

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: P790644

Luminaire Tested: LER6D25D010-EC6DR1515309040-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790644  
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-EC6DR1515309040-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3270.3 lumens  
Efficiency: N/A  
Efficacy: 130.3 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

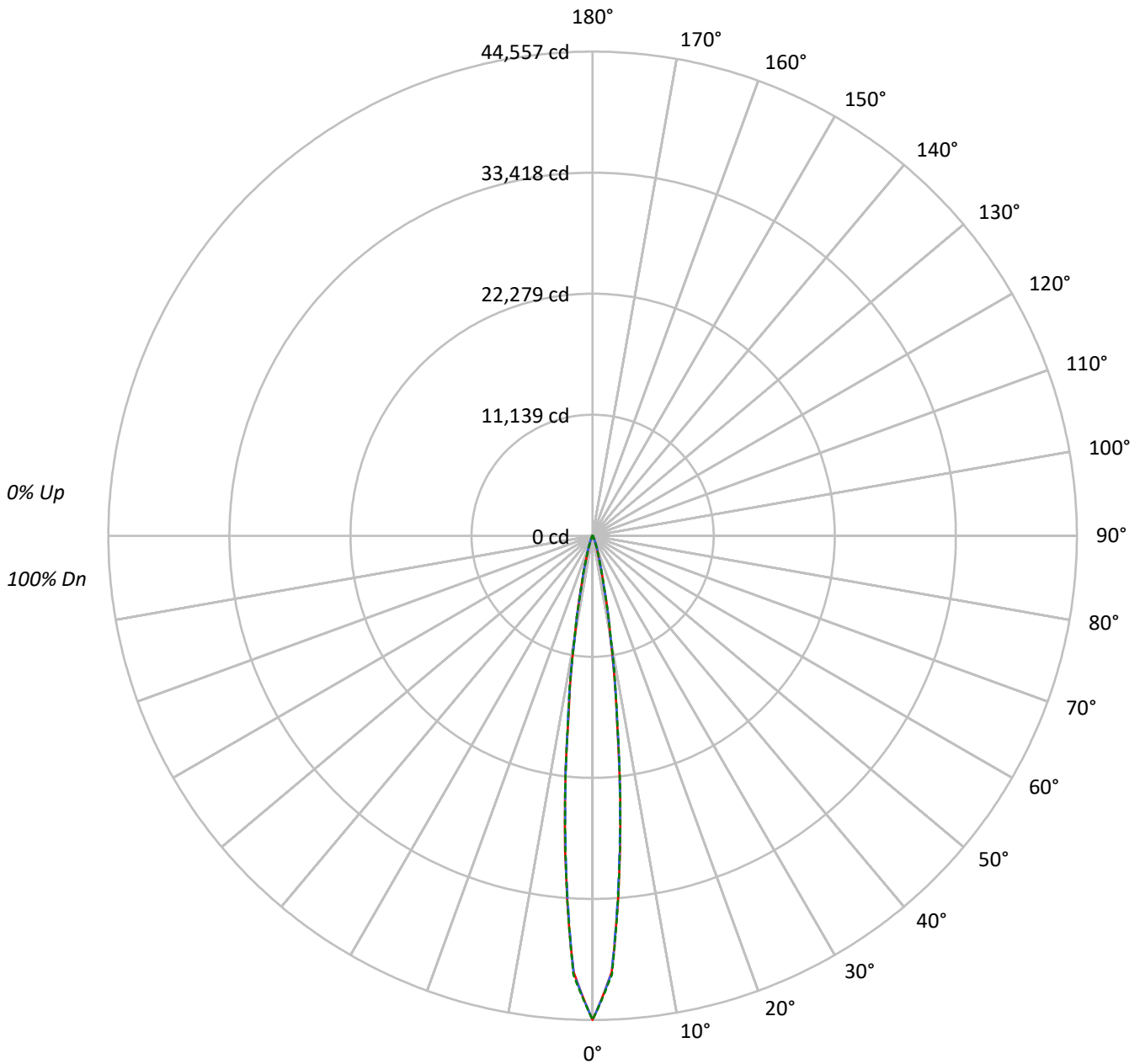
Input Watts (W): 25.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°  | 5013563 | 5013563 | 5013563 |
| 5°  | 2946202 | 2908060 | 2931059 |
| 10° | 879303  | 885461  | 899019  |
| 15° | 218714  | 222979  | 216100  |
| 20° | 65442   | 75784   | 66825   |
| 25° | 23066   | 29392   | 23362   |
| 30° | 8477    | 11157   | 8619    |
| 35° | 4248    | 4793    | 4110    |
| 40° | 2677    | 2947    | 2677    |
| 45° | 1981    | 2114    | 1981    |
| 50° | 1572    | 1572    | 1572    |
| 55° | 1316    | 1316    | 1316    |
| 60° | 1060    | 1060    | 1060    |
| 65° | 806     | 806     | 806     |
| 70° | 687     | 687     | 687     |
| 75° | 431     | 431     | 567     |
| 80° | 300     | 300     | 300     |
| 85° | 158     | 158     | 158     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2114 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2121.0 | 64.9      |
| 10°-20°   | 872.4  | 26.7      |
| 20°-30°   | 173.3  | 5.3       |
| 30°-40°   | 43.2   | 1.3       |
| 40°-50°   | 22.7   | 0.7       |
| 50°-60°   | 16.9   | 0.5       |
| 60°-70°   | 11.9   | 0.4       |
| 70°-80°   | 6.8    | 0.2       |
| 80°-90°   | 2.1    | 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°    | 3166.7 | 96.8      |
| 0°-40°    | 3210.0 | 98.2      |
| 0°-60°    | 3249.6 | 99.4      |
| 0°-90°    | 3270.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3270.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 44557 | 44557 | 44557 | 44557 | 44557 |      |
| 5°  | 28990 | 28692 | 28614 | 28812 | 28841 | 2117 |
| 15° | 2518  | 2565  | 2567  | 2522  | 2488  | 863  |
| 25° | 296   | 336   | 377   | 334   | 300   | 156  |
| 35° | 58    | 62    | 66    | 62    | 57    | 40   |
| 45° | 28    | 28    | 30    | 28    | 28    | 22   |
| 55° | 19    | 19    | 19    | 19    | 19    | 17   |
| 65° | 11    | 11    | 11    | 11    | 11    | 12   |
