

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: P759947

Luminaire Tested: LD6D10D010-EU6DR150210IC9027-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P759947  
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: LD6D10D010-EU6DR150210IC9027-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1004.4 lumens  
Efficiency: N/A  
Efficacy: 85.8 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): 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

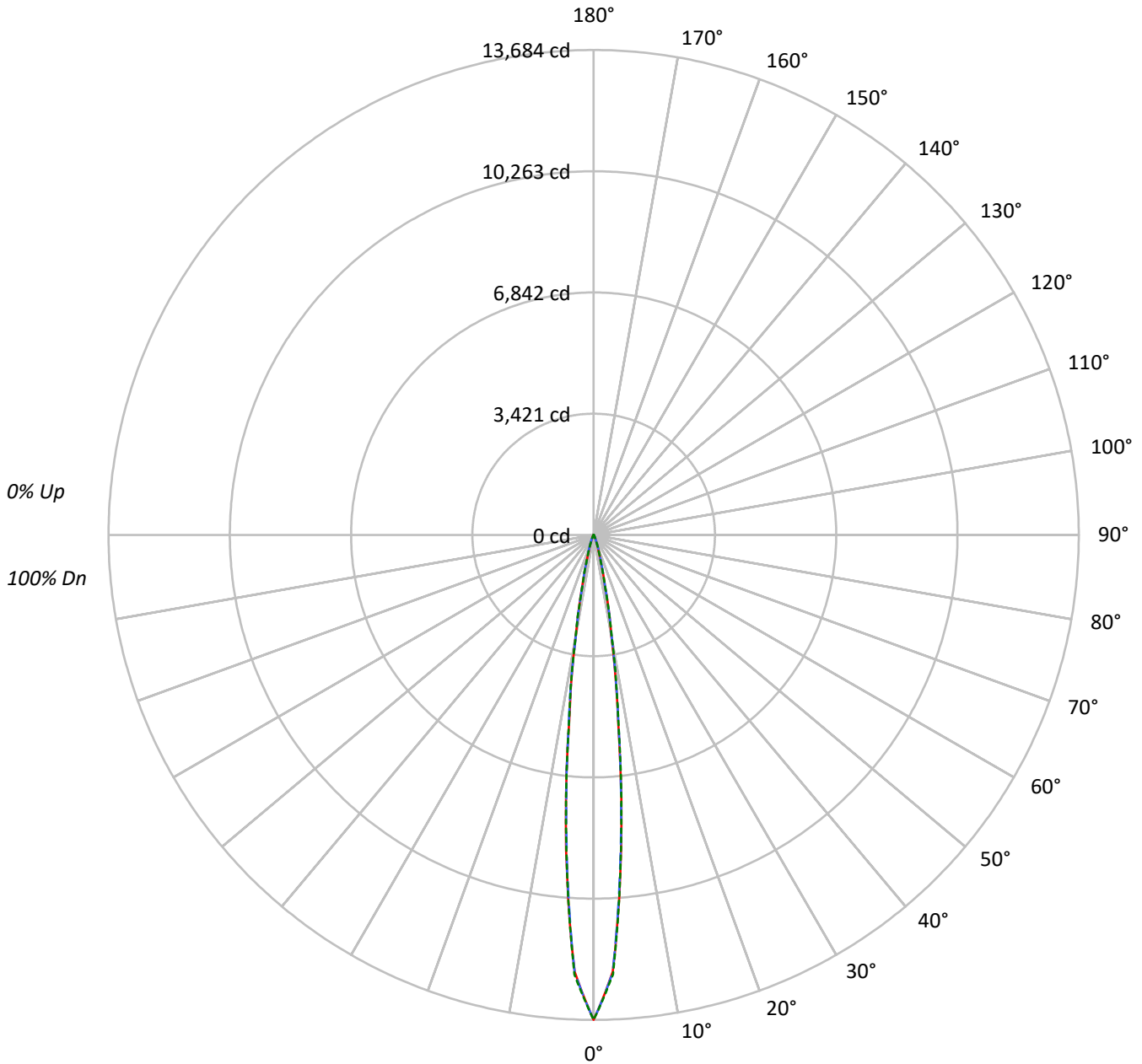


Downlight



TEST NUMBER: P759947  
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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  | 87  | 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°  | 1539689 | 1539689 | 1539689 |
| 5°  | 904802  | 893084  | 900148  |
| 10° | 270041  | 271936  | 276097  |
| 15° | 67166   | 68478   | 66367   |
| 20° | 20096   | 23270   | 20521   |
| 25° | 7081    | 9029    | 7175    |
| 30° | 2606    | 3430    | 2643    |
| 35° | 1307    | 1474    | 1264    |
| 40° | 824     | 902     | 824     |
| 45° | 609     | 651     | 609     |
| 50° | 487     | 487     | 487     |
| 55° | 404     | 404     | 404     |
| 60° | 323     | 323     | 323     |
| 65° | 250     | 250     | 250     |
| 70° | 212     | 212     | 212     |
| 75° | 128     | 128     | 174     |
| 80° | 95      | 95      | 95      |
| 85° | 50      | 50      | 50      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 651 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 651.4  | 64.9      |
| 10°-20°   | 267.9  | 26.7      |
| 20°-30°   | 53.2   | 5.3       |
| 30°-40°   | 13.3   | 1.3       |
| 40°-50°   | 7.0    | 0.7       |
| 50°-60°   | 5.2    | 0.5       |
| 60°-70°   | 3.7    | 0.4       |
| 70°-80°   | 2.1    | 0.2       |
| 80°-90°   | 0.7    | 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°    | 972.5  | 96.8      |
| 0°-40°    | 985.8  | 98.2      |
| 0°-60°    | 998.0  | 99.4      |
| 0°-90°    | 1004.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1004.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 13684 | 13684 | 13684 | 13684 | 13684 |      |
| 5°  | 8903  | 8811  | 8788  | 8848  | 8857  | 650  |
| 15° | 773   | 788   | 788   | 774   | 764   | 265  |
| 25° | 91    | 103   | 116   | 102   | 92    | 48   |
| 35° | 18    | 19    | 20    | 19    | 17    | 12   |
| 45° | 9     | 9     | 9     | 9     | 9     | 7    |
| 55° | 6     | 6     | 6     | 6     | 6     | 5    |
| 65° | 4     | 4     | 4     | 4     | 4     | 4    |
