

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: P789451

Luminaire Tested: LER6D15D010-EC6DR1515309035-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P789451  
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: LER6D15D010-EC6DR1515309035-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1567.3 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

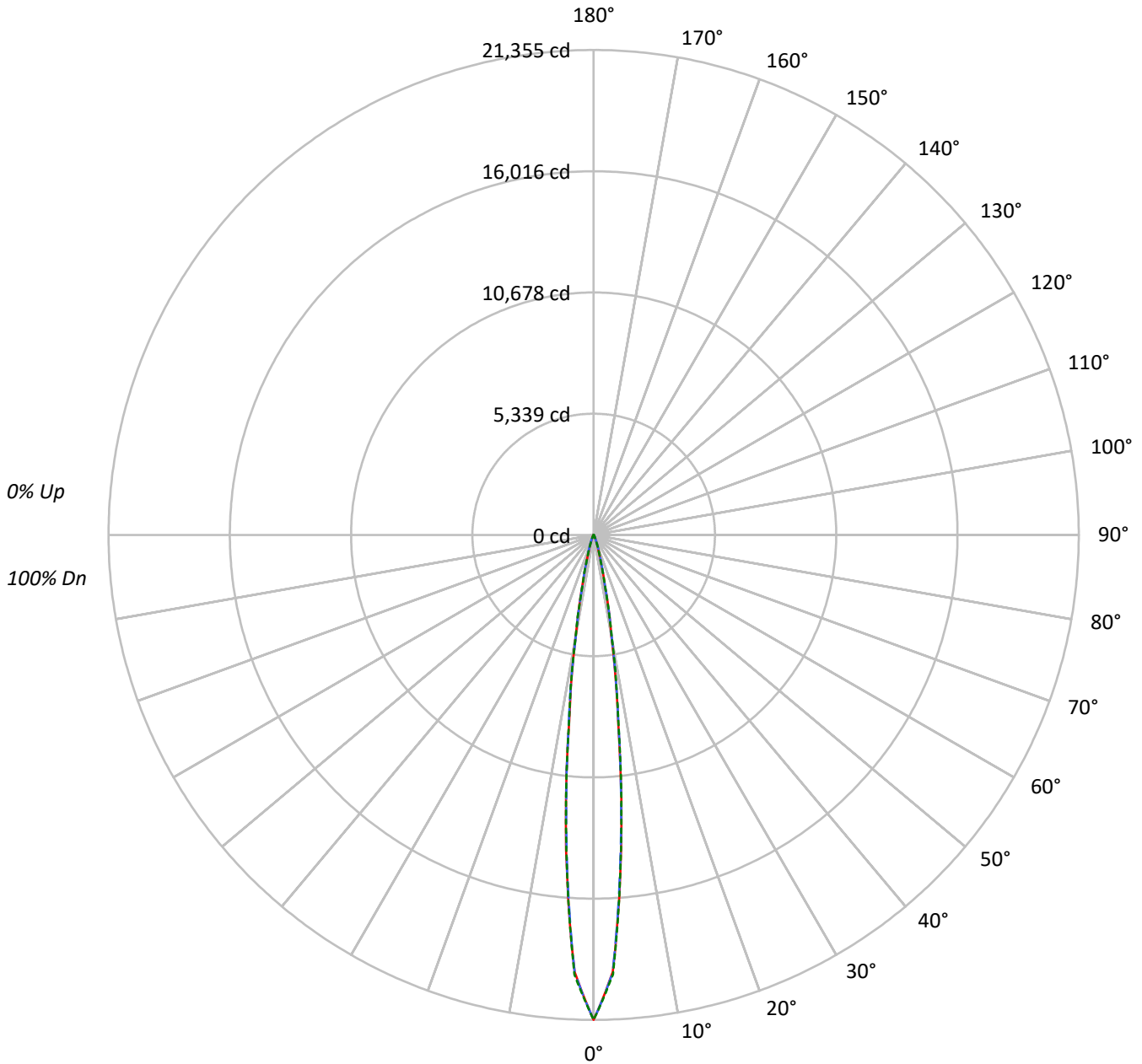
Input Watts (W): 15.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 |    |    |   | 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°  | 2402875 | 2402875 | 2402875 |
| 5°  | 1412042 | 1393759 | 1404786 |
| 10° | 421433  | 424382  | 430876  |
| 15° | 104828  | 106869  | 103568  |
| 20° | 31363   | 36321   | 32025   |
| 25° | 11054   | 14084   | 11194   |
| 30° | 4059    | 5347    | 4126    |
| 35° | 2033    | 2295    | 1968    |
| 40° | 1285    | 1413    | 1285    |
| 45° | 952     | 1015    | 952     |
| 50° | 751     | 751     | 751     |
| 55° | 626     | 626     | 626     |
| 60° | 506     | 506     | 506     |
| 65° | 385     | 385     | 385     |
| 70° | 329     | 329     | 329     |
| 75° | 204     | 204     | 272     |
| 80° | 142     | 142     | 142     |
| 85° | 75      | 75      | 75      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1015 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1016.5 | 64.9      |
| 10°-20°   | 418.1  | 26.7      |
| 20°-30°   | 83.0   | 5.3       |
| 30°-40°   | 20.7   | 1.3       |
| 40°-50°   | 10.9   | 0.7       |
| 50°-60°   | 8.0    | 0.5       |
| 60°-70°   | 5.7    | 0.4       |
| 70°-80°   | 3.2    | 0.2       |
| 80°-90°   | 1.0    | 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°    | 1517.7 | 96.8      |
| 0°-40°    | 1538.5 | 98.2      |
| 0°-60°    | 1557.4 | 99.4      |
| 0°-90°    | 1567.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1567.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 21355 | 21355 | 21355 | 21355 | 21355 |      |
| 5°  | 13894 | 13751 | 13714 | 13809 | 13823 | 1015 |
| 15° | 1207  | 1230  | 1230  | 1209  | 1192  | 414  |
| 25° | 142   | 161   | 181   | 160   | 144   | 75   |
| 35° | 28    | 30    | 32    | 30    | 27    | 19   |
| 45° | 14    | 14    | 14    | 14    | 14    | 11   |
| 55° | 9     | 9     | 9     | 9     | 9     | 8    |
| 65° | 5     | 5     | 5     | 5     | 5     | 6    |
