

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: P790619

Luminaire Tested: LER6D25D010-EC6DR1515309027-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790619  
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: LER6D25D010-EC6DR1515309027-6LBS1B  
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: 2740.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

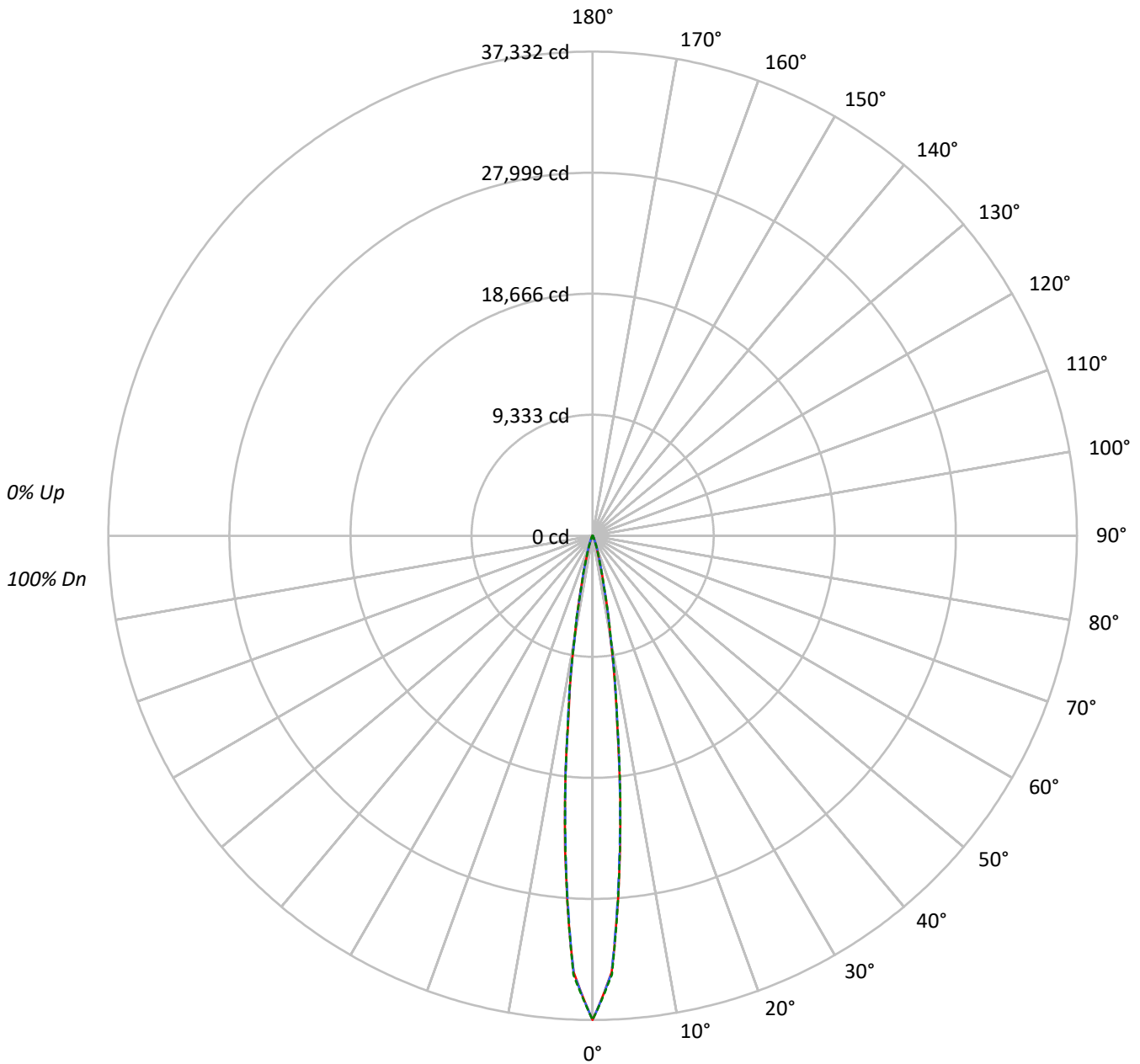
Input Watts (W): 25.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 4200617 | 4200617 | 4200617 |
| 5°  | 2468485 | 2436522 | 2455791 |
| 10° | 736729  | 741889  | 753244  |
| 15° | 183251  | 186820  | 181053  |
| 20° | 54829   | 63494   | 55991   |
| 25° | 19327   | 24624   | 19576   |
| 30° | 7099    | 9353    | 7219    |
| 35° | 3558    | 4016    | 3442    |
| 40° | 2244    | 2471    | 2244    |
| 45° | 1659    | 1771    | 1659    |
| 50° | 1321    | 1321    | 1321    |
| 55° | 1100    | 1100    | 1100    |
| 60° | 885     | 885     | 885     |
| 65° | 678     | 678     | 678     |
| 70° | 578     | 578     | 578     |
| 75° | 355     | 355     | 476     |
| 80° | 252     | 252     | 252     |
| 85° | 133     | 133     | 133     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1771 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1777.1 | 64.9      |
| 10°-20°   | 731.0  | 26.7      |
| 20°-30°   | 145.2  | 5.3       |
| 30°-40°   | 36.2   | 1.3       |
| 40°-50°   | 19.0   | 0.7       |
| 50°-60°   | 14.1   | 0.5       |
| 60°-70°   | 10.0   | 0.4       |
| 70°-80°   | 5.7    | 0.2       |
| 80°-90°   | 1.7    | 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°    | 2653.2 | 96.8      |
| 0°-40°    | 2689.5 | 98.2      |
| 0°-60°    | 2722.6 | 99.4      |
| 0°-90°    | 2740.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2740.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 37332 | 37332 | 37332 | 37332 | 37332 |      |
| 5°  | 24289 | 24040 | 23975 | 24141 | 24164 | 1774 |
| 15° | 2110  | 2149  | 2151  | 2113  | 2084  | 723  |
| 25° | 248   | 281   | 316   | 280   | 251   | 130  |
| 35° | 49    | 52    | 55    | 52    | 47    | 33   |
| 45° | 24    | 24    | 25    | 24    | 24    | 19   |
| 55° | 16    | 16    | 16    | 16    | 16    | 14   |
| 65° | 10    | 10    | 10    | 10    | 10    | 10   |
| 75° | 5     | 5     | 5     | 5     | 6     | 6    |
