

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: P778249

Luminaire Tested: LERS4D15D010-EC4DR1515309050-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778249  
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: LERS4D15D010-EC4DR1515309050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1530.5 lumens  
Efficiency: N/A  
Efficacy: 96.9 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

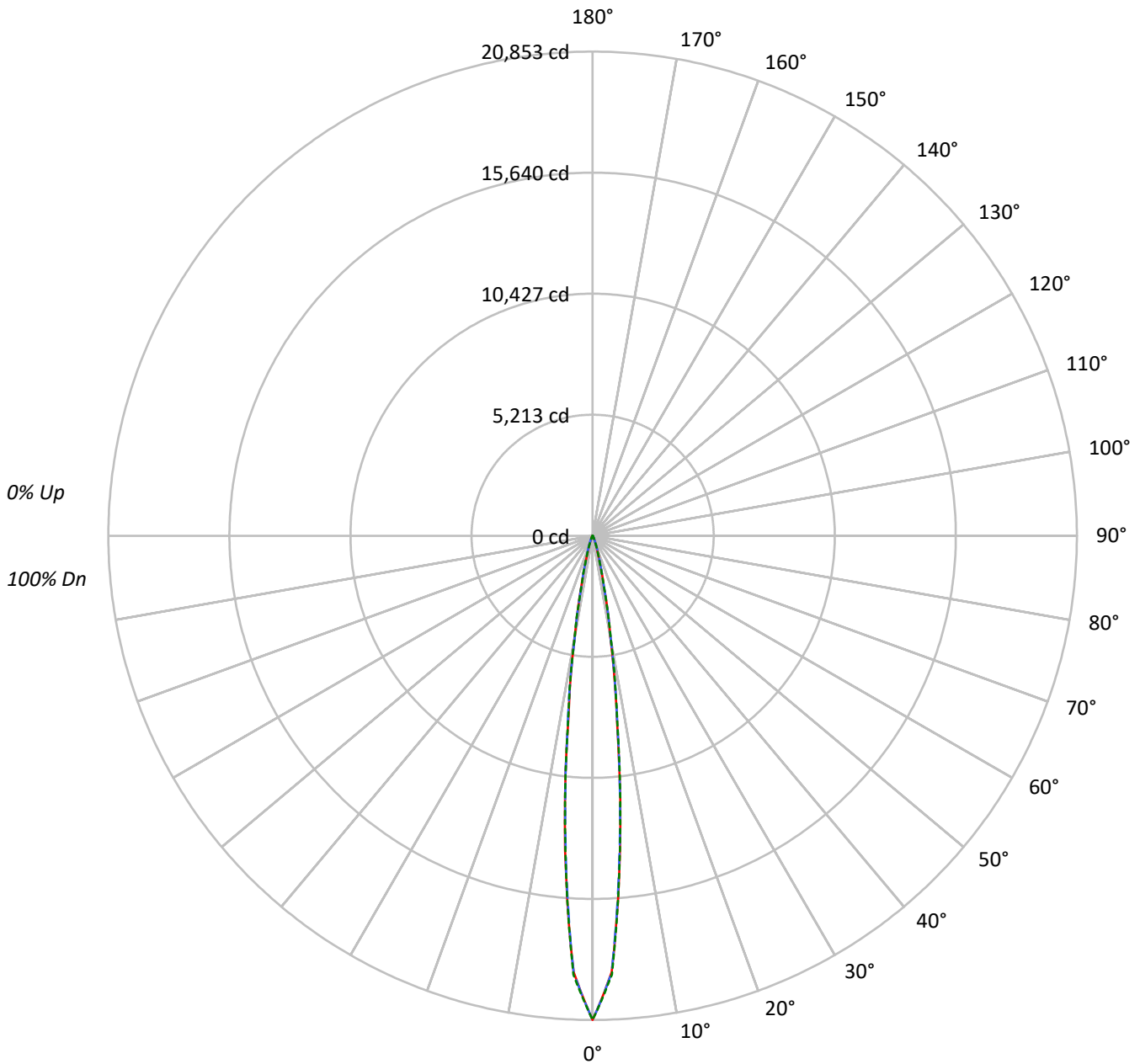


Downlight



TEST NUMBER: P778249  
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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  | 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°  | 2346345 | 2346345 | 2346345 |
| 5°  | 1378820 | 1360963 | 1371736 |
| 10° | 411514  | 414398  | 420743  |
| 15° | 102361  | 104350  | 101136  |
| 20° | 30626   | 35462   | 31273   |
| 25° | 10797   | 13757   | 10937   |
| 30° | 3969    | 5219    | 4029    |
| 35° | 1990    | 2244    | 1924    |
| 40° | 1257    | 1378    | 1257    |
| 45° | 924     | 987     | 924     |
| 50° | 737     | 737     | 737     |
| 55° | 613     | 613     | 613     |
| 60° | 498     | 498     | 498     |
| 65° | 378     | 378     | 378     |
| 70° | 322     | 322     | 322     |
| 75° | 197     | 197     | 265     |
| 80° | 142     | 142     | 142     |
| 85° | 75      | 75      | 75      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 987 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 992.6  | 64.9      |
| 10°-20°   | 408.3  | 26.7      |
| 20°-30°   | 81.1   | 5.3       |
| 30°-40°   | 20.2   | 1.3       |
| 40°-50°   | 10.6   | 0.7       |
| 50°-60°   | 7.9    | 0.5       |
| 60°-70°   | 5.6    | 0.4       |
| 70°-80°   | 3.1    | 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°    | 1482.0 | 96.8      |
| 0°-40°    | 1502.3 | 98.2      |
| 0°-60°    | 1520.8 | 99.4      |
| 0°-90°    | 1530.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1530.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 20853 | 20853 | 20853 | 20853 | 20853 |      |
| 5°  | 13567 | 13428 | 13392 | 13484 | 13498 | 991  |
| 15° | 1178  | 1201  | 1201  | 1180  | 1164  | 404  |
| 25° | 139   | 157   | 177   | 156   | 140   | 73   |
