

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: P790755

Luminaire Tested: LER6D25D010-EC6DR3020359024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790755  
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: LER6D25D010-EC6DR3020359024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4161.2 lumens  
Efficiency: N/A  
Efficacy: 165.8 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

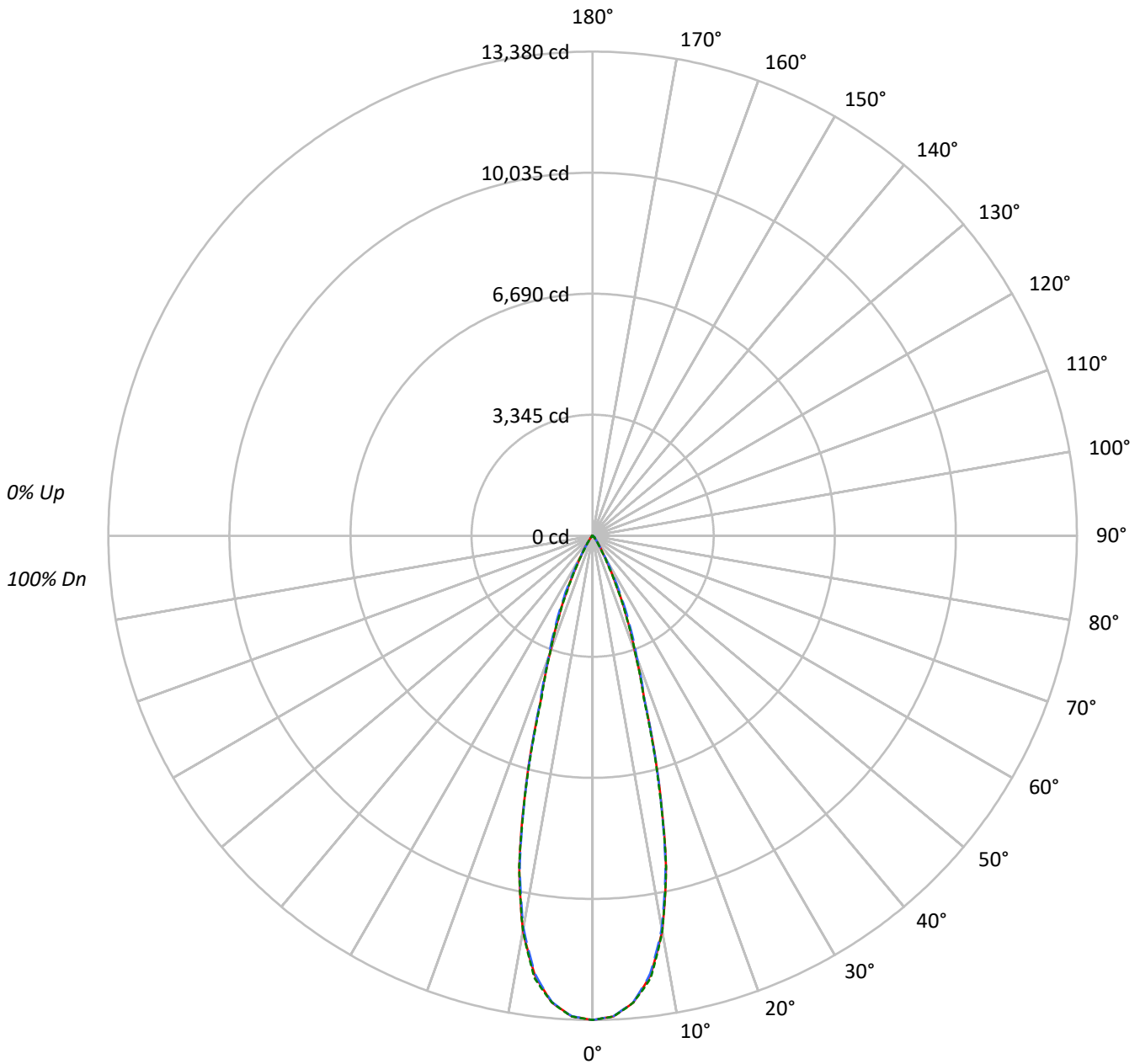
Input Watts (W): 25.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 | 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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |    |    |    | 96  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |    |    |    | 92  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |    |    |    | 89  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |    |    |    | 85  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |    |    |    | 82  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |    |    |    | 79  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |    |    |    | 77  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |    |    |    | 74  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |    |    |    | 72  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |    |    |    | 69  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1024174 | 1024174 | 1024174 |
| 5°  | 994770  | 993610  | 994824  |
| 10° | 861627  | 855549  | 861417  |
| 15° | 562170  | 559150  | 556337  |
| 20° | 279540  | 290031  | 279165  |
| 25° | 140814  | 158786  | 137926  |
| 30° | 56381   | 61427   | 49124   |
| 35° | 26154   | 25043   | 20996   |
| 40° | 11291   | 12540   | 10632   |
| 45° | 7967    | 9883    | 8032    |
| 50° | 2739    | 7192    | 2894    |
| 55° | 1575    | 2976    | 1668    |
| 60° | 1102    | 1301    | 1102    |
| 65° | 706     | 706     | 706     |
| 70° | 448     | 291     | 448     |
| 75° | 0       | 207     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9883 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1176.6 | 28.3      |
| 10°-20°   | 1894.9 | 45.5      |
| 20°-30°   | 818.8  | 19.7      |
| 30°-40°   | 186.6  | 4.5       |
| 40°-50°   | 64.1   | 1.5       |
| 50°-60°   | 15.7   | 0.4       |
| 60°-70°   | 4.0    | 0.1       |
| 70°-80°   | 0.4    | 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°    | 3890.4 | 93.5      |
| 0°-40°    | 4077.0 | 98.0      |
| 0°-60°    | 4156.7 | 99.9      |
| 0°-90°    | 4161.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4161.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 13380 | 13380 | 13380 | 13380 | 13380 |      |