| 75° | 2     | 2     | 2     | 2     | 2     | 2    |
| 85° | 1     | 1     | 1     | 1     | 1     | 1    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 13683.7 | 13683.7 | 13683.7 | 13683.7 | 13683.7 |
| 2.5°  | 12343.3 | 12353.7 | 12357.8 | 12369.9 | 12415.1 |
| 5°    | 8903.0  | 8811.4  | 8787.7  | 8848.5  | 8857.2  |
| 7.5°  | 5273.8  | 5292.3  | 5360.1  | 5375.1  | 5320.7  |
| 10°   | 2894.1  | 2917.8  | 2914.4  | 2935.2  | 2959.0  |
| 12.5° | 1480.1  | 1461.5  | 1455.7  | 1479.5  | 1446.5  |
| 15°   | 773.3   | 787.8   | 788.4   | 774.5   | 764.1   |
| 17.5° | 415.9   | 432.7   | 460.5   | 437.9   | 403.2   |
| 20°   | 245.6   | 260.7   | 284.4   | 265.9   | 250.8   |
| 22.5° | 151.8   | 163.9   | 180.7   | 166.3   | 154.1   |
| 25°   | 90.9    | 103.1   | 115.9   | 102.5   | 92.1    |
| 27.5° | 53.9    | 64.3    | 72.4    | 63.7    | 53.3    |
| 30°   | 34.8    | 40.5    | 45.8    | 40.0    | 35.3    |
| 32.5° | 24.3    | 26.6    | 29.0    | 26.6    | 24.3    |
| 35°   | 18.0    | 19.1    | 20.3    | 19.1    | 17.4    |
| 37.5° | 13.9    | 15.1    | 15.6    | 14.5    | 13.3    |
| 40°   | 11.6    | 12.2    | 12.7    | 12.2    | 11.6    |
| 42.5° | 9.8     | 10.4    | 10.4    | 10.4    | 9.8     |
| 45°   | 8.7     | 8.7     | 9.3     | 8.7     | 8.7     |
| 47.5° | 7.5     | 7.5     | 8.1     | 7.5     | 7.5     |
| 50°   | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     |
| 52.5° | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     |
| 55°   | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     |
| 57.5° | 5.2     | 5.2     | 5.2     | 5.2     | 5.2     |
| 60°   | 4.6     | 4.6     | 4.6     | 4.6     | 4.6     |
| 62.5° | 4.1     | 4.1     | 4.1     | 4.1     | 4.1     |
| 65°   | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 67.5° | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 70°   | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     |
| 72.5° | 2.3     | 2.3     | 2.3     | 2.3     | 2.3     |
| 75°   | 1.7     | 1.7     | 1.7     | 1.7     | 2.3     |
| 77.5° | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 80°   | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     |
| 82.5° | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     |
| 85°   | 0.6     | 0.6     | 0.6     | 0.6     | 0.6     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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Scaled Data Report



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