

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: P221099

Luminaire Tested: **9004-W1-FL-LED3097-F-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-FL-LED3097-F-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

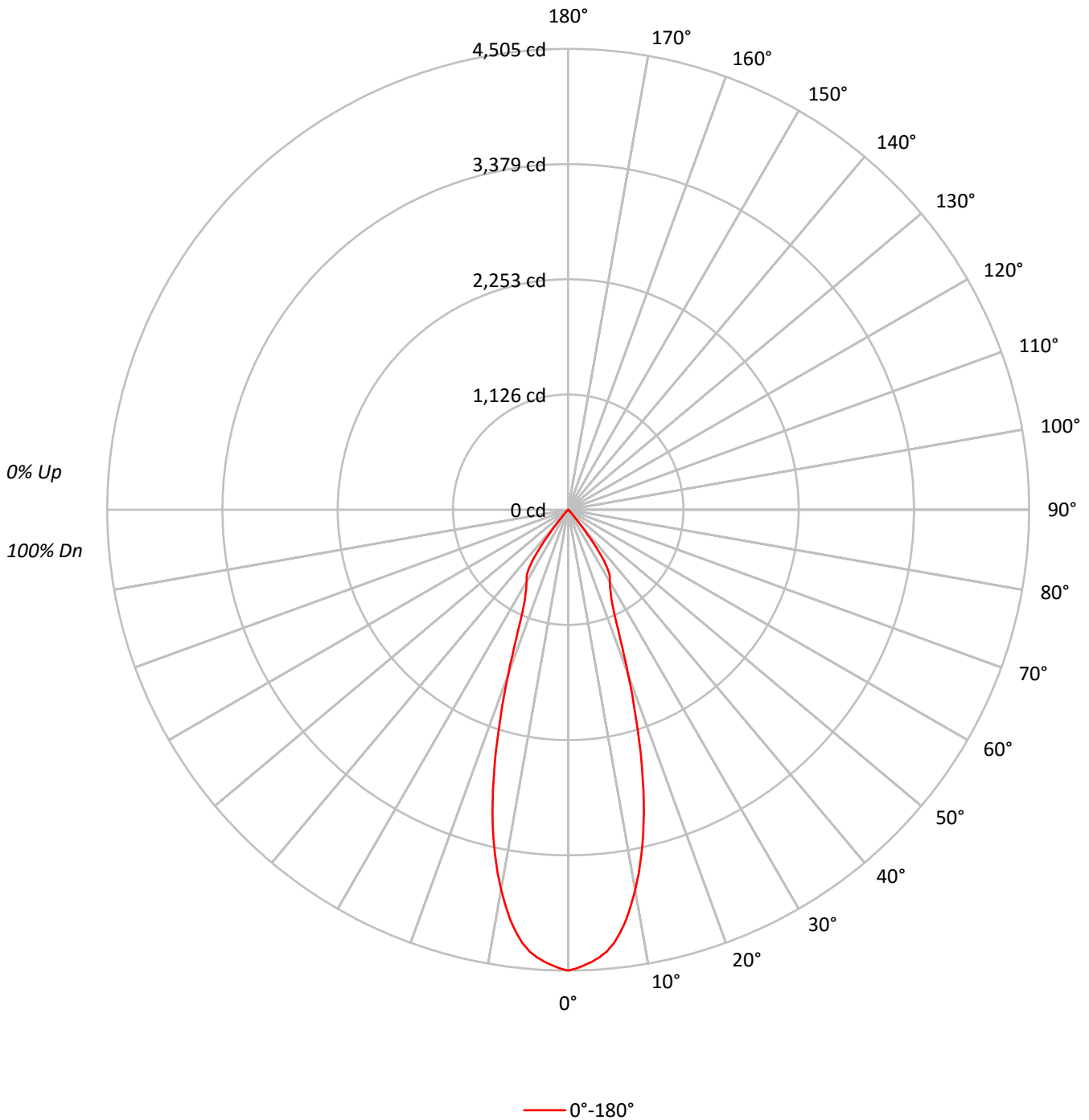
Lumens per Lamp: N/A  
Luminaire Lumens: 2026.3 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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 | 105 | 102 | 99  | 107 | 104 | 100 | 98  | 100 | 98  | 96  | 97  | 95  | 94  | 95  | 93  | 92  | 90  |
| 3   | 105 | 99  | 95  | 92  | 103 | 98  | 94  | 91  | 96  | 92  | 90  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |
| 4   | 101 | 94  | 89  | 86  | 99  | 93  | 89  | 85  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 85  | 82  | 81  |
| 5   | 97  | 89  | 84  | 81  | 95  | 88  | 84  | 80  | 87  | 83  | 80  | 85  | 82  | 79  | 84  | 81  | 78  | 77  |
| 6   | 93  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 79  | 75  | 82  | 78  | 75  | 80  | 77  | 74  | 73  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 70  |
| 8   | 86  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 67  |
| 9   | 82  | 74  | 69  | 65  | 81  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  | 78  | 70  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 61  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 555721 |
| 5°  | 536696 |
| 10° | 472525 |
| 15° | 362965 |
| 20° | 224484 |
| 25° | 139105 |
| 30° | 115907 |
| 35° | 92786  |
| 40° | 20224  |
| 45° | 4309   |
| 50° | 806    |
| 55° | 452    |
| 60° | 345    |
| 65° | 204    |
| 70° | 252    |
| 75° | 334    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 395.9  | 19.5      |
