

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: P741903

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBCSSQMMS

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741903  
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: LD4D10D010-EU4DR150210IC9035-4LBCSSQMMS  
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 975.7 lumens  
Efficiency: N/A  
Efficacy: 83.4 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): 11.7  
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

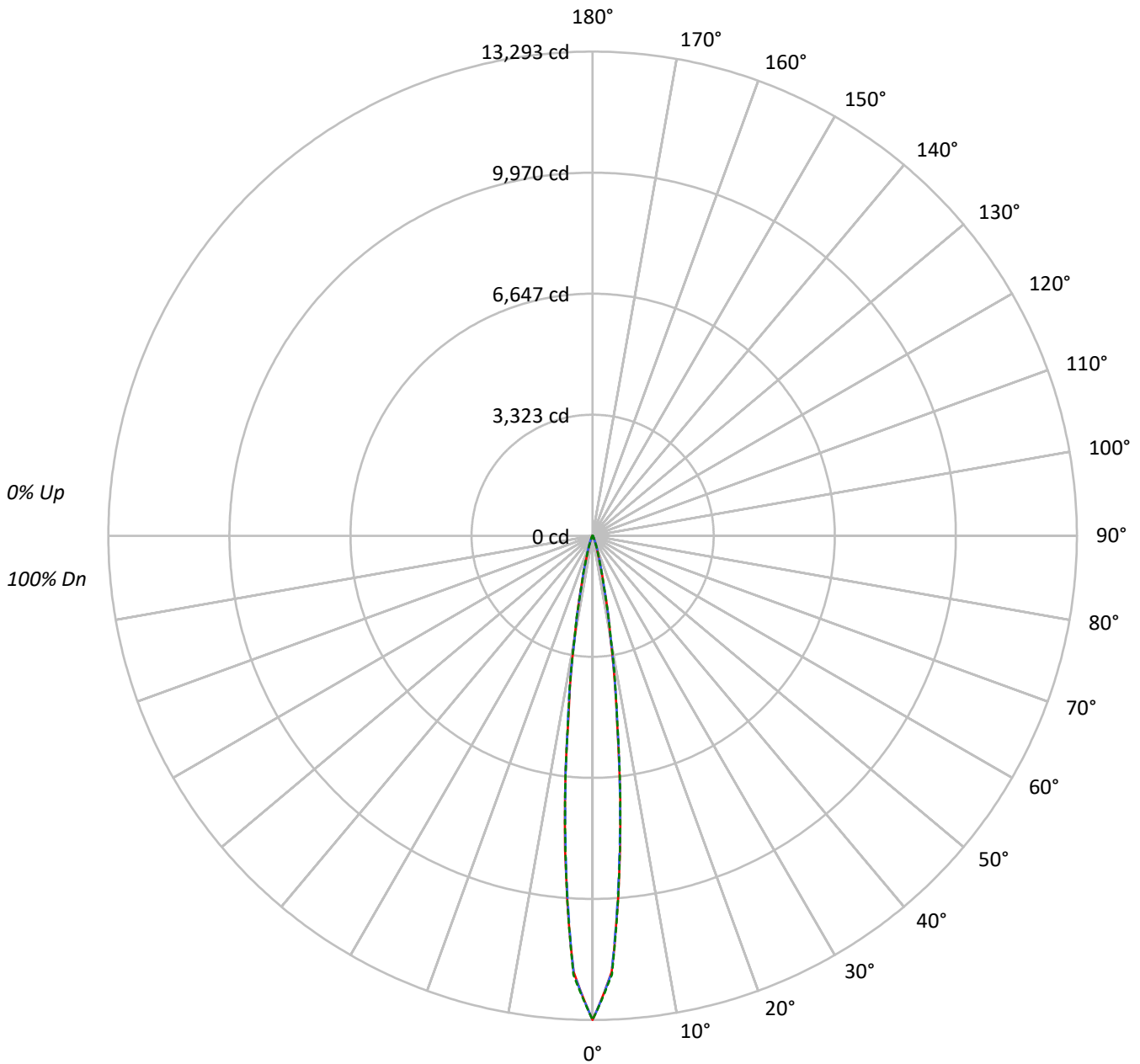


Downlight



TEST NUMBER: P741903  
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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  | 87  | 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°  | 1495705 | 1495705 | 1495705 |
| 5°  | 878948  | 867565  | 874425  |
| 10° | 262325  | 264163  | 268203  |
| 15° | 65247   | 66524   | 64465   |
| 20° | 19523   | 22608   | 19940   |
| 25° | 6879    | 8764    | 6972    |
| 30° | 2531    | 3332    | 2568    |
| 35° | 1264    | 1431    | 1227    |
| 40° | 802     | 881     | 802     |
| 45° | 588     | 630     | 588     |
| 50° | 473     | 473     | 473     |
| 55° | 390     | 390     | 390     |
| 60° | 316     | 316     | 316     |
| 65° | 243     | 243     | 243     |
| 70° | 205     | 205     | 205     |
| 75° | 128     | 128     | 174     |
| 80° | 87      | 87      | 87      |
| 85° | 50      | 50      | 50      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 630 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 632.8  | 64.9      |
| 10°-20°   | 260.3  | 26.7      |
| 20°-30°   | 51.7   | 5.3       |
| 30°-40°   | 12.9   | 1.3       |
| 40°-50°   | 6.8    | 0.7       |
| 50°-60°   | 5.0    | 0.5       |
| 60°-70°   | 3.6    | 0.4       |
| 70°-80°   | 2.0    | 0.2       |
| 80°-90°   | 0.6    | 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°    | 944.7  | 96.8      |
| 0°-40°    | 957.6  | 98.2      |
| 0°-60°    | 969.5  | 99.4      |
| 0°-90°    | 975.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 975.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 13293 | 13293 | 13293 | 13293 | 13293 |      |
| 5°  | 8649  | 8560  | 8537  | 8596  | 8604  | 632  |
| 15° | 751   | 765   | 766   | 752   | 742   | 258  |
| 25° | 88    | 100   | 112   | 100   | 90    | 46   |
| 35° | 17    | 19    | 20    | 19    | 17    | 12   |
| 45° | 8     | 8     | 9     | 8     | 8     | 7    |
| 55° | 6     | 6     | 6     | 6     | 6     | 5    |
| 65° | 3     | 3     | 3     | 3     | 3     | 4    |
| 75° | 2     | 2     | 2     | 2     | 2     | 2    |
