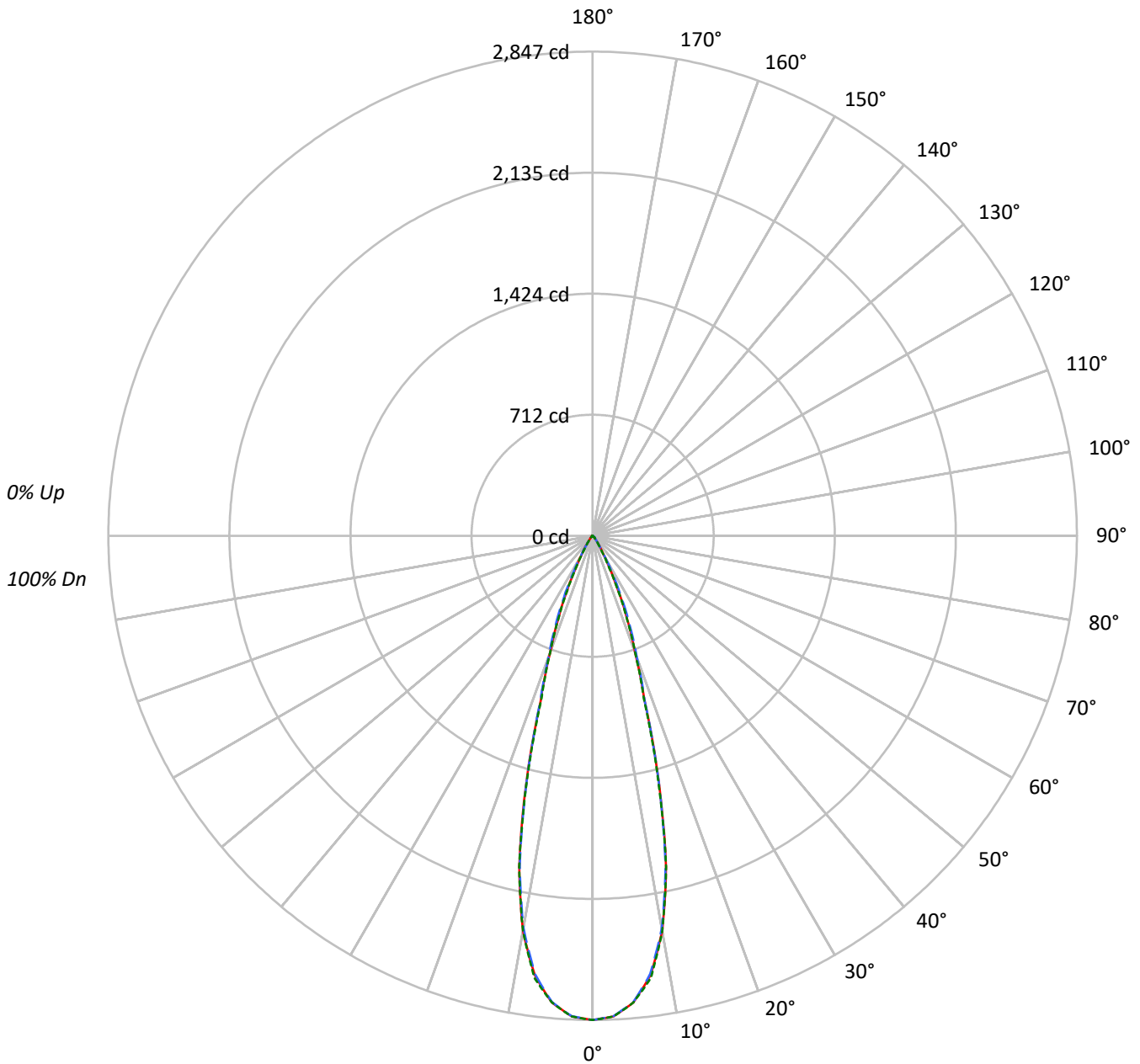
Downlight



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 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°  | 217934 | 217934 | 217934 |
| 5°  | 211683 | 211437 | 211690 |
| 10° | 183351 | 182053 | 183305 |
| 15° | 119626 | 118984 | 118382 |
| 20° | 59487  | 61719  | 59406  |
| 25° | 29965  | 33791  | 29349  |
| 30° | 11994  | 13072  | 10456  |
| 35° | 5560   | 5326   | 4467   |
| 40° | 2408   | 2668   | 2258   |
| 45° | 1689   | 2100   | 1710   |
| 50° | 583    | 1524   | 619    |
| 55° | 334    | 641    | 347    |
| 60° | 230    | 276    | 230    |
| 65° | 163    | 163    | 163    |
| 70° | 90     | 67     | 90     |
| 75° | 0      | 30     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2100 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 250.4  | 28.3      |
| 10°-20°   | 403.2  | 45.5      |
| 20°-30°   | 174.2  | 19.7      |
| 30°-40°   | 39.7   | 4.5       |
| 40°-50°   | 13.6   | 1.5       |
| 50°-60°   | 3.3    | 0.4       |
| 60°-70°   | 0.9    | 0.1       |
| 70°-80°   | 0.1    | 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°    | 827.8  | 93.5      |
| 0°-40°    | 867.6  | 98.0      |
| 0°-60°    | 884.5  | 99.9      |
| 0°-90°    | 885.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 885.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2847 | 2847  | 2847 | 2847  | 2847 |      |
| 5°  | 2755 | 2752  | 2752 | 2758  | 2755 | 251  |
| 15° | 1510 | 1491  | 1502 | 1497  | 1494 | 404  |
| 25° | 355  | 368   | 400  | 359   | 348  | 170  |
| 35° | 60   | 61    | 57   | 57    | 48   | 40   |
| 45° | 16   | 19    | 19   | 19    | 16   | 11   |
| 55° | 2    | 3     | 5    | 3     | 3    | 2    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 2847.2 | 2847.2 | 2847.2 | 2847.2 | 2847.2 |
