

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: P779558

Luminaire Tested: LER4D10D010-EC4DR300210IC9030-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P779558  
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: LER4D10D010-EC4DR300210IC9030-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1078.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 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): 11.7  
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



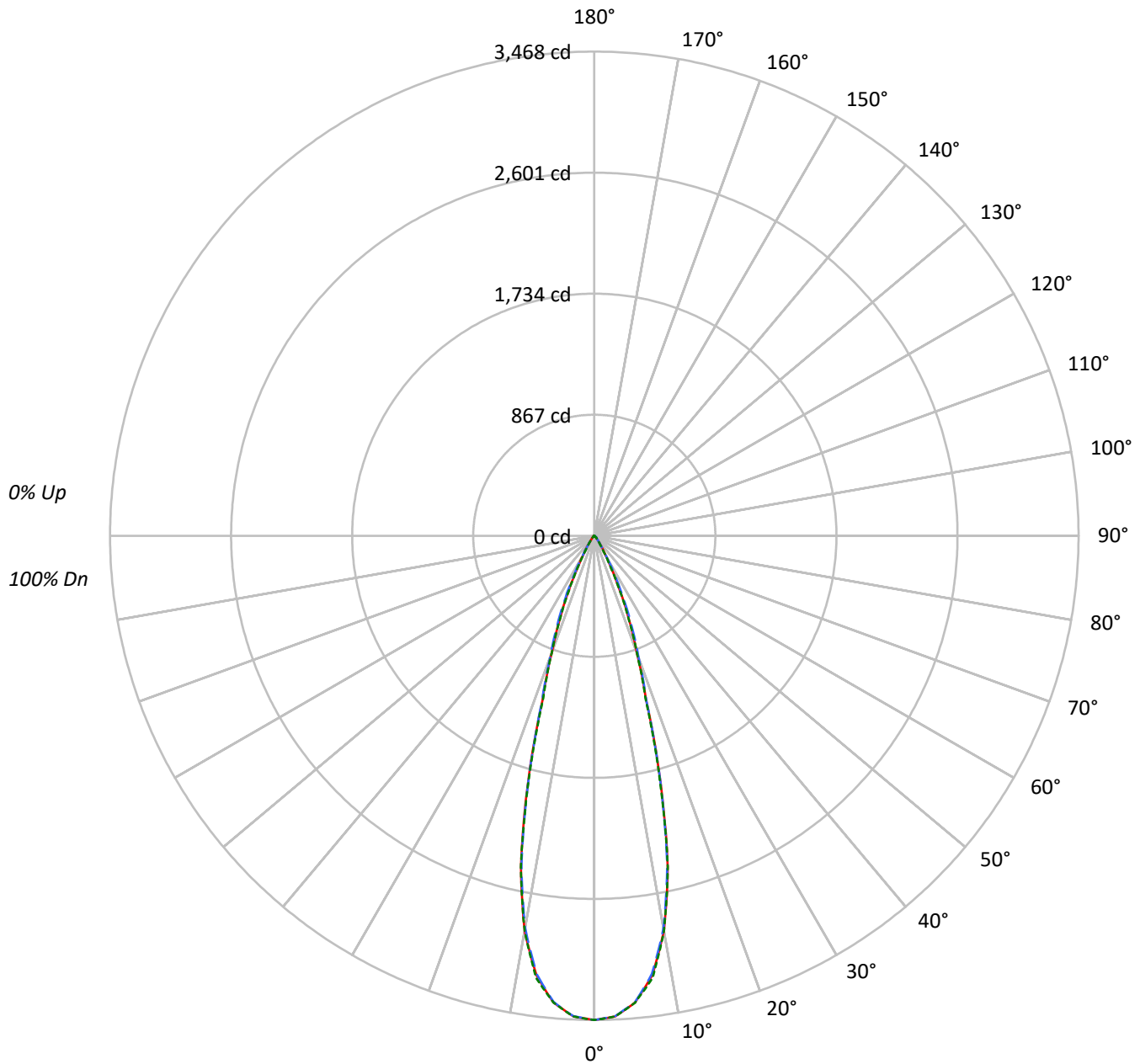
Downlight



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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  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 265483 | 265483 | 265483 |
| 5°  | 257853 | 257554 | 257869 |
| 10° | 223340 | 221770 | 223286 |
| 15° | 145721 | 144936 | 144207 |
| 20° | 72463  | 75176  | 72365  |
| 25° | 36502  | 41164  | 35759  |
| 30° | 14619  | 15918  | 12727  |
| 35° | 6775   | 6494   | 5438   |
| 40° | 2928   | 3247   | 2758   |
| 45° | 2068   | 2565   | 2089   |
| 50° | 714    | 1858   | 750    |
| 55° | 400    | 774    | 427    |
| 60° | 291    | 337    | 291    |
| 65° | 181    | 181    | 181    |
| 70° | 112    | 67     | 112    |
| 75° | 0      | 59     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2565 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 305.0  | 28.3      |
| 10°-20°   | 491.2  | 45.5      |
| 20°-30°   | 212.3  | 19.7      |
| 30°-40°   | 48.4   | 4.5       |
| 40°-50°   | 16.6   | 1.5       |
| 50°-60°   | 4.1    | 0.4       |
| 60°-70°   | 1.1    | 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°    | 1008.4 | 93.5      |
| 0°-40°    | 1056.8 | 98.0      |
| 0°-60°    | 1077.5 | 99.9      |
| 0°-90°    | 1078.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1078.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3468 | 3468  | 3468 | 3468  | 3468 |      |
| 5°  | 3356 | 3353  | 3352 | 3359  | 3356 | 305  |
| 15° | 1839 | 1817  | 1829 | 1823  | 1820 | 492  |
