

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: P750668

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750668  
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-EU4DR3055659027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW 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: 5706.5 lumens  
Efficiency: N/A  
Efficacy: 88.6 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

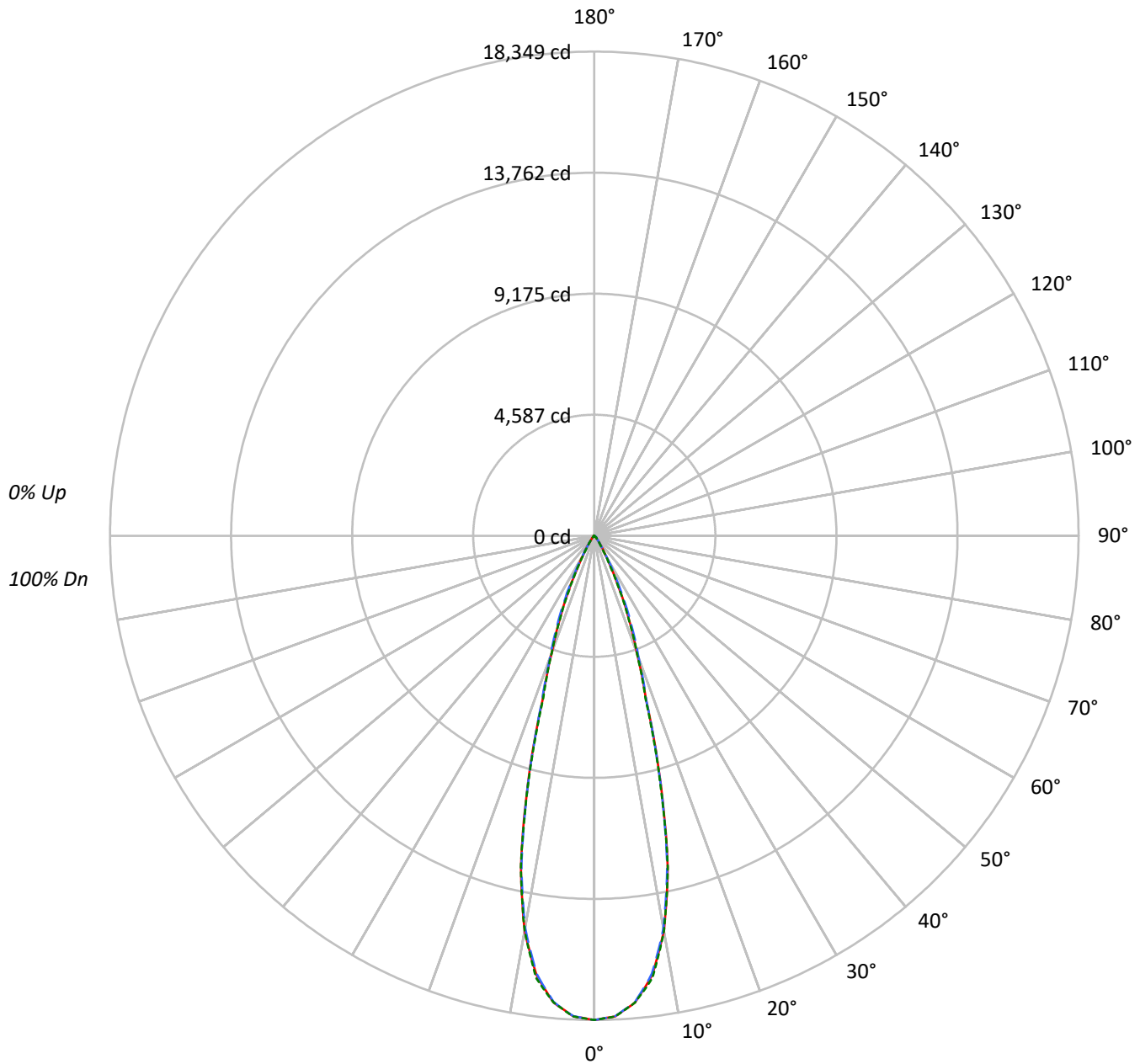


Downlight

TEST NUMBER: P750668

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 |  | 103 | 102 | 101 |  | 99  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  |  | 99  | 97  | 96  |  | 97  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  |  | 96  | 93  | 91  |  | 94  |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  |  | 93  | 90  | 88  |  | 91  |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  |  | 90  | 86  | 84  |  | 88  |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  |  | 87  | 83  | 81  |  | 85  |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  |  | 84  | 81  | 78  |  | 83  |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  |  | 81  | 78  | 75  |  | 80  |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  |  | 79  | 75  | 73  |  | 78  |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  |  | 76  | 73  | 71  |  | 76  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1404502 | 1404502 | 1404502 |
| 5°  | 1364181 | 1362590 | 1364250 |
| 10° | 1181587 | 1173255 | 1181307 |
| 15° | 770929  | 766784  | 762933  |
| 20° | 383347  | 397732  | 382834  |
| 25° | 193101  | 217754  | 189148  |
| 30° | 77319   | 84239   | 67358   |
| 35° | 35863   | 34349   | 28790   |
| 40° | 15488   | 17196   | 14578   |
| 45° | 10922   | 13553   | 11020   |
| 50° | 3751    | 9872    | 3965    |
| 55° | 2162    | 4084    | 2282    |
| 60° | 1516    | 1791    | 1516    |
| 65° | 978     | 978     | 978     |
| 70° | 604     | 403     | 604     |
| 75° | 0       | 266     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13553 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1613.5 | 28.3      |
| 10°-20°   | 2598.6 | 45.5      |
| 20°-30°   | 1122.9 | 19.7      |
| 30°-40°   | 255.9  | 4.5       |
| 40°-50°   | 87.9   | 1.5       |
| 50°-60°   | 21.5   | 0.4       |
| 60°-70°   | 5.6    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 5335.0 | 93.5      |
| 0°-40°    | 5591.0 | 98.0      |
| 0°-60°    | 5700.3 | 99.9      |
| 0°-90°    | 5706.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5706.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 18349 | 18349 | 18349 | 18349 | 18349 |      |