| 35° | 27    | 29    | 31    | 29    | 26    | 19   |
| 45° | 13    | 13    | 14    | 13    | 13    | 10   |
| 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°    | 20852.7 | 20852.7 | 20852.7 | 20852.7 | 20852.7 |
| 2.5°  | 18810.0 | 18825.8 | 18832.0 | 18850.6 | 18919.4 |
| 5°    | 13567.2 | 13427.7 | 13391.5 | 13484.2 | 13497.5 |
| 7.5°  | 8036.7  | 8064.9  | 8168.2  | 8191.2  | 8108.2  |
| 10°   | 4410.3  | 4446.5  | 4441.2  | 4473.0  | 4509.2  |
| 12.5° | 2255.5  | 2227.2  | 2218.4  | 2254.6  | 2204.3  |
| 15°   | 1178.5  | 1200.6  | 1201.4  | 1180.3  | 1164.4  |
| 17.5° | 633.8   | 659.4   | 701.8   | 667.4   | 614.4   |
| 20°   | 374.3   | 397.2   | 433.4   | 405.2   | 382.2   |
| 22.5° | 231.3   | 249.8   | 275.4   | 253.4   | 234.8   |
| 25°   | 138.6   | 157.1   | 176.6   | 156.2   | 140.4   |
| 27.5° | 82.1    | 98.0    | 110.3   | 97.1    | 81.2    |
| 30°   | 53.0    | 61.8    | 69.7    | 60.9    | 53.8    |
| 32.5° | 37.1    | 40.6    | 44.1    | 40.6    | 37.1    |
| 35°   | 27.4    | 29.1    | 30.9    | 29.1    | 26.5    |
| 37.5° | 21.2    | 23.0    | 23.8    | 22.1    | 20.3    |
| 40°   | 17.7    | 18.5    | 19.4    | 18.5    | 17.7    |
| 42.5° | 15.0    | 15.9    | 15.9    | 15.9    | 15.0    |
| 45°   | 13.2    | 13.2    | 14.1    | 13.2    | 13.2    |
| 47.5° | 11.5    | 11.5    | 12.4    | 11.5    | 11.5    |
| 50°   | 10.6    | 10.6    | 10.6    | 10.6    | 10.6    |
| 52.5° | 9.7     | 9.7     | 9.7     | 9.7     | 9.7     |
| 55°   | 8.8     | 8.8     | 8.8     | 8.8     | 8.8     |
| 57.5° | 7.9     | 7.9     | 7.9     | 7.9     | 7.9     |
| 60°   | 7.1     | 7.1     | 7.1     | 7.1     | 7.1     |
| 62.5° | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     |
| 65°   | 5.3     | 5.3     | 5.3     | 5.3     | 5.3     |
| 67.5° | 5.3     | 5.3     | 5.3     | 5.3     | 5.3     |
| 70°   | 4.4     | 4.4     | 4.4     | 4.4     | 4.4     |
| 72.5° | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 75°   | 2.6     | 2.6     | 2.6     | 2.6     | 3.5     |
| 77.5° | 2.6     | 2.6     | 2.6     | 2.6     | 2.6     |
| 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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