

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: P742932

Luminaire Tested: LD4D15D010-EU4DR1515309040-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742932  
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: LD4D15D010-EU4DR1515309040-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1453.6 lumens  
Efficiency: N/A  
Efficacy: 92.0 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 (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

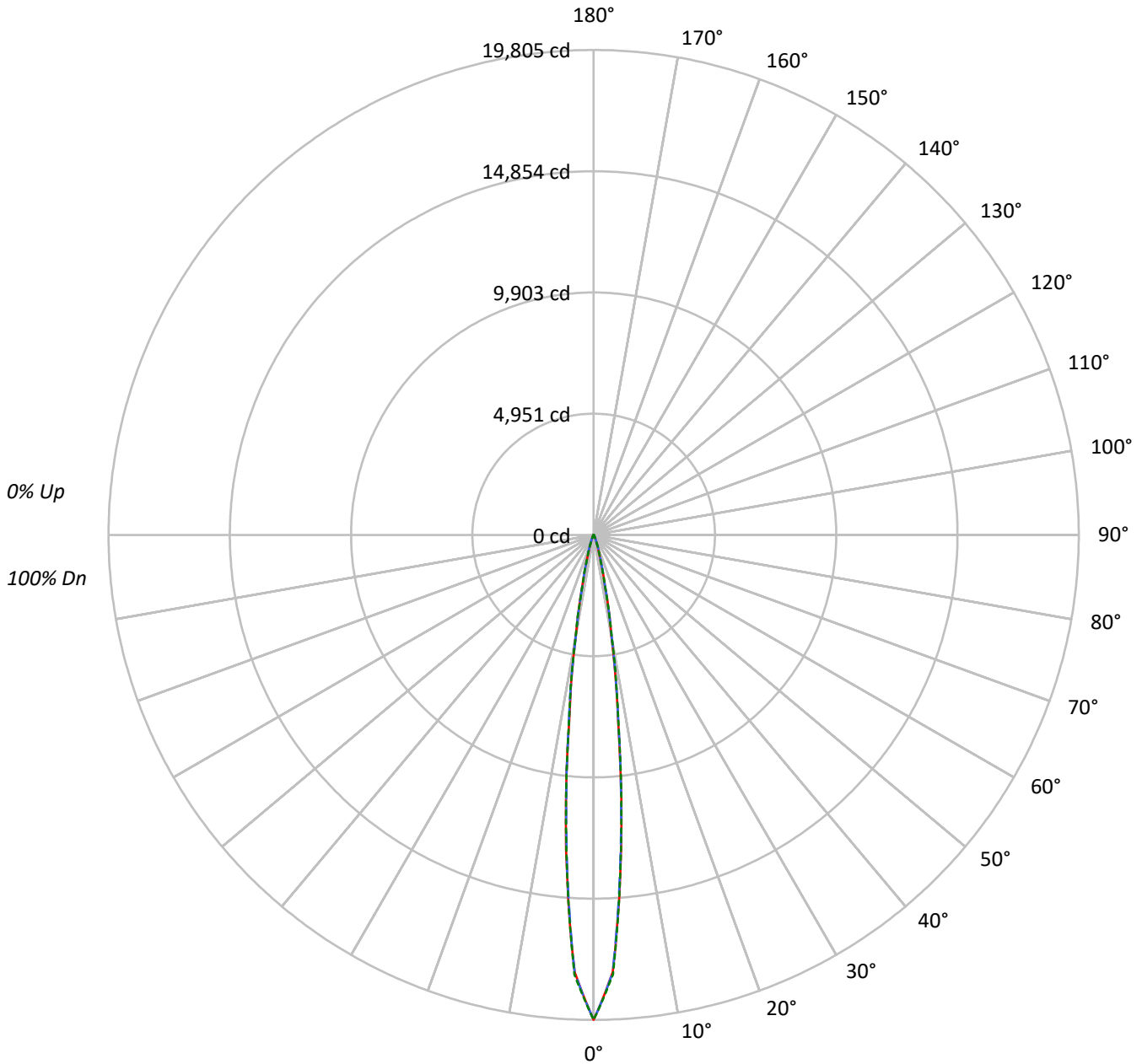


Downlight



TEST NUMBER: P742932  
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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°  | 2228435 | 2228435 | 2228435 |
| 5°  | 1309539 | 1292577 | 1302801 |
| 10° | 390838  | 393571  | 399599  |
| 15° | 97219   | 99112   | 96055   |
| 20° | 29088   | 33686   | 29702   |
| 25° | 10252   | 13064   | 10384   |
| 30° | 3767    | 4957    | 3826    |
| 35° | 1888    | 2128    | 1830    |
| 40° | 1193    | 1307    | 1193    |
| 45° | 882     | 938     | 882     |
| 50° | 702     | 702     | 702     |
| 55° | 585     | 585     | 585     |
| 60° | 470     | 470     | 470     |
| 65° | 357     | 357     | 357     |
| 70° | 307     | 307     | 307     |
| 75° | 189     | 189     | 257     |
| 80° | 134     | 134     | 134     |
| 85° | 66      | 66      | 66      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 938 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 942.7  | 64.9      |
| 10°-20°   | 387.8  | 26.7      |
| 20°-30°   | 77.0   | 5.3       |
| 30°-40°   | 19.2   | 1.3       |
| 40°-50°   | 10.1   | 0.7       |
| 50°-60°   | 7.5    | 0.5       |
| 60°-70°   | 5.3    | 0.4       |
| 70°-80°   | 3.0    | 0.2       |
| 80°-90°   | 0.9    | 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°    | 1407.5 | 96.8      |
| 0°-40°    | 1426.8 | 98.2      |
| 0°-60°    | 1444.4 | 99.4      |
| 0°-90°    | 1453.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1453.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 19805 | 19805 | 19805 | 19805 | 19805 |      |
| 5°  | 12886 | 12753 | 12719 | 12807 | 12819 | 941  |
| 15° | 1119  | 1140  | 1141  | 1121  | 1106  | 384  |
| 25° | 132   | 149   | 168   | 148   | 133   | 69   |
| 35° | 26    | 28    | 29    | 28    | 25    | 18   |
| 45° | 13    | 13    | 13    | 13    | 13    | 10   |
| 55° | 8     | 8     | 8     | 8     | 8     | 7    |