| 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°    | 13292.8 | 13292.8 | 13292.8 | 13292.8 | 13292.8 |
| 2.5°  | 11990.6 | 12000.8 | 12004.7 | 12016.5 | 12060.4 |
| 5°    | 8648.6  | 8559.7  | 8536.6  | 8595.7  | 8604.1  |
| 7.5°  | 5123.1  | 5141.1  | 5206.9  | 5221.6  | 5168.7  |
| 10°   | 2811.4  | 2834.5  | 2831.1  | 2851.4  | 2874.4  |
| 12.5° | 1437.8  | 1419.8  | 1414.1  | 1437.2  | 1405.1  |
| 15°   | 751.2   | 765.3   | 765.9   | 752.4   | 742.2   |
| 17.5° | 404.0   | 420.4   | 447.4   | 425.4   | 391.7   |
| 20°   | 238.6   | 253.2   | 276.3   | 258.3   | 243.7   |
| 22.5° | 147.4   | 159.3   | 175.6   | 161.5   | 149.7   |
| 25°   | 88.3    | 100.2   | 112.5   | 99.6    | 89.5    |
| 27.5° | 52.3    | 62.5    | 70.3    | 61.9    | 51.8    |
| 30°   | 33.8    | 39.4    | 44.5    | 38.8    | 34.3    |
| 32.5° | 23.6    | 25.9    | 28.1    | 25.9    | 23.6    |
| 35°   | 17.4    | 18.6    | 19.7    | 18.6    | 16.9    |
| 37.5° | 13.5    | 14.6    | 15.2    | 14.1    | 12.9    |
| 40°   | 11.3    | 11.8    | 12.4    | 11.8    | 11.3    |
| 42.5° | 9.6     | 10.1    | 10.1    | 10.1    | 9.6     |
| 45°   | 8.4     | 8.4     | 9.0     | 8.4     | 8.4     |
| 47.5° | 7.3     | 7.3     | 7.9     | 7.3     | 7.3     |
| 50°   | 6.8     | 6.8     | 6.8     | 6.8     | 6.8     |
| 52.5° | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     |
| 55°   | 5.6     | 5.6     | 5.6     | 5.6     | 5.6     |
| 57.5° | 5.1     | 5.1     | 5.1     | 5.1     | 5.1     |
| 60°   | 4.5     | 4.5     | 4.5     | 4.5     | 4.5     |
| 62.5° | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     |
| 65°   | 3.4     | 3.4     | 3.4     | 3.4     | 3.4     |
| 67.5° | 3.4     | 3.4     | 3.4     | 3.4     | 3.4     |
| 70°   | 2.8     | 2.8     | 2.8     | 2.8     | 2.8     |
| 72.5° | 2.3     | 2.3     | 2.3     | 2.3     | 2.3     |
| 75°   | 1.7     | 1.7     | 1.7     | 1.7     | 2.3     |
| 77.5° | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 80°   | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     |
| 82.5° | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     |
| 85°   | 0.6     | 0.6     | 0.6     | 0.6     | 0.6     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Signify Classified - Internal  
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Scaled Data Report







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

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Scaled Data Report



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Scaled Data Report



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