

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: P739778

Luminaire Tested: LD4D05D010-EU4DR100210IC9027-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR100210IC9027-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 10° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 641.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.5  
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

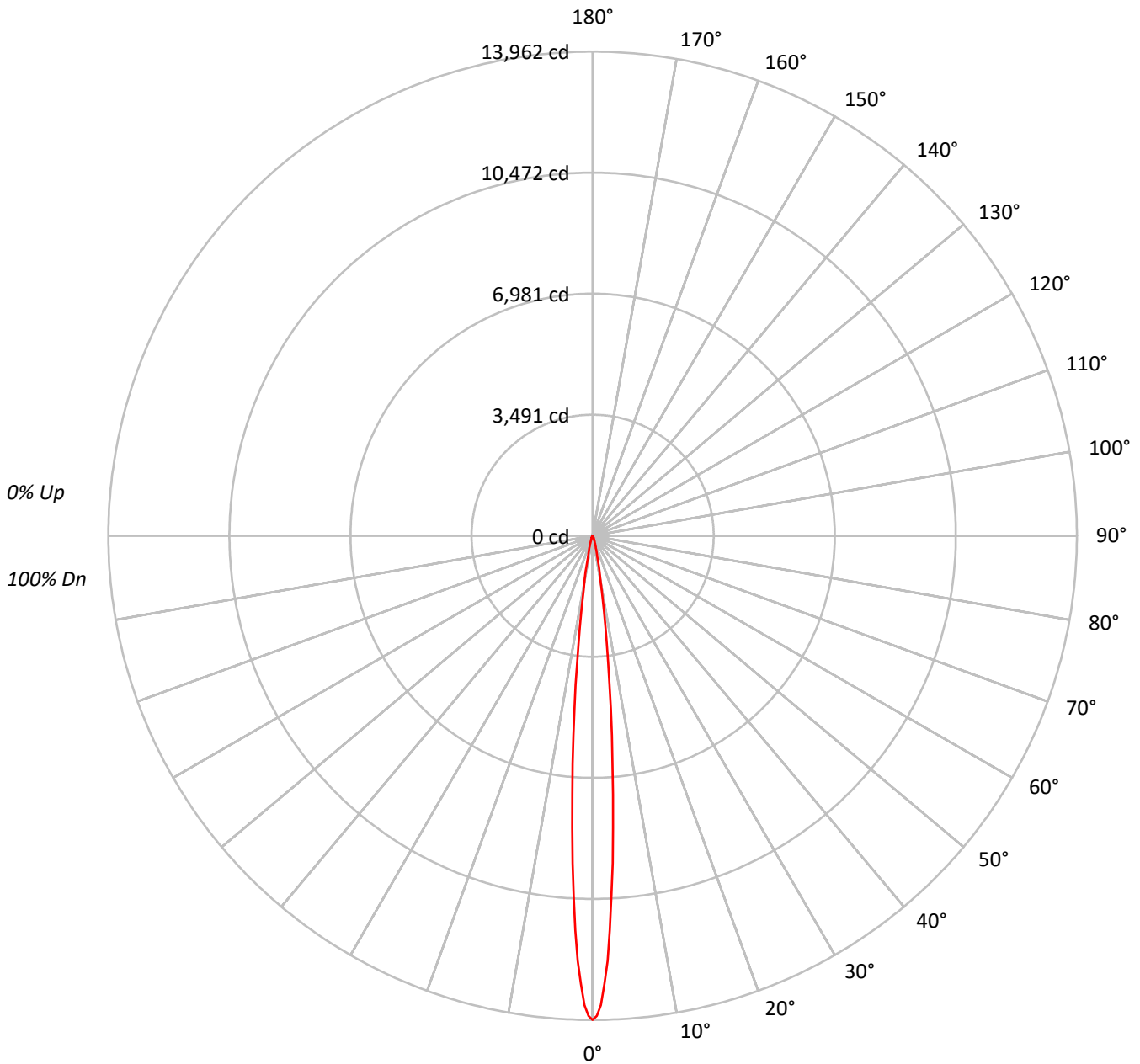


Downlight



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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 | 113 | 111 | 114 | 112 | 111 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 101 | 100 | 98  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 103 | 101 | 100 | 100 | 99  | 98  | 97  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99  | 101 | 99  | 98  | 99  | 98  | 96  | 95  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 108 | 104 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 99  | 97  | 99  | 97  | 96  | 98  | 96  | 95  | 94  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 106 | 102 | 99  | 96  | 105 | 101 | 98  | 96  | 99  | 97  | 95  | 98  | 96  | 94  | 97  | 95  | 94  | 93  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 104 | 100 | 96  | 94  | 103 | 99  | 96  | 94  | 98  | 95  | 93  | 97  | 94  | 93  | 96  | 94  | 92  | 91  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 103 | 98  | 95  | 93  | 102 | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 92  | 94  | 93  | 91  | 90  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 101 | 96  | 93  | 91  | 100 | 96  | 93  | 91  | 95  | 92  | 91  | 94  | 92  | 90  | 93  | 92  | 90  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 100 | 95  | 92  | 90  | 99  | 94  | 92  | 90  | 94  | 91  | 90  | 93  | 91  | 89  | 93  | 91  | 89  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 98  | 94  | 91  | 89  | 98  | 93  | 91  | 89  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 90  | 88  | 87  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1525466 |
| 5°  | 723371  |
| 10° | 148357  |
| 15° | 40733   |
| 20° | 16418   |
| 25° | 8801    |
