

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: P740069

Luminaire Tested: LD4D05D010-EU4DR300210IC9024-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR300210IC9024-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 494.3 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.5  
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



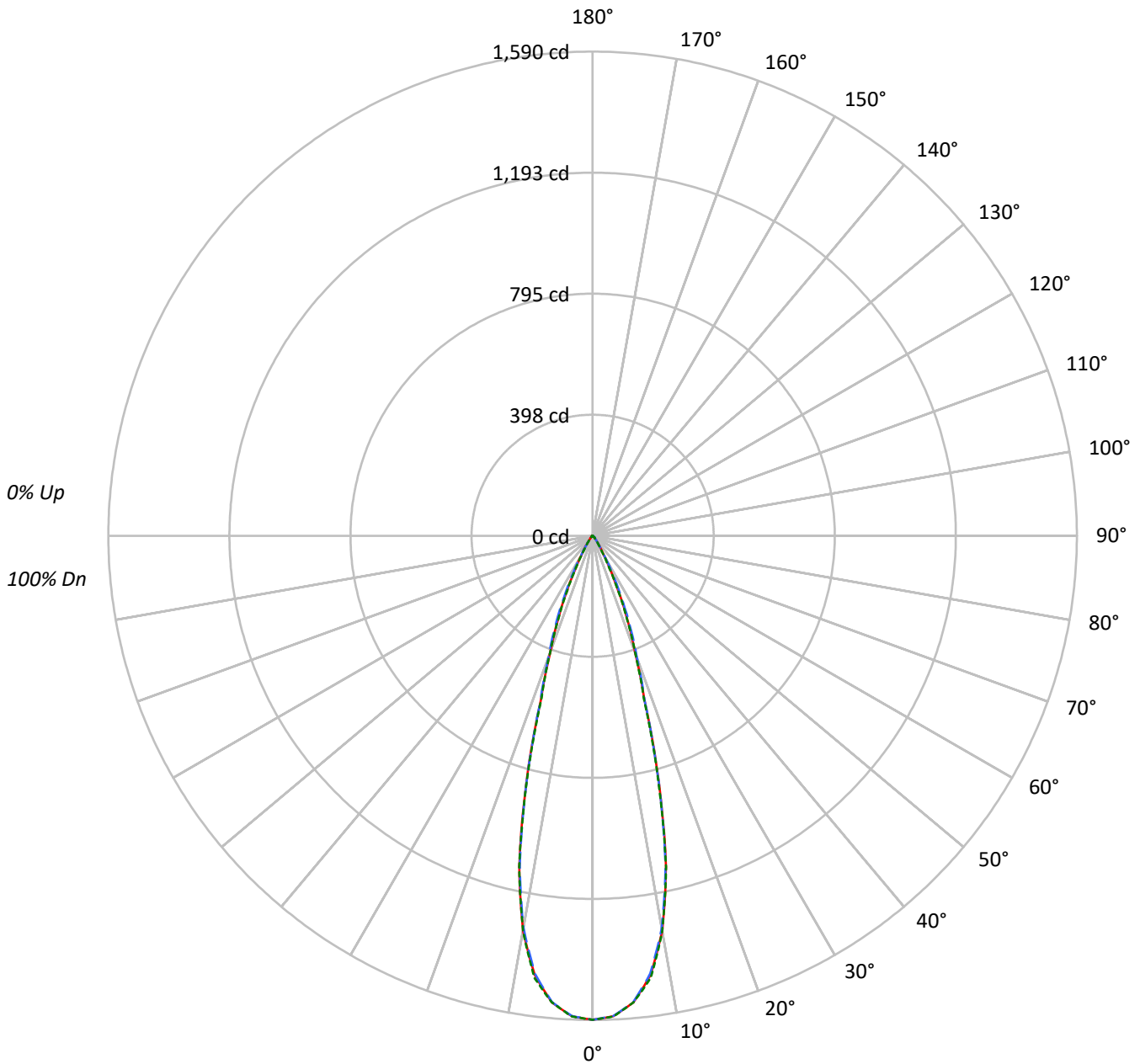
Downlight



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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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 121666 | 121666 | 121666 |
| 5°  | 118173 | 118043 | 118181 |
| 10° | 102355 | 101632 | 102332 |
| 15° | 66786  | 66422  | 66089  |
| 20° | 33210  | 34456  | 33161  |
| 25° | 16731  | 18859  | 16385  |
| 30° | 6700   | 7301   | 5833   |
| 35° | 3102   | 2981   | 2495   |
| 40° | 1339   | 1489   | 1269   |
| 45° | 953    | 1169   | 953    |
| 50° | 333    | 857    | 345    |
| 55° | 187    | 347    | 200    |
| 60° | 138    | 153    | 138    |
| 65° | 91     | 91     | 91     |
| 70° | 45     | 45     | 45     |
| 75° | 0      | 30     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1169 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.8  | 28.3      |
| 10°-20°   | 225.1  | 45.5      |
| 20°-30°   | 97.3   | 19.7      |
| 30°-40°   | 22.2   | 4.5       |
| 40°-50°   | 7.6    | 1.5       |
| 50°-60°   | 1.8    | 0.4       |
| 60°-70°   | 0.5    | 0.1       |
| 70°-80°   | 0.1    | 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°    | 462.2  | 93.5      |
| 0°-40°    | 484.3  | 98.0      |
| 0°-60°    | 493.8  | 99.9      |
| 0°-90°    | 494.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 494.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1590 | 1590  | 1590 | 1590  | 1590 |      |
| 5°  | 1538 | 1536  | 1536 | 1540  | 1538 | 140  |
| 15° | 843  | 833   | 838  | 836   | 834  | 226  |
| 25° | 198  | 206   | 223  | 200   | 194  | 95   |
| 35° | 33   | 34    | 32   | 32    | 27   | 23   |
