

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: P221114

Luminaire Tested: **9004-W1-FL-LED4080-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-FL-LED4080-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2153.6 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

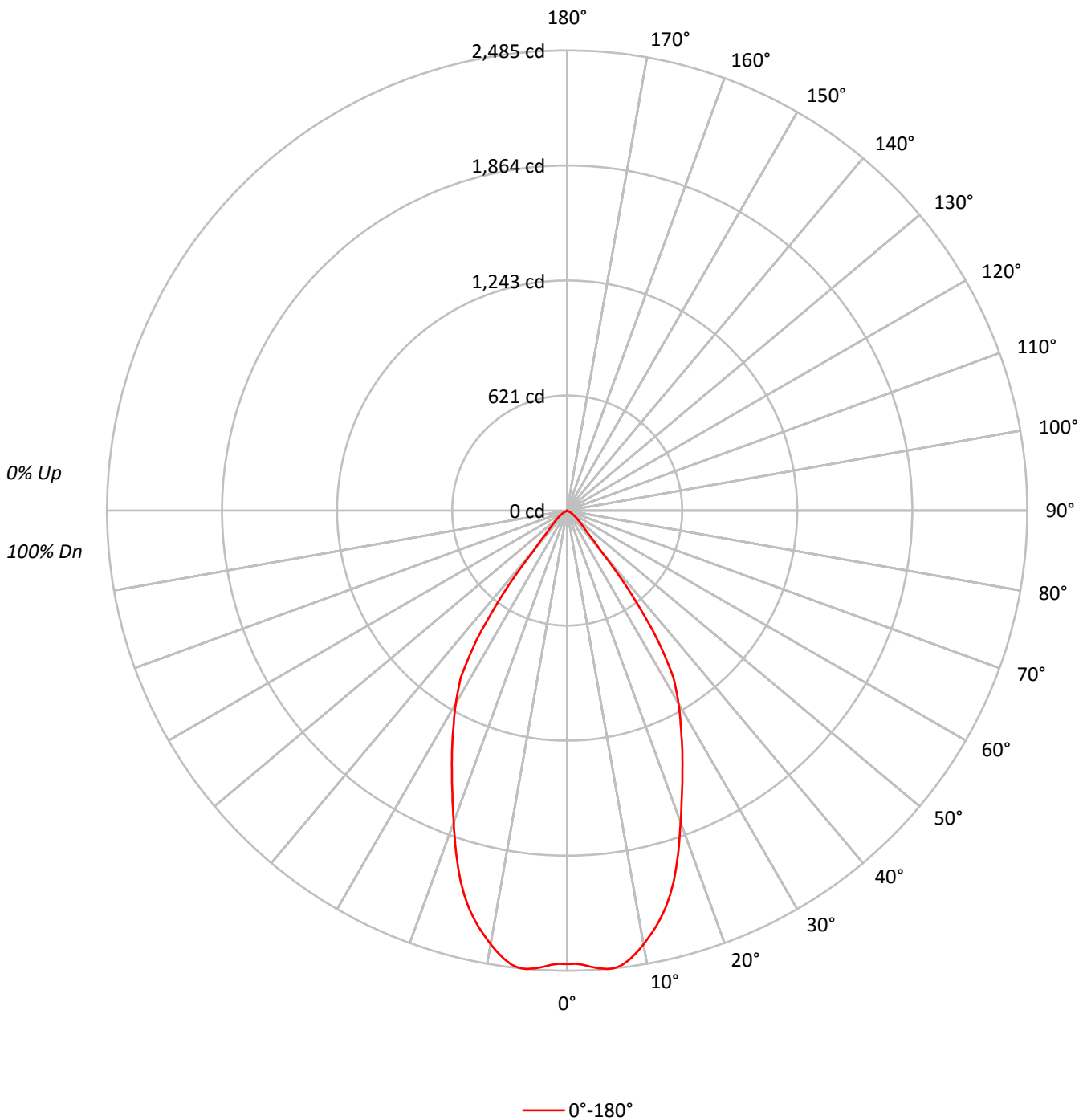
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |
| 1   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 92  | 95  | 93  | 90  | 92  | 90  | 89  |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 90  | 86  | 84  | 87  | 85  | 82  |
| 4   | 97  | 90  | 84  | 80  | 95  | 89  | 83  | 79  | 86  | 82  | 79  | 84  | 81  | 78  | 83  | 79  | 77  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 73  | 81  | 76  | 73  | 80  | 75  | 72  | 78  | 74  | 72  |
| 6   | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  |
| 8   | 79  | 70  | 64  | 60  | 78  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  |
| 9   | 75  | 66  | 60  | 56  | 74  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 55  | 63  | 58  | 55  |
| 10  | 72  | 62  | 56  | 53  | 71  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 302086 |
| 5°  | 307734 |
| 10° | 297953 |
| 15° | 274408 |
| 20° | 235155 |
| 25° | 200539 |
| 30° | 171497 |
| 35° | 128201 |
| 40° | 45487  |
| 45° | 21281  |
| 50° | 14066  |
| 55° | 9462   |
| 60° | 4761   |
| 65° | 1138   |
| 70° | 829    |
| 75° | 715    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.9  | 10.9      |
| 10°-20°   | 593.1  | 27.5      |
| 20°-30°   | 677.0  | 31.4      |
| 30°-40°   | 497.0  | 23.1      |
| 40°-50°   | 105.5  | 4.9       |
