

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: P784397

Luminaire Tested: LER4DD35BD010-EC4DR3020359024-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P784397  
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: LER4DD35BD010-EC4DR3020359024-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2674.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 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): 30.8  
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

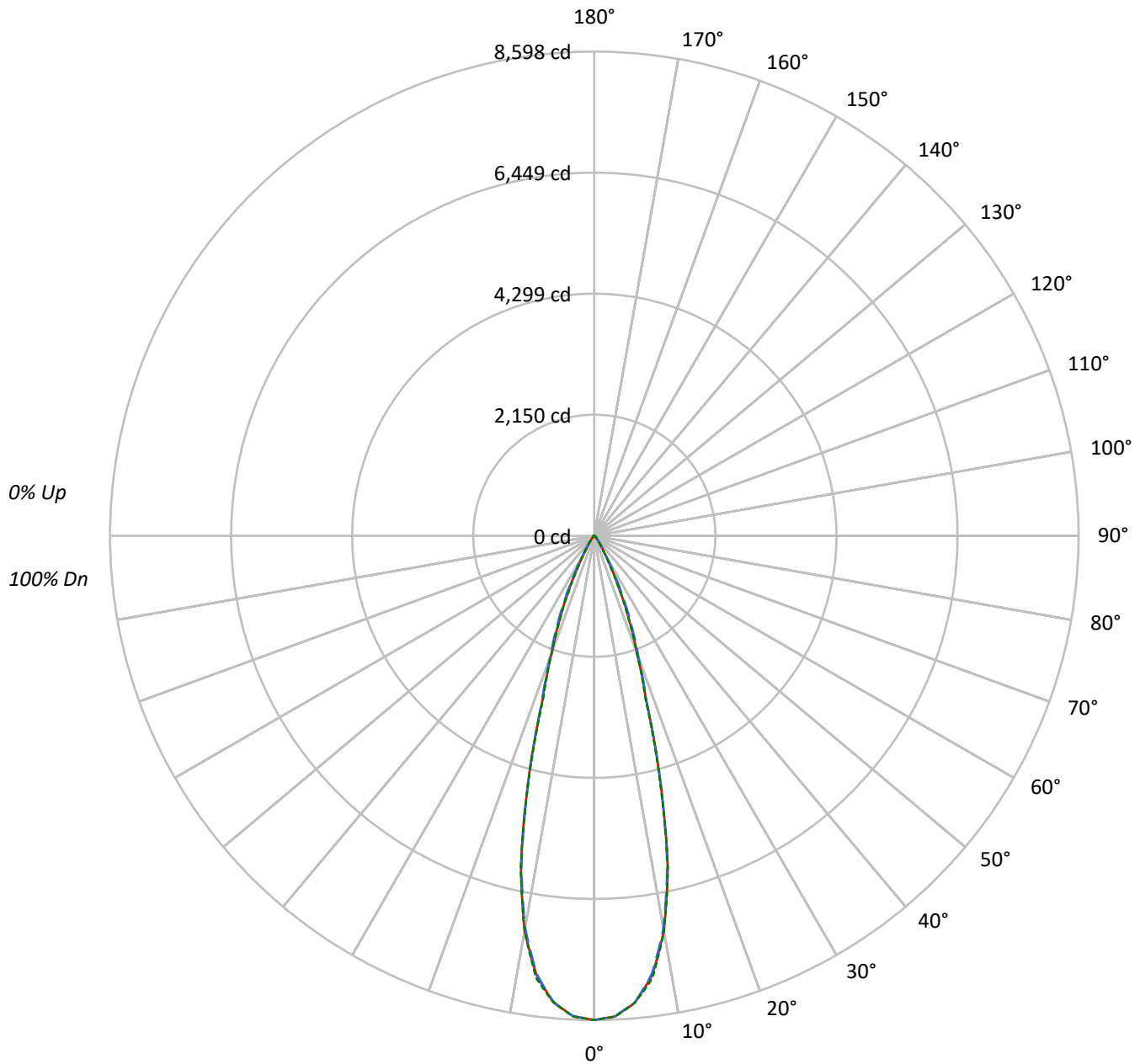


Downlight

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### Luminous Intensity Polar Plot



