

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: P221080

Luminaire Tested: **9004-W1-FL-LED5080-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221080  
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-LED5080-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

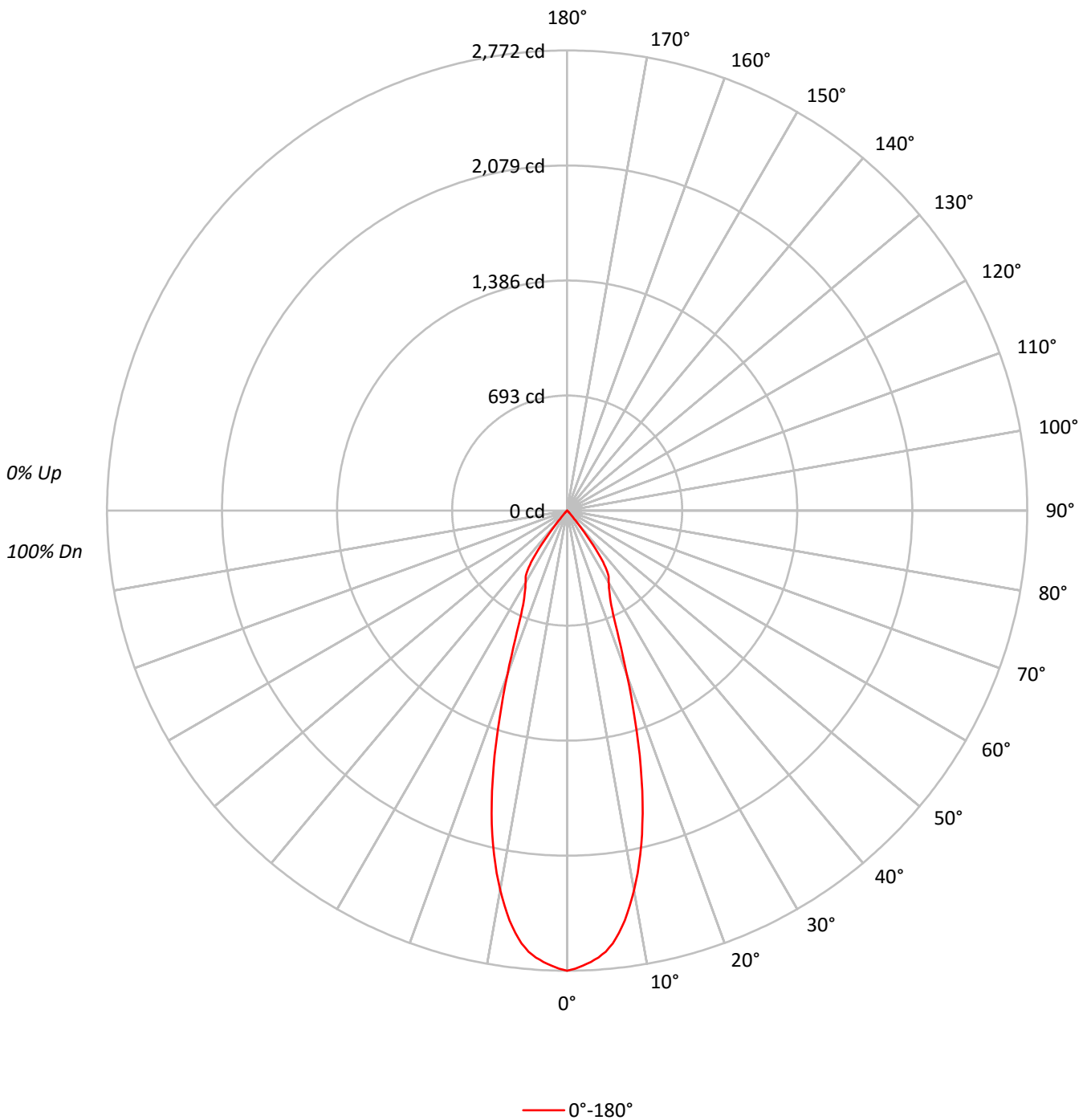
Lumens per Lamp: N/A  
Luminaire Lumens: 1246.7 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 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°  | 341914 |
| 5°  | 330207 |
| 10° | 290727 |
| 15° | 223316 |
| 20° | 138114 |
| 25° | 85578  |
| 30° | 71313  |
| 35° | 57084  |
| 40° | 12447  |
| 45° | 2651   |
| 50° | 499    |
| 55° | 280    |
| 60° | 222    |
| 65° | 117    |
| 70° | 144    |
| 75° | 191    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 243.6  | 19.5      |
| 10°-20°   | 469.0  | 37.6      |
| 20°-30°   | 308.0  | 24.7      |
| 30°-40°   | 207.7  | 16.7      |
| 40°-50°   | 16.4   | 1.3       |
| 50°-60°   | 1.2    | 0.1       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 0.4    | 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°    | 1020.5 | 81.9      |
| 0°-40°    | 1228.2 | 98.5      |
| 0°-60°    | 1245.8 | 99.9      |
| 0°-90°    | 1246.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1246.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2772 |      |
| 5°  | 2667 | 244  |
| 15° | 1749 | 469  |
| 25° | 629  | 308  |
| 35° | 379  | 208  |
| 45° | 15   | 16   |
| 55° | 1    | 1    |
| 65° | 0    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2772.0 |
| 1°    | 2759.8 |
| 2°    | 2742.0 |
| 3°    | 2722.5 |
| 4°    | 2699.4 |
| 5°    | 2666.9 |
| 6°    | 2622.1 |
| 7°    | 2564.0 |
| 8°    | 2492.3 |
| 9°    | 2409.4 |
| 10°   | 2321.2 |
| 11°   | 2224.4 |
| 12°   | 2118.8 |
| 13°   | 2003.7 |
| 14°   | 1881.3 |
| 15°   | 1748.8 |
| 16°   | 1609.4 |
| 17°   | 1465.2 |
| 18°   | 1321.1 |
| 19°   | 1185.6 |
| 20°   | 1052.2 |
| 21°   | 936.7  |
| 22°   | 832.9  |
| 23°   | 747.0  |
| 24°   | 680.5  |
| 25°   | 628.8  |
| 26°   | 591.5  |
| 27°   | 562.8  |
| 28°   | 538.5  |
| 29°   | 518.5  |
| 30°   | 500.7  |
| 32.5° | 463.4  |
| 35°   | 379.1  |
| 37.5° | 225.4  |
| 40°   | 77.3   |
| 42.5° | 23.0   |
| 45°   | 15.2   |
| 47.5° | 9.6    |
| 50°   | 2.6    |
| 52.5° | 1.3    |
| 55°   | 1.3    |
| 57.5° | 0.9    |
| 60°   | 0.9    |
| 62.5° | 0.9    |
| 65°   | 0.4    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 0.4 |
| 70°   | 0.4 |
| 72.5° | 0.4 |
| 75°   | 0.4 |
| 77.5° | 0.4 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)