

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: P220370

Luminaire Tested: **9002-W1-FL-LED3090-S-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W1-FL-LED3090-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

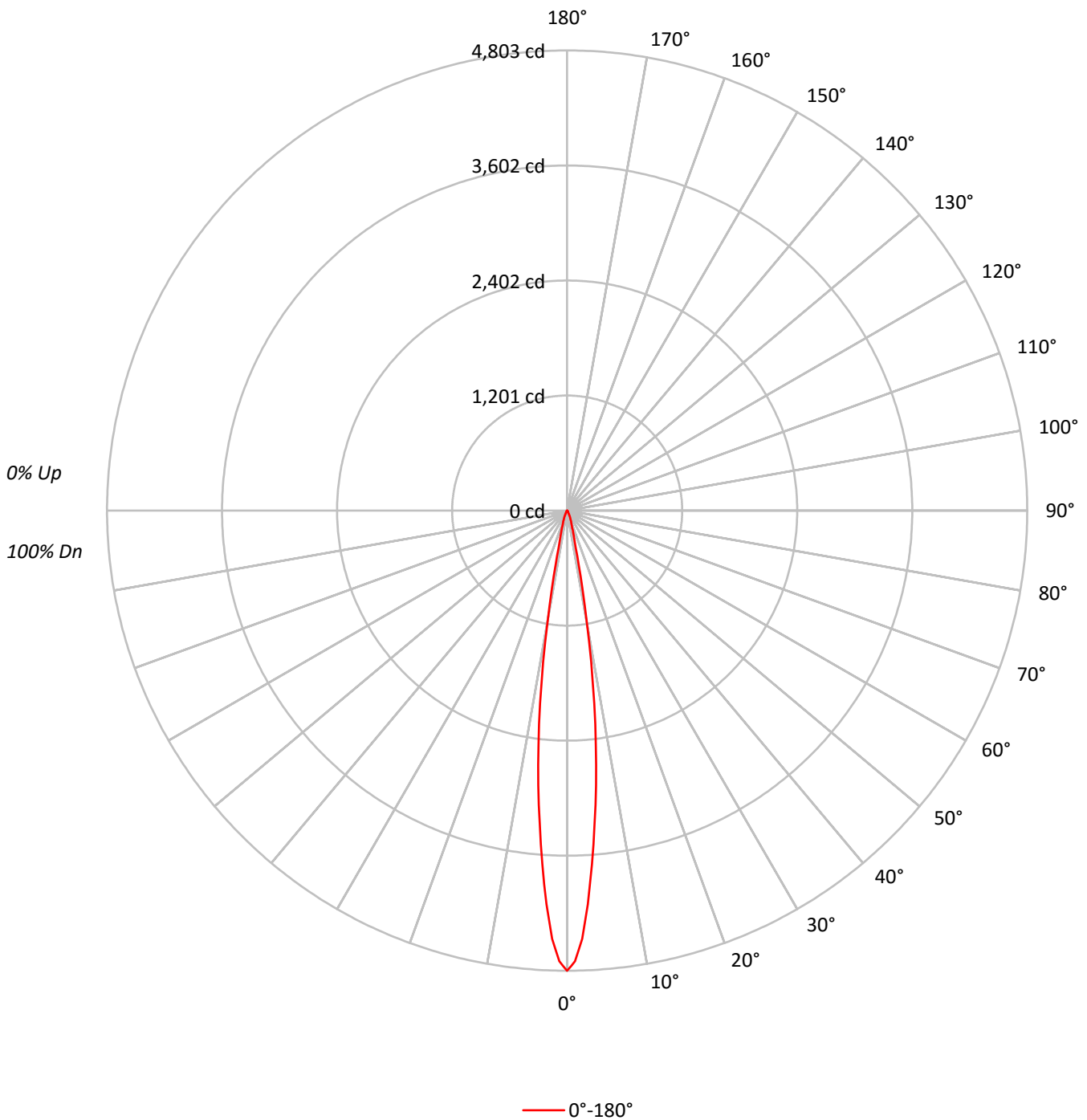
Lumens per Lamp: N/A  
Luminaire Lumens: 381.5 lumens  
Efficiency: N/A  
Efficacy: 38.2 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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  | 50  | 30  | 10  |     |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1   | 116 | 114 | 112 | 110 | 113 | 112 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 98  | 98  | 98  |
| 2   | 112 | 109 | 107 | 104 | 110 | 108 | 105 | 103 | 105 | 103 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 96  | 96  | 96  | 96  |
| 3   | 110 | 106 | 102 | 100 | 108 | 104 | 102 | 99  | 102 | 100 | 98  | 100 | 98  | 96  | 98  | 96  | 95  | 94  | 94  | 94  | 94  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 98  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 94  | 93  | 92  | 92  | 92  | 92  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 90  | 90  | 90  | 90  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 92  | 96  | 93  | 91  | 95  | 92  | 90  | 94  | 92  | 90  | 89  | 89  | 89  | 89  |
| 7   | 101 | 96  | 92  | 90  | 100 | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 88  | 88  | 88  | 88  |
| 8   | 99  | 94  | 91  | 88  | 98  | 94  | 90  | 88  | 93  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 87  | 87  | 87  | 87  | 87  |
| 9   | 98  | 92  | 89  | 87  | 97  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 86  | 90  | 88  | 86  | 85  | 85  | 85  | 85  |
| 10  | 96  | 91  | 88  | 86  | 95  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  | 89  | 87  | 85  | 84  | 84  | 84  | 84  |