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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 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°  | 658151 | 658151 | 658151 |
| 5°  | 639251 | 638505 | 639289 |
| 10° | 553692 | 549790 | 553560 |
| 15° | 361256 | 359314 | 357507 |
| 20° | 179634 | 186379 | 179398 |
| 25° | 90486  | 102040 | 88637  |
| 30° | 36229  | 39473  | 31562  |
| 35° | 16801  | 16091  | 13493  |
| 40° | 7254   | 8054   | 6835   |
| 45° | 5120   | 6354   | 5163   |
| 50° | 1762   | 4620   | 1858   |
| 55° | 1014   | 1922   | 1068   |
| 60° | 704    | 842    | 704    |
| 65° | 453    | 453    | 453    |
| 70° | 291    | 179    | 291    |
| 75° | 0      | 118    | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6354 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 756.1  | 28.3      |
| 10°-20°   | 1217.7 | 45.5      |
| 20°-30°   | 526.2  | 19.7      |
| 30°-40°   | 119.9  | 4.5       |
| 40°-50°   | 41.2   | 1.5       |
| 50°-60°   | 10.0   | 0.4       |
| 60°-70°   | 2.6    | 0.1       |
| 70°-80°   | 0.3    | 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°    | 2500.0 | 93.5      |
| 0°-40°    | 2619.9 | 98.0      |
| 0°-60°    | 2671.2 | 99.9      |
| 0°-90°    | 2674.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2674.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 8598 | 8598  | 8598 | 8598  | 8598 |      |
| 5°  | 8320 | 8312  | 8310 | 8327  | 8320 | 757  |
| 15° | 4559 | 4504  | 4534 | 4520  | 4512 | 1221 |
| 25° | 1071 | 1112  | 1208 | 1084  | 1050 | 513  |
| 35° | 180  | 184   | 172  | 171   | 144  | 122  |
| 45° | 47   | 59    | 59   | 59    | 48   | 34   |
| 55° | 8    | 8     | 14   | 8     | 8    | 7    |
| 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°    | 8598.4 | 8598.4 | 8598.4 | 8598.4 | 8598.4 |
| 2.5°  | 8541.4 | 8535.5 | 8538.8 | 8543.1 | 8544.7 |
| 5°    | 8319.7 | 8311.7 | 8310.0 | 8327.3 | 8320.2 |
| 7.5°  | 7872.7 | 7861.3 | 7844.0 | 7883.2 | 7920.0 |
| 10°   | 7123.8 | 7111.1 | 7073.6 | 7092.1 | 7122.1 |
| 12.5° | 6018.2 | 5977.2 | 5976.4 | 6035.5 | 6027.5 |
| 15°   | 4558.8 | 4503.9 | 4534.3 | 4519.5 | 4511.5 |
| 17.5° | 3065.7 | 3044.5 | 3085.1 | 3072.8 | 3020.1 |
| 20°   | 2205.3 | 2210.8 | 2288.1 | 2249.2 | 2202.4 |
| 22.5° | 1609.2 | 1629.1 | 1720.7 | 1620.6 | 1583.9 |
| 25°   | 1071.4 | 1111.9 | 1208.2 | 1083.7 | 1049.5 |
| 27.5° | 659.0  | 677.6  | 775.1  | 650.5  | 632.0  |
| 30°   | 409.9  | 400.6  | 446.6  | 383.3  | 357.1  |
| 32.5° | 268.9  | 257.1  | 271.9  | 244.0  | 222.9  |
| 35°   | 179.8  | 183.6  | 172.2  | 171.0  | 144.4  |
| 37.5° | 112.3  | 129.2  | 114.0  | 121.6  | 92.9   |
| 40°   | 72.6   | 93.7   | 80.6   | 89.1   | 68.4   |
| 42.5° | 59.5   | 72.2   | 66.3   | 70.5   | 60.8   |
| 45°   | 47.3   | 58.7   | 58.7   | 58.7   | 47.7   |
| 47.5° | 26.2   | 39.3   | 50.2   | 40.1   | 27.9   |
| 50°   | 14.8   | 19.8   | 38.8   | 20.7   | 15.6   |
| 52.5° | 10.1   | 11.4   | 26.6   | 11.8   | 10.6   |
| 55°   | 7.6    | 8.0    | 14.4   | 8.4    | 8.0    |
| 57.5° | 5.9    | 6.3    | 7.6    | 6.3    | 5.9    |
| 60°   | 4.6    | 4.6    | 5.5    | 5.1    | 4.6    |
| 62.5° | 3.4    | 3.4    | 3.8    | 3.4    | 3.4    |
| 65°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 67.5° | 1.3    | 1.7    | 1.7    | 1.7    | 1.7    |
| 70°   | 1.3    | 0.8    | 0.8    | 0.8    | 1.3    |
| 72.5° | 0.8    | 0.4    | 0.4    | 0.4    | 0.4    |
| 75°   | 0.0    | 0.0    | 0.4    | 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)