

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: P750660

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750660  
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: LD4D60D010-EU4DR3055659027-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

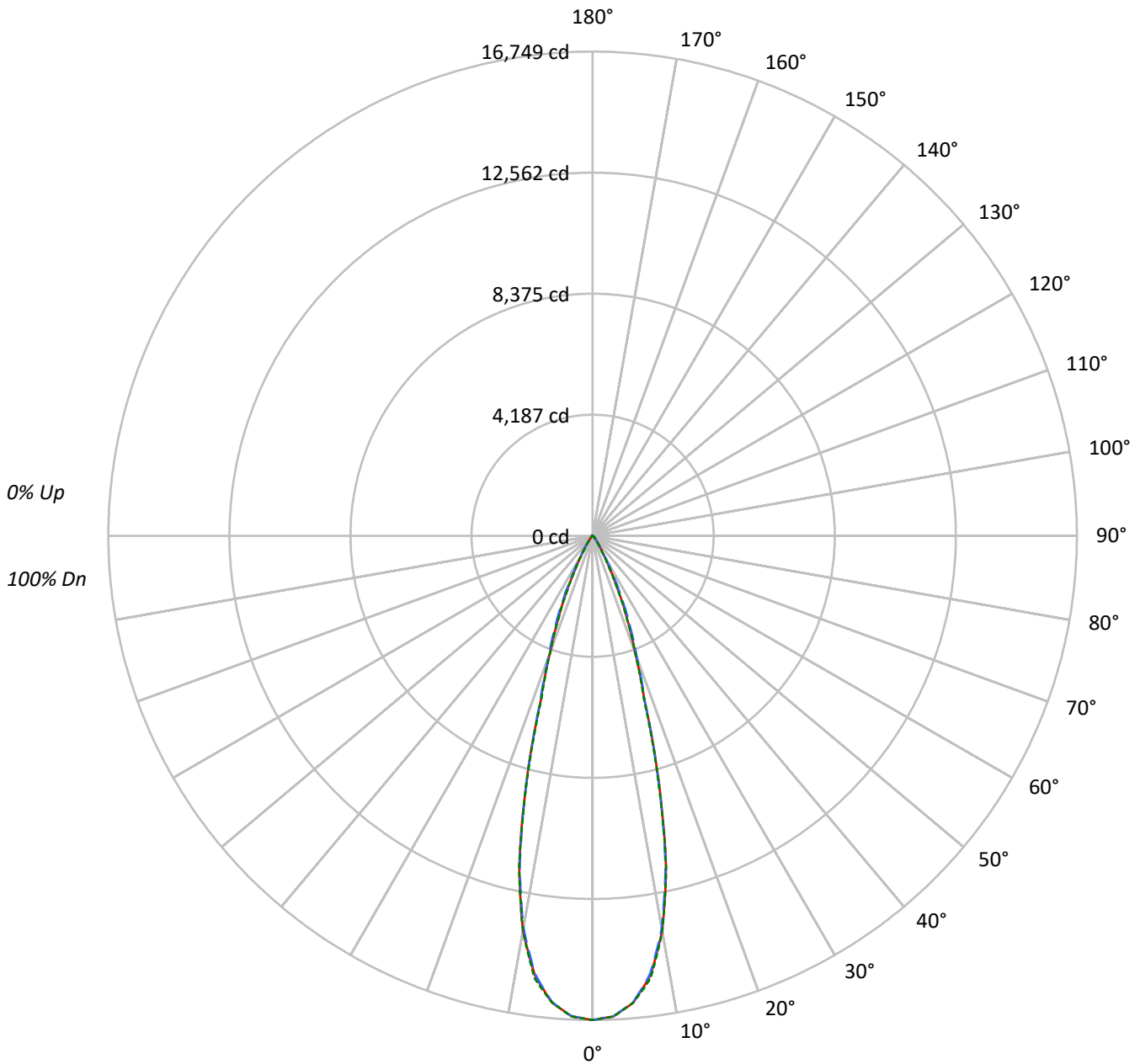
Lumens per Lamp: N/A  
Luminaire Lumens: 5208.8 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.4  
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