| 5°  | 12947 | 12934 | 12932 | 12959 | 12947 | 1178 |
| 15° | 7094  | 7009  | 7056  | 7033  | 7021  | 1900 |
| 25° | 1667  | 1730  | 1880  | 1686  | 1633  | 798  |
| 35° | 280   | 286   | 268   | 266   | 225   | 190  |
| 45° | 74    | 91    | 91    | 91    | 74    | 52   |
| 55° | 12    | 12    | 22    | 13    | 12    | 12   |
| 65° | 4     | 4     | 4     | 4     | 4     | 4    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 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°    | 13380.3 | 13380.3 | 13380.3 | 13380.3 | 13380.3 |
| 2.5°  | 13291.6 | 13282.4 | 13287.7 | 13294.3 | 13296.9 |
| 5°    | 12946.7 | 12934.3 | 12931.6 | 12958.6 | 12947.4 |
| 7.5°  | 12251.1 | 12233.3 | 12206.4 | 12267.5 | 12324.6 |
| 10°   | 11085.7 | 11066.0 | 11007.5 | 11036.4 | 11083.0 |
| 12.5° | 9365.2  | 9301.4  | 9300.1  | 9392.1  | 9379.6  |
| 15°   | 7094.2  | 7008.8  | 7056.1  | 7033.1  | 7020.6  |
| 17.5° | 4770.6  | 4737.8  | 4800.8  | 4781.8  | 4699.7  |
| 20°   | 3431.8  | 3440.3  | 3560.6  | 3500.1  | 3427.2  |
| 22.5° | 2504.2  | 2535.1  | 2677.6  | 2521.9  | 2464.8  |
| 25°   | 1667.3  | 1730.3  | 1880.1  | 1686.3  | 1633.1  |
| 27.5° | 1025.5  | 1054.4  | 1206.1  | 1012.3  | 983.4   |
| 30°   | 637.9   | 623.4   | 695.0   | 596.5   | 555.8   |
| 32.5° | 418.5   | 400.1   | 423.1   | 379.7   | 346.9   |
| 35°   | 279.9   | 285.8   | 268.0   | 266.1   | 224.7   |
| 37.5° | 174.7   | 201.0   | 177.4   | 189.2   | 144.5   |
| 40°   | 113.0   | 145.8   | 125.5   | 138.6   | 106.4   |
| 42.5° | 92.6    | 112.3   | 103.1   | 109.7   | 94.6    |
| 45°   | 73.6    | 91.3    | 91.3    | 91.3    | 74.2    |
| 47.5° | 40.7    | 61.1    | 78.2    | 62.4    | 43.4    |
| 50°   | 23.0    | 30.9    | 60.4    | 32.2    | 24.3    |
| 52.5° | 15.8    | 17.7    | 41.4    | 18.4    | 16.4    |
| 55°   | 11.8    | 12.5    | 22.3    | 13.1    | 12.5    |
| 57.5° | 9.2     | 9.9     | 11.8    | 9.9     | 9.2     |
| 60°   | 7.2     | 7.2     | 8.5     | 7.9     | 7.2     |
| 62.5° | 5.3     | 5.3     | 5.9     | 5.3     | 5.3     |
| 65°   | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     |
| 67.5° | 2.0     | 2.6     | 2.6     | 2.6     | 2.6     |
| 70°   | 2.0     | 1.3     | 1.3     | 1.3     | 2.0     |
| 72.5° | 1.3     | 0.7     | 0.7     | 0.7     | 0.7     |
| 75°   | 0.0     | 0.0     | 0.7     | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report







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

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