| 25° | 432  | 448   | 487  | 437   | 423  | 207  |
| 35° | 72   | 74    | 70   | 69    | 58   | 49   |
| 45° | 19   | 24    | 24   | 24    | 19   | 14   |
| 55° | 3    | 3     | 6    | 3     | 3    | 3    |
| 65° | 1    | 1     | 1    | 1     | 1    | 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°    | 3468.4 | 3468.4 | 3468.4 | 3468.4 | 3468.4 |
| 2.5°  | 3445.3 | 3443.0 | 3444.4 | 3446.0 | 3446.7 |
| 5°    | 3355.9 | 3352.7 | 3352.0 | 3359.0 | 3356.1 |
| 7.5°  | 3175.6 | 3171.0 | 3164.1 | 3179.9 | 3194.7 |
| 10°   | 2873.5 | 2868.4 | 2853.3 | 2860.7 | 2872.8 |
| 12.5° | 2427.5 | 2411.0 | 2410.7 | 2434.5 | 2431.3 |
| 15°   | 1838.9 | 1816.8 | 1829.0 | 1823.1 | 1819.8 |
| 17.5° | 1236.6 | 1228.1 | 1244.4 | 1239.5 | 1218.2 |
| 20°   | 889.6  | 891.8  | 922.9  | 907.3  | 888.4  |
| 22.5° | 649.1  | 657.1  | 694.1  | 653.7  | 638.9  |
| 25°   | 432.2  | 448.5  | 487.4  | 437.1  | 423.4  |
| 27.5° | 265.8  | 273.3  | 312.7  | 262.4  | 254.9  |
| 30°   | 165.4  | 161.6  | 180.1  | 154.6  | 144.0  |
| 32.5° | 108.5  | 103.7  | 109.7  | 98.4   | 89.9   |
| 35°   | 72.5   | 74.1   | 69.5   | 69.0   | 58.2   |
| 37.5° | 45.3   | 52.1   | 46.0   | 49.0   | 37.5   |
| 40°   | 29.3   | 37.8   | 32.5   | 35.9   | 27.6   |
| 42.5° | 24.0   | 29.1   | 26.8   | 28.4   | 24.5   |
| 45°   | 19.1   | 23.7   | 23.7   | 23.7   | 19.3   |
| 47.5° | 10.5   | 15.8   | 20.3   | 16.2   | 11.2   |
| 50°   | 6.0    | 8.0    | 15.6   | 8.4    | 6.3    |
| 52.5° | 4.1    | 4.6    | 10.7   | 4.8    | 4.2    |
| 55°   | 3.0    | 3.2    | 5.8    | 3.4    | 3.2    |
| 57.5° | 2.4    | 2.6    | 3.0    | 2.6    | 2.4    |
| 60°   | 1.9    | 1.9    | 2.2    | 2.1    | 1.9    |
| 62.5° | 1.4    | 1.4    | 1.5    | 1.4    | 1.4    |
| 65°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 67.5° | 0.5    | 0.7    | 0.7    | 0.7    | 0.7    |
| 70°   | 0.5    | 0.3    | 0.3    | 0.3    | 0.5    |
| 72.5° | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    |
| 75°   | 0.0    | 0.0    | 0.2    | 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)