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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°  | 1282025 | 1282025 | 1282025 |
| 5°  | 1245224 | 1243771 | 1245285 |
| 10° | 1078555 | 1070946 | 1078299 |
| 15° | 703699  | 699919  | 696400  |
| 20° | 349918  | 363048  | 349445  |
| 25° | 176260  | 198768  | 172654  |
| 30° | 70575   | 76895   | 61489   |
| 35° | 32733   | 31350   | 26276   |
| 40° | 14129   | 15697   | 13309   |
| 45° | 9970    | 12373   | 10056   |
| 50° | 3430    | 9014    | 3620    |
| 55° | 1975    | 3737    | 2082    |
| 60° | 1378    | 1638    | 1378    |
| 65° | 887     | 887     | 887     |
| 70° | 559     | 358     | 559     |
| 75° | 0       | 237     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12373 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1472.8 | 28.3      |
| 10°-20°   | 2372.0 | 45.5      |
| 20°-30°   | 1025.0 | 19.7      |
| 30°-40°   | 233.6  | 4.5       |
| 40°-50°   | 80.2   | 1.5       |
| 50°-60°   | 19.6   | 0.4       |
| 60°-70°   | 5.1    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 4869.8 | 93.5      |
| 0°-40°    | 5103.4 | 98.0      |
| 0°-60°    | 5203.2 | 99.9      |
| 0°-90°    | 5208.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5208.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 16749 | 16749 | 16749 | 16749 | 16749 |      |
| 5°  | 16206 | 16191 | 16187 | 16221 | 16207 | 1474 |
| 15° | 8880  | 8773  | 8832  | 8804  | 8788  | 2378 |
| 25° | 2087  | 2166  | 2354  | 2111  | 2044  | 999  |
| 35° | 350   | 358   | 336   | 333   | 281   | 238  |
| 45° | 92    | 114   | 114   | 114   | 93    | 65   |
| 55° | 15    | 16    | 28    | 16    | 16    | 14   |
| 65° | 5     | 5     | 5     | 5     | 5     | 5    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 16749.0 | 16749.0 | 16749.0 | 16749.0 | 16749.0 |
| 2.5°  | 16638.0 | 16626.5 | 16633.1 | 16641.3 | 16644.6 |
| 5°    | 16206.3 | 16190.7 | 16187.4 | 16221.1 | 16207.1 |
| 7.5°  | 15335.4 | 15313.2 | 15279.5 | 15356.0 | 15427.5 |
| 10°   | 13876.7 | 13852.0 | 13778.8 | 13815.0 | 13873.4 |
| 12.5° | 11723.0 | 11643.2 | 11641.6 | 11756.7 | 11741.1 |
| 15°   | 8880.2  | 8773.3  | 8832.5  | 8803.8  | 8788.1  |
| 17.5° | 5971.7  | 5930.6  | 6009.5  | 5985.7  | 5882.9  |
| 20°   | 4295.8  | 4306.5  | 4457.0  | 4381.3  | 4290.0  |
| 22.5° | 3134.7  | 3173.3  | 3351.8  | 3156.9  | 3085.3  |
| 25°   | 2087.0  | 2166.0  | 2353.5  | 2110.9  | 2044.3  |
| 27.5° | 1283.6  | 1319.8  | 1509.8  | 1267.2  | 1231.0  |
| 30°   | 798.5   | 780.4   | 870.0   | 746.7   | 695.7   |
| 32.5° | 523.8   | 500.8   | 529.6   | 475.3   | 434.2   |
| 35°   | 350.3   | 357.7   | 335.5   | 333.0   | 281.2   |
| 37.5° | 218.7   | 251.6   | 222.0   | 236.8   | 180.9   |
| 40°   | 141.4   | 182.6   | 157.1   | 173.5   | 133.2   |
| 42.5° | 115.9   | 140.6   | 129.1   | 137.3   | 118.4   |
| 45°   | 92.1    | 114.3   | 114.3   | 114.3   | 92.9    |
| 47.5° | 51.0    | 76.5    | 97.9    | 78.1    | 54.3    |
| 50°   | 28.8    | 38.6    | 75.7    | 40.3    | 30.4    |
| 52.5° | 19.7    | 22.2    | 51.8    | 23.0    | 20.6    |
| 55°   | 14.8    | 15.6    | 28.0    | 16.4    | 15.6    |
| 57.5° | 11.5    | 12.3    | 14.8    | 12.3    | 11.5    |
| 60°   | 9.0     | 9.0     | 10.7    | 9.9     | 9.0     |
| 62.5° | 6.6     | 6.6     | 7.4     | 6.6     | 6.6     |
| 65°   | 4.9     | 4.9     | 4.9     | 4.9     | 4.9     |
| 67.5° | 2.5     | 3.3     | 3.3     | 3.3     | 3.3     |
| 70°   | 2.5     | 1.6     | 1.6     | 1.6     | 2.5     |
| 72.5° | 1.6     | 0.8     | 0.8     | 0.8     | 0.8     |
| 75°   | 0.0     | 0.0     | 0.8     | 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



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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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