

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: P740095

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740095  
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-EU4DR300210IC9030-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 566.6 lumens  
Efficiency: N/A  
Efficacy: 75.5 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 (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



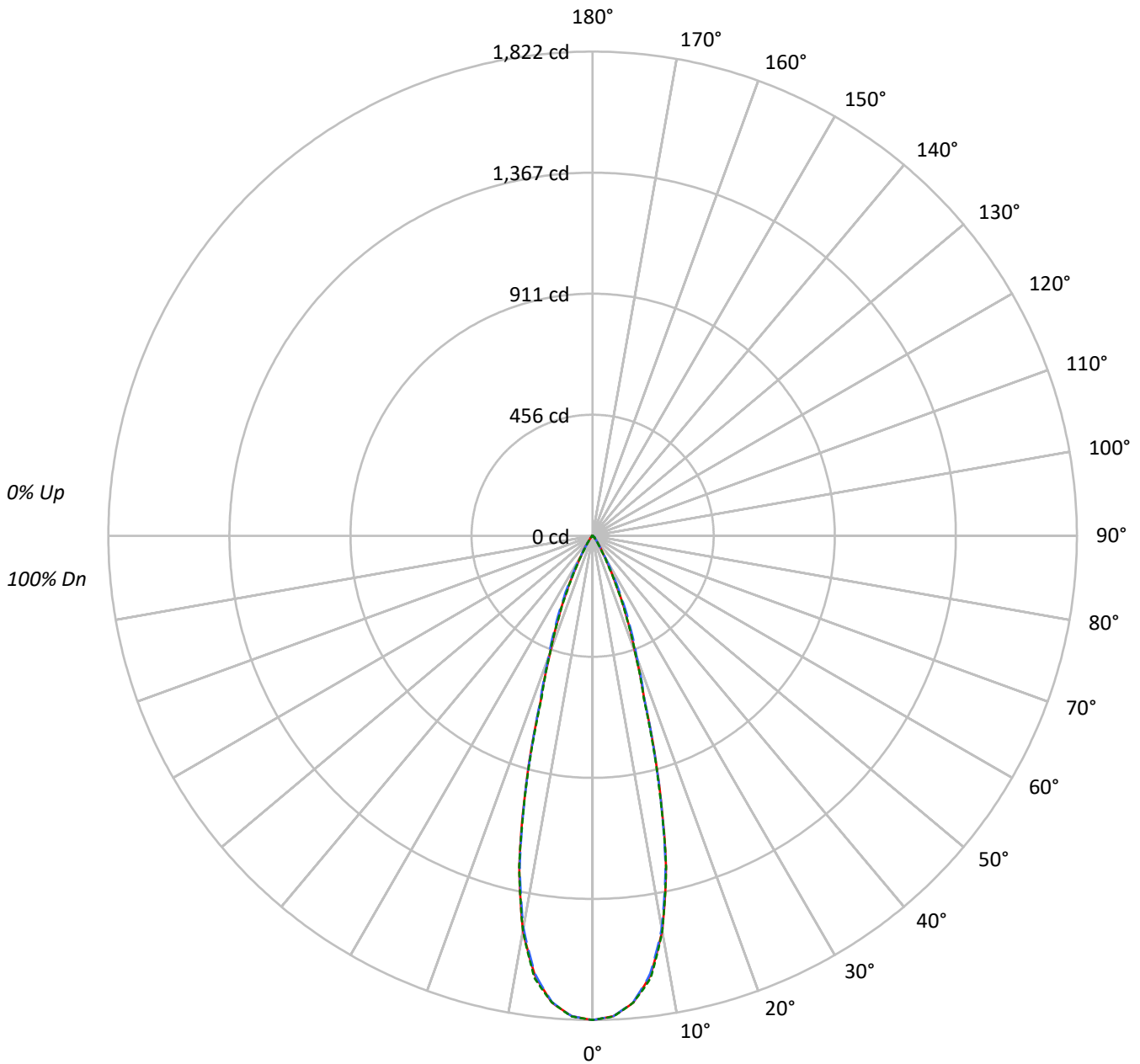
Downlight



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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   | 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  | 87  | 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°  | 139462 | 139462 | 139462 |
| 5°  | 135454 | 135292 | 135461 |
| 10° | 117325 | 116493 | 117301 |
| 15° | 76549  | 76137  | 75757  |
| 20° | 38064  | 39490  | 38015  |
| 25° | 19172  | 21621  | 18783  |
| 30° | 7681   | 8370   | 6691   |
| 35° | 3560   | 3411   | 2859   |
| 40° | 1539   | 1709   | 1449   |
| 45° | 1082   | 1342   | 1093   |
| 50° | 381    | 988    | 393    |
| 55° | 214    | 400    | 227    |
| 60° | 153    | 168    | 153    |
| 65° | 91     | 91     | 91     |
| 70° | 67     | 45     | 67     |
| 75° | 0      | 30     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1342 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.2  | 28.3      |
| 10°-20°   | 258.0  | 45.5      |
| 20°-30°   | 111.5  | 19.7      |
| 30°-40°   | 25.4   | 4.5       |
| 40°-50°   | 8.7    | 1.5       |
| 50°-60°   | 2.1    | 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°    | 529.7  | 93.5      |
| 0°-40°    | 555.2  | 98.0      |
| 0°-60°    | 566.0  | 99.9      |
| 0°-90°    | 566.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 566.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1822 | 1822  | 1822 | 1822  | 1822 |      |
| 5°  | 1763 | 1761  | 1761 | 1764  | 1763 | 160  |
| 15° | 966  | 954   | 961  | 958   | 956  | 259  |
| 25° | 227  | 236   | 256  | 230   | 222  | 109  |
| 35° | 38   | 39    | 36   | 36    | 31   | 26   |
| 45° | 10   | 12    | 12   | 12    | 10   | 7    |