| 30° | 5198    |
| 35° | 3388    |
| 40° | 2268    |
| 45° | 1468    |
| 50° | 816     |
| 55° | 610     |
| 60° | 350     |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1468 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 456.0  | 71.1      |
| 10°-20°   | 123.4  | 19.2      |
| 20°-30°   | 35.3   | 5.5       |
| 30°-40°   | 16.1   | 2.5       |
| 40°-50°   | 7.4    | 1.2       |
| 50°-60°   | 2.5    | 0.4       |
| 60°-70°   | 0.6    | 0.1       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 614.7  | 95.9      |
| 0°-40°    | 630.8  | 98.4      |
| 0°-60°    | 640.7  | 99.9      |
| 0°-90°    | 641.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 641.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 13962 |      |
| 5°  | 6595  | 456  |
| 15° | 360   | 123  |
| 25° | 73    | 35   |
| 35° | 25    | 16   |
| 45° | 10    | 7    |
| 55° | 3     | 2    |
| 65° | 0     | 1    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 13961.7 |
| 0.5°  | 13841.2 |
| 1°    | 13531.9 |
| 1.5°  | 12935.5 |
| 2°    | 12267.7 |
| 2.5°  | 11385.7 |
| 3°    | 10405.5 |
| 3.5°  | 9456.9  |
| 4°    | 8433.8  |
| 4.5°  | 7491.6  |
| 5°    | 6595.4  |
| 5.5°  | 5783.3  |
| 6°    | 5009.2  |
| 6.5°  | 4328.7  |
| 7°    | 3687.9  |
| 7.5°  | 3140.7  |
| 8°    | 2655.3  |
| 8.5°  | 2230.2  |
| 9°    | 1862.2  |
| 9.5°  | 1581.4  |
| 10°   | 1337.2  |
| 12.5° | 637.7   |
| 15°   | 360.1   |
| 17.5° | 218.9   |
| 20°   | 141.2   |
| 22.5° | 98.3    |
| 25°   | 73.0    |
| 27.5° | 53.9    |
| 30°   | 41.2    |
| 32.5° | 31.7    |
| 35°   | 25.4    |
| 37.5° | 19.0    |
| 40°   | 15.9    |
| 42.5° | 12.7    |
| 45°   | 9.5     |
| 47.5° | 6.3     |
| 50°   | 4.8     |
| 52.5° | 3.2     |
| 55°   | 3.2     |
| 57.5° | 1.6     |
| 60°   | 1.6     |
| 62.5° | 1.6     |
| 65°   | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 72.5° | 0.0 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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|       |  |     |
|-------|--|-----|
| 67.5° |  | 0.0 |
| 70°   |  | 0.0 |

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Scaled Data Report



(END OF REPORT)