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

|     | 0°      |
|-----|---------|
| 0°  | 2369702 |
| 5°  | 1628478 |
| 10° | 593724  |
| 15° | 122128  |
| 20° | 58962   |
| 25° | 29288   |
| 30° | 10995   |
| 35° | 5782    |
| 40° | 4637    |
| 45° | 3349    |
| 50° | 3070    |
| 55° | 2753    |
| 60° | 3158    |
| 65° | 3736    |
| 70° | 3462    |
| 75° | 3050    |
| 80° | 2273    |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 246.8  | 64.7      |
| 10°-20°   | 90.4   | 23.7      |
| 20°-30°   | 25.8   | 6.8       |
| 30°-40°   | 6.7    | 1.8       |
| 40°-50°   | 4.0    | 1.0       |
| 50°-60°   | 3.1    | 0.8       |
| 60°-70°   | 2.9    | 0.8       |
| 70°-80°   | 1.7    | 0.4       |
| 80°-90°   | 0.1    | 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°    | 363.0  | 95.1      |
| 0°-40°    | 369.7  | 96.9      |
| 0°-60°    | 376.9  | 98.8      |
| 0°-90°    | 381.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 381.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4803 |      |
| 5°  | 3288 | 247  |
| 15° | 239  | 90   |
| 25° | 54   | 26   |
| 35° | 10   | 7    |
| 45° | 5    | 4    |
| 55° | 3    | 3    |
| 65° | 3    | 3    |
| 75° | 2    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4803.0 |
| 1°    | 4705.2 |
| 2°    | 4472.5 |
| 3°    | 4115.4 |
| 4°    | 3702.2 |
| 5°    | 3288.1 |
| 6°    | 2878.9 |
| 7°    | 2463.3 |
| 8°    | 2030.0 |
| 9°    | 1595.9 |
| 10°   | 1185.1 |
| 11°   | 831.3  |
| 12°   | 572.1  |
| 13°   | 402.8  |
| 14°   | 300.9  |
| 15°   | 239.1  |
| 17.5° | 155.7  |
| 20°   | 112.3  |
| 22.5° | 82.6   |
| 25°   | 53.8   |
| 27.5° | 32.1   |
| 30°   | 19.3   |
| 32.5° | 12.8   |
| 35°   | 9.6    |
| 37.5° | 8.0    |
| 40°   | 7.2    |
| 42.5° | 5.6    |
| 45°   | 4.8    |
| 47.5° | 4.8    |
| 50°   | 4.0    |
| 52.5° | 4.0    |
| 55°   | 3.2    |
| 57.5° | 3.2    |
| 60°   | 3.2    |
| 62.5° | 3.2    |
| 65°   | 3.2    |
| 67.5° | 2.4    |
| 70°   | 2.4    |
| 72.5° | 2.4    |
| 75°   | 1.6    |
| 77.5° | 0.8    |
| 80°   | 0.8    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)