| 10°-20°   | 762.2  | 37.6      |
| 20°-30°   | 500.6  | 24.7      |
| 30°-40°   | 337.5  | 16.7      |
| 40°-50°   | 26.6   | 1.3       |
| 50°-60°   | 1.9    | 0.1       |
| 60°-70°   | 0.9    | 0.0       |
| 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°    | 1658.7 | 81.9      |
| 0°-40°    | 1996.2 | 98.5      |
| 0°-60°    | 2024.7 | 99.9      |
| 0°-90°    | 2026.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2026.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4505 |      |
| 5°  | 4335 | 396  |
| 15° | 2842 | 762  |
| 25° | 1022 | 501  |
| 35° | 616  | 338  |
| 45° | 25   | 27   |
| 55° | 2    | 2    |
| 65° | 1    | 1    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4505.4 |
| 1°    | 4485.6 |
| 2°    | 4456.7 |
| 3°    | 4424.9 |
| 4°    | 4387.5 |
| 5°    | 4334.6 |
| 6°    | 4261.9 |
| 7°    | 4167.3 |
| 8°    | 4050.8 |
| 9°    | 3916.0 |
| 10°   | 3772.7 |
| 11°   | 3615.3 |
| 12°   | 3443.8 |
| 13°   | 3256.7 |
| 14°   | 3057.7 |
| 15°   | 2842.4 |
| 16°   | 2615.8 |
| 17°   | 2381.5 |
| 18°   | 2147.2 |
| 19°   | 1926.9 |
| 20°   | 1710.2 |
| 21°   | 1522.5 |
| 22°   | 1353.8 |
| 23°   | 1214.0 |
| 24°   | 1106.0 |
| 25°   | 1022.1 |
| 26°   | 961.4  |
| 27°   | 914.8  |
| 28°   | 875.2  |
| 29°   | 842.8  |
| 30°   | 813.8  |
| 32.5° | 753.1  |
| 35°   | 616.2  |
| 37.5° | 366.3  |
| 40°   | 125.6  |
| 42.5° | 37.4   |
| 45°   | 24.7   |
| 47.5° | 15.5   |
| 50°   | 4.2    |
| 52.5° | 2.1    |
| 55°   | 2.1    |
| 57.5° | 1.4    |
| 60°   | 1.4    |
| 62.5° | 1.4    |
| 65°   | 0.7    |



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)