

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: P780467

Luminaire Tested: LER4D25D010-EC4DR3020359027-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P780467  
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: LER4D25D010-EC4DR3020359027-4LBS1MW  
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: 2254.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 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): 25.1  
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



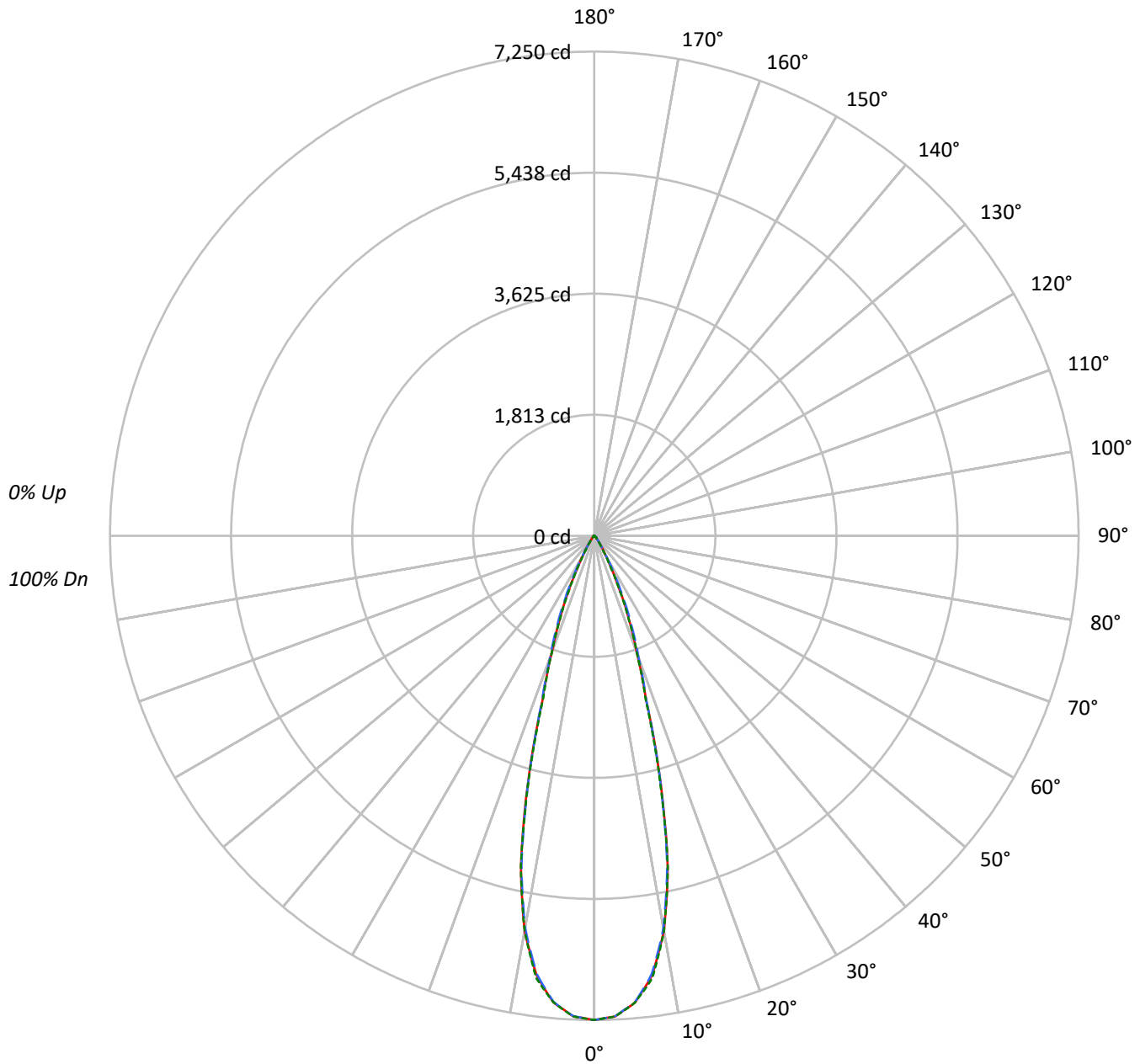
Downlight



TEST NUMBER: P780467

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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°  | 554963 | 554963 | 554963 |
| 5°  | 539034 | 538404 | 539064 |
| 10° | 466882 | 463594 | 466773 |
| 15° | 304620 | 302980 | 301458 |
| 20° | 151475 | 157161 | 151272 |
| 25° | 76298  | 86044  | 74735  |
| 30° | 30555  | 33286  | 26613  |
| 35° | 14175  | 13568  | 11381  |
| 40° | 6115   | 6795   | 5755   |
| 45° | 4319   | 5358   | 4352   |
| 50° | 1477   | 3906   | 1572   |
| 55° | 854    | 1615   | 907    |
| 60° | 597    | 704    | 597    |
| 65° | 380    | 380    | 380    |
| 70° | 246    | 157    | 246    |
| 75° | 0      | 89     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5358 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 637.6  | 28.3      |
| 10°-20°   | 1026.8 | 45.5      |
| 20°-30°   | 443.7  | 19.7      |
| 30°-40°   | 101.1  | 4.5       |
| 40°-50°   | 34.7   | 1.5       |
| 50°-60°   | 8.5    | 0.4       |
| 60°-70°   | 2.2    | 0.1       |
| 70°-80°   | 0.2    | 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°    | 2108.0 | 93.5      |
| 0°-40°    | 2209.2 | 98.0      |
| 0°-60°    | 2252.4 | 99.9      |
| 0°-90°    | 2254.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2254.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7250 | 7250  | 7250 | 7250  | 7250 |      |
| 5°  | 7015 | 7009  | 7007 | 7022  | 7016 | 638  |
| 15° | 3844 | 3798  | 3823 | 3811  | 3804 | 1029 |
| 25° | 903  | 938   | 1019 | 914   | 885  | 432  |
