

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: P758975

Luminaire Tested: LD6D08D010-EU6DR150210IC9040-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P758975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D08D010-EU6DR150210IC9040-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 851.8 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 8.9  
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



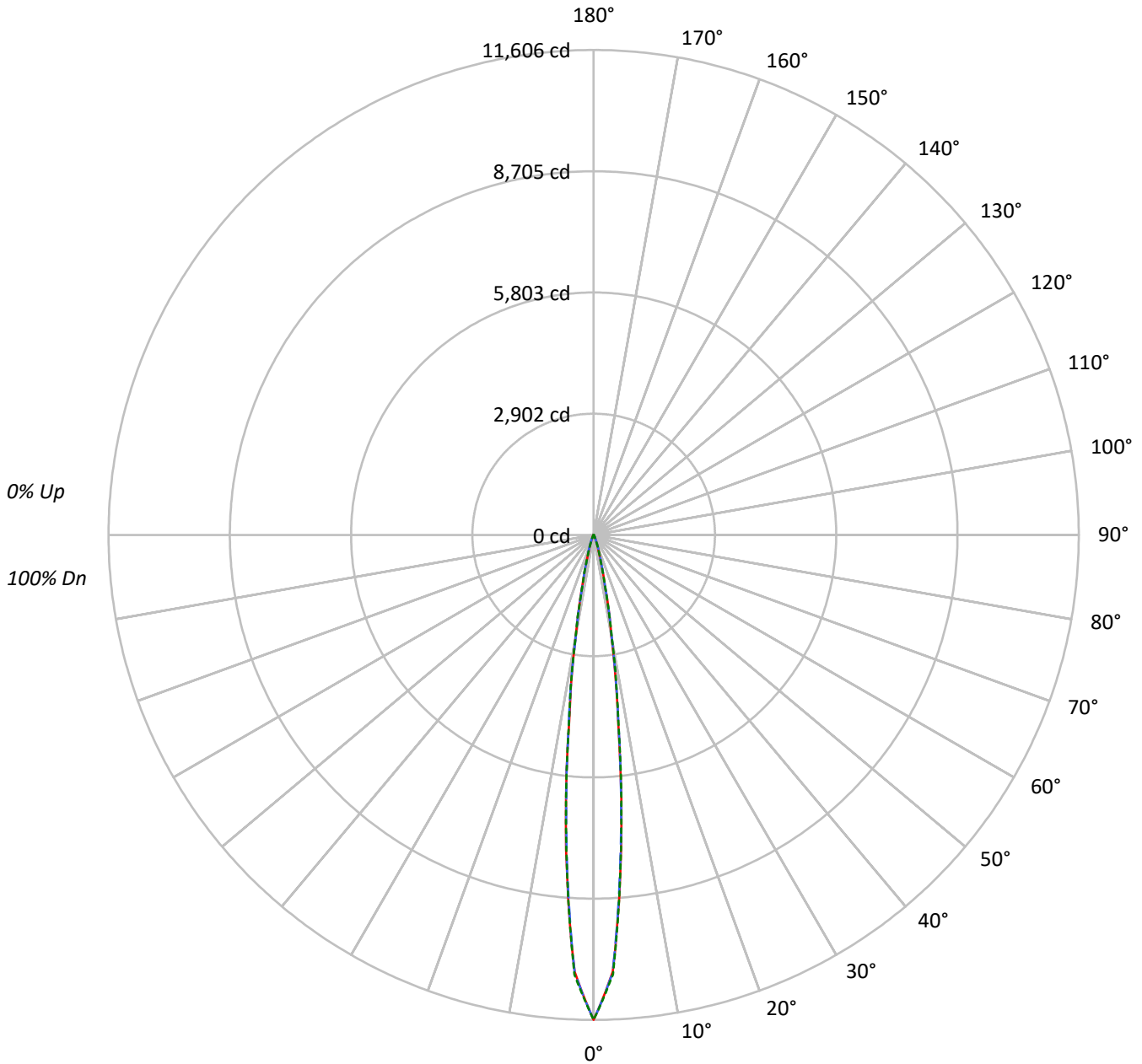
Downlight



TEST NUMBER: P758975

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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 | 50 | 30 | 10 | 0   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    | 100 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98  |    |    |    |    |    | 98  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98  | 98  | 96  |    |    |    |    |    | 96  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99  | 100 | 99  | 97  | 98  | 97  | 96  | 94  |    |    |    |    |    | 94  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  | 100 | 98  | 96  | 99  | 97  | 95  | 97  | 95  | 94  | 93  |    |    |    |    |    | 93  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 98  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 92  |    |    |    |    |    | 92  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 104 | 99  | 95  | 93  | 102 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 93  | 92  | 95  | 93  | 91  | 90  |    |    |    |    |    | 90  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 93  | 91  | 90  | 89  |    |    |    |    |    | 89  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 88  |    |    |    |    |    | 88  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 88  | 87  |    |    |    |    |    | 87  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 86  |    |    |    |    |    | 86  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1305862 | 1305862 | 1305862 |
| 5°  | 767390  | 757450  | 763436  |
| 10° | 229033  | 230638  | 234165  |
| 15° | 56969   | 58081   | 56283   |
| 20° | 17044   | 19736   | 17404   |
| 25° | 6006    | 7658    | 6084    |
| 30° | 2209    | 2905    | 2246    |
| 35° | 1104    | 1249    | 1068    |
| 40° | 696     | 767     | 696     |
| 45° | 518     | 553     | 518     |
| 50° | 410     | 410     | 410     |
| 55° | 341     | 341     | 341     |
| 60° | 274     | 274     | 274     |
| 65° | 207     | 207     | 207     |
| 70° | 183     | 183     | 183     |
| 75° | 113     | 113     | 151     |
| 80° | 79      | 79      | 79      |
| 85° | 42      | 42      | 42      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 553 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 552.4  | 64.9      |
| 10°-20°   | 227.2  | 26.7      |
| 20°-30°   | 45.1   | 5.3       |
| 30°-40°   | 11.3   | 1.3       |
| 40°-50°   | 5.9    | 0.7       |
| 50°-60°   | 4.4    | 0.5       |
| 60°-70°   | 3.1    | 0.4       |
| 70°-80°   | 1.8    | 0.2       |
| 80°-90°   | 0.5    | 0.1       |
| 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°    | 824.8  | 96.8      |