| 5°  | 17754 | 17737 | 17734 | 17771 | 17755 | 1615 |
| 15° | 9729  | 9612  | 9676  | 9645  | 9628  | 2605 |
| 25° | 2286  | 2373  | 2578  | 2313  | 2240  | 1094 |
| 35° | 384   | 392   | 368   | 365   | 308   | 260  |
| 45° | 101   | 125   | 125   | 125   | 102   | 72   |
| 55° | 16    | 17    | 31    | 18    | 17    | 16   |
| 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     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 18349.1 | 18349.1 | 18349.1 | 18349.1 | 18349.1 |
| 2.5°  | 18227.4 | 18214.8 | 18222.0 | 18231.0 | 18234.6 |
| 5°    | 17754.5 | 17737.4 | 17733.8 | 17770.7 | 17755.4 |
| 7.5°  | 16800.4 | 16776.1 | 16739.2 | 16823.0 | 16901.3 |
| 10°   | 15202.3 | 15175.3 | 15095.1 | 15134.7 | 15198.7 |
| 12.5° | 12842.9 | 12755.5 | 12753.7 | 12879.8 | 12862.7 |
| 15°   | 9728.6  | 9611.5  | 9676.3  | 9644.8  | 9627.7  |
| 17.5° | 6542.2  | 6497.1  | 6583.6  | 6557.5  | 6444.9  |
| 20°   | 4706.2  | 4717.9  | 4882.8  | 4799.9  | 4699.9  |
| 22.5° | 3434.1  | 3476.5  | 3672.0  | 3458.5  | 3380.1  |
| 25°   | 2286.4  | 2372.9  | 2578.3  | 2312.6  | 2239.6  |
| 27.5° | 1406.3  | 1445.9  | 1654.0  | 1388.3  | 1348.6  |
| 30°   | 874.8   | 854.9   | 953.1   | 818.0   | 762.1   |
| 32.5° | 573.9   | 548.6   | 580.2   | 520.7   | 475.7   |
| 35°   | 383.8   | 391.9   | 367.6   | 364.9   | 308.1   |
| 37.5° | 239.6   | 275.7   | 243.2   | 259.5   | 198.2   |
| 40°   | 155.0   | 200.0   | 172.1   | 190.1   | 145.9   |
| 42.5° | 127.0   | 154.0   | 141.4   | 150.4   | 129.7   |
| 45°   | 100.9   | 125.2   | 125.2   | 125.2   | 101.8   |
| 47.5° | 55.9    | 83.8    | 107.2   | 85.6    | 59.5    |
| 50°   | 31.5    | 42.3    | 82.9    | 44.1    | 33.3    |
| 52.5° | 21.6    | 24.3    | 56.8    | 25.2    | 22.5    |
| 55°   | 16.2    | 17.1    | 30.6    | 18.0    | 17.1    |
| 57.5° | 12.6    | 13.5    | 16.2    | 13.5    | 12.6    |
| 60°   | 9.9     | 9.9     | 11.7    | 10.8    | 9.9     |
| 62.5° | 7.2     | 7.2     | 8.1     | 7.2     | 7.2     |
| 65°   | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 67.5° | 2.7     | 3.6     | 3.6     | 3.6     | 3.6     |
| 70°   | 2.7     | 1.8     | 1.8     | 1.8     | 2.7     |
| 72.5° | 1.8     | 0.9     | 0.9     | 0.9     | 0.9     |
| 75°   | 0.0     | 0.0     | 0.9     | 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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Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

## Scaled Data Report







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







(END OF REPORT)