| 35° | 152  | 155   | 145  | 144   | 122  | 103  |
| 45° | 40   | 50    | 50   | 50    | 40   | 28   |
| 55° | 6    | 7     | 12   | 7     | 7    | 6    |
| 65° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 7250.3 | 7250.3 | 7250.3 | 7250.3 | 7250.3 |
| 2.5°  | 7202.3 | 7197.3 | 7200.2 | 7203.7 | 7205.1 |
| 5°    | 7015.4 | 7008.6 | 7007.2 | 7021.8 | 7015.8 |
| 7.5°  | 6638.4 | 6628.8 | 6614.2 | 6647.3 | 6678.3 |
| 10°   | 6006.9 | 5996.3 | 5964.6 | 5980.2 | 6005.5 |
| 12.5° | 5074.7 | 5040.1 | 5039.4 | 5089.2 | 5082.5 |
| 15°   | 3844.1 | 3797.8 | 3823.4 | 3811.0 | 3804.2 |
| 17.5° | 2585.0 | 2567.2 | 2601.4 | 2591.1 | 2546.6 |
| 20°   | 1859.6 | 1864.2 | 1929.4 | 1896.6 | 1857.1 |
| 22.5° | 1356.9 | 1373.6 | 1450.9 | 1366.5 | 1335.6 |
| 25°   | 903.4  | 937.6  | 1018.8 | 913.7  | 884.9  |
| 27.5° | 555.6  | 571.3  | 653.6  | 548.5  | 532.9  |
| 30°   | 345.7  | 337.8  | 376.6  | 323.2  | 301.1  |
| 32.5° | 226.8  | 216.8  | 229.2  | 205.7  | 187.9  |
| 35°   | 151.7  | 154.9  | 145.2  | 144.2  | 121.8  |
| 37.5° | 94.7   | 108.9  | 96.1   | 102.5  | 78.3   |
| 40°   | 61.2   | 79.0   | 68.0   | 75.1   | 57.6   |
| 42.5° | 50.2   | 60.8   | 55.9   | 59.5   | 51.3   |
| 45°   | 39.9   | 49.5   | 49.5   | 49.5   | 40.2   |
| 47.5° | 22.1   | 33.1   | 42.3   | 33.8   | 23.5   |
| 50°   | 12.4   | 16.7   | 32.8   | 17.4   | 13.2   |
| 52.5° | 8.5    | 9.6    | 22.4   | 10.0   | 8.9    |
| 55°   | 6.4    | 6.8    | 12.1   | 7.1    | 6.8    |
| 57.5° | 5.0    | 5.3    | 6.4    | 5.3    | 5.0    |
| 60°   | 3.9    | 3.9    | 4.6    | 4.3    | 3.9    |
| 62.5° | 2.9    | 2.9    | 3.2    | 2.9    | 2.9    |
| 65°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 67.5° | 1.1    | 1.4    | 1.4    | 1.4    | 1.4    |
| 70°   | 1.1    | 0.7    | 0.7    | 0.7    | 1.1    |
| 72.5° | 0.7    | 0.3    | 0.3    | 0.3    | 0.3    |
| 75°   | 0.0    | 0.0    | 0.3    | 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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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)