| 45° | 9    | 11    | 11   | 11    | 9    | 6    |
| 55° | 1    | 2     | 3    | 2     | 2    | 1    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1589.5 | 1589.5 | 1589.5 | 1589.5 | 1589.5 |
| 2.5°  | 1579.0 | 1577.9 | 1578.5 | 1579.3 | 1579.6 |
| 5°    | 1538.0 | 1536.5 | 1536.3 | 1539.5 | 1538.1 |
| 7.5°  | 1455.4 | 1453.3 | 1450.1 | 1457.4 | 1464.1 |
| 10°   | 1316.9 | 1314.6 | 1307.6 | 1311.1 | 1316.6 |
| 12.5° | 1112.6 | 1105.0 | 1104.8 | 1115.8 | 1114.3 |
| 15°   | 842.8  | 832.6  | 838.2  | 835.5  | 834.0  |
| 17.5° | 566.8  | 562.8  | 570.3  | 568.1  | 558.3  |
| 20°   | 407.7  | 408.7  | 423.0  | 415.8  | 407.1  |
| 22.5° | 297.5  | 301.1  | 318.1  | 299.6  | 292.8  |
| 25°   | 198.1  | 205.6  | 223.3  | 200.3  | 194.0  |
| 27.5° | 121.8  | 125.2  | 143.3  | 120.3  | 116.8  |
| 30°   | 75.8   | 74.1   | 82.6   | 70.9   | 66.0   |
| 32.5° | 49.7   | 47.6   | 50.2   | 45.1   | 41.2   |
| 35°   | 33.2   | 34.0   | 31.9   | 31.6   | 26.7   |
| 37.5° | 20.7   | 23.9   | 21.1   | 22.5   | 17.2   |
| 40°   | 13.4   | 17.3   | 14.9   | 16.4   | 12.7   |
| 42.5° | 11.0   | 13.3   | 12.3   | 13.0   | 11.2   |
| 45°   | 8.8    | 10.8   | 10.8   | 10.8   | 8.8    |
| 47.5° | 4.8    | 7.3    | 9.3    | 7.4    | 5.2    |
| 50°   | 2.8    | 3.7    | 7.2    | 3.8    | 2.9    |
| 52.5° | 1.9    | 2.1    | 4.9    | 2.2    | 1.9    |
| 55°   | 1.4    | 1.5    | 2.6    | 1.5    | 1.5    |
| 57.5° | 1.1    | 1.1    | 1.4    | 1.1    | 1.1    |
| 60°   | 0.9    | 0.9    | 1.0    | 0.9    | 0.9    |
| 62.5° | 0.6    | 0.6    | 0.7    | 0.6    | 0.6    |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 67.5° | 0.2    | 0.3    | 0.3    | 0.3    | 0.3    |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 72.5° | 0.2    | 0.1    | 0.1    | 0.1    | 0.1    |
| 75°   | 0.0    | 0.0    | 0.1    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report







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

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