| 50°-60°   | 39.9   | 1.9       |
| 60°-70°   | 5.7    | 0.3       |
| 70°-80°   | 1.5    | 0.1       |
| 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°    | 1504.0 | 69.8      |
| 0°-40°    | 2001.1 | 92.9      |
| 0°-60°    | 2146.5 | 99.7      |
| 0°-90°    | 2153.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2153.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2449 |      |
| 5°  | 2485 | 234  |
| 15° | 2149 | 593  |
| 25° | 1474 | 677  |
| 35° | 851  | 497  |
| 45° | 122  | 106  |
| 55° | 44   | 40   |
| 65° | 4    | 6    |
| 75° | 2    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2449.1 |
| 1°    | 2448.4 |
| 2°    | 2454.6 |
| 3°    | 2466.9 |
| 4°    | 2478.5 |
| 5°    | 2485.4 |
| 6°    | 2483.9 |
| 7°    | 2470.8 |
| 8°    | 2445.3 |
| 9°    | 2413.6 |
| 10°   | 2378.9 |
| 11°   | 2339.5 |
| 12°   | 2299.4 |
| 13°   | 2253.9 |
| 14°   | 2204.5 |
| 15°   | 2148.9 |
| 16°   | 2085.6 |
| 17°   | 2015.4 |
| 18°   | 1942.8 |
| 19°   | 1866.4 |
| 20°   | 1791.5 |
| 21°   | 1722.0 |
| 22°   | 1654.9 |
| 23°   | 1591.6 |
| 24°   | 1531.4 |
| 25°   | 1473.5 |
| 26°   | 1417.2 |
| 27°   | 1360.0 |
| 28°   | 1305.2 |
| 29°   | 1254.3 |
| 30°   | 1204.1 |
| 32.5° | 1069.0 |
| 35°   | 851.4  |
| 37.5° | 575.0  |
| 40°   | 282.5  |
| 42.5° | 159.0  |
| 45°   | 122.0  |
| 47.5° | 95.7   |
| 50°   | 73.3   |
| 52.5° | 57.9   |
| 55°   | 44.0   |
| 57.5° | 31.6   |
| 60°   | 19.3   |
| 62.5° | 5.4    |
| 65°   | 3.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 3.1 |
| 70°   | 2.3 |
| 72.5° | 2.3 |
| 75°   | 1.5 |
| 77.5° | 0.8 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)