| 0°-40°    | 836.1  | 98.2      |
| 0°-60°    | 846.4  | 99.4      |
| 0°-90°    | 851.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 851.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 11606 | 11606 | 11606 | 11606 | 11606 |      |
| 5°  | 7551  | 7473  | 7453  | 7505  | 7512  | 551  |
| 15° | 656   | 668   | 669   | 657   | 648   | 225  |
| 25° | 77    | 88    | 98    | 87    | 78    | 41   |
| 35° | 15    | 16    | 17    | 16    | 15    | 10   |
| 45° | 7     | 7     | 8     | 7     | 7     | 6    |
| 55° | 5     | 5     | 5     | 5     | 5     | 4    |
| 65° | 3     | 3     | 3     | 3     | 3     | 3    |
| 75° | 2     | 2     | 2     | 2     | 2     | 2    |
| 85° | 0     | 0     | 0     | 0     | 0     | 1    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 11605.6 | 11605.6 | 11605.6 | 11605.6 | 11605.6 |
| 2.5°  | 10468.7 | 10477.6 | 10481.0 | 10491.3 | 10529.6 |
| 5°    | 7550.9  | 7473.2  | 7453.1  | 7504.7  | 7512.0  |
| 7.5°  | 4472.8  | 4488.6  | 4546.0  | 4558.8  | 4512.6  |
| 10°   | 2454.6  | 2474.7  | 2471.8  | 2489.4  | 2509.6  |
| 12.5° | 1255.3  | 1239.6  | 1234.6  | 1254.8  | 1226.8  |
| 15°   | 655.9   | 668.2   | 668.7   | 656.9   | 648.0   |
| 17.5° | 352.8   | 367.0   | 390.6   | 371.4   | 341.9   |
| 20°   | 208.3   | 221.1   | 241.2   | 225.5   | 212.7   |
| 22.5° | 128.7   | 139.0   | 153.3   | 141.0   | 130.7   |
| 25°   | 77.1    | 87.5    | 98.3    | 87.0    | 78.1    |
| 27.5° | 45.7    | 54.5    | 61.4    | 54.0    | 45.2    |
| 30°   | 29.5    | 34.4    | 38.8    | 33.9    | 30.0    |
| 32.5° | 20.6    | 22.6    | 24.6    | 22.6    | 20.6    |
| 35°   | 15.2    | 16.2    | 17.2    | 16.2    | 14.7    |
| 37.5° | 11.8    | 12.8    | 13.3    | 12.3    | 11.3    |
| 40°   | 9.8     | 10.3    | 10.8    | 10.3    | 9.8     |
| 42.5° | 8.4     | 8.8     | 8.8     | 8.8     | 8.4     |
| 45°   | 7.4     | 7.4     | 7.9     | 7.4     | 7.4     |
| 47.5° | 6.4     | 6.4     | 6.9     | 6.4     | 6.4     |
| 50°   | 5.9     | 5.9     | 5.9     | 5.9     | 5.9     |
| 52.5° | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 55°   | 4.9     | 4.9     | 4.9     | 4.9     | 4.9     |
| 57.5° | 4.4     | 4.4     | 4.4     | 4.4     | 4.4     |
| 60°   | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     |
| 62.5° | 3.4     | 3.4     | 3.4     | 3.4     | 3.4     |
| 65°   | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     |
| 67.5° | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     |
| 70°   | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     |
| 72.5° | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     |
| 75°   | 1.5     | 1.5     | 1.5     | 1.5     | 2.0     |
| 77.5° | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     |
| 80°   | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 82.5° | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 85°   | 0.5     | 0.5     | 0.5     | 0.5     | 0.5     |
| 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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