

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: P760166

Luminaire Tested: LD6D10D010-EU6DR300210IC9024-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P760166  
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-EU6DR300210IC9024-6LBDP1LI  
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: 929.8 lumens  
Efficiency: N/A  
Efficacy: 79.5 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 (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



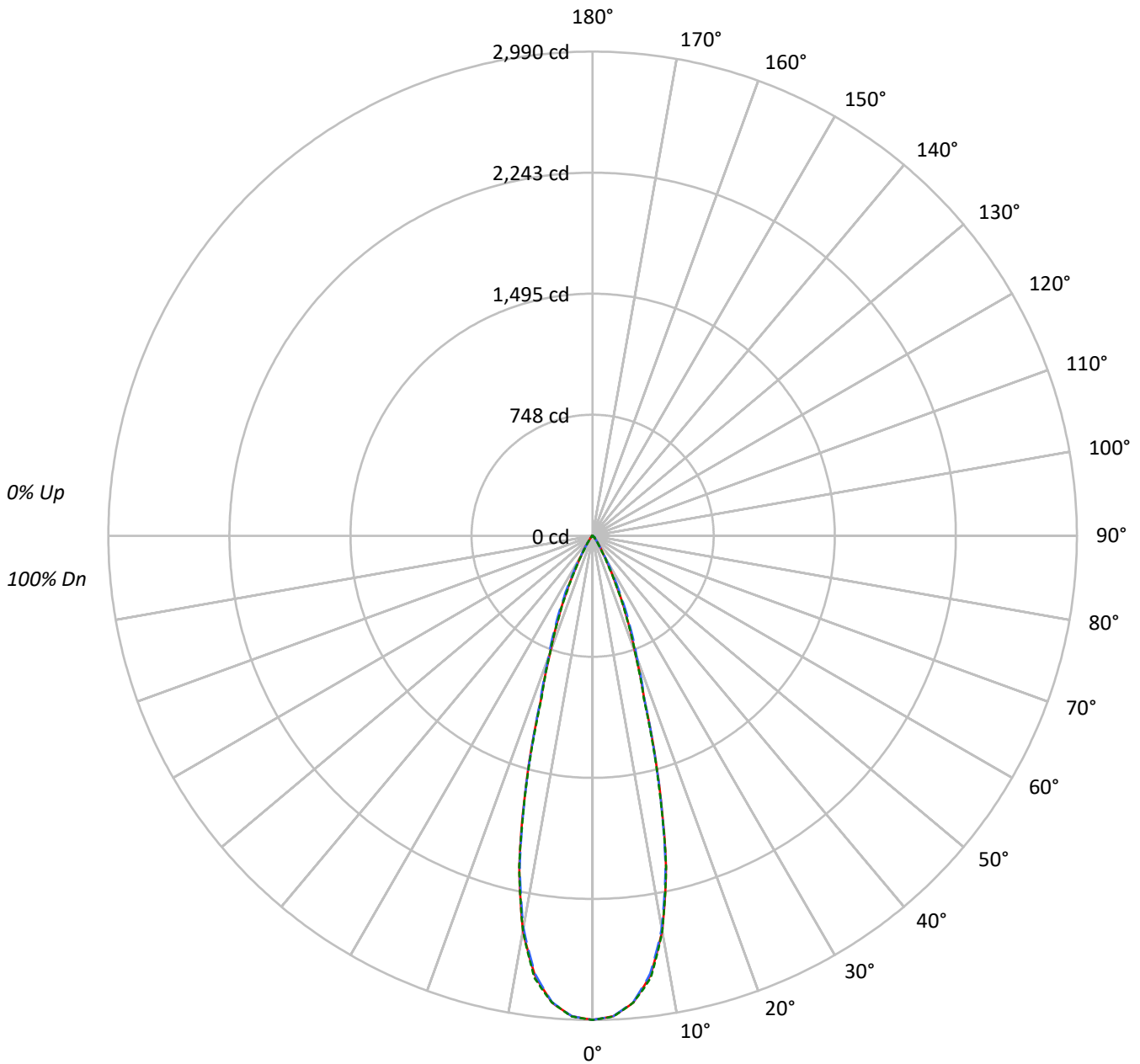
Downlight



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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°  | 228834 | 228834 | 228834 |
| 5°  | 222263 | 222002 | 222271 |
| 10° | 192515 | 191155 | 192468 |
| 15° | 125609 | 124927 | 124301 |
| 20° | 62460  | 64798  | 62371  |
| 25° | 31460  | 35480  | 30818  |
| 30° | 12604  | 13726  | 10977  |
| 35° | 5840   | 5597   | 4691   |
| 40° | 2528   | 2798   | 2378   |
| 45° | 1775   | 2208   | 1797   |
| 50° | 619    | 1608   | 643    |
| 55° | 347    | 667    | 374    |
| 60° | 245    | 291    | 245    |
| 65° | 163    | 163    | 163    |
| 70° | 112    | 67     | 112    |
| 75° | 0      | 59     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2208 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 262.9  | 28.3      |
| 10°-20°   | 423.4  | 45.5      |
| 20°-30°   | 183.0  | 19.7      |
| 30°-40°   | 41.7   | 4.5       |
| 40°-50°   | 14.3   | 1.5       |
| 50°-60°   | 3.5    | 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°    | 869.2  | 93.5      |
| 0°-40°    | 910.9  | 98.0      |
| 0°-60°    | 928.7  | 99.9      |
| 0°-90°    | 929.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 929.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2990 | 2990  | 2990 | 2990  | 2990 |      |
| 5°  | 2893 | 2890  | 2889 | 2895  | 2893 | 263  |
| 15° | 1585 | 1566  | 1576 | 1571  | 1569 | 424  |
| 25° | 372  | 387   | 420  | 377   | 365  | 178  |