| 55° | 2    | 2     | 3    | 2     | 2    | 2    |
| 65° | 0    | 0     | 0    | 0     | 0    | 1    |
| 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°    | 1822.0 | 1822.0 | 1822.0 | 1822.0 | 1822.0 |
| 2.5°  | 1809.9 | 1808.6 | 1809.4 | 1810.2 | 1810.6 |
| 5°    | 1762.9 | 1761.3 | 1760.8 | 1764.5 | 1763.0 |
| 7.5°  | 1668.2 | 1665.8 | 1662.1 | 1670.4 | 1678.2 |
| 10°   | 1509.5 | 1506.8 | 1498.8 | 1502.8 | 1509.2 |
| 12.5° | 1275.2 | 1266.6 | 1266.4 | 1278.9 | 1277.2 |
| 15°   | 966.0  | 954.4  | 960.8  | 957.7  | 956.0  |
| 17.5° | 649.6  | 645.1  | 653.7  | 651.1  | 639.9  |
| 20°   | 467.3  | 468.4  | 484.8  | 476.6  | 466.7  |
| 22.5° | 341.0  | 345.2  | 364.6  | 343.4  | 335.6  |
| 25°   | 227.0  | 235.6  | 256.0  | 229.6  | 222.4  |
| 27.5° | 139.6  | 143.6  | 164.2  | 137.9  | 133.9  |
| 30°   | 86.9   | 84.9   | 94.7   | 81.2   | 75.7   |
| 32.5° | 57.0   | 54.5   | 57.6   | 51.7   | 47.2   |
| 35°   | 38.1   | 38.9   | 36.5   | 36.2   | 30.6   |
| 37.5° | 23.8   | 27.4   | 24.2   | 25.8   | 19.7   |
| 40°   | 15.4   | 19.9   | 17.1   | 18.9   | 14.5   |
| 42.5° | 12.6   | 15.3   | 14.0   | 15.0   | 12.9   |
| 45°   | 10.0   | 12.4   | 12.4   | 12.4   | 10.1   |
| 47.5° | 5.6    | 8.3    | 10.7   | 8.5    | 5.9    |
| 50°   | 3.2    | 4.2    | 8.3    | 4.4    | 3.3    |
| 52.5° | 2.1    | 2.4    | 5.6    | 2.5    | 2.2    |
| 55°   | 1.6    | 1.7    | 3.0    | 1.8    | 1.7    |
| 57.5° | 1.3    | 1.3    | 1.6    | 1.3    | 1.3    |
| 60°   | 1.0    | 1.0    | 1.1    | 1.1    | 1.0    |
| 62.5° | 0.7    | 0.7    | 0.8    | 0.7    | 0.7    |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 67.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 70°   | 0.3    | 0.2    | 0.2    | 0.2    | 0.3    |
| 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    |

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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Scaled Data Report







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

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Scaled Data Report



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