

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P220951

Luminaire Tested: **9004-W1-FL-LED3597-M-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-FL-LED3597-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 945.9 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

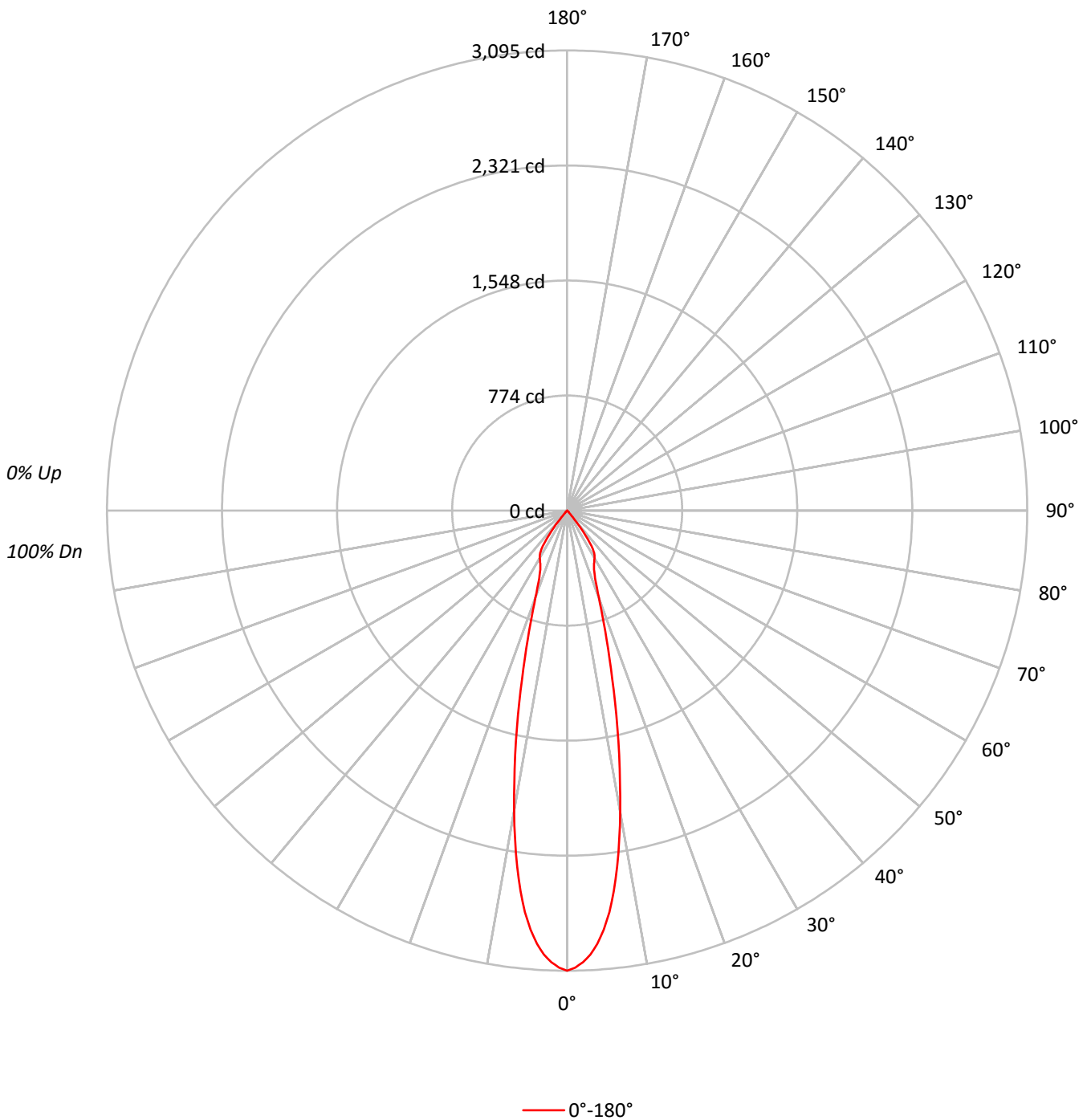
Input Watts (W): 9.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |     |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 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   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  |  | 94  | 91  | 89  |  | 92  | 90  | 88  | 86  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  |  | 90  | 87  | 85  |  | 88  | 86  | 84  | 82  |
| 5   | 97  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  |  | 86  | 83  | 80  |  | 85  | 82  | 80  | 78  |
| 6   | 94  | 86  | 82  | 78  | 92  | 86  | 81  | 78  | 84  | 80  | 77  |  | 83  | 79  | 77  |  | 82  | 79  | 76  | 75  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 73  |  | 79  | 75  | 73  | 72  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  | 73  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 67  |  | 73  | 70  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 68  | 65  |  | 71  | 67  | 65  | 64  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 381742 |
| 5°  | 350290 |
| 10° | 257386 |
| 15° | 149839 |
| 20° | 81710  |
| 25° | 58073  |
| 30° | 52342  |
| 35° | 41228  |
| 40° | 9162   |
| 45° | 2512   |
| 50° | 844    |
| 55° | 495    |
| 60° | 321    |
| 65° | 204    |
| 70° | 108    |
| 75° | 143    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 245.1  | 25.9      |
| 10°-20°   | 327.1  | 34.6      |
| 20°-30°   | 204.5  | 21.6      |
| 30°-40°   | 151.7  | 16.0      |
| 40°-50°   | 14.1   | 1.5       |
| 50°-60°   | 2.2    | 0.2       |
| 60°-70°   | 0.8    | 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°    | 776.7  | 82.1      |
| 0°-40°    | 928.4  | 98.2      |
| 0°-60°    | 944.8  | 99.9      |
| 0°-90°    | 945.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 945.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3095 |      |
| 5°  | 2829 | 245  |
| 15° | 1173 | 327  |
| 25° | 427  | 205  |
| 35° | 274  | 152  |
| 45° | 14   | 14   |
| 55° | 2    | 2    |
| 65° | 1    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3094.9 |
| 1°    | 3074.5 |
| 2°    | 3039.6 |
| 3°    | 2989.4 |
| 4°    | 2920.5 |
| 5°    | 2829.1 |
| 6°    | 2715.7 |
| 7°    | 2578.8 |
| 8°    | 2419.1 |
| 9°    | 2241.1 |
| 10°   | 2055.0 |
| 11°   | 1864.6 |
| 12°   | 1680.1 |
| 13°   | 1500.4 |
| 14°   | 1329.7 |
| 15°   | 1173.4 |
| 16°   | 1031.2 |
| 17°   | 907.0  |
| 18°   | 795.6  |
| 19°   | 701.2  |
| 20°   | 622.5  |
| 21°   | 560.3  |
| 22°   | 510.4  |
| 23°   | 473.6  |
| 24°   | 446.5  |
| 25°   | 426.7  |
| 26°   | 412.0  |
| 27°   | 399.3  |
| 28°   | 387.6  |
| 29°   | 377.5  |
| 30°   | 367.5  |
| 32.5° | 339.7  |
| 35°   | 273.8  |
| 37.5° | 165.7  |
| 40°   | 56.9   |
| 42.5° | 19.7   |
| 45°   | 14.4   |
| 47.5° | 10.4   |
| 50°   | 4.4    |
| 52.5° | 3.3    |
| 55°   | 2.3    |
| 57.5° | 1.7    |
| 60°   | 1.3    |
| 62.5° | 1.0    |
| 65°   | 0.7    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 0.7 |
| 70°   | 0.3 |
| 72.5° | 0.3 |
| 75°   | 0.3 |
| 77.5° | 0.3 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)