| 85° | 2     | 2     | 2     | 2     | 2     | 2    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 37332.2 | 37332.2 | 37332.2 | 37332.2 | 37332.2 |
| 2.5°  | 33675.2 | 33703.6 | 33714.7 | 33747.9 | 33871.2 |
| 5°    | 24289.2 | 24039.5 | 23974.7 | 24140.6 | 24164.3 |
| 7.5°  | 14388.0 | 14438.5 | 14623.5 | 14664.5 | 14516.0 |
| 10°   | 7895.7  | 7960.5  | 7951.0  | 8007.9  | 8072.7  |
| 12.5° | 4037.9  | 3987.4  | 3971.5  | 4036.3  | 3946.3  |
| 15°   | 2109.8  | 2149.3  | 2150.9  | 2113.0  | 2084.5  |
| 17.5° | 1134.7  | 1180.6  | 1256.4  | 1194.8  | 1100.0  |
| 20°   | 670.1   | 711.2   | 776.0   | 725.4   | 684.3   |
| 22.5° | 414.1   | 447.3   | 493.1   | 453.6   | 420.4   |
| 25°   | 248.1   | 281.3   | 316.1   | 279.7   | 251.3   |
| 27.5° | 147.0   | 175.4   | 197.6   | 173.8   | 145.4   |
| 30°   | 94.8    | 110.6   | 124.9   | 109.0   | 96.4    |
| 32.5° | 66.4    | 72.7    | 79.0    | 72.7    | 66.4    |
| 35°   | 49.0    | 52.2    | 55.3    | 52.2    | 47.4    |
| 37.5° | 37.9    | 41.1    | 42.7    | 39.5    | 36.3    |
| 40°   | 31.6    | 33.2    | 34.8    | 33.2    | 31.6    |
| 42.5° | 26.9    | 28.4    | 28.4    | 28.4    | 26.9    |
| 45°   | 23.7    | 23.7    | 25.3    | 23.7    | 23.7    |
| 47.5° | 20.5    | 20.5    | 22.1    | 20.5    | 20.5    |
| 50°   | 19.0    | 19.0    | 19.0    | 19.0    | 19.0    |
| 52.5° | 17.4    | 17.4    | 17.4    | 17.4    | 17.4    |
| 55°   | 15.8    | 15.8    | 15.8    | 15.8    | 15.8    |
| 57.5° | 14.2    | 14.2    | 14.2    | 14.2    | 14.2    |
| 60°   | 12.6    | 12.6    | 12.6    | 12.6    | 12.6    |
| 62.5° | 11.1    | 11.1    | 11.1    | 11.1    | 11.1    |
| 65°   | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     |
| 67.5° | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     |
| 70°   | 7.9     | 7.9     | 7.9     | 7.9     | 7.9     |
| 72.5° | 6.3     | 6.3     | 6.3     | 6.3     | 6.3     |
| 75°   | 4.7     | 4.7     | 4.7     | 4.7     | 6.3     |
| 77.5° | 4.7     | 4.7     | 4.7     | 4.7     | 4.7     |
| 80°   | 3.2     | 3.2     | 3.2     | 3.2     | 3.2     |
| 82.5° | 3.2     | 3.2     | 3.2     | 3.2     | 3.2     |
| 85°   | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     |
| 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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