| 2.5°  | 2828.4 | 2826.4 | 2827.5 | 2828.9 | 2829.5 |
| 5°    | 2755.0 | 2752.3 | 2751.8 | 2757.5 | 2755.1 |
| 7.5°  | 2606.9 | 2603.1 | 2597.4 | 2610.4 | 2622.6 |
| 10°   | 2359.0 | 2354.7 | 2342.3 | 2348.5 | 2358.4 |
| 12.5° | 1992.8 | 1979.3 | 1979.0 | 1998.6 | 1995.9 |
| 15°   | 1509.6 | 1491.4 | 1501.5 | 1496.6 | 1493.9 |
| 17.5° | 1015.2 | 1008.2 | 1021.6 | 1017.5 | 1000.0 |
| 20°   | 730.3  | 732.1  | 757.7  | 744.8  | 729.3  |
| 22.5° | 532.9  | 539.4  | 569.8  | 536.6  | 524.5  |
| 25°   | 354.8  | 368.2  | 400.1  | 358.8  | 347.5  |
| 27.5° | 218.2  | 224.4  | 256.6  | 215.4  | 209.2  |
| 30°   | 135.7  | 132.6  | 147.9  | 126.9  | 118.3  |
| 32.5° | 89.0   | 85.1   | 90.0   | 80.8   | 73.8   |
| 35°   | 59.5   | 60.8   | 57.0   | 56.6   | 47.8   |
| 37.5° | 37.2   | 42.8   | 37.8   | 40.3   | 30.8   |
| 40°   | 24.1   | 31.1   | 26.7   | 29.5   | 22.6   |
| 42.5° | 19.7   | 23.9   | 21.9   | 23.3   | 20.1   |
| 45°   | 15.6   | 19.4   | 19.4   | 19.4   | 15.8   |
| 47.5° | 8.7    | 13.0   | 16.6   | 13.3   | 9.2    |
| 50°   | 4.9    | 6.6    | 12.8   | 6.9    | 5.2    |
| 52.5° | 3.4    | 3.8    | 8.8    | 3.9    | 3.5    |
| 55°   | 2.5    | 2.6    | 4.8    | 2.8    | 2.6    |
| 57.5° | 1.9    | 2.1    | 2.5    | 2.1    | 1.9    |
| 60°   | 1.5    | 1.5    | 1.8    | 1.7    | 1.5    |
| 62.5° | 1.1    | 1.1    | 1.3    | 1.1    | 1.1    |
| 65°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 67.5° | 0.4    | 0.6    | 0.6    | 0.6    | 0.6    |
| 70°   | 0.4    | 0.3    | 0.3    | 0.3    | 0.4    |
| 72.5° | 0.3    | 0.1    | 0.1    | 0.1    | 0.1    |
| 75°   | 0.0    | 0.0    | 0.1    | 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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