| 75° | 3     | 3     | 3     | 3     | 4     | 3    |
| 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°    | 21355.1 | 21355.1 | 21355.1 | 21355.1 | 21355.1 |
| 2.5°  | 19263.2 | 19279.4 | 19285.8 | 19304.8 | 19375.3 |
| 5°    | 13894.1 | 13751.3 | 13714.2 | 13809.1 | 13822.7 |
| 7.5°  | 8230.3  | 8259.3  | 8365.0  | 8388.5  | 8303.6  |
| 10°   | 4516.6  | 4553.6  | 4548.2  | 4580.7  | 4617.8  |
| 12.5° | 2309.8  | 2280.9  | 2271.8  | 2308.9  | 2257.4  |
| 15°   | 1206.9  | 1229.5  | 1230.4  | 1208.7  | 1192.4  |
| 17.5° | 649.1   | 675.3   | 718.7   | 683.5   | 629.2   |
| 20°   | 383.3   | 406.8   | 443.9   | 415.0   | 391.4   |
| 22.5° | 236.9   | 255.8   | 282.1   | 259.5   | 240.5   |
| 25°   | 141.9   | 160.9   | 180.8   | 160.0   | 143.7   |
| 27.5° | 84.1    | 100.3   | 113.0   | 99.4    | 83.2    |
| 30°   | 54.2    | 63.3    | 71.4    | 62.4    | 55.1    |
| 32.5° | 38.0    | 41.6    | 45.2    | 41.6    | 38.0    |
| 35°   | 28.0    | 29.8    | 31.6    | 29.8    | 27.1    |
| 37.5° | 21.7    | 23.5    | 24.4    | 22.6    | 20.8    |
| 40°   | 18.1    | 19.0    | 19.9    | 19.0    | 18.1    |
| 42.5° | 15.4    | 16.3    | 16.3    | 16.3    | 15.4    |
| 45°   | 13.6    | 13.6    | 14.5    | 13.6    | 13.6    |
| 47.5° | 11.8    | 11.8    | 12.7    | 11.8    | 11.8    |
| 50°   | 10.8    | 10.8    | 10.8    | 10.8    | 10.8    |
| 52.5° | 9.9     | 9.9     | 9.9     | 9.9     | 9.9     |
| 55°   | 9.0     | 9.0     | 9.0     | 9.0     | 9.0     |
| 57.5° | 8.1     | 8.1     | 8.1     | 8.1     | 8.1     |
| 60°   | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     |
| 62.5° | 6.3     | 6.3     | 6.3     | 6.3     | 6.3     |
| 65°   | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 67.5° | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 70°   | 4.5     | 4.5     | 4.5     | 4.5     | 4.5     |
| 72.5° | 3.6     | 3.6     | 3.6     | 3.6     | 3.6     |
| 75°   | 2.7     | 2.7     | 2.7     | 2.7     | 3.6     |
| 77.5° | 2.7     | 2.7     | 2.7     | 2.7     | 2.7     |
| 80°   | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     |
| 82.5° | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     |
| 85°   | 0.9     | 0.9     | 0.9     | 0.9     | 0.9     |
| 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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