| 75° | 6     | 6     | 6     | 6     | 8     | 7    |
| 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°    | 44557.1 | 44557.1 | 44557.1 | 44557.1 | 44557.1 |
| 2.5°  | 40192.3 | 40226.3 | 40239.5 | 40279.1 | 40426.2 |
| 5°    | 28989.8 | 28691.8 | 28614.5 | 28812.5 | 28840.8 |
| 7.5°  | 17172.5 | 17232.8 | 17453.5 | 17502.6 | 17325.2 |
| 10°   | 9423.7  | 9501.1  | 9489.7  | 9557.7  | 9635.0  |
| 12.5° | 4819.4  | 4759.0  | 4740.2  | 4817.5  | 4710.0  |
| 15°   | 2518.1  | 2565.3  | 2567.2  | 2521.9  | 2488.0  |
| 17.5° | 1354.3  | 1409.0  | 1499.6  | 1426.0  | 1312.8  |
| 20°   | 799.8   | 848.8   | 926.2   | 865.8   | 816.7   |
| 22.5° | 494.2   | 533.8   | 588.5   | 541.4   | 501.7   |
| 25°   | 296.1   | 335.8   | 377.3   | 333.9   | 299.9   |
| 27.5° | 175.4   | 209.4   | 235.8   | 207.5   | 173.5   |
| 30°   | 113.2   | 132.0   | 149.0   | 130.2   | 115.1   |
| 32.5° | 79.2    | 86.8    | 94.3    | 86.8    | 79.2    |
| 35°   | 58.5    | 62.2    | 66.0    | 62.2    | 56.6    |
| 37.5° | 45.3    | 49.0    | 50.9    | 47.2    | 43.4    |
| 40°   | 37.7    | 39.6    | 41.5    | 39.6    | 37.7    |
| 42.5° | 32.1    | 34.0    | 34.0    | 34.0    | 32.1    |
| 45°   | 28.3    | 28.3    | 30.2    | 28.3    | 28.3    |
| 47.5° | 24.5    | 24.5    | 26.4    | 24.5    | 24.5    |
| 50°   | 22.6    | 22.6    | 22.6    | 22.6    | 22.6    |
| 52.5° | 20.7    | 20.7    | 20.7    | 20.7    | 20.7    |
| 55°   | 18.9    | 18.9    | 18.9    | 18.9    | 18.9    |
| 57.5° | 17.0    | 17.0    | 17.0    | 17.0    | 17.0    |
| 60°   | 15.1    | 15.1    | 15.1    | 15.1    | 15.1    |
| 62.5° | 13.2    | 13.2    | 13.2    | 13.2    | 13.2    |
| 65°   | 11.3    | 11.3    | 11.3    | 11.3    | 11.3    |
| 67.5° | 11.3    | 11.3    | 11.3    | 11.3    | 11.3    |
| 70°   | 9.4     | 9.4     | 9.4     | 9.4     | 9.4     |
| 72.5° | 7.5     | 7.5     | 7.5     | 7.5     | 7.5     |
| 75°   | 5.7     | 5.7     | 5.7     | 5.7     | 5.7     |
| 77.5° | 5.7     | 5.7     | 5.7     | 5.7     | 5.7     |
| 80°   | 3.8     | 3.8     | 3.8     | 3.8     | 3.8     |
| 82.5° | 3.8     | 3.8     | 3.8     | 3.8     | 3.8     |
| 85°   | 1.9     | 1.9     | 1.9     | 1.9     | 1.9     |
| 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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