| 65° | 5     | 5     | 5     | 5     | 5     | 5    |
| 75° | 2     | 2     | 2     | 2     | 3     | 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°    | 19804.8 | 19804.8 | 19804.8 | 19804.8 | 19804.8 |
| 2.5°  | 17864.7 | 17879.8 | 17885.7 | 17903.3 | 17968.7 |
| 5°    | 12885.5 | 12753.0 | 12718.6 | 12806.6 | 12819.2 |
| 7.5°  | 7632.8  | 7659.7  | 7757.8  | 7779.6  | 7700.8  |
| 10°   | 4188.7  | 4223.0  | 4218.0  | 4248.2  | 4282.6  |
| 12.5° | 2142.1  | 2115.3  | 2106.9  | 2141.3  | 2093.5  |
| 15°   | 1119.3  | 1140.2  | 1141.1  | 1120.9  | 1105.9  |
| 17.5° | 602.0   | 626.3   | 666.5   | 633.8   | 583.5   |
| 20°   | 355.5   | 377.3   | 411.7   | 384.8   | 363.0   |
| 22.5° | 219.7   | 237.3   | 261.6   | 240.6   | 223.0   |
| 25°   | 131.6   | 149.2   | 167.7   | 148.4   | 133.3   |
| 27.5° | 78.0    | 93.1    | 104.8   | 92.2    | 77.1    |
| 30°   | 50.3    | 58.7    | 66.2    | 57.8    | 51.1    |
| 32.5° | 35.2    | 38.6    | 41.9    | 38.6    | 35.2    |
| 35°   | 26.0    | 27.7    | 29.3    | 27.7    | 25.2    |
| 37.5° | 20.1    | 21.8    | 22.6    | 21.0    | 19.3    |
| 40°   | 16.8    | 17.6    | 18.4    | 17.6    | 16.8    |
| 42.5° | 14.3    | 15.1    | 15.1    | 15.1    | 14.3    |
| 45°   | 12.6    | 12.6    | 13.4    | 12.6    | 12.6    |
| 47.5° | 10.9    | 10.9    | 11.7    | 10.9    | 10.9    |
| 50°   | 10.1    | 10.1    | 10.1    | 10.1    | 10.1    |
| 52.5° | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     |
| 55°   | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 57.5° | 7.5     | 7.5     | 7.5     | 7.5     | 7.5     |
| 60°   | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |
| 62.5° | 5.9     | 5.9     | 5.9     | 5.9     | 5.9     |
| 65°   | 5.0     | 5.0     | 5.0     | 5.0     | 5.0     |
| 67.5° | 5.0     | 5.0     | 5.0     | 5.0     | 5.0     |
| 70°   | 4.2     | 4.2     | 4.2     | 4.2     | 4.2     |
| 72.5° | 3.4     | 3.4     | 3.4     | 3.4     | 3.4     |
| 75°   | 2.5     | 2.5     | 2.5     | 2.5     | 3.4     |
| 77.5° | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     |
| 80°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 82.5° | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 85°   | 0.8     | 0.8     | 0.8     | 0.8     | 0.8     |
| 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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