| 35° | 62   | 64    | 60   | 60    | 50   | 42   |
| 45° | 16   | 20    | 20   | 20    | 17   | 12   |
| 55° | 3    | 3     | 5    | 3     | 3    | 3    |
| 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°    | 2989.6 | 2989.6 | 2989.6 | 2989.6 | 2989.6 |
| 2.5°  | 2969.8 | 2967.7 | 2968.9 | 2970.3 | 2970.9 |
| 5°    | 2892.7 | 2889.9 | 2889.3 | 2895.3 | 2892.8 |
| 7.5°  | 2737.3 | 2733.3 | 2727.3 | 2740.9 | 2753.7 |
| 10°   | 2476.9 | 2472.5 | 2459.4 | 2465.9 | 2476.3 |
| 12.5° | 2092.5 | 2078.2 | 2077.9 | 2098.5 | 2095.7 |
| 15°   | 1585.1 | 1566.0 | 1576.5 | 1571.4 | 1568.6 |
| 17.5° | 1065.9 | 1058.6 | 1072.7 | 1068.4 | 1050.0 |
| 20°   | 766.8  | 768.7  | 795.5  | 782.0  | 765.7  |
| 22.5° | 559.5  | 566.4  | 598.3  | 563.5  | 550.7  |
| 25°   | 372.5  | 386.6  | 420.1  | 376.8  | 364.9  |
| 27.5° | 229.1  | 235.6  | 269.5  | 226.2  | 219.7  |
| 30°   | 142.6  | 139.3  | 155.3  | 133.3  | 124.2  |
| 32.5° | 93.5   | 89.4   | 94.5   | 84.9   | 77.5   |
| 35°   | 62.5   | 63.8   | 59.9   | 59.5   | 50.2   |
| 37.5° | 39.0   | 44.9   | 39.6   | 42.3   | 32.3   |
| 40°   | 25.3   | 32.6   | 28.0   | 31.0   | 23.8   |
| 42.5° | 20.7   | 25.1   | 23.0   | 24.5   | 21.1   |
| 45°   | 16.4   | 20.4   | 20.4   | 20.4   | 16.6   |
| 47.5° | 9.1    | 13.6   | 17.5   | 13.9   | 9.7    |
| 50°   | 5.2    | 6.9    | 13.5   | 7.2    | 5.4    |
| 52.5° | 3.5    | 4.0    | 9.2    | 4.1    | 3.7    |
| 55°   | 2.6    | 2.8    | 5.0    | 2.9    | 2.8    |
| 57.5° | 2.1    | 2.2    | 2.6    | 2.2    | 2.1    |
| 60°   | 1.6    | 1.6    | 1.9    | 1.8    | 1.6    |
| 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° | 0.5    | 0.6    | 0.6    | 0.6    | 0.6    |
| 70°   | 0.5    | 0.3    | 0.3    | 0.3    | 0.5    |
| 72.5° | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    |
| 75°   | 0.0    | 